CRITERIA II STUDENT PERFORMANCE AND LEARNING OUTCOMES

2020 Batch – I & II Semester

Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)B.Com(BPS)/B.Com(CM) B.Com(A&F)/B.Com(BI)/B.Com(RM) /B.Com(E-Com)/B.Com(BA)	**18CUG14**	**Financial Reporting System**

Preamble : To impact knowledge about the basic accounting standard used for different methods of accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to understand the basic concept of accounting standards.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies ,its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explain about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets , intangible assets and natural resources and to know about the Financial instruments , business combinations,	Remember	Conceptual	Group Mini project

	acquisitions and Joint venture associates.			
CO4	Describe the importance of Analyzing and Interpreting accounting Information, Techniques of financial statement analysis, Cash flow statements and Interpretation of Cash flow statement.	Understand	Conceptual	Class Presentation
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group Discussion

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Programme	Course Code	Title
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Preamble : This course helps the student to interpret the results of business analytics and their implications to business administrations.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the Business Intelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of Data Integration and Data Profiling	Remembering	Conceptual	Group Mini project
CO4	To understand the concept of Multidimensional Data Modeling and its types and techniques.	Understanding Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of Business Intelligence in ERP.	Understanding Apply	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com(CA) /B.Com(IT)/ B.Com(BPS)/B.Com(CM)/ B.Com(BI)/B.Com(RM)/B.Com (E-Com)/B.Com(BA)	**18CUG16**	**Corporate Finance**

Preamble : To acquaint the conceptual frame work of corporate finance and use thereof in making financial decisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Enable to Understand the Nature, Scope, Functions and objectives of Corporate Finance, Planning and Budgeting.	Understanding	Conceptual	Group Assignment
CO2	Enable to Prepare the Capital Structure and Cost of Capital.	Apply	Technical	Technical Presentation
CO3	Enable to Understand the various Source of Finance. Its classificationsand types.	Understanding	Conceptual	Class Presentation
CO4	Able to prepare Working Capital and Cash Receivables Statements.	Apply	Technical	Technical Presentation
CO5	Able to Understand the Dividend decision and Valuation of firms, Types of dividend policy, Bonus Issues, Right issues and SEBI guidelines.	Understanding	Conceptual	Case Study

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (BI)/B.Com (RM)	18CUG18	E-commerce strategy

Preamble : To familiarize the students with the mechanism of conducting business transactions through Electronic Media.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Identify and describe the unique features of e-commerce technology and discuss their business significance.	Understanding	Conceptual	Class Presentation
CO2	Describe the legal and ethical issues related to E-commerce.	Understanding	Conceptual	Class Presentation
CO3	Understand how e-commerce differs from e-business and identify primary technological building blocks underlying e-commerce.	Remembering	Conceptual	Group Assignment
CO4	Describe the impact of technological advances on business to business commerce.	Understanding	Conceptual	Case Study
CO5	Understand the ecommerce strategy and platform and Using Knowledge Management to improve E-Commerce Success	Remembering	Conceptual	Technical Presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/B.Com(PA)/ B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	**18CUG19**	**Brand Management**

Preamble : To familiarize the students with Brand Management concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic Concepts of Brand evolution, functions of Brand, branding and challenges to Brand Builders, strategic Brand Management Process and steps in Branding.	Understanding	Conceptual	Class Presentation
CO2	To understand the concept of Customer Based Brand Equity, steps in building Brands, Brand building implications and David Aaker's Brand equity Model. Brand identity and Positioning and Brand value.	Understanding	Conceptual	Class Presentation
CO3	To understand the elements of Brand equity and criteria for	Understanding	Conceptual	Group Assignment

	choosing Brand elements. Leveraging Brand knowledge and Dimensions of Brand knowledge and Brand Value chain.			
CO4	To understand the Brand strategies like BrandExtension, Brand Personality, Brand image and Brand Repositioning.	Understanding	Conceptual	Case study
CO5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions favoring Marketing,	Understanding	Conceptual	Technical Presentation

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/B.Com(CM)/ B.Com(BI)B.Com(RM)/ B.Com(E-Com)/B.Com(BA)	**18CUG20**	**Project Management**

Preamble : To examine project management roles and environments, the project life cycle, various techniques of work planning, control and evaluation to achieve project objectives.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the meaning of Project and Project Life Cycle	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about principles of project planning andidentification	Remembering	Conceptual	Class Presentation
CO3	To understand and analyze stages of project formulation and SCB Analysis	Understanding	Conceptual	Technical Presentation
CO4	To Elucidate the steps in project appraisal	Understanding	Conceptual	Group Discussion
CO5	To understand the preparation of project report	Remembering	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (RM)/B.Com (BI)	18CUG22	Customer Relationship Management

Preamble : To enable the students to know about the basic concepts of retaining the customers.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the origin of CRM and theirRoots of Relationship Marketing and itsDomain.	Understand	Conceptual	Class Presentation
CO2	Understand the Impact on Sales and Marketing Strategy Sales Force Communication with Automation Technology	Understand	Conceptual	Class Presentation
CO3	Able to know the Customer Data Integration Requirements, Data Platforms Technology Evolution, and Marketing TechnologyDevelopment Path.	Remember	Conceptual	Technical Presentation /Demonstration
CO4	Describe the CRM Evaluation ,Tools, Score cards and CRM Measurement Hierarchy	Understand	Conceptual	Group-MiniProject
CO5	Know about the Privacy, Ethics and Futureof CRM with Marketing, Automation, and Customer Communication	Remember	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(PA)B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/ B.Com (BA)	**18CUG23**	**Consumer Behavior**

Preamble : To enable the students to know about the basic concepts of consumer behaviour.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic concepts of Consumer Behavior.	Understanding	Conceptual	Class presentation
CO2	To Understand and Identify the factors influencing consumer behavior.	Understanding	Conceptual	Class presentation
CO3	To Understand and Identify the elements of personality, learning and attitude.	Understanding	Conceptual	Technical presentation
CO4	To Understand and Identify the factors affecting Reference Groups.	Understanding	Conceptual	Group Mini Project
CO5	To Understand and Identify the cultural influence of consumer behavior.	Understanding	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com (CM)/B.Com(AF)/ B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)	**18CUG24**	**Direct Taxes**

Preamble : To provide basic application knowledge about direct taxes.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic conceptsof direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignment
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

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Programme	Course Code	Title
B.Com / B.Com(PA)/ B.ComA&F/B.Com BI	18CUG25	Accounting For Public Sectors

Preamble : To familiarize the students with the financial statements of various types of public sectors.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the holding company and Subsidiary company.	Remembering	Conceptual	Simulation Exercises
CO2	To Understand the meaning of banking companies and preparation of final accounts.	Understanding	Conceptual	Self- Supporting Assignments
CO3	To Understand the concept of Life insurance and preparation of final accounts of insurance companies and determination of Profit in Life Insurance Business.	Understanding	Analytical	Case Study
CO4	To Understand the concept of farm accounting, accounting for price level changes, corporate social responsibility accounting.	Understanding	Analytical	Poster Presentation

CO5	To Understand the meaning of double account system, form and contents of profit and loss account, accounts of government companies.	Understanding	Analytical	Poster Presentation

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Programme	Course Code	Title
B.Com(BI)	18CNU06	E- Banking

Preamble : This course offers detailed knowledge about E Banking.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand about the basicconcepts of e banking.	Understanding	Conceptual	Technical Presentation
CO2	To know about Online banking and Electronic fund transfer in detail.	Understanding	Conceptual	Group Assignment
CO3	To understand about digital banking instruments	Understanding	Conceptual	Writing skills
CO4	To know about E banking securityand cryptography.	Understanding	Conceptual	Poster Presentation
CO5	To understand about the E Building solution and transactions.	Understanding	Conceptual	Technical Presentation

Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com(PA)/B.Com(BPS) /B.Com(CM) B.Com(BI)/ B.Com(RM)/B.Com (E. Com)/B.Com (BA)	18CUG27	Computational Finance using Spreadsheet – Practical

Preamble : Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected level of output : Basic Working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	Self-Support Assignment
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory managementand credit policy	Understanding	Conceptual	Self-Support Assignment
CO5	Able to understand the Leverage andCapital structure	Understanding	Conceptual	Poster presentation

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Programme	Course Code	Title
B.Com/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com(A & F)	**18CUG29**	**Business Technology –Practical**

Preamble : This course enables the students to analyse the cases based on real world view of business technology.

Expected level of output : Basic Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the problems and find solutions for retail information system and to know that retailers must be aware of the advanced technology to survive in the market of today's retailer ship	Understand	Technical	Poster presentation
CO2	Able to understand the problems and find solutions for retailers in the parameters of business measure to figure out the return on investment and update with the current prevailing retailer software to be used in the business	Understand	Technical	SSA
CO3	To impart the basic knowledge about EPOS systems and to analyses various businesses which are searching for new ways in modernising their work and keeping all their data secured at one place	Understand	Technical	SSA
CO4	To examine the basic knowledge about the concepts ofRFID and come up with advantages of RFID. And to study and give solutions for being an early adopterof technology	Understand	Technical	Poster presentation
CO5	To understand the basic concepts of meaning, purposeand tools of Enterprise resource planning (ERP)	Understand	Technical	SSA

Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/B.Com(PA)/B. Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com(E.Com)/B.Com(BA)	18CUG30	Advertising - Practical

Preamble : This course enables the students to know the practical aspects of Advertising.

Expected level of output : Basic Working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concept of Advertising, its objectives, functions and types and also toanalyze advertisement campaign.	Understanding	Analytical	Self Support Assignment
CO2	To understand the nature, characteristics and importance of selling and to know how toprepare a sales report.	Understanding	Analytical	Poster Presentation
CO3	To understand the conventional methods of advertising, market/product research and to know how to prepare the quotations for various advertisement methods.	Understanding	Analytical	Poster Presentation
CO4	To understand the concept of personal skills, importance of communication in selling andto know the concept of negotiation skills.	Understanding	Analytical	Self Support Assignment
CO5	To understand the concept of branding, market penetration and product differentiation and	Understanding	Analytical	Self Support Assignment

	integration of sales promotion with advertising.			
CO6	To know how to design an advertisement and sales strategy and to know how to create a page in Face book and Instagram and also to know how to write an article, campaign and post pictures and how to prepare sales analytics report.	Understanding	Analytical	Self Support Assignment

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Programme	Course Code	Title
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Preamble : To know and practice about the legal document used in the business organization.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Procedure for Tax Filing of Individual, procedure of preparing lease agreements and procedure for conducting Annual General Meeting.	Understanding	Analytical	Self-Support Assignment
CO2	To understand the tax forms to be filled up in the business the method of preparing the share allotment register as per Companies Act.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for taking permanent Account Number and to borrow loan from financialinstitutions.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for online trading account and preparing Audit Programme.	Understanding	Analytical	Self-Support Assignment
CO5	To draft the procedure for applying online passport and internet banking.	Understanding	Analytical	Self-Support Assignment
CO6	To understand how to draft a model Annual Report (With Director Speech).	Understanding	Analytical	Self-Support Assignment

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Programme	Course Code	Title
B.Sc Psychology	**18PSU15**	**Abnormal Psychology – II**

Preamble : Psychology students should have basic knowledge in the area of abnormal behaviour in order to understand the deviations in the behaviour and also to know the assessment and diagnostic basics

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn to identify the symptoms of schizophrenia and cognitive impairment disorders.	Understand	Conceptual	Writing Skills
CO2	Learn to gain knowledge about the symptoms and causes of substance use disorders and disorders of childhood & adolescence.	Understand	Conceptual	Group Assignment
CO3	Learn to acquire knowledge about the types, symptoms of autism spectrum disorders and also about the levels, causes and prevention strategies of mental retardation.	Understand	Conceptual	Group Assignment
CO4	Learn to analyze the basic concepts and underlying theory of various forms of psychotherapy.	Understand	Conceptual	Writing Skill
CO5	Learn to acquire knowledge about the role of various prevention strategies and legal aspects related to maladaptive behaviours.	Understand	Conceptual	Poster presentation/ Flowchart/ Miniature/Protocol

Programme	Course Code	Title
B.Sc Psychology	18PSU17	Counselling Psychology

Preamble : This course is an introduction to the field of counselling. It is aimed both as a way-in to training in counselling or psychotherapy and as a self-standing opportunity for people wanting to know about the discipline

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concept and definition of counselling	Understand	Conceptual	Writing Skills
CO2	To learn about the counselling process and techniques	Understand	Conceptual	Group Assignment
CO3	To understand various theoretical approaches in counselling	Understand	Conceptual	Group Assignment
CO4	To know about various areas of counselling.	Understand	Conceptual	Writing Skills
CO5	To gain knowledge about recent trends in counselling.	Understand	Conceptual	Poster Presentation/ Flow chart/ Miniature/ Protocol

Programme	Course Code	Title
B.Sc Psychology	18PSU18	Environmental Psychology

Preamble : This course is an introduction to the field of counselling. It is aimed both as a way-in to training in counselling or psychotherapy and as a self-standing opportunity for people wanting to know about the discipline

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To acquire the history , need and scope of Environmental Psychology.	Remember	Conceptual	Quiz
CO2	To understand the Environmental Influences on Human Behavior and Well Being	Understand	Conceptual	Group Assignment
CO3	To know the health benefits of nature	Remember	Conceptual	Group Assignment
CO4	To know about the connection between childhood Experiences with nature	Analyze	Analytical	Writing Skill
CO5	To acquire knowledge about place attachment and measuring environmental behaviour	Understand	Conceptual	Poster presentation/ Flowchart/ Miniature/Protocol

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Programme	Course Code	Title
B.Sc Psychology	18PSU19	Forensic Psychology

Preamble : Psychology students should have basic knowledge in forensic science, Forensic Psychology and Criminology and Psychological assistance to overcome the behaviour deviations that results in conflict with law.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concepts of forensic science, forensic psychology and criminology.	Understand	Conceptual	Quiz
CO2	Concept of crime in social context and evaluate the physiological theories related to crime.	Understand	Conceptual	Group Assignment
CO3	Various offenders, their nature and explanatory theories of various contexts.	Understand	Conceptual	Group Assignment
CO4	The process of criminal investigation and psychological assessment techniques.	Understand	Conceptual	Writing Skill
CO5	The psychological interventions and methods to prevent crime.	Understand	Conceptual	Poster presentation/Flowchart/ Miniature/Protocol

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Programme	Course Code	Title
B.Sc Psychology	18PSU14	Behavior Modification

Preamble : This course provides students with a basic understanding of the concepts in behaviour modification.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To acquire the knowledge about behavior modification and to know the history and applications	Understand	Conceptual	Writing Skills
CO2	To understand the basic principles of Behavior Modification	Understand	Conceptual	Group Assignment
CO3	To analyze behavior change and to know the principles of recording	Understand	Conceptual	Group Assignment
CO4	To understand the behavior modification techniques	Understand	Conceptual	Writing Skills
CO5	To know the Management of Bio-psychosocial Issues	Understand	Conceptual	Poster Presentation/ Flow chart/ Miniature/ Protocol

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Programme	Course Code	Title
B.Sc Psychology	**18PSU16**	**Experimental Psychology – IV**

Preamble : This course provides students with a basic understanding of the concepts in behaviour modification.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn to assess the psychomotor abilities of the individuals that results in behaviour	Apply	Analytical	Technical Presentation/ Demonstration
CO2	Learn to assess the Sensory and perceptions of the individuals	Apply	Analytical	Simulation exercises
CO3	Learn the concepts in the selection and practical tools to assess the individuals in the industrial setup	Apply	Analytical	Technical Presentation/ Demonstration
CO4	Learn to understand the higher mental process of the individual and assess the cognitive abilities.	Apply	Analytical	Simulation exercises
CO5	Learn to assess the behaviours that requires clinical assistance	Apply	Analytical	Technical Presentation/ Demonstration

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Programme	Course Code	Title
B.Sc Psychology	**18PSU21**	**Case Analysis and professional skills Practicum**

Preamble : To disseminate the concepts in the core areas of Psychology and assess the cases related to the specific fields. Propagate the practical applications of various therapies

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn to identify the clinical issues, diagnose and arrive with the treatment procedures.	Apply	Analytical	Technical Presentation /Demonstration
CO2	Learn to understand the minor and major industrial problems and bring out solutions	Apply	Analytical	Simulation exercises
CO3	Learn to recognize the areas that requires counselling and provide appropriate strategies	Apply	Analytical	Technical Presentation/ Demonstration
CO4	Learn to apply the professional practices of relaxation therapies	Apply	Analytical	Simulation exercises
CO5	Learn to apply the therapies in relation to the areas that is demanding the therapeutic interventions	Apply	Analytical	Technical Presentation/ Demonstration

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Programme	Course Code	Title
B.Sc. (Psychology)	18PSU23	DSE III – Optional I School psychology

Preamble : This course is the introduction to School Psychology. It comprises of applying psychological theories, methods and interventions to children and the school community system.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To learn about the concept of school psychology.	Understanding	Conceptual	Writing Skills
CO2	To orient oneself to the field of School Psychology, its origins and evolution.	Understanding	Conceptual	Group Assignment
CO3	To learn the foundational basis of assessment in schools.	Understanding	Conceptual	Group Assignment
CO4	To familiarize with the prevention and intervention strategies used in school psychology.	Understanding	Conceptual	Writing Skills
CO5	To understand the ethics involved in School Psychology practice.	Understanding	Conceptual	Poster Presentation/ Flow Chart/ Miniature/ Protocol

Programme	Course Code	Title
B.Sc. (Psychology)	18PSU24	DSE III – Optional II Consumer Psychology

Preamble : This course is the introduction to make the students understand buying decision and customer needs and behaviour.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To acquire knowledge about the consumer psychology.	Understanding	Conceptual	Writing skills
CO2	To acquire knowledge about the consumer market perception and their processes.	Understanding	Conceptual	Group Assignment
CO3	To understand the importance of consumer's identity and their emotions	Understanding	Conceptual	Group Assignment
CO4	To understand the knowledge about the attitudes of consumers	Understanding	Conceptual	Writing skill
CO5	To understand the methods of advertising psychology for the consumers.	Understanding	Conceptual	Poster Presentation/ Flowchart/ Miniature/ Protocol

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com(IT) / B.Com(PA) / B.Com(BPS) /B.Com(CM)/ B.Com(A&F)/B.Com(BI)/B.Com(RM) /B.Com(E-Com)/B.Com(BA)	**18CUG14**	**DSC-XII - Financial Reporting System**

Preamble : To impart knowledge about the basic accounting standard used for different methods of accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : On successful completion of the course, students will have the ability to understand the basic concept of accounting standards.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies ,its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explain about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets , intangible assets and natural resources and to know about the Financial instruments , business combinations, acquisitions and Joint venture associates.	Remember	Conceptual	Group Mini project
CO4	Describe the importance of Analyzing and Interpreting	Understand	Conceptual	Class Presentation

	accounting Information, Techniques of financial statement analysis, Cash flow statements and Interpretation of Cash flow statement.			
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com (IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/B.Com(A&F)/ B.Com(BI)/B.Com(E-Com)/ B.Com(BA)/ B.Com RM/B.Com(BA)	**18CUG15**	**DSC - VIII - Business Intelligence**

Preamble : This course helps the student should be able to interpret the results of business analytics and their implications to business administrations.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : Toward this end, students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the Business Intelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of Data Integration and Data Profiling	Remembering	Conceptual	Group Mini project
CO4	To understand the concept of Multidimensional Data Modeling and its types and techniques.	Understanding, Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of Business Intelligence in ERP.	Understanding, Apply	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/ B.Com(BPS)/ B.Com(CM)/ B.Com(A&F)/ B.Com(RM)/B.Com(E-Com)/ B.Com(BA)	**18CUG17**	**DSE - I - Banking Theory, Law and Practice**

Preamble : To have a thorough knowledge of Indian banking system and aims to enlighten the students on the recent trends in banking and regulating provisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the concept of Banking.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the fundamentals, developments and growth of Banking. To know the classification of banks.	Understanding	Conceptual	Class Presentation
CO2	To know the role and relationship of banker and customer. Special type of customer, Negotiable instruments.	Remembering	Conceptual	Technical Presentation
CO3	Able to understand the legal aspects of banker, Material alteration. Also familiar about crossing of cheques.	Remembering	Conceptual	Class Presentation
CO4	To familiar with modes of charging the security and managing the Purchasing and discounting of bills	Applying	Conceptual	Group Assignment visit
CO5	To familiar about cheque truncation system and banking ombudsman scheme.	Understanding	Conceptual	Case Study

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (BI)/B.Com (RM)	18CUG18	DES - I - E-commerce strategy

Preamble : To familiarize the students with the mechanism of conducting business Transactions through Electronic Media.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : The successful completion of the course students will be able to recognize the impact of information and communication technologies in business operations and use tools and services of the internet in the development of a virtual e-commerce site.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Identify and describe the unique features of e-commerce technology and discuss their business significance.	Understand	Conceptual	Class Presentation
CO2	Describe the legal and ethical issues related to E-commerce.	Understand	Conceptual	Class Presentation
CO3	Understand how e-commerce differs from e-business and identify primary technological building blocks underlying e-commerce.	Remember	Conceptual	Group Assignment
CO4	Describe the impact of technological advances on business to business commerce.	Understand	Conceptual	Case Study
CO5	Understand the ecommerce strategy and platform and Using Knowledge Management to improve E-Commerce Success	Remember	Conceptual	Technical Presentation

Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/ B.Com (BPS) / B.Com (CM) / B.Com A&F/ B.Com(RM)/ B.Com(E-Com)/B.Com(BA)	**18CUG21**	**DSE - II - Banking Technology**

Preamble : Commerce students should have basic knowledge of banking principles, operations and aims to enlighten the students on the recent trends in Indian banking.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Overview of banking and Indian banking systems and procedures	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of Account Operations, Debit & Credit Negotiable Instruments and fund operations	Understanding	Conceptual	Class Presentation
CO3	To Understand the concepts Payment and Remittance Services, financial services and DEMAT share accounts.	Understanding	Conceptual	Class Presentation
CO4	To Understand the concepts of Service channels and Operations Management and selection of clients	Understanding	Conceptual	Group Discussion
CO5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (RM)/B.Com (BI)	18CUG22	DSE - II - Customer Relationship Management

Preamble : To enable the students to know about the basic concepts of retaining the customers.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the origin of CRM and their Roots of Relationship Marketing and its Domain.	Understand	Conceptual	Class Presentation
CO2	Understand the Impact on Sales and Marketing Strategy Sales Force Communication with Automation Technology	Understand	Conceptual	Class Presentation
CO3	Able to know the Customer Data Integration Requirements, Data Platforms Technology Evolution, Marketing Technology Development Path and Other Emerging Technology Influencers	Remember	Conceptual	Technical Presentation/Demonstration
CO4	Describe the CRM Evaluation , Tools, Scorecards and CRM Measurement Hierarchy	Understand	Conceptual	Group-Mini Project
CO5	Know about the Privacy, Ethics and Future of CRM with Marketing, Automation, and Customer Communication	Remember	Conceptual	Group Discussion

Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com(PA) /B.Com(BPS)/B.Com(CM)/B.Com(AF)/ B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)	18CUG24	DSC - XIV - Direct Taxes

Preamble : To provide basic application knowledge about direct taxes

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the basic concept of taxes

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignment
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

Programme	Course Code	Title
B.Com / B.Com(PA)/B.Com A&F/B.Com BI	18CUG25	DSC - XV - Accounting For Public Sectors

Preamble : To familiarize the students with the financial statements of various types of public sectors.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the holding company and Subsidiary company.	Remembering	Conceptual	Simulation Exercises
CO2	To Understand the meaning of banking companies and preparation of final accounts.	Understanding	Conceptual	Self-Supporting Assignments
CO3	To Understand the concept of Life insurance and preparation of final accounts of insurance companies and determination of Profit in Life Insurance Business.	Understanding	Analytical	Case Study
CO4	To Understand the concept of farm accounting, accounting for price level changes, corporate social responsibility accounting.	Understanding	Analytical	Poster Presentation
CO5	To Understand the meaning of double account system, form and contents of profit and loss account, accounts of government companies.	Understanding	Analytical	Poster Presentation

Programme	Course Code	Title
B.Com/ B.Com(PA)/ B.Com(A&F)	**18CUG08**	**DSC Practical - V - Spreadsheet –Practical**

Preamble : Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement and Cash flow statement.	Understanding	Conceptual	Poster presentation
CO2	Able to Analyse the present value and future value of cash flows through Time Value of money	Analyzing	Technical	Poster presentation
CO3	Able to estimate the share price and the Risk Adjusted Rate	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Self – Supporting Assignments
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Self – Supporting Assignments

Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/ B.Com(CM)/ B.Com (A&F)/B.Com(BI)/B.Com(RM)/B.Com(E-Com)/BBA/BBA(CA)/B.Sc.(ISM)	**18CUG28`**	**DSE - III - Banking Operations System-Practical**

Preamble : This course enables students to use documents relating to banking operations.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the procedure for current account, credit card and availing locker facility applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO2	To understand the procedure for cash credit, electronic fund transfer and real time gross settlement applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for internet banking, mobile banking and electronic vendor finance system applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for Electronic dealer finance system and E-tax filling applications.	Understanding	Analytical	Self Support Assignment
CO5	To understand the procedure for NRI Account and Foreign currency cash conversion applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com(A & F)	18CUG29	DSE - III - Business Technology –Practical

Preamble : This course enables the students to analyze the cases based on real world view of business technology

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, student will have the ability to understand the concept of preparing the ERP.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the problems and find solutions for retail information system and to know that retailers must be aware of the advanced technology to survive in the market of today's retailer ship.	Understand	Technical	Poster presentation
CO2	Able to understand the problems and find solutions for retailers in the parameters of business measure to figure out the return on investment and update with the current prevailing retailer software to be used in the business and to get a clear idea about the differences among the manual and technical retailer systems.	Understand	Technical	Self Supporting Assignment
CO3	To impart the basic knowledge about EPOS systems and to analyses various businesses which are searching for new ways in modernising their work and keeping all their data secured at one place	Understand	Technical	Self Supporting Assignment
CO4	To examine the basic knowledge about the concepts ofRFID and come up with advantages of RFID. And to study and give solutions for being an early adopter of technology.	Understand 20bco843	Technical	Poster presentation
CO5	To understand the basic concepts of meaning, purpose and tools of ERP.	Understand	Technical	Self Supporting Assignment

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/ B.Com(CM)/B.Com(A&F) /B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com(BA)	**18CUG39**	**SEC-IV - Secretarial Practice Workshop**

Preamble : To know and practice about the legal document used in the Business organization

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, student will have the ability to understand the concept of preparing the ERP.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Procedure for Tax Filing of Individual, procedure of preparing lease agreements and procedure for conducting Annual general Meeting. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO2	To understand the tax forms to be filled up in the business the method of preparing the share allotment register as per Companies Act.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for taking permanent Account Number and to borrow loan from financial institutions.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for online trading account and preparing Audit Programme.	Understanding	Analytical	Self Support Assignment
CO5	To draft the procedure for applying online passport and internet banking.	Understanding	Analytical	Self Support Assignment
CO6	To understand how to draft a model Annual Report (With Director Speech).	Understanding	Analytical	Self Support Assignment

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Programme	Course Code	Title
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Preamble : To impart knowledge about the basic accounting standard used for different methods of accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : On successful completion of the course, students will have the ability to understand the basic concept of accounting standards.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies ,its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explain about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets , intangible assets and natural resources and to know about the Financial instruments , business combinations, acquisitions and Joint venture associates.	Remember	Conceptual	Group Mini project
CO4	Describe the importance of Analyzing and Interpreting	Understand	Conceptual	Class Presentation

	accounting Information, Techniques of financial statement analysis, Cash flow statements and Interpretation of Cash flow statement.			
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com (IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/B.Com(A&F)/ B.Com(BI)/B.Com(E-Com)/ B.Com(BA)/ B.Com RM/B.Com(BA)	**18CUG15**	**DSC - VIII - Business Intelligence**

Preamble : This course helps the student should be able to interpret the results of business analytics and their implications to business administrations.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : Toward this end, students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the Business Intelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of Data Integration and Data Profiling	Remembering	Conceptual	Group Mini project
CO4	To understand the concept of Multidimensional Data Modeling and its types and techniques.	Understanding, Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of Business Intelligence in ERP.	Understanding, Apply	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/ B.Com(BPS)/ B.Com(CM)/ B.Com(A&F)/ B.Com(RM)/B.Com(E-Com)/ B.Com(BA)	**18CUG17**	**DSE - I - Banking Theory, Law and Practice**

Preamble : To have a thorough knowledge of Indian banking system and aims to enlighten the students on the recent trends in banking and regulating provisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the concept of Banking.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the fundamentals, developments and growth of Banking. To know the classification of banks.	Understanding	Conceptual	Class Presentation
CO2	To know the role and relationship of banker and customer. Special type of customer, Negotiable instruments.	Remembering	Conceptual	Technical Presentation
CO3	Able to understand the legal aspects of banker, Material alteration. Also familiar about crossing of cheques.	Remembering	Conceptual	Class Presentation
CO4	To familiar with modes of charging the security and managing the Purchasing and discounting of bills	Applying	Conceptual	Group Assignment visit
CO5	To familiar about cheque truncation system and banking ombudsman scheme.	Understanding	Conceptual	Case Study

Programme	Course Code	Title
B.Com(CA) /B.Com(IT)/ B.Com(BPS)/ B.Com(CM)/B.Com(BI)/B.Com(RM)/B.Com (E-Com)/B.Com(BA)	18CUG16	DSC- I: Corporate Finance

Preamble : To acquaint the conceptual frame work of corporate finance and use thereof in making financial decisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : The successful completion of the course students have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Enable to Understand the Nature, Scope, Functions and objectives of Corporate Finance, Planning and Budgeting.	Understanding	Conceptual	Group Assignment
CO2	Enable to Prepare the Capital Structure and Cost of Capital.	Apply	Technical	Technical Presentation
CO3	Enable to Understand the various Source of Finance. Its classifications and types.	Understanding	Conceptual	Class Presentation
CO4	Able to prepare Working Capital and Cash Receivables Statements.	Apply	Technical	Technical Presentation
CO5	Able to Understand the Dividend decision and Valuation of firms, Types of dividend policy, Bonus Issues, Right issues and SEBI guidelines.	Understanding	Conceptual	Case Study

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Programme	Course Code	Title
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Preamble : Commerce students should have basic knowledge of banking principles, operations and aims to enlighten the students on the recent trends in Indian banking.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Overview of banking and Indian banking systems and procedures	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of Account Operations, Debit & Credit Negotiable Instruments and fund operations	Understanding	Conceptual	Class Presentation
CO3	To Understand the concepts Payment and Remittance Services, financial services and DEMAT share accounts.	Understanding	Conceptual	Class Presentation
CO4	To Understand the concepts of Service channels and Operations Management and selection of clients	Understanding	Conceptual	Group Discussion
CO5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/B.Com(PA)/ B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	18CUG19	Brand Management

Preamble : Commerce students should have basic knowledge of Brand Management concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic Concepts of Brand evolution, functions of Brand, branding and challenges to Brand Builders, strategic Brand Management Process and steps in Branding.	Understanding	Conceptual	Class Presentation
CO2	To understand the concept of Customer Based Brand Equity, steps in building Brands, Brand building implications and David Aaker's Brand equity Model. Brand identity and Positioning and Brand value.	Understanding	Conceptual	Class Presentation
CO3	To understand the elements of Brand equity and criteria for choosing Brand elements. Leveraging Brand knowledge and Dimensions of Brand knowledge and Brand Value chain.	Understanding	Conceptual	Group Assignment
CO4	To understand the Brand strategies like Brand Extension, Brand Personality, Brand image and Brand Repositioning.	Understanding	Conceptual	Case study
CO5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions favouring Marketing,	Understanding	Conceptual	Technical Presentation

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com(PA) /B.Com(BPS)/B.Com(CM)/B.Com(AF)/ B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)	**18CUG24**	**DSC - XIV - Direct Taxes**

Preamble : To provide basic application knowledge about direct taxes

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the basic concept of taxes

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignment
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com(E-Com)	18CUG37	Internet and Web Technology

Preamble : To demonstrate a basic understanding of web design principles and to design a basic web page using minimal hand coding

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand internet technology and web concept	Understand	Technical Skills	Technical presentation
CO2	Describe the mark-up languages for processing, identifying and presenting information in web pages	Apply	Conceptual Skill	Writing skill
CO3	To know about Working with Tags in HTML	Create	Technical Skills	Simulation exercise
CO4	Apply scripting languages in HTML document to add interactive components to web pages	Apply	Conceptual Skill	Poster presentation
CO5	Able to learn to represent knowledge in Overview of .NET framework	Analyze	Technical Skills	Writing skill

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com(E-Com)	18CUG38	Web Designing - Practical

Preamble : To enable the students to create the HTML programs and Web pages with different tags and to understand internet Browsing.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Describe the mark-up languages for processing, identifying and presenting information in web pages	Understand	Technical Skills	Technical Presentation
CO2	Apply scripting languages in HTML document to add interactive components to web pages	Apply	Conceptual Skill	Poster Presentation
CO3	To know about Working with Tags in HTML	Create	Technical Skills	Technical Presentation

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Com(CA)/ B.Com(IT)/B.Com(BPS) /B.Com(CM) B.Com(BI)/ B.Com(RM)/B.Com (E-Com)/B.Com(BA)	**18CUG27**	**Computational Finance using Spreadsheet – Practical**

Preamble : Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	Self-Support Assignment
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Self-Support Assignment
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Poster presentation

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com(BI)/B.Com(E-Com)/B.Com(BA)	**18CUG30**	**Advertising - Practical**

Preamble : This Course enables the students to know the practical aspects of Advertising.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concept of Advertising, its objectives, functions and types and also to analyze advertisement campaign.	Understanding	Analytical	Self Support Assignment
CO2	To understand the nature, characteristics and importance of selling and to know how to prepare a sales report.	Understanding	Analytical	Poster Presentation
CO3	To understand the conventional methods of advertising, market/product research and to know how to prepare the quotations for various advertisement methods.	Understanding	Analytical	Poster Presentation
CO4	To understand the concept of personal skills, importance of communication in selling and to know the concept of negotiation skills.	Understanding	Analytical	Self Support Assignment
CO5	To understand the concept of branding, market penetration and product differentiation and integration of sales promotion with advertising.	Understanding	Analytical	Self Support Assignment

CO6	To know how to design an advertisement and sales strategy and to know how to create a page in Face book and Instagram and also to know how to write an article, campaign and post pictures and how to prepare sales analytics report.	Understanding	Analytical	Self Support Assignment

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/ B.Com(CM)/B.Com(A&F) /B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com(BA)	18CUG39	SEC-IV - Secretarial Practice Workshop

Preamble : To know and practice about the legal document used in the Business organization

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, student will have the ability to understand the concept of preparing the ERP.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Procedure for Tax Filing of Individual, procedure of preparing lease agreements and procedure for conducting Annual general Meeting. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO2	To understand the tax forms to be filled up in the business the method of preparing the share allotment register as per Companies Act.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for taking permanent Account Number and to borrow loan from financial institutions.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for online trading account and preparing Audit Programme.	Understanding	Analytical	Self Support Assignment
CO5	To draft the procedure for applying online passport and internet banking.	Understanding	Analytical	Self Support Assignment
CO6	To understand how to draft a model Annual Report (With Director Speech).	Understanding	Analytical	Self Support Assignment

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code	Title
B.Com(CA) /B.Com(IT)/ B.Com(BPS)/B.Com(CM)/ B.Com(BI)/B.Com(RM)/B.Com (E-Com)/B.Com(BA)	**18CUG16**	**Corporate Finance**

Preamble : To acquaint the conceptual frame work of corporate finance and use thereof inmaking financial decisions

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : The student should Appeared for Account Course

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Enable to Understand the Nature, Scope, Functions and objectives of Corporate Finance, Planning and Budgeting.	Understanding	Conceptual	Group Assignment
CO2	Enable to Prepare the Capital Structure and Cost of Capital.	Apply	Technical	Technical Presentation
CO3	Enable to Understand the various Source of Finance. Its classifications and types.	Understanding	Conceptual	Class Presentation
CO4	Able to prepare Working Capital and Cash Receivables Statements.	Apply	Technical	Technical Presentation
CO5	Able to Understand theDividend decision and Valuation of firms, Types of dividend policy, Bonus Issues, Right issues and SEBI guidelines.	Understanding	Conceptual	Case Study

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(RM)/B.Com(E-Com)/B.Com(BA)	18CUG17	Banking Theory, Law and Practice

Preamble : To have a thorough knowledge of Indian banking system and aims toenlighten the students on the recent trends in banking and regulating provisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the concept of Banking

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the fundamentals, developments and growth of Banking. To know the classification of banks.	Understanding	Conceptual	Class presentation
CO2	To know the role and relationship of bankerand customer. Special type of customer, Negotiable instruments.	Remembering	Conceptual	Technical Presentation
CO3	Able to understand the legal aspects of banker, Material alteration. Also familiar about crossing of cheques.	Remembering	Conceptual	Class Presentation
CO4	To familiar with modes of charging the security and managing the Purchasing and discounting of bills	Applying	Conceptual	Group Assignment
CO5	To familiar about cheque truncation systemand banking ombudsman scheme.	Understanding	Conceptual	Case Study

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)
Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/B.Com(PA)/ B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	18CUG19	Brand Management

Preamble : Commerce students should have basic knowledge of Brand Management concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic Concepts of Brand evolution, functions of Brand, branding and challenges to Brand Builders, strategic Brand Management Process and steps in Branding.	Understanding	Conceptual	Class Presentation
CO2	To understand the concept of Customer BasedBrand Equity, steps in building Brands, Brand building implications and David Aaker's Brand equity Model. Brand identity and Positioning and Brand value.	Understanding	Conceptual	Class Presentation
CO3	To understand the elements of Brand equity and criteria for choosing Brand elements. Leveraging Brand knowledge	Understanding	Conceptual	Group Assignment

	and Dimensions of Brand knowledge and Brand Value chain.			
CO4	To understand the Brand strategies like Brand Extension, Brand Personality, Brand image and Brand Repositioning.	Understanding	Conceptual	Case study
CO5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions favouring Marketing,	Understanding	Conceptual	Technical Presentation

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com(BPS) /B.Com(CM)/ B.Com(BI) B.Com(RM)/B.Com(E-Com)/B.Com(BA)	18CUG20	Project Management

Preamble : To examine project management roles and environments, the project life cycle, varioustechniques of work planning, control and evaluation to achieve project objectives.

Expected level of output : **Conceptual Level**

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the meaning of Project and Project Life Cycle	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about principles of project planning andidentification	Remembering	Conceptual	Class Presentation
CO3	To understand and analyze stages ofproject formulation and SCB Analysis	Understanding	Conceptual	Technical Presentation
CO4	To Elucidate the steps in project appraisal	Understanding	Conceptual	Group Discussion
CO5	To understand the preparation of project report	Remembering	Conceptual	Group Mini Project

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/B.Com(PA) B.Com (BPS) / B.Com (CM) / B.Com A&F/B.Com(RM)/B.Com(E-Com)	**18CUG21**	**Banking Technology**

Preamble : Commerce students should have basic knowledge of banking principles, operationsand aims to enlighten the students on the recent trends in Indian banking.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Overview ofbanking and Indian banking systems and Procedures	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of AccountOperations, Debit & Credit Negotiable Instruments and fund operations	Understanding	Conceptual	Class Presentation
CO3	To Understand the concepts Payment andRemittance Services, financial services and DEMAT share accounts.	Understanding	Conceptual	Class Presentation
CO4	To Understand the concepts of Servicechannels and Operations Management and selection of clients	Understanding	Conceptual	Group Discussion
CO5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(PA) B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	18CUG23	Consumer Behaviour

Preamble : To enable the students to know about eh basic concepts of consumer Behaviour

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic concepts of Consumer Behaviour.	Understanding	Conceptual	Class presentation
CO2	To Understand and Identify the factors influencing consumer behavior.	Understanding	Conceptual	Class presentation
CO3	To Understand and I dentify the elements of personality, learning and attitude.	Understanding	Conceptual	Technical presentation
CO4	To Understand and Identify the factors affecting Reference Groups.	Understanding	Conceptual	Group Mini Project
CO5	To Understand and Identify the cultural influence of consumerbehavior.	Understanding	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com(PA) /B.Com(BPS)/B.Com(CM)/B.Com(AF)/ B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)	**18CUG24**	**Direct Taxes**

Preamble : To provide basic application knowledge about direct taxes.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the basic concept of taxes

Course Outcomes : On successful completion of the course, students will have the the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignment
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

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Programme	Course Code	Title
B.Com(BPS)	18CBU05	Managing Business Process – II

Preamble : The objective of this course is to impart knowledge to the students regarding various methodologies used for process improvement in business process outsourcing industries.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Students can able to understand the meaning of quality, difference between quality Control & Assurance and different international quality standards.	Understanding Remembering	Conceptual	Class Presentation
CO2	To know about transaction monitoring process & transaction monitoring cycle. Able to understand sampling methods & inspection.	Understanding Remembering	Conceptual	Group Discussion
CO3	To know about the defect management, Defect calculations, value stream mapping system and standard operating procedures of process management.	Understanding Remembering	Analytical	Technical Presentation
CO4	Students can able to understand various problem solving techniques, Brainstorming, Problem solving tools and basic 7 Quality control tools.	Understanding Remembering	Conceptual	Group Mini Project
CO5	Able to understand needs for process improvement, Process improvement tools, Kaizen model.	Understanding	Conceptual	Class Presentation

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/B.Com(CM)/B.Com(A&F) B.Com(BI)/B.Com(E.Com)/ BCom(RM)/B.Com(BA)	**18CUG39**	**Secretarial Practice Workshop**

Preamble : To know and practice about the legal document used in the Business organization

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Procedure for Tax Filing of Individual, procedure of preparing lease agreements and procedure for conducting Annual general Meeting. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO2	To understand the tax forms to be filled up in the business the method of preparing the share allotment register as per Companies Act.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for taking permanent Account Number and to borrow loan from financial institutions.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for online trading account and preparing Audit Programme.	Understanding	Analytical	Self-Support Assignment
CO5	To draft the procedure for applying online passport and internet banking.	Understanding	Analytical	Self-Support Assignment

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com(IT)/B.Com(PA) B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/B.Com(RM) /B.Com(E-Com)/B.Com(BA)	**18CUG14**	**Financial Reporting System**

Preamble : To impart knowledge about the basic accounting standard used for different methodsof accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies, its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explain about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets, intangible assets and natural resources and to know about the Financial instruments , business combinations,	Remember	Conceptual	Group Mini project

	acquisitions and Joint venture associates.			
CO4	Describe the importance of Analyzing and Interpreting accounting Information, Techniques of financial statement analysis, Cash flow statements and Interpretation of Cash flow statement.	Understand	Conceptual	Class Presentation
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group Discussion

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com(IT)/B.Com(PA) B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/B.Com(RM) /B.Com(E-Com)/B.Com(BA)	**18CUG15**	**Business Intelligence**

Preamble : This course helps the student should be able to interpret the results of business analyticsand their implications to business administrations.

Expected level of output : Analytical **Level**

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concept of BusinessEnterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about theBusiness Intelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of DataIntegration and Data Profiling	Remembering	Conceptual	Group Mini project
CO4	To understand the concept of Multidimensional Data Modeling and its types and techniques.	Understanding, Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of BusinessIntelligence in ERP.	Understanding, Apply	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com (BPS)	18CBU06	Auditing

Preamble : Imparting Knowledge about the principles and methods of auditing and theirapplications.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the meaning and definition of Audit, classifications of audit, Audit planning and audit engagement.	Understanding	Conceptual	Class Presentation
CO2	Students can able to know about the concept of internal control, internal check and internal audit.	Understanding	Conceptual	Quiz
CO3	To understand concept of vouching, importance of vouching, vouching in audit & verification and valuation of assets.	Understanding	Conceptual	Class Presentation
CO4	Students can able to know the concept of company audit, appointment and removal of auditors & auditreports under companies act.	Understanding	Conceptual	Self-supporting assignments
CO5	To know about audit Provisions and reserves, Auditors liability and special Audit of banking Companies.	Understanding	Conceptual	Poster Presentation

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM) , B.Com(BI)/ B.Com(RM)/B.Com(E-Com)/B.Com(BA)	**18CUG27**	**Computational Finance using Spreadsheet –Practical**

Preamble : Commerce students should have basic knowledge to construct spread sheet for basicfinancial applications using financial functions available in spread sheet.

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analysing	Technical	Self- Support Assignment
CO3	Able to estimate the share price, RiskAdjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understandingof inventory management and credit policy	Understanding	Conceptual	Self- Support Assignment
CO5	Able to understand the Leverage andCapital structure	Understanding	Conceptual	Poster presentation

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Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com(RM)/B.Com(E-Com)/B.Com(BA)	**18CUG28**	**Banking Operations System- Practical**

Preamble : This course enables students to use documents relating to banking operations.

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the procedure for currentaccount, credit card and availing locker facility applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO2	To understand the procedure for cash credit,electronic fund transfer and real time gross settlement applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for internet banking, mobile banking and electronic vendor finance system applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for Electronic dealer finance system and E-tax filling applications. Relevant	Understanding	Analytical	Self-Support Assignment

	documents to be fill up in this regard.			
CO5	To understand the procedure for NRI Account and Foreign currency cash conversion applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO6	To understand the procedure for Resident Foreign Currency and account closure request form. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment

Programme	Course Code	Title
B.Com(CA) /B.Com(IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com(BI)/B.Com(RM)/B.Com (E-Com)/B.Com(BA)	**18CUG16**	**Corporate Finance**

Preamble : To acquaint the conceptual frame work of corporate finance and use thereof in making financial decisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : The student should Appeared for Account Course

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Enable to Understand the Nature, Scope, Functions and objectives of Corporate Finance, Planning and Budgeting.	Understanding	Conceptual	Group Assignment
CO2	Enable to Prepare the Capital Structure and Cost of Capital.	Apply	Technical	Technical Presentation
CO3	Enable to Understand the variousSource of Finance. Its classifications and types.	Understanding	Conceptual	Class Presentation
CO4	Able to prepare Working Capital and Cash Receivables Statements.	Apply	Technical	Technical Presentation
CO5	Able to Understand the Dividend decision and Valuation of firms, Types of dividend policy, Bonus Issues, Right issues and SEBI guidelines.	Understanding	Conceptual	Case Study

Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(RM)/B.Com(E-Com)/B.Com(BA)	**18CUG17**	**Banking Theory, Law andPractice**

Preamble : To have a thorough knowledge of Indian banking system and aims to enlighten the students on the recent trends in banking and regulating provisions

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the concept of Banking.

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the fundamentals, developments and growth of Banking. To know the classification of banks.	Understanding	Conceptual	Class presentation
CO2	To know the role and relationship of banker and customer. Special type of customer, Negotiable instruments.	Remembering	Conceptual	Technical Presentation
CO3	Able to understand the legal aspects of banker, Material alteration. Also familiar about crossing of Cheques.	Remembering	Conceptual	Class Presentation
CO4	To familiar with modes of charging the security and managing the Purchasing and discounting of bills	Applying	Conceptual	Group Assignment
CO5	To familiar about Cheque truncation system andbanking ombudsman scheme.	Understanding	Conceptual	Case Study

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/B.Com(PA)/ B.Com (BPS)/ B.Com(CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/ B.Com (BA)	**18CUG19**	**Brand Management**

Preamble : Commerce students should have basic knowledge of Brand Management concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic Concepts of Brand evolution, functions of Brand, branding and challenges to Brand Builders, strategic Brand Management Process and steps in Branding.	Understanding	Conceptual	Class Presentation
CO2	To understand the concept of Customer Based Brand Equity, steps in building Brands, Brand building implications and David Aaker's Brand equity Model. Brand identity and Positioning and Brand value.	Understanding	Conceptual	Class Presentation
CO3	To understand the elements of Brand equity and criteria for choosing Brand elements. Leveraging Brand knowledge and Dimensions of Brand knowledge and Brand	Understanding	Conceptual	Group Assignment

	Value chain.			
CO4	To understand the Brand strategies like BrandExtension, Brand Personality, Brand image and Brand Repositioning.	Understanding	Conceptual	Case study
CO5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions favouring Marketing,	Understanding	Conceptual	Technical Presentation

Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com (BPS)/B.Com(CM)/ B.Com(BI) B.Com(RM)/B.Com(E-Com)/B.Com(BA)	**18CUG20**	**Project Management**

Preamble : To examine project management roles and environments, the project life cycle, various

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the meaning of Project and Project Life Cycle	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about principles of project planning andidentification	Remembering	Conceptual	Class Presentation
CO3	To understand and analyze stages of project formulation and SCB Analysis	Understanding	Conceptual	Technical Presentation
CO4	To Elucidate the steps in project appraisal	Understanding	Conceptual	Group Discussion
CO5	To understand the preparation of project report	Remembering	Conceptual	Group Mini Project

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Programme	Course Code	Title
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Preamble : Commerce students should have basic knowledge of banking principles, operations and aims to enlighten the students on the recent trends in Indian banking.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Overview of banking and Indian banking systems and procedures	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of Account Operations, Debit & Credit Negotiable Instruments and fund operations	Understanding	Conceptual	Class Presentation
CO3	To Understand the concepts Payment andRemittance Services, financial services and DEMAT share accounts.	Understanding	Conceptual	Class Presentation
CO4	To Understand the concepts of Service channelsand Operations Management and selection of clients	Understanding	Conceptual	Group Discussion
CO5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(PA) B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	**18CUG23**	**Consumer Behavior**

Preamble : To enable the students to know about eh basic concepts of consumer Behaviour**.**

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic concepts of Consumer Behavior.	Understanding	Conceptual	Class presentation
CO2	To Understand and Identify the factors influencing consumer behavior.	Understanding	Conceptual	Class presentation
CO3	To Understand and Identify the elements of personality, learning and attitude.	Understanding	Conceptual	Technical presentation
CO4	To Understand and Identify the factors affecting Reference Groups.	Understanding	Conceptual	Group Mini Project
CO5	To Understand and Identify the cultural influence of consumer behavior.	Understanding	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com (PA)/B.Com(BPS)/B.Com(CM)/ B.Com(AF)/B.Com(BI)/B.Com(E.Com)/ B.Com(RM)/B.Com(BA)	18CUG24	Direct Taxes

Preamble : To provide basic application knowledge about direct taxes

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the basic concept of taxes

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic conceptsof direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignment
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

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Programme	Course Code	Title
B.Com(CM)	18CMU06	Technical Analysis

Preamble : Commerce Capital Market students should have basic knowledge of Technical Analysis concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the meaning and Importance of Technical Analysis, Tools for Technical Analysis, patterns- Averages-Bollinger Bands-MarketMomentum, Types of Analysis.	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of Basics of Technical Analysis, Data and Graphs- Scaling, Dow Theory- Trend Analysis , Drawing a Trend line, The True Trend line.	Understanding	Conceptual	Class Presentation
CO3	To Understand the meaning of Instruments Used for TechnicalAnalysis Wedges, Gaps. ReversalPatterns, Volume Behavior in the abovepatterns	Understanding	Conceptual	Group Mini Project
CO4	To Understand the concept of Instruments Used for Technical Analysis, Continuation Patterns- Price Patterns, Minor-Dynamite Triangle, Volumes and Patterns. Averages.	Understanding	Conceptual	Group Discussion
CO5	To Understand the meaning of Technical Analysis Techniques, Elliot Wave Theory, Introduction to Japanese Candlesticks- Overview of Capital Stocks.	Understanding	Conceptual	Technical Presentation

Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/B.Com(PA)) B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/B.Com(RM) /B.Com(E-Com)/B.Com(BA)	18CUG14	Financial Reporting System

Preamble : To impart knowledge about the basic accounting standard used for different methods of accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies ,its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explain about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets , intangible assets and natural resources and to know about the Financial instruments , business combinations, acquisitions and Joint venture associates.	Remember	Conceptual	Group Mini project

CO4	Describe the importance of Analyzing and Interpreting accounting Information, Techniques of financial statement analysis, Cash flow statements and Interpretation of Cash flow statement.	Understand	Conceptual	Class Presentation
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com (IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/B.Com(A&F)/ B.Com(BI)/B.Com(E-Com)/B.Com(BA)/B.Com RM/B.Com(BA)	**18CUG15**	**Business Intelligence**

Preamble : This course helps the student should be able to interpret the results of business analytics and their implications to business administrations.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : Toward this end, students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the Business Intelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of Data Integration and Data Profiling	Remembering	Conceptual	Group Mini project
CO4	To understand the concept of MultidimensionalData Modeling and its types and techniques.	Understanding , Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of Business Intelligence in ERP.	Understanding ,Apply	Conceptual	Group Discussion

Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/B.Com(BI)/ B.Com(RM)/B.Com(E-Com)/B.Com(BA)	18CUG27	Computational Finance using Spreadsheet – Practical

Preamble : Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Toward this end, students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	Self-Support Assignment
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Self-Support Assignment
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Poster presentation

Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com(RM)/B.Com(E-Com)/B.Com(BA)	**18CUG28**	**Banking Operations System-Practical**

Preamble : This course enables students to use documents relating to banking operations.

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Toward this end, students will be able to make data driven decisions to optimize the business process

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the procedure for current account, credit card and availing locker facility applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO2	To understand the procedure for cash credit, electronic fund transfer and real time gross settlement applications. Relevant documents to be filled.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for internet banking, mobile banking and electronic vendor finance system applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for Electronic dealer finance system and E-tax filling applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO5	To understand the procedure for NRI Account and Foreign currency cash conversion applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/B.Com(CM)/B.Com(A&F) /B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com(BA)	**18CUG39**	**Secretarial Practice Workshop**

Preamble : To know and practice about the legal document used in the Business organization

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Procedure for Tax Filing of Individual, procedure of preparing lease agreements and procedure for conducting Annual general Meeting.Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO2	To understand the tax forms to be filled up in the business the method of preparing the share allotment register as per Companies Act.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for taking permanent Account Number and to borrow loan from financialinstitutions.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for online trading account and preparing Audit Programme.	Understanding	Analytical	Self-Support Assignment
CO5	To draft the procedure for applying online passport and internet banking.	Understanding	Analytical	Self-Support Assignment
CO6	To understand how to draft a model Annual Report (With Director Speech).	Understanding	Analytical	Self-Support Assignment

Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com(BI)/B.Com(E-Com)/B.Com(BA)	**18CUG30**	**Advertising - Practical**

Preamble : This Course enables the students to know the practical aspects of Advertising.

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concept of Advertising, its objectives, functions and types and also to analyze advertisement campaign.	Understanding	Analytical	Self-Support Assignment
CO2	To understand the nature, characteristics and importance of selling and to know how to prepare a sales report.	Understanding	Analytical	Poster Presentation
CO3	To understand the conventional methods of advertising, market/product research and toknow how to prepare the quotations for various advertisement methods.	Understanding	Analytical	Poster Presentation
CO4	To understand the concept of personal skills,importance of communication in selling andto know the concept of negotiation skills.	Understanding	Analytical	Self-Support Assignment
CO5	To understand the concept of branding, market penetration and product differentiation and integration of sales promotion with advertising.	Understanding	Analytical	Self-Support Assignment
CO6	To know how to design an advertisement and sales strategy and to know how to			Self-Support Assignment

	create a page in Face book and Instagram and also to know how to write an article, campaign and post pictures and how to prepare sales analytics report.	Understanding	Analytical	

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Programme	Course Code	Title
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Preamble : To impart knowledge about the basic accounting standard used for different methods ofaccounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to understand the basic concept of accounting standards.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies, its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explain about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets , intangible assets and natural resources and to know about the Financial instruments, business combinations, acquisitions and Joint venture associates.	Remember	Conceptual	Group Mini project
CO4	Describe the importance of Analyzing and Interpreting accounting Information, Techniques offinancial statement analysis, and Interpretation of Cash flow statement.	Understand	Conceptual	Class Presentation
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group Discussion

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Programme	Course Code	Title
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Preamble : This course helps the student should be able to interpret the results of business analytics and their implications to business administrations.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : Toward this end, students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the BusinessIntelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of Data Integration and Data Profiling	Remembering	Conceptual	Group Mini project
CO4	To understand the concept of Multidimensional Data Modeling and its types and techniques.	Understanding, Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of Business Intelligence in ERP.	Understanding, Apply	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/B.Com(CM)/ B.Com(BI)/B.Com(RM)/ B.Com(ECom)/B.Com(BA)	**18CUG16**	**Corporate Finance**

Preamble : To acquaint the conceptual frame work of corporate finance and use thereof in making financial decisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : The student should Appeared for Account Course.

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Enable to Understand the Nature, Scope, Functions and objectives of Corporate Finance, Planning and Budgeting.	Understanding	Conceptual	Group Assignment
CO2	Enable to Prepare the Capital Structure and Cost of Capital.	Apply	Technical	Technical Presentation
CO3	Enable to Understand the various Source of Finance. Its classificationsand types.	Understanding	Conceptual	Class Presentation
CO4	Able to prepare Working Capital and Cash Receivables Statements.	Apply	Technical	Technical Presentation
CO5	Able to Understand the Dividend decision and Valuation of firms, Typesof dividend policy, Bonus Issues, Right issues and SEBI guidelines.	Understanding	Conceptual	Case Study

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com(BI)/B.Com(RM)	18CUG18	E-commerce strategy

Preamble : To familiarize the students with the mechanism of conducting business Transactions through Electronic Media.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : The successful completion of the course students will be able to recognize the impact of information and communication technologies in business operations.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Identify and describe the unique features of e-commerce technology and discuss their business significance.	Understand	Conceptual	Class Presentation
CO2	Describe the legal and ethical issues related to E-commerce.	Understand	Conceptual	Class Presentation
CO3	Understand how e-commerce differs from e-business and identify primary technological building blocks underlying e-commerce.	Remember	Conceptual	Group Assignment
CO4	Describe the impact of technological advances on business to business commerce.	Understand	Conceptual	Case Study
CO5	Understand the ecommerce strategy and platform and Using Knowledge Management to improve E-Commerce Success	Remember	Conceptual	Technical Presentation

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com (IT)/B.Com(PA)/ B.Com (BPS)/ B.Com(CM)/B.Com (A&F)/ B.Com (E-Com)/B.Com (BI)/B.Com (BA)	**18CUG19**	**Brand Management**

Preamble : Commerce students should have basic knowledge of Brand Management concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic Concepts of Brand evolution, functions of Brand, branding and challenges to Brand Builders, strategic Brand Management Process and steps in Branding.	Understanding	Conceptual	Class Presentation
CO2	To understand the concept of Customer Based Brand Equity, steps in building Brands, Brand building implications and David Aaker's Brand equity Model. Brand identity and Positioning and Brand value.	Understanding	Conceptual	Class Presentation
CO3	To understand the elements of Brand equity and criteria for choosing Brand elements. Leveraging Brand knowledge and Dimensions of Brand knowledge and Brand Value chain.	Understanding	Conceptual	Group Assignment
CO4	To understand the Brand strategies like Brand Extension, Brand Personality, Brand image and Brand Repositioning.	Understanding	Conceptual	Case study
CO5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions favoring Marketing,	Understanding	Conceptual	Technical Presentation

Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/B.Com(CM)/ B.Com(BI)B.Com(RM) /B.Com(ECom)/B.Com(BA)	**18CUG20**	**Project Management**

Preamble : To examine project management roles and environments, the project life cycle, various techniques of work planning, control and evaluation to achieve project objectives.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the meaning of Project and Project Life Cycle	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about principles of project planning andidentification	Remembering	Conceptual	Class Presentation
CO3	To understand and analyze stages of project formulation and SCB Analysis	Understanding	Conceptual	Technical Presentation
CO4	To Elucidate the steps in project Appraisal	Understanding	Conceptual	Group Discussion
CO5	To understand the preparation of project Report	Remembering	Conceptual	Group Mini Project

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Programme	Course Code	Title
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Preamble : Commerce students should have basic knowledge of banking principles, operations and aims to enlighten the students on the recent trends in Indian banking.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Overview of banking and Indian banking systems and procedures	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of Account Operations, Debit & Credit Negotiable Instruments and fund operations	Understanding	Conceptual	Class Presentation
CO3	To Understand the concepts Payment and Remittance Services, financial services and DEMAT share accounts.	Understanding	Conceptual	Class Presentation
CO4	To Understand the concepts of Service channels and Operations Management and selection of clients	Understanding	Conceptual	Group Discussion
CO5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (RM)/B.Com (BI)	18CUG22	Customer Relationship Management

Preamble : To enable the students to know about the basic concepts of retaining the customers**.**

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the origin of CRM and their Roots of Relationship Marketing and itsDomain.	Understand	Conceptual	Class Presentation
CO2	Understand the Impact on Sales and Marketing Strategy Sales Force Communication with Automation Technology	Understand	Conceptual	Class Presentation
CO3	Able to know the Customer Data IntegrationRequirements, Data Platforms Technology Evolution, Marketing TechnologyDevelopment Path and Other Emerging Technology Influencers	Remember	Conceptual	Technical Presentation /Demonstration
CO4	Describe the CRM Evaluation ,Tools, Scorecards and CRM MeasurementHierarchy	Understand	Conceptual	Group-Mini Project
CO5	Know about the Privacy, Ethics and Future of CRM with Marketing, Automation, and Customer Communication	Remember	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM) /B.Com(AF)/ B.Com(BI)/B.Com(E-Com)/B.Com(RM)/B.Com(BA)	**18CUG24**	**Direct Taxes**

Preamble : To provide basic application knowledge about direct taxes

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the basic concept of taxes

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignment
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

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Programme	Course Code	Title
B.Com (RM)	18CRM08	Services Marketing

Preamble : This course addresses the essential nature of services and the role of service quality. Service sector firms face increased competition and more demanding customers. Marketers need to develop a distinct set of competencies to design, manage and evaluate the processes and performances that comprise the service offering.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to synthesize and relate theory from a range of academic sources to services marketing conceptual frameworks

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Define services and services marketing. Understanding the quality of service and growth of the services.	Remembering	Conceptual	Poster Presentation
CO2	To understand the service marketing mix and application of 7ps of marketing in services.	Understanding	Conceptual	Writing Skill
CO3	To understand the customer management relationship and marketing research in services.	Understanding	Conceptual	Group Assignment
CO4	Able to understand the Pricing of services and service intermediaries and their issues.	Understanding	Conceptual	Technical Presentation
CO5	To understand the application of service marketing to striving for serviceexcellence.	Remembering	Conceptual	Poster Presentation

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Programme	Course Code	Title
B.Com(RM)	18CRM09	Retail Advertising - Practical

Preamble : To manipulate the attractiveness of retailing advertising sector.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful Completion the course have ability to do

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To relate the concept of retail advertising budget and various media in Retail advertising sector.	Remembering	Analytical	Self-Support Assignment
CO2	To Examine Retail Advertising copy its approaches and various tests used in Retail advertising copy.	Analyze	Analytical	Poster Presentation
CO3	To Contrast the documents required in retail advertising and creativeness of designing the Layout.	Analyze	Analytical	Self-Support Assignment
CO4	To Examine the study report of retail advertising and global trends used in POP retail advertising.	Analyze	Analytical	Poster Presentation
CO5	To Demonstrate Retail advertising campaign and new mobile app.	Remembering	Analytical	Self-Support Assignment

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM) B.Com(BI)/B.Com(RM)/ B.Com(E-Com)/B.Com(BA)	**18CUG27**	**Computational Finance using Spreadsheet –Practical**

Preamble : Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	Self-Support Assignment
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Self-Support Assignment
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Poster presentation

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Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com(RM)/B.Com(E-Com)/B.Com(BA)	**18CUG28**	**Banking Operations System-Practical**

Preamble : This course enables students to use documents relating to banking operations**.**

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the procedure for current account, credit card and availing locker facility applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO2	To understand the procedure for cash credit,electronic fund transfer and real time gross settlement applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for internet banking, mobile banking and electronic vendor finance system applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for Electronic dealer finance system and E-tax filling applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO5	To understand the procedure for NRI Account and Foreign currency cash conversion applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment

CO6	To understand the procedure for Resident Foreign Currency and account closure request form. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com(A & F)	18CUG29	Business Technology –Practical

Preamble : This course enables the students to analyse the cases based on real worldview business technology

Expected level of output : Basic Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, student will have the ability to understand the concept of preparing the ERP.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the problems and find solutions for retail information system and to know that retailers must be aware of the advanced technology to survive in the market of today's retailer ship	Understand	Technical	Poster presentation
CO2	Able to understand the problems and find solutions for retailers in the parameters of business measure to figure out the return on investment and update with thecurrent prevailing retailer software to be used in the business and to get a clear idea about the differences among the manual and technical retailer systems.	Understand	Technical	SSA
CO3	To impart the basic knowledge about EPOS systems and to analyses various businesses which are searchingfor new ways in modernizing their work and keeping all their data secured at one place	Understand	Technical	SSA
CO4	To examine the basic knowledge about the concepts of RFID and come up with advantages of RFID. And to study and give solutions for being an early adopter of technology	Understand	Technical	Poster presentation
CO5	To understand the basic concepts of meaning, purposeand tools of Enterprise resource planning (ERP)	Understand	Technical	SSA

Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/B.Com(CM)/B.Com(A&F) /B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com(BA)	**18CUG39**	**Secretarial Practice Workshop**

Preamble : To know and practice about the legal document used in the Business organization

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Procedure for Tax Filing of Individual, procedure of preparing lease agreements and procedure for conducting Annual general Meeting. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self-Support Assignment
CO2	To understand the tax forms to be filled up in the business the method of preparing the share allotment register as per Companies Act.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for taking permanent Account Number and to borrow loan from financial institutions.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for online trading account and preparing Audit Programme.	Understanding	Analytical	Self-Support Assignment
CO5	To draft the procedure for applying online passport and internet banking.	Understanding	Analytical	Self-Support Assignment
CO6	To understand how to draft a model Annual Report (With Director Speech).	Understanding	Analytical	Self-Support Assignment

Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com (BA)	**18CUG14**	**Financial Reporting System**

Preamble : To impart knowledge about the basic accounting standard used for different methods of accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basics of Linux, Networking, Programming and assembly language

Course Outcomes : successful completion of the course , students will have the ability to understand basic concept of accounting standards

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies ,its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explains about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets , intangible assets and natural resources and to know about the Financial instruments , business combinations, acquisitions	Remember	Conceptual	Group Mini project

	and Joint venture associates.			
CO4	Describe the importance of Analyzing and Interpreting accounting Information, Techniques of financial statement analysis, Cash flow statements and Interpretation of Cash flow statement.	Understand	Conceptual	Class Presentation
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group discussion

Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com (BA)	**18CUG15**	**Business Intelligence**

Preamble : This course helps the student should be able to interpret the results of business analytics and their implications to business administrations.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Basics of Linux, Networking, Programming and assembly language

Course Outcomes : Toward this end, students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the Business Intelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of Data Integration and Data Profiling	Remembering	Conceptual	Group Mini Project
CO4	To understand the concept of Multidimensional Data Modelling and its types and techniques.	Understanding, Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of Business Intelligence in ERP.	Understanding, Apply	Conceptual	Group Discussion

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Programme	Course Code	Title
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Preamble : To have a thorough knowledge of Indian banking system and aims to enlighten the students on the recent trends in banking and regulating provisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the concept of Banking

Course Outcomes : On Successful Completion of the course, student willhave the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the fundamentals, developments and growth of Banking. To know the classification of banks.	Understanding	Conceptual	Class presentation
CO2	To know the role and relationship of banker and customer. Special type of customer, Negotiable instruments.	Remembering	Conceptual	Technical Presentation
CO3	Able to understand the legal aspects of banker, Material alteration. Also familiar about crossing of cheques.	Remembering	Conceptual	Class Presentation
CO4	To familiar with modes of charging the security and managing thePurchasing and discounting of bills	Applying	Conceptual	Group Assignment
CO5	To familiar about cheque truncation system and banking ombudsman scheme.	Understanding	Conceptual	Case study

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (BI)/B.Com (RM)	18CUG18	E-commerce strategy

Preamble :To familiarize the students with the mechanism of conducting business Transactions through Electronic Media..

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : The successful completion of the course students will be able to recognize the impact of information and communication technologies in business operations and use tools and services of the internet in the development of a virtual e-commerce site.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Identify and describe the unique features of e-commerce technology and discuss their business significance.	Understand	Conceptual	Class Presentation
CO2	Describe the legal and ethical issues related to E-commerce.	Understand	Conceptual	Class Presentation
CO3	Understand how e-commerce differs from e-business and identify primary technological building blocks underlying e-commerce.	Remember	Conceptual	Group Assignment
CO4	Describe the impact of technological advances on business to business commerce.	Understand	Conceptual	Case Study
CO5	Understand the ecommerce strategy and platform and Using Knowledge Management to improve E-Commerce Success	Remember	Conceptual	Technical Presentation

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(PA) B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	18CUG19	Brand Management

Preamble : commerce students should have basic knowledge of Brand Management concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful completion of the course, students will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic Concepts of Brand evolution, functions of Brand, branding and challenges to Brand Builders, strategic Brand Management Process and steps in Branding.	Understanding	Theory-Concepts	Class presentation
CO2	To understand the concept of Customer Based Brand Equity, steps in building Brands, Brand building implications and David Aaker's Brand equity Model. Brand identity and Positioning and Brand value.	Understanding	Theory-Concepts	Class Presentation
CO3	To understand the elements of Brand equity and criteria for choosing Brand elements. Leveraging Brand knowledge and Dimensions of Brand knowledge and Brand Value chain.	Understanding	Theory-Concepts	Group Assignment
CO4	To understand the Brand strategies like Brand Extension, Brand Personality, Brand image and Brand Repositioning.	Understanding	Theory-Concepts	Case study
CO5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions favouring Marketing,	Understanding	Theory-Concepts	Technical Presentation

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rogramme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(PA) B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (RM)/B.Com (BA)	**18CUG21**	**Banking Technology**

Preamble : Commerce students should have basic knowledge of banking principles, operations and aims to enlighten the students on the recent trends in Indian banking.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student willhave the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Overview of banking and Indian banking systems and procedures	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of Account Operations, Debit & Credit Negotiable Instruments and fund operations	Understanding	Conceptual	Class Presentation
CO3	To Understand the concepts Payment and Remittance Services, financial services and DEMAT share accounts.	Understanding	Conceptual	Class Presentation
CO4	To Understand the concepts of Service channels and Operations Management and selection of clients	Understanding	Conceptual	Group Discussion
CO5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (RM)/B.Com (BI)	**18CUG22**	**Customer Relationship Management**

Preamble : To enable the students to know about the basic concepts of retaining the customers

.Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the origin of CRM and their Roots of Relationship Marketing and its Domain.	Understand	Conceptual	Class Presentation
CO2	Understand the Impact on Sales and Marketing Strategy Sales Force Communication with Automation Technology	Understand	Conceptual	Class Presentation
CO3	Able to know the Customer Data Integration Requirements, Data Platforms Technology Evolution, Marketing Technology Development Path and Other Emerging Technology Influencers	Remember	Conceptual	Technical Presentation/Demonstration
CO4	Describe the CRM Evaluation ,Tools, Scorecards and CRM Measurement Hierarchy	Understand	Conceptual	Group-Mini Project
CO5	Know about the Privacy, Ethics and Future of CRM with Marketing, Automation, and Customer Communication	Remember	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com PA B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	18CUG23	Consumer Behavior

Preamble : To enable the students to know about eh basic concepts of consumer Behaviour.

.**Expected level of output** : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful completion of the course, students will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO 1	To Understand the basic concepts of Consumer Behavior.	Understanding	Conceptual	Class presentation
CO 2	To Understand and Identify the factors influencing consumer behavior.	Understanding	Conceptual	Class presentation
CO 3	To Understand and Identify the elements of personality, learning and attitude.	Understanding	Conceptual	Technical presentation/
CO 4	To Understand and Identify the factors affecting Reference Groups.	Understanding	Conceptual	Group Mini Project
CO 5	To Understand and Identify the cultural influence of consumer behavior.	Understanding	Conceptual	Group Discussion

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Programme	Course Code	Title
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Preamble : To provide basic application knowledge about direct taxes

.Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of direct taxes	Remembering	Conceptual	Technical Presentation/ Demonstration
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignment
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

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Programme	Course Code	Title
B.Com / B.Com(PA)/B.Com A&F/B.Com BI	18CUG25	Accounting For Public Sectors

Preamble : familiarize the students with the financial statements of various types of public sectors.

.**Expected level of output** : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the holding company and Subsidiary company.	Remembering	Conceptual	Simulation Exercises
CO2	To Understand the meaning of banking companies and preparation of final accounts.	Understanding	Conceptual	Self-Supporting Assignments
CO3	To Understand the concept of Life insurance and preparation of final accounts of insurance companies and determination of Profit in Life Insurance Business.	Understanding	Analytical	Case Study
CO4	To Understand the concept of farm accounting, accounting for price level changes, corporate social responsibility accounting.	Understanding	Analytical	Poster Presentation
CO5	To Understand the meaning of double account system, form and contents of profit and loss account, accounts of government companies.	Understanding	Analytical	Poster Presentation

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Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com (A&F)	**18CUG26**	**Audit Programme Preparation –Practical**

Preamble : This Course enables the students to know the practical aspects of Auditing

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concept of Auditing and its terminologies, concept of book keeping, accountancy and auditing and also to know the various books to be maintained.	Understanding	Analytical	Technical Presentation
CO2	To understand the concept of Income Tax Return Forms, Deductions and Filing of ITR 1, 2 and 3.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for audit of receipts and payments and audit of purchase and Sales books.	Understanding	Analytical	Technical Presentation
CO4	To understand the concept of Balance Sheet analysis and ledger scrutiny and the procedure for valuation and verification of Assets and Liabilities.	Understanding	Analytical	Poster Presentation
CO5	To understand the concept of bank audit and company audit and to know about the query format.	Understanding	Analytical	Technical Presentation
CO6	To understand the format of audit report and also to know how to prepare an Audit Report and conduct of mock audit for hotels and hospitals.	Understanding	Analytical	Poster Presentation

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Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com (RM)	18CUG28	Banking Operations System-Practical

Preamble : This course enables students to use documents relating to banking operations.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the procedure for current account, credit card and availing locker facility applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO2	To understand the procedure for cash credit, electronic fund transfer and real time gross settlement applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for internet banking, mobile banking and electronic vendor finance system applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for Electronic dealer finance system and E-tax filling applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO5	To understand the procedure for NRI Account and Foreign currency cash conversion applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO6	To understand the procedure for Resident Foreign Currency and account closure request form. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com(A & F)	18CUG29	Business Technology - Practical

Preamble : This course enables the students to analyze the cases based on real world view business technology.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the problems and find solutions for retail information system and to know that retailers must be aware of the advanced technology to survive in the market of today's retailer ship	understand	Technical	Poster presentation
CO2	Able to understand the problems and find solutions for retailers in theparameters of business measure to figure out the return on investmentand update with the current prevailing retailer software to be used in the business and to get a clear idea about the differences among the manual and technical retailer systems.	Understand	Technical	SSA
CO3	To impart the basic knowledge about EPOS systems and to analyses various businesses which are searching for new ways in modernising their work and keeping all their data secured at one place	Understand	Technical	SSA
CO4	To examine the basic knowledge about the concepts ofRFID and come up with	Understand	Technical	Poster presentation

	advantages of RFID. And to study and give solutions for being an early adopter of technology			
CO5	To understand the basic concepts of meaning, purpose and tools of Enterprise resource planning (ERP)	Understand	Technical	SSA

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)/ B.Com (CS)	19CUG32	Advertising - Practical

Preamble : This Course enables the students to know the practical aspects of Advertising.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concept of Advertising, its objectives, functions and types and also to analyze advertisement campaign.	Understanding	Analytical	Self Support Assignment
CO2	To understand the nature, characteristics and importance of selling and to know how to prepare a sales report.	Understanding	Analytical	Poster Presentation
CO3	To understand the conventional methods of advertising, market/product research and to know how to prepare the quotations for various advertisement methods.	Understanding	Analytical	Poster Presentation
CO4	To understand the concept of personal skills, importance of communication in selling and to know the concept of negotiation skills.	Understanding	Analytical	Self Support Assignment
CO5	To understand the concept of branding, market penetration and product differentiation and integration of sales promotion with advertising.	Understanding	Analytical	Self Support Assignment
CO6	To know how to design an advertisement and sales strategy and to know how to create a page in Face book and Instagram and also to know how to write an article, campaign and post pictures and how to prepare sales analytics report.	Understanding	Analytical	Self Support Assignment

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Programme	Course Code(s)	Title
B.Com / B.Com(CA)/B.Com(IT)/B.Com(PA) B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/B.Com(RM) /B.Com(E-Com)/B.Com(BA)	**18CUG14**	**Financial Reporting System**

Preamble :To impart knowledge about the basic accounting standard used for different methods of accounting.

Expected Level of Output : Conceptual Level

Department offered **: Commerce**

Pre –Requisites **:** Higher Secondary Level

Course Outcomes **:** On successful completion of the course, students will have the ability to understand the basic concept of accounting standards.

Course Outcome	Description	Verb	Skill	CIA -Capstone
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies ,its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explain about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets , intangible assets and natural resources and to know about the Financial instruments , business combinations, acquisitions and Joint venture associates.	Remember	Conceptual	Group Mini project
CO4	Describe the importance of Analyzing and Interpreting accounting Information, Techniques of financial statement analysis, Cash flow statements and Interpretation of Cash flow statement.	Understand	Conceptual	Class Presentation
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group Discussion

Programme	Course Code(s)	Title
B.Com/B.Com(CA)/B.Com (IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/B.Com(A&F)/B.Com(BI)/B.Com(E-Com)/B.Com(BA)/B.Com RM/B.Com(BA)	**18CUG15**	**Business Intelligence**

Preamble : This course helps the student should be able to interpret the results of business analytics and their implications to business administrations.

Expected Level of Output : Analytical Level

Department offered : Commerce

Learning Outcomes : Toward this end, students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcomes:

Course Outcome	Description	Verb	Skill	CIA -Cap Stone
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the Business Intelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of Data Integration and Data Profiling	Remembering	Conceptual	Group Mini project
CO4	To understand the concept of Multidimensional Data Modeling and its types and techniques.	Understanding Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of Business Intelligence in ERP.	Understanding Apply	Conceptual	Group Discussion

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Programme	Course Code(s)	Title
B.Com(CA) /B.Com(IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com(BI)/B.Com(RM)/B.Com (E-Com)/B.Com(BA)	**18CUG16**	**Corporate Finance**

Preamble : To acquaint the conceptual frame work of corporate finance and use thereof in making financial decisions.

Expected Level of Output : Conceptual Level

Department offered :Commerce

Prerequisites : The student should Appeared for Account Course.

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom Taxonomy Verb	Skill Mapping	CIA -Cap stone
CO1	Enable to Understand the Nature, Scope, Functions and objectives of Corporate Finance, Planning and Budgeting.	Understanding	Conceptual	Group Assignment
CO2	Enable to Prepare theCapital Structure and Cost of Capital.	Apply	Technical	Technical Presentation
CO3	Enable to Understand the various Source of Finance. Its classifications and types.	Understanding	Conceptual	Class Presentation
CO4	Able to prepare Working Capital and Cash Receivables Statements.	Apply	Technical	Technical Presentation
CO5	Able to Understand theDividend decision and Valuation of firms, Types of dividend policy, Bonus Issues, Right issues and SEBI guidelines.	Understanding	Conceptual	Case Study

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Programme	Course Code(s)	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/ B.Com(CM)/ B.Com(A&F)/B.Com(RM)/B.Com(E-Com)/B.Com(BA)	**18CUG17**	**Banking Theory, Law and Practice**

Preamble : To have a thorough knowledge of Indian banking system and aims to enlighten the students on the recent trends in banking and regulating provisions.

Expected Level of Output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the concept of Banking.

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Descripion	Bloom Taxonomy Verb	Skill Mapping	CIA -Cap Stone
CO1	Able to understand the fundamentals, developments and growth of Banking. To know the classification of banks.	Understanding	Conceptual	Class presentation
CO2	To know the role and relationship of banker and customer. Special type of customer, Negotiable instruments	Remembering	Conceptual	Technical Presentation
CO3	Able to understand the legal aspects of banker, Material alteration. Also familiar about crossing of cheques.	Remembering	Conceptual	Class Presentation
CO4	To familiar with modes of charging the security and managing the Purchasing and discounting of bills	Applying	Conceptual	Group Assignment visit
CO5	To familiar about cheque truncation system and banking ombudsman scheme.	Understanding	Conceptual	Case Study

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Programme	Course Code(s)	Title
B.Com / B.Com(CA)/ B.Com (IT)/B.Com(PA)/ B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	**18CUG19**	**Brand Management**

Preamble **:** Commerce students should have basic knowledge of Brand Management concepts.

Expected level of output **:** Conceptual Level.

Department Offered : Commerce

Prerequisites **:** Higher Secondary Level.

Course Outcomes **:** On Successful completion of the course, students will have the ability to

Course Outcome	Description	Verb	Skill	CIA -Cap stone
CO1	To understand the basic Concepts of Brand evolution, functions of Brand, branding and challenges to Brand Builders, strategic Brand Management Process and steps in Branding.	Understanding	Conceptual	Class Presentation
CO2	To understand the concept of Customer Based Brand Equity, steps in building Brands, Brand building implications and David Aaker's Brand equity Model. Brand identity and Positioning and Brand value.	Understanding	Conceptual	Class Presentation
CO3	To understand the elements of Brand equity and criteria for choosing Brand elements. Leveraging Brand knowledge and Dimensions of Brand knowledge and Brand Value chain.	Understanding	Conceptual	Group Assignment
CO4	To understand the Brand strategies like Brand Extension, Brand Personality, Brand image and Brand Repositioning.	Understanding	Conceptual	Case study
CO5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions favouring Marketing,	Understanding	Conceptual	Technical Presentation

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Programme	Course Code(s)	Title
B.Com(CA)/B.Com(IT)/B.Com(BPS) /B.Com(CM)/ B.Com(BI) B.Com(RM)/B.Com(E-Com)/B.Com(BA)	18CUG20	Project Management

Preamble : To examine project management roles and environments, the project life cycle, various techniques of work planning, control and evaluation to achieve project objectives..

Expected Level of Output: Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Inputs : On successful completion of the course, students will have the ability to

Course Outcome	Description	Verb	Skill	CIA -Cap stone
CO1	To understand the meaning of Project and Project Life Cycle	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about principles of project planning and identification	Remembering	Conceptual	Class Presentation
CO3	To understand andanalyze stages of project formulation and SCB Analysis	Understanding	Conceptual	Technical Presentation
CO4	To Elucidate the steps in project appraisal	Understanding	Conceptual	Group Discussion
CO5	To understand the preparation of project report	Remembering	Conceptual	Group Mini Project

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Programme	Course Code(s)	Title
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Preamble :Commerce students should have basic knowledge of banking principles, operations and aims to enlighten the students on the recent trends in Indian banking.

Expected Level of Output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcomes	Description	Verb	Skill	CIA -Cap stone
CO1	To Understand the concepts of Overview of banking and Indian banking systems and procedures	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of Account Operations, Debit & Credit Negotiable Instruments and fund operations	Understanding	Conceptual	Class Presentation
CO3	To Understand the concepts Payment and Remittance Services, financial services and DEMAT share accounts.	Understanding	Conceptual	Class Presentation
CO4	To Understand the concepts of Service channels and Operations Management and selection of clients	Understanding	Conceptual	Group Discussion
CO5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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Programme	Course Code(s)	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(PA) B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)	**18CUG23**	**Consumer Behaviour**

Preamble **:** To enable the students to know about eh basic concepts of consumer Behaviour.

Expected Level of Output : Conceptual Level.

Department offered **:** Commerce

Prerequisites **:** Higher Secondary Level

Course Outcomes **:**On Successful completion of the course, students will have the ability to

Course Outcomes	Description	Verb	Skill	CIA -Cap stone
CO 1	To Understand the basic concepts of Consumer Behavior.	Understanding	Conceptual	Class presentation
CO 2	To Understand and Identify the factors influencing consumer behavior.	Understanding	Conceptual	Class presentation
CO 3	To Understand and Identify the elements of personality, learning and attitude.	Understanding	Conceptual	Technical presentation
CO 4	To Understand and Identify the factors affecting Reference Groups.	Understanding	Conceptual	Group Mini Project
CO 5	To Understand and Identify the cultural influence of consumer behavior.	Understanding	Conceptual	Group Discussion

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Programme	Course Code(s)	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com(PA) /B.Com(BPS)/B.Com(CM)/B.Com(AF)/ B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)	**18CUG24**	**Direct Taxes**

Preamble **:** To provide basic application knowledge about direct taxes
Expected Level of Output : Conceptual Level
Department offered **:** Commerce
Prerequisites **:** Basic Knowledge about the basic concept of taxes
Course Outcomes **:** On Successful completion of the course, students will have the ability to

Course Outcome	Description	Verb	Skill	CIA -Cap stone
CO1	Able to understand the basic concepts of direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignment
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

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Programme	Course Code(s)	Title
B.Com(CA)/ B.Com(IT)/B.Com(BPS) /B.Com(CM) B.Com(BI)/ B.Com(RM)/B.Com (E-Com)/B.Com(BA)	**18CUG27**	**Computational Finance using Spreadsheet –Practical**

Preamble : Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected Level of Output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Verb	Skill	CIA -Cap stone
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	Self-Support Assignment
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Self-Support Assignment
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Poster presentation

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Programme	Course Code(s)	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com(RM)/B.Com(E-Com)/B.Com(BA)	**18CUG28**	**Banking Operations System- Practical**

Preamble **:** This course enables students to use documents relating to banking operations.

Expected Level of Output : Basic working Level

Department offered **:**Commerce

Prerequisites **:** Higher Secondary Level

Course Outcomes **:** On successful completion of the course, students will have the ability to

Course Outcome	Description	Verb	Skill	CIA –Capstone
CO1	To Understand the procedure for current account, credit card and availing locker facility applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO2	To understand the procedure for cash credit, electronic fund transfer and real time gross settlement applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for internet banking, mobile banking and electronic vendor finance system applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for Electronic dealer finance system and E-tax filling applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO5	To understand the procedure for NRI Account and Foreign currency cash conversion applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO6	To understand the procedure for Resident Foreign Currency and account closure request form. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment

Programme	Course Code(s)	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com(BI)/B.Com(E-Com)/B.Com(BA)	**18CUG30**	**Advertising - Practical**

Preamble : This Course enables the students to know the practical aspects of Advertising.

Expected Level of Output : Basic Working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Verb	Skill	CIA –Capstone
CO1	To Understand the concept of Advertising, its objectives, functions and types and also to analyze advertisement campaign.	Understanding	Analytical	Self Support Assignment
CO2	To understand the nature, characteristics and importance of selling and to know how to prepare a sales report.	Understanding	Analytical	Poster Presentation
CO3	To understand the conventional methods of advertising, market/product research and to know how to prepare the quotations for various advertisement methods.	Understanding	Analytical	Poster Presentation
CO4	To understand the concept of personal skills, importance of communication in selling and to know the concept of negotiation skills.	Understanding	Analytical	Self Support Assignment
CO5	To understand the concept of branding, market penetration and product differentiation and integration of sales promotion with advertising.	Understanding	Analytical	Self Support Assignment
CO6	To know how to design an advertisement and sales strategy and to know how to create a page in Face book and Instagram and also to know how to write an article, campaign and post pictures and how to prepare sales analytics report.	Understanding	Analytical	Self Support Assignment

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Programme	Course Code(s)	Title
B.Com(CA)/B.Com(IT)/ B.Com(BPS)/B.Com(CM)/B.Com(A&F) /B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com(BA)	**18CUG39**	**Secretarial Practice Workshop**

Preamble **:** To know and practice about the legal document used in the Business organization

Expected Level of Output : Analytical Level

Department offered **:** Commerce

Prerequisites **:** Higher Secondary Level

Course Outcomes **:** On Successful completion of the course, students will have the ability to

Course Outcome	Description	Verb	Skill	CIA –Capstone
CO1	To Understand the Procedure for Tax Filing of Individual, procedure of preparing lease agreements and procedure for conducting Annual general Meeting. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO2	To understand the tax forms to be filled up in the business the method of preparing the share allotment register as per Companies Act.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for taking permanent Account Number and to borrow loan from financial institutions.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for online trading account and preparing Audit Programme.	Understanding	Analytical	Self Support Assignment
CO5	To draft the procedure for applying online passport and internet banking.	Understanding	Analytical	Self Support Assignment
CO6	To understand how to draft a model Annual Report (With Director Speech).	Understanding	Analytical	Self Support Assignment

Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com (BA)	**18CUG14**	**Financial Reporting System**

Preamble : To impart knowledge about the basic accounting standard used for different methods of accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basics of Linux, Networking, Programming and assembly language

Course Outcomes : successful completion of the course , students will have the ability to understand basic concept of accounting standards

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Basic concepts of Accounting Information and users of accounting Information and to know about the standard accounting policies ,its procedures, corporate Organizational structure and standard format of accounting process	Remember	Conceptual	Class Presentation
CO2	Able to understand the concepts of Internal control system, Accrual accounting and Inventory valuation which explains about Physical Inventory, Inventory Costing Methods and Estimating inventory value.	Understand	Conceptual	Technical Presentation
CO3	To impart the knowledge of Accounting for Fixed assets , intangible assets and natural resources and to know about the Financial instruments , business	Remember	Conceptual	Group Mini project

	combinations, acquisitions and Joint venture associates.			
CO4	Describe the importance of Analyzing and Interpreting accounting Information,Techniques of financial statement analysis, Cash flow statements and Interpretation of Cash flow statement.	Understand	Conceptual	Class Presentation
CO5	To Know about the accounting for segment reporting, segment reporting policies and practices and Corporate social responsibility of emerging Economies.	Understand	Conceptual	Group discussion

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com (BA)	**18CUG15**	**Business Intelligence**

Preamble : This course helps the student should be able to interpret the results of business analytics and their implications to business administrations.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Basics of Linux, Networking, Programming and assembly language

Course Outcomes : Toward this end, students will be able to make data driven decisions to optimize the business process and address issues in business administrations.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the Business Intelligence	Remembering	Conceptual	Technical Presentation
CO3	To impart in-depth knowledge of Data Integration and Data Profiling	Remembering	Conceptual	Group Mini Project
CO4	To understand the concept of Multidimensional Data Modeling and its types and techniques.	Understanding, Apply	Conceptual	Class Presentation
CO5	To understand the Report Standardization and Presentation and benefits of Business Intelligence in ERP.	Understanding, Apply	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(RM)/B.Com (BA)	**18CUG17**	**Banking Theory, Law and Practice**

Preamble : To have a thorough knowledge of Indian banking system and aims to enlighten the students on the recent trends in banking and regulating provisions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the concept of Banking

Course Outcomes : On Successful Completion of the course, student will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the fundamentals, developments and growth of Banking. To know the classification of banks.	Understanding	Conceptual	Class presentation
CO2	To know the role and relationship of banker and customer. Special type of customer, Negotiable instruments.	Remembering	Conceptual	Technical Presentation
CO3	Able to understand the legal aspects of banker, Material alteration. Also familiar about crossing of cheques.	Remembering	Conceptual	Class Presentation
CO4	To familiar with modes of charging the security and managing the Purchasing and discounting of bills	Applying	Conceptual	Group Assignment
CO 5	To familiar about cheque truncation system and banking ombudsman scheme.	Understanding	Conceptual	Case study

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (BI)/B.Com (RM)	**18CUG18**	**E-commerce strategy**

Preamble :To familiarize the students with the mechanism of conducting business Transactions through Electronic Media..

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : The successful completion of the course students will be able to recognize the impact of information and communication technologies in business operations and use tools and services of the internet in the development of a virtual e-commerce site.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Identify and describe the unique features of e-commerce technology and discuss their business significance.	Understand	Conceptual	Class Presentation
CO2	Describe the legal and ethical issues related to E-commerce.	Understand	Conceptual	Class Presentation
CO3	Understand how e-commerce differs from e-business and identify primary technological building blocks underlying e-commerce.	Remember	Conceptual	Group Assignment
CO4	Describe the impact of technological advances on business to business commerce.	Understand	Conceptual	Case Study
CO5	Understand the ecommerce strategy and platform and Using Knowledge Management to improve E-Commerce Success	Remember	Conceptual	Technical Presentation

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Programme	Course Code	Title
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Preamble : commerce students should have basic knowledge of Brand Management concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful completion of the course, students will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic Concepts of Brand evolution, functions of Brand, branding and challenges to Brand Builders, strategic Brand Management Process and steps in Branding.	Understanding	Theory-Concepts	Class presentation
CO2	To understand the concept of Customer Based Brand Equity, steps in building Brands, Brand building implications and David Aaker's Brand equity Model. Brand identity and Positioning and Brand value.	Understanding	Theory-Concepts	Class Presentation
CO3	To understand the elements of Brand equity and criteria for choosing Brand elements. Leveraging Brand knowledge and Dimensions of Brand knowledge and Brand Value chain.	Understanding	Theory-Concepts	Group Assignment
CO4	To understand the Brand strategies like Brand Extension, Brand Personality, Brand image and Brand Repositioning.	Understanding	Theory-Concepts	Case study

CO5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions favouring Marketing,	Understanding	Theory-Concepts	Technical Presentation

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Programme	Course Code	Title
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Preamble : Commerce students should have basic knowledge of banking principles, operations and aims to enlighten the students on the recent trends in Indian banking.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Overview of banking and Indian banking systems and procedures	Understanding	Conceptual	Technical Presentation
CO2	To Understand the concept of Account Operations, Debit & Credit Negotiable Instruments and fund operations	Understanding	Conceptual	Class Presentation
CO3	To Understand the concepts Payment and Remittance Services, financial services and DEMAT share accounts.	Understanding	Conceptual	Class Presentation
CO4	To Understand the concepts of Service channels and Operations Management and selection of clients	Understanding	Conceptual	Group Discussion
CO5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com A&F/B.Com (RM)/B.Com (BI)	**18CUG22**	**Customer Relationship Management**

Preamble : To enable the students to know about the basic concepts of retaining the customers

.Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand theorigin of CRM and their Roots of Relationship Marketing and its Domain.	Understand	Conceptual	Class Presentation
CO2	Understand the Impact on Sales and Marketing Strategy Sales Force Communication with Automation Technology	Understand	Conceptual	Class Presentation
CO3	Able to know the Customer Data Integration Requirements, Data Platforms Technology Evolution, Marketing Technology Development Path and Other Emerging Technology Influencers	Remember	Conceptual	Technical Presentation/ Demonstration
CO4	Describe the CRM Evaluation ,Tools,Scorecards and CRM Measurement Hierarchy	Understand	Conceptual	Group-Mini Project
CO5	Know about the Privacy, Ethics and Future of CRM withMarketing, Automation, and Customer Communication	Remember	Conceptual	Group Discussion

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Programme	Course Code	Title
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Preamble : To enable the students to know about eh basic concepts of consumer Behaviour.

.Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful completion of the course, students will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO 1	To Understand the basic concepts of Consumer Behavior.	Understanding	Conceptual	Class presentation
CO 2	To Understand and Identify the factors influencing consumer behavior.	Understanding	Conceptual	Class presentation
CO 3	To Understand and Identify the elements of personality, learning and attitude.	Understanding	Conceptual	Technical presentation/
CO 4	To Understand and Identify the factors affecting Reference Groups.	Understanding	Conceptual	Group Mini Project
CO 5	To Understand and Identify the cultural influence of consumer behavior.	Understanding	Conceptual	Group Discussion

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/B.Com(E-Com)/B.Com(RM)/B.Com(BA)	**18CUG24**	**Direct Taxes**

Preamble : To provide basic application knowledge about direct taxes

.**Expected level of output** : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student willhave the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of direct taxes	**Remembering**	**Conceptual**	**Technical Presentation/ Demonstration**
CO2	Able to compute the income from salaries and house property	**Understanding**	**Applying**	**Group Assignment**
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	**Understanding**	**Applying**	**Simulation Exercises**
CO4	Able to compute total income and tax liability	**Understanding**	**Applying**	**Poster Presentation**
CO5	Able to know about the tax authorities and Assessment of tax	**Understanding**	**Applying**	**Group Assignment**

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code	Title
B.Com / B.Com(PA)/B.Com A&F/B.Com BI	**18CUG25**	**Accounting For Public Sectors**

Preamble : familiarize the students with the financial statements of various types of public sectors.

.Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student willhave the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the holding company and Subsidiary company.	Remembering	Conceptual	Simulation Exercises
CO2	To Understand the meaning of banking companies and preparation of final accounts.	Understanding	Conceptual	Self-Supporting Assignments
CO3	To Understand the concept of Life insurance and preparation of final accounts of insurance companies and determination of Profit in Life Insurance Business.	Understanding	Analytical	Case Study
CO4	To Understand the concept of farm accounting, accounting for price level changes, corporate social responsibility accounting.	Understanding	Analytical	Poster Presentation
CO5	To Understand the meaning of double account system,form and contents of profit and loss account,accounts of government companies.	Understanding	Analytical	Poster Presentation

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Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com (A&F)	**18CUG26**	**Audit Programme Preparation –Practical**

Preamble : This Course enables the students to know the practical aspects of Auditing

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concept of Auditing and its terminologies, concept of book keeping, accountancy and auditing and also to know the various books to be maintained.	Understanding	Analytical	Technical Presentation
CO2	To understand the concept of Income Tax Return Forms, Deductions and Filing of ITR 1, 2 and 3.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for audit of receipts and payments and audit of purchase and Sales books.	Understanding	Analytical	Technical Presentation
CO4	To understand the concept of Balance Sheet analysis and ledger scrutiny and the procedure for valuation and verification of Assets and Liabilities.	Understanding	Analytical	Poster Presentation
CO5	To understand the concept of bank audit and company audit and to know about the query format.	Understanding	Analytical	Technical Presentation
CO6	To understand the format of audit report and also to know how to prepare an Audit Report and conduct of mock audit for hotels and hospitals.	Understanding	Analytical	Poster Presentation

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Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/ B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/B.Com (RM)	18CUG28	Banking Operations System- Practical

Preamble : This course enables students to use documents relating to banking operations.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the procedure for current account,credit card and availing locker facility applications.Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO2	To understand the procedure for cash credit,electronic fund transfer and real time gross settlement applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO3	To understand the procedure for internet banking,mobile banking and electronic vendor finance system applications. Relevant documents to be fill up in this regard.	Understanding	Analytical	Poster Presentation
CO4	To understand the procedure for Electronic dealer finance system and E-tax filling applications.Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO5	To understand the procedure for NRI Account and Foreign currency cash conversion applications.Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO6	To understand the procedure for Resident Foreign Currency and account closure request form. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(PA)/ B.Com(BPS)/B.Com(CM)/ B.Com(A & F)	18CUG29	Business Technology - Practical

Preamble : This course enables the students to analyze the cases based on real world view business technology.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the problems and find solutions for retail information system and to know that retailers must be aware of the advanced technology to survive in the market of today's retailer ship	understand	Technical	Poster presentation
CO2	Able to understand the problems and find solutions for retailers in theparameters of business measure to figure out the return on investmentand update with the current prevailing retailer software to be used in the business and to get a clear idea about the differences among the manual and technical retailer systems.	Understand	Technical	SSA
CO3	To impart the basic knowledge about EPOS systems and to analyses various businesses which are	Understand	Technical	SSA

	searching for new ways in modernising their work and keeping all their data secured at one place			
CO4	To examine the basic knowledge about the concepts of RFID and come up with advantages of RFID. And to study and give solutions for being an early adopter of technology	Understand	Technical	Poster presentation
CO5	To understand the basic concepts of meaning, purpose and tools of Enterprise resource planning (ERP)	Understand	Technical	SSA

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com (BPS)/ B.Com (CM)/B.Com (A&F)/ B.Com (E-Com)/ B.Com (BI)/B.Com (BA)/ B.Com (CS)	**19CUG32**	**Advertising - Practical**

Preamble : This Course enables the students to know the practical aspects of Advertising.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : **On Successful Completion of the course, student will have the ability to**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concept of Advertising, its objectives, functions and types and also to analyze advertisement campaign.	Understanding	Analytical	Self Support Assignment
CO2	To understand the nature, characteristics and importance of selling and to know how to prepare a sales report.	Understanding	Analytical	Poster Presentation
CO3	To understand the conventional methods of advertising, market/product research and to know how to prepare the quotations for various advertisement methods.	Understanding	Analytical	Poster Presentation
CO4	To understand the concept of personal skills, importance of communication in selling and to know the concept of negotiation skills.	Understanding	Analytical	Self Support Assignment
CO5	To understand the concept of branding, market penetration and product differentiation and integration of sales promotion with advertising.	Understanding	Analytical	Self Support Assignment
CO6	To know how to design an advertisement and sales strategy and to know how to create a page in Face book and Instagram and also to know how to write an article, campaign and post pictures and how to prepare sales analytics report.	Understanding	Analytical	Self Support Assignment

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Programme	Course code(S)	Title
B.Sc (CS&HM)	**18HMU25**	**DSC XXV: Mixology**

Preamble : The course aims at developing a comprehensive knowledge and understanding of Bar service in the hotel and catering industry. It also aims to enable the student to acquire professional competence at basic levels and to acquire the requisite technical skills in the principles of Bar service and its related activities.

Expected Level of Output : Conceptual Level

Department offered : Catering science & Hotel Management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about Bar layout Organization, duties & responsibilities of bar staff	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to know aboutBar Equipments andoperation procedure	Understanding Remembering Apply	Conceptual	Group Assignments
CO3	Able to know aboutCocktails ,Garnishingand recipes	Understanding Remembering Apply	Conceptual	Writing skills
CO4	Able to know aboutspirit based cocktails recipes	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to know aboutliqueurs& Mocktails with recipes	Understanding Remembering Apply	Conceptual	Demonstration

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code(s)	Title
B.Sc (CS&HM)	18HMU26	DSC XXVI :Advanced Food Production & Service

Preamble : Catering students acquire professional Food Production & Service techniques on larder kitchen and function catering in Hotel Industry

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about larder kitchen.	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to understand the preparation method and types of larder byproducts	Understanding Remembering Apply	Conceptual	Group Assignments
CO3	Able to know about kitchen organization and supervisory and customer relations	Understanding Remembering Apply	Conceptual	Writing skills
CO4	Able to know about Gueridon service	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to know the function catering concepts its booking and organization methods	Understanding Remembering Apply	Conceptual	Demonstration

Programme	Course Code(s)	Title
B.Sc (CS&HM)	18HMU27	DSC XXVII: Accommodation Operation

Preamble : Catering students acquire professional managerial skills of room division.

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to plan the housekeeping operations	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to know about the ecotels and the safety & security of the hotel	Understanding Remembering Apply	Conceptual	Group Assignments
CO3	Able to know New start up of housekeeping & front office accounting	Understanding Remembering Apply	Conceptual	Writing skills
CO4	Able to know about Night auditing & its functions	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to know about Budgeting & PMS	Understanding Remembering Apply	Conceptual	Demonstration

Programme	Course Code(s)	Title
B.Sc.(CS&HM)	18HMU28	DSC XXVIII : Advanced Food Production & Service Practical.

Preamble : catering students acquire professional Food Production & Service techniques with manipulation and method of preparing food .

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about Room Service Procedure, Mise-en-place, Order Taking Procedure through telephone.	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to know about Banquets: Types of table set up, buffet arrangements, booking a function	Understanding Remembering Apply	Conceptual	Attendance
CO3	Able to know about organizing a function, ODC Buffet arrangement	Understanding Remembering Apply	Conceptual	Simulation Exercise
CO4	Able to know about Prepare any one starter, main course & dessert from Spain Cuisine and pair wine for the same	Understanding Remembering Apply	Conceptual	Demonstration
CO5	Able to know about : Prepare any one starter, main course & dessert from International Cuisine with proper Plate Presentation	Understanding Remembering Apply	Conceptual	Simulation Exercise

Programme	Course Code(s)	Title
B.Sc. (CS&HM)	**18HMU29**	**DSC XXIX: Mixology Practical**

Preamble : catering students acquire professional skills in bartending.

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about bartending Bar etiquettes & its procedure	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to know about : Preparation of garnish for cocktails & its uses	Understanding Remembering Apply	Conceptual	Attendance
CO3	Able to know about : Preparation of whisky & brandy based cocktails& its service	Understanding Remembering Apply	Conceptual	Simulation Exercise
CO4	Able to know about Service of cocktails	Understanding Remembering Apply	Conceptual	Demonstration
CO5	Able to know about Flair bartending	Understanding Remembering Apply	Conceptual	Simulation Exercise

Programme	Course code	Title
B.Sc. (ECS)	18ECU28	Internet of Things

Preamble: The course introduces the concepts of Internet of Things to build IoT applications.

Expected level of output : Conceptual and Application Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in computer networks and microcontrollers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand the concepts of Internet of Things.	Understanding	Conceptual	Quiz
CO2	Understand the basic design principles for IoT.	Understanding	Conceptual	Writing Skills
CO3	Understand how enterprises plan for IoT deployment in networks.	Understanding	Conceptual	Group Assignment
CO4	Acquire skills on IoT Systems like Python Packages and Raspberry pi.	Understanding	Conceptual	Group Assignment
CO5	Implement basic IoT applications on embedded platform.	Applying	Technical	Poster Presentation/ Charts

Programme	Course Code	Title
B.Sc. (ECS)	**18ECU08**	**Embedded Systems with PIC**

Preamble: The modules of this course will provide an exposure on 8-bit PIC microcontroller, various advanced protocols and interfacing of different peripherals with PIC microcontroller.

Expected level of output : Conceptual and Application Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in basic microcomputer system

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand the fundamentals of embedded systems.	Remembering	Conceptual	Quiz
CO2	Understand the microcontroller architecture (PIC).	Understanding	Conceptual	Class Presentation
CO3	Write the assemble language and C programs.	Applying	Technical	SSA
CO4	Use the on-chip peripherals like I/O ports, timers, USART and ADC of PIC MCU.	Applying	Technical	SSA
CO5	Demonstrate the design and implementation of embedded systems with PIC microcontroller.	Applying	Technical	Group Mini Project

Programme	Course Code	Title
B.Sc. (ECS)	**18ECU09**	**Robotics and Arduino Programming**

Preamble: The course focuses on topics in robotics that relate to fundamentals, actuators, grippers and sensors of robot systems. The course will also explain how to use Arduino to operate lights, motors and sensors for making a robot.

Expected level of output : Conceptual and Application Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in instrumentation and microcontrollers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand the basic concepts of robots.	Understanding	Conceptual	Poster Presentation /Charts
CO2	Identify the drives and end effectors of robot systems.	Understanding	Conceptual	SSA
CO3	Familiarize with the most common robot sensors.	Understanding	Conceptual	Class Presentation
CO4	Explore the open source development platform (Arduino).	Applying	Technical	SSA
CO5	Develop simple robot control systems using Arduino.	Applying	Technical	Poster Presentation /Charts

Programme	Course Code	Title
B.Sc. (ECS)	**18ECU21**	**Practical – Embedded Systems with PIC Lab**

Preamble: This laboratory course is to teach students the design and interfacing of PIC microcontroller-based embedded systems. Assembly and high-level languages are used to interface the microcontrollers to various applications.

Expected level of output **:** Practical Level

Department offered **:** Electronics and Communication Systems

Prerequisites **:** Knowledge in Logic Circuit Design

Course Outcomes **:** After successful completion of this course, the students will be able to

Course outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Design an embedded system with PIC microcontroller.	Applying	Technical	Poster/Chart Presentation
CO2	Trouble shoot microcontroller based electronic systems/products.	Analyzing	Analytical	Poster/Chart Presentation
CO3	Improve employability and entrepreneurship capacity due to knowledge up gradation on recent trends in embedded systems design.	Applying	Technical	SSA

Programme	Course Code	Title
B.Sc. (ECS)	**18ECU22**	**Practical – Arduino Programming Lab**

Preamble: This course aims to demystify the Arduino hardware through hands-on work in the lab creating simple robots with embodied behaviors.

Expected level of output **:** Practical Level

Department offered **:** Electronics and Communication Systems

Prerequisites **:** Knowledge in microcontroller and its programming

Course Outcomes **:** After successful completion of this course, the students will be able to

Course outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Learn the Arduino programming language and IDE.	Understanding	Conceptual	Poster/Chart Presentation
CO2	Construct simple circuits necessary for connecting sensors and actuators to the Arduino.	Applying	Technical	Poster/Chart Presentation
CO3	Design and fabricate the robots.	Applying	Technical	SSA

Programme	Course Code	Title
B.Sc. (ECS)	18ECU10	Modern Communication Systems

Preamble: This course will provide students with the fundamental concepts, principles, and advanced techniques to understand the various modern communication systems.

Expected level of output : Conceptual and Analytical Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in basic communication systems

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand basic elements of a digital communication system.	Understanding	Conceptual	Poster Presentation /Charts
CO2	Demonstrate understanding of various digital modulation and demodulation techniques.	Understanding	Conceptual	SSA
CO3	Analyze the performance of modulation and demodulation techniques in pulse communication.	Analyzing	Analytical	Class Presentation
CO4	Understand the concepts of wireless transmission and telecommunication systems.	Understanding	Conceptual	SSA
CO5	Identify and solve basic communication problems.	Applying	Technical	Poster Presentation /Charts

Programme	Course Code	Title
B.Sc. (ECS)	18ECU11	Computer Networks

Preamble: This course is to provide students with an overview of the concepts and fundamentals of data communication, various types of computer networks and their protocols.

Expected level of output : Conceptual and analytical Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in Computer Systems

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand the fundamental concepts of computer networking.	Understanding	Conceptual	Class Presentation
CO2	Enumerate the layers of the OSI model and TCP/IP, and explain the functions of each layer.	Understanding	Conceptual	Poster Presentation / Charts
CO3	Identify the different types of network topologies and protocols.	Understanding	Conceptual	SSA
CO4	Identify the different types of network devices and their functions within a network.	Understanding	Conceptual	Poster Presentation / Charts
CO5	Expertise in basic protocols of computer networks such as the design, implement and maintenance of individual networks.	Applying	Technical	SSA

Programme	Course Code	Title
B.Sc. (ECS)	18ECU12	Industrial and Power Electronics

Preambles: This course presents analysis and control methods of power electronics circuits, converting and controlling of electric power by using semiconductor switching power devices.

Expected level of output : Conceptual and Application Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in electronic devices and circuits

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Acquire knowledge about various power semiconductor devices.	Understanding	Conceptual	Quiz
CO2	Identify basic requirements for power electronics based design applications.	Understanding	Conceptual	SSA
CO3	Analyze different power converters and control with their applications.	Analyzing	Analytical	Class Presentation
CO4	Build and troubleshoot power electronics circuits.	Applying	Technical	Group Mini Project
CO5	Understand the atomization in industrial sector.	Applying	Technical	SSA

Programme	Course Code	Title
B.Sc. (ECS)	18ECU23	Practical – Industrial and Power Electronics Lab

Preamble: This course aims at obtaining characteristics of power electronic devices with practical design, measurement and applications.

Expected level of output : Practical Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in Power Electronic Devices

Course Outcomes : After successful completion of this course, the students will be able to

Course outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Elucidate the basic operation of various power electronic devices.	Understanding	Conceptual	Poster/ Chart Presentation
CO2	Analyze the response of power electronic circuits.	Analyzing	Analytical	SSA
CO3	Design, develop and troubleshoot the power control circuits for various industrial applications.	Applying	Technical	Poster/ Chart Presentation

Programme	Course Code	Title
B.Sc. (ECS)	**18ECU24**	**Practical – Modern Communication Systems Lab**

Preamble: This course is to improve the students' ability in understanding the concepts of digital modulation and demodulation techniques.

Expected level of output **:** Practical Level

Department offered **:** Electronics and Communication Systems

Prerequisites **:** Knowledge in digital communication techniques

Course Outcomes **:** After successful completion of this course, the students will be able to

Course outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Know the working of digital communication systems.	Understanding	Conceptual	Simulation Exercises
CO2	Identify and analyze the major components used in digital communication systems.	Analyzing	Analytical	Technical Presentation
CO3	Design and demonstrate the electronic circuits, to carry out modulation and demodulation experiments.	Applying	Technical	Poster/ Chart Presentation

Programme	Course Code	Title
B.Sc. (ECS)	18ECU33	Circuit Simulation Using SPICE

Preamble: The aim of this course is to introduce the fundamental concepts regarding circuit simulation. The students will gain knowledge of SPICE simulation, OrCAD pSPICE simulation, SPICE modeling, and other concepts in circuit simulation.

Expected level of output : Conceptual and Application Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in electronic devices and circuits

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand the fundamentals of simulation software.	Understanding	Conceptual	Poster Presentation / Charts
CO2	Know what the SPICE model parameters mean and how they are used in DC and AC circuit analysis.	Understanding	Conceptual	Class Presentation
CO3	Design and implement simulation setup.	Understanding	Conceptual	SSA
CO4	Apply advanced considerations in circuit and system simulation.	Understanding	Conceptual	Poster Presentation / Charts
CO5	Interpret, extract, analyse and present simulation result.	Applying	Technical	SSA

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS21	Mobile Technology

Preamble : To acquire knowledge in the basic concepts of mobile computing, the working principles of GSM,3G,4G and various Mobile Computing concepts to develop skills and to know how to develop the mobile content Applications.

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Basic concepts of mobile computing

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the basics of mobile computing.	Understand	Communication	Class Presentation
CO2	Able to understand the Bluetooth, RFID & GSM.	Understand	Technical	Poster Presentation
CO3	Able to understand SMS & GPRS	Understand	Analytical	Simulation Exercises
CO4	Explain about WAP, CGMA, 3G Networks, 4G, Research issues and WLAN.	Apply	Managerial	Self-Support Assignments

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS)	**18CSS26**	**Artificial Intelligence**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Artificial Intelligence concepts and its application. It also enables the students to solve problems using application of AI

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Knowledge about data structures and algorithms

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the various characteristics of Artificial Intelligence and Intelligent agents.	Understand	Communication	Writing Skill
CO2	Able to learn to represent knowledge in solving AI problems.	Analyze	Technical	Technical Presentation
CO3	Able to understand the various Knowledge representation of AI.	Apply	Managerial	Group Assignments
CO4	Able to learn the different ways of Learning from observation.	Analyze	Technical	Poster Presentation
CO5	To know about the various applications of AI and Exhibit working knowledge in PROLOG.	Create	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS28	DATA MINING

Preamble : The main objective of the course is to introduce the Various data mining task, algorithms and models .It provides understanding about data mining, issues in data mining, classification, clustering and association rules.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Basic understanding of Database Management System

Course Outcome : On successful completion of the course, students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to remember the basic data mining task, models and issues on implementation.	Remember	Communication	Writing skills
CO2	Able to understand the idea on techniques of data mining and how it is used in various concepts.	Understand	Technical	Technical presentation
CO3	Able to understand the concepts of data warehouse.	Understand	Technical	Poster presentation
CO4	Able to implement the concept of Classification clustering in various data mining concept.	Apply	Managerial	Group assignments
CO5	Able to implement the concept of Association Rules in various data mining Application	Apply	Managerial	Group assignments (Algorithm implementationData sets)

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SAU01	Programming in C#.Net

Preamble : This course has four credits dedicated to provide the Students a strong foundation on Visual C#.Net and its Applications.

Expected Level of Output : Conceptual Level.

Department Offered : Computer Science and Applications

Course Outcome : On Successful Completion of the course, Students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the Environment of Visual Studio basics of Object Oriented Programming Language.	Understand	Communication	Class Presentation
CO2	Able to Understand the concept of Classes and Objects, Values and Reference, Enumeration and Arrays.	Analyze	Managerial	Group-Mini Project
CO3	Able to understand the concepts of ASP.NET and XML Services	Apply	Technical	Poster Presentation
CO4	Able to Understand the Concept of Windows forms, Web forms and Accessing data through ADO.NET .	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CAU01	Computer Graphics Using Flash

Learning Outcome : On Successful completion of this study students Will gain the basics knowledge on computer Graphics with flash and implement certain aspect of computer graphics algorithm.

Expected Level of Output : Conceptual Level

Department offering : BCA

Prerequisites : Programming and problem solving

Course Outcomes : On successful completion of the course, Students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand about contemporary graphics hardware.	Understand	Communication	Class Presentation
CO2	Comprehend the concept of geometric, mathematical and algorithmic necessary for programming computer graphics concepts	Understand	Managerial	Group mini project
CO3	Write program functions to implement graphics primitives.	Apply	Technical	Poster Presentation
CO4	Understand and to demonstrate 2D and 3D image processing techniques using animation software	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SSU03	Linux Programming

Preamble : This study gives an overview on the history of Linux, its features and architecture, installation of Linux workstation, performing configuration, usage of Linux system, administer users and groups, to develop and use shell scripts and to set up different network services.

Expected Level of Output : Conceptual Level

Department Offered : Software Systems

Prerequisite : Understanding the model of organization of a system and the structure of the data that is processed by the system.

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concept of UNIX and Linux installation.	Remember	Communication	Class Presentation
CO2	Able to understand the concept of managing the files with directories.	Understand	Managerial	Group - Mini Project
CO3	To Apply the concept of security in files and conditional execution using Shell Script.	Apply	Technical	Poster Presentation
CO4	Able to Apply the concept of backup, recovery and compression in files	Apply	Managerial	Self-Supporting Assignment
CO5	Able to understand the concept of basic networking commands in Linux	Understand	Managerial	Self-Supporting Assignment

Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SAU02	Practical - Programming Lab - C#.Net

Preamble : It enables the students to do the projects and solve the Applications using Visual **C#.**Net Environment

Expected Level of Output : Conceptual Level

Department offered : Computer Science and Applications

Prerequisites : Basics of programming language.

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO 1	Understand the execution flow of the using classes, objects , basics of Oops and control structure	Understand	Technical	Poster Presentation
CO 2	Understand the Concept of Array of Structures ,Exception handling.	Understand	Technical	Poster Presentation
CO 3	Apply the concept of Windows applications, Working with Menu Editor Functions.	Apply	Managerial	Self Supporting Assignments
CO 4	Apply the concept of Web forms ,Validation Control.ADO.NET Property	Apply	Managerial	Self Supporting Assignments

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CAU02	Practical – Programming Lab- Computer Graphics Using Flash

Preamble : On successful completion of this course the students Willacquire application knowledge using Animation Software's.

Expected Level of Output : Basic working Level

Department offered : BCA

Prerequisites : Fundamental programming knowledge

Course Outcomes : On successful completion of the course, students will be able to

CO	Description	Bloom's Verb	Skill	CIA –Cap stone
CO1	Understand the implementation and execution of drawing primitives line and circle	Create	Managerial	Miniatures
CO2	Apply the flash tools and menus required for drawing images and animating them.	Apply	Technical	Poster Presentation
CO3	Apply flash tools to create 3D animated objects	Apply	Technical	Poster Presentation
CO4	Apply flash tools to create album and webpage using action script, button and links	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	**18SSU04**	**Practical – Programming Lab-Linux**

Preamble : To enable the students to acquire basic knowledge in Linux Programming and to construct programs by their own.

Expected Level of Output : Basic Working Level

Department Offered : Software Systems

Prerequisite : To demonstrate the basic knowledge of Linux commands and file handling Utilities by using Linux shell environment

Course Outcomes : On successful completion of the course, students will be able to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concept of Linux Commands	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of files with directories.	Understand	Technical	Poster Presentation
CO3	To Apply the concept of File Access and Conditional execution using Shell Script.	Apply	Managerial	Self Supporting Assignment
CO4	To Apply the concept of Scheduling and background process	Apply	Managerial	Self Supporting Assignment
CO5	Able to understand the concept of basic networking commands and File Transfer.	Understand	Managerial	Self Supporting Assignment

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	**18CSS22**	**Practical – Excel Macro Lab**

Preamble : To enable the students to construct spread sheet using VBA Constructs and to perform various macro functions available in spread sheet.

Expected Level of Output : Basic Working Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand the basic tools of Excel Macro	Understand	Technical	Poster Presentation
CO2	Analyze the different application using Macro Tools	Apply	Managerial	Self-Supporting Assignments
CO3	Apply different Excel macro objects on different applications	Apply	Managerial	Self-Supporting Assignments

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Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS19	System Modelling using UML

Preamble : On successful completion of this subject the students can learn the concept of Object Oriented software development process and to get acquainted with UML diagrams.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisite : To Understand the Relation with Object Oriented Analysis and Design

Course Outcome : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concepts of Object-Oriented System Development Life Cycle.	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of DFD and ERD	Understand	Communication	Class Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Managerial	Group - Mini Project
CO4	Able to Apply the concept of use case diagram, collaboration and activity diagram	Apply	Managerial	Self Supporting Assignment
CO5	Acquire the knowledge about design and software quality.	Analyze	Managerial	Self Supporting Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS20	Practical - Programming lab- System Modeling using UML

Preamble : To enable the students to learn and draw various UML diagrams.

Expected Level of Output : Basic working Level

Department Offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisite : To Understand basic knowledge of object modeling

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concepts of Classes and Objects.	Remember	Managerial	Self- Support Assignment
CO2	To understand the concept of DFD and ERD.	Understand	Technical	Poster Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Technical	Poster Presentation
CO4	Able to Apply the concept of sequence diagram and activity diagram	Apply	Technical	Poster Presentation
CO5	Able to Apply the concept of collaboration and UseCase diagram	Apply	Managerial	Self- Support Assignment

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Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS27	Data Analysis using R

Preamble : On completion of this course, students will be able to understand the basics of R Programming, fundamental data types, control structures, packages, to code and debug the program

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application / Computer Science and Applications /Software Systems

Prerequisites : Programming Concepts

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To Understand the Basics of R Programming	Understand	Communication	Writing Skills
CO2	To Understand the concepts of Lists, Data Frames and Object Oriented Programming concepts such as Objects and Classes.	Understand	Technical	Technical Presentation
CO3	To Apply Mathematical and Statistical Concepts in R	Apply	Technical	Poster Presentation
CO4	To Apply the basic Plot functions in R	Apply	Analytical	Simulation Exercises

Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS29	Practical-Programming Lab - R

Preamble : To acquire basic knowledge in R programming and how to use R for effective data analysis.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application / Computer Science and Applications /Software Systems

Prerequisites : Basic working Level

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand the execution of the Vectors	Understand	Technical	Technical Presentation
CO2	Recognize the application of Lists and its types	Apply	Technical	Poster Presentation
CO3	Apply Data frames in R Programming	Apply	Technical	Technical Presentation
CO4	Apply CSV files concepts to import in R Programming	Apply	Technical	Poster Presentation

Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	**18CSS31**	**Data Science Lab Using Weka Tool**

Preamble : This course has two credits dedicated to provide the students learning about certain data mining methods and algorithms, accessible through open source machine learning workbench Weka.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful Completion of the course, Students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	In this laboratory, students will implement the various Data Warehousing and Data Mining concepts WEKA	Understand	Technical	Poster Presentation
CO2	Develop various real time applications using data mining techniques.	Analyze	Managerial	Self Supporting Assignment
CO3	Test the developed code using Weka	Apply	Technical	Poster Presentation

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Programme	Course Code	Title
B. Sc Biotechnology	**18BTU08**	**Environmental Biotechnology**

Preamble : To make the student to understand about the ecosystems and its components, Environmental pollutions and Conservation of the environment.

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on environmental biotechnology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the history of environmental biotechnology	Understand	Conceptual Skill	Class Presentation
CO2	To Remember the important of bio fertilizer and vermiculture	Remember	Conceptual Skill	Simulation exercise
CO3	To Analyze the treatment of waste water in industry level	Analyze	Conceptual Skill	Poster Presentation
CO4	To Apply the law of environment and impact on institutions	Apply	Conceptual Skill	Self supporting assignment

Programme	Course Code	Title
B. Sc Biotechnology	**18BTU09**	**Medical Biotechnology**

Preamble : The paper contains an overview, scope and benefits of medical biotechnology, infectious diseases, mechanism of drugs against the diseases and future of medical biotechnology.

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : The basics knowledge in genetics and pathogenic infections.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the structural feature of Metabolic Disorders	Understand	Conceptual Skill	Class Presentation
CO2	To analyze the Genetic diseases and biological importance	Analyze	Conceptual Skill	Simulation exercise
CO3	To remember the Degenerative disease, Industrial Toxicants, Metal Toxicants, Ageing	Remember	Conceptual Skill	Poster Presentation
CO4	To apply the analysis of DNA Sequencing, Nanomedicine the concept of gene therapy and tissue engineering	Apply	Conceptual Skill	Self supporting assignment

Programme	Course Code	Title
B. Sc Biotechnology	**18BSU06**	**Ayurveda**

Preamble : To impart knowledge on Ayurveda and its connection with Modern Biology

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on Biology.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the fundamental concepts of Ayurveda and its relation with microbiology.	Understand	Conceptual Skill	Technical Presentation
CO2	To understand the ayurvedic terms of food and food safety.	Understand	Conceptual Skill	Group Assignment
CO3	To remember the genetic, immunological and pharmacogenomics concepts of Ayurveda.	Remember	Conceptual Skill	Writing skills
CO4	To remember the types and regulations in ayurvedic medicine	Remember	Conceptual Skill	Poster Presentation

Programme	Course Code	Title
B. Sc Biotechnology	18BTU10	Lab in Environmental and Medical Biotechnology

Preamble : To enable the students to quantify the amount of substances present in the given sample (Colorimetric / Titrimetric Analysis).

Expected level of output : Basic working Level

Department offered : Biotechnology

Prerequisites : Basic theoretical knowledge on Immunology and rDNA Technology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain Knowledge on Quantification of Substance in water effluent	Analyze	Technical Skill	Demonstration
CO2	To gain Knowledge on Serum analysis.	Apply	Analytical Skill	Protocol
CO3	To understand the experiments related to genetic engineering.	Apply	Technical Skill	Attendance
CO4	To give a practical hands-on experience related to techniques used in r – DNA technology	Apply	Technical Skill	Simulation exercise

Programme	Course Code	Title
B. Sc Biotechnology	**18BSU07**	**Bionanotechnology**

Preamble : To provide knowledge in the current field of Bionanotechnology and latest trends in Nano level application of Bionanoparticles in the medical field.

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on Physics and Chemistry.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the essential features of biology and nanotechnology that are converging to create the new area of bionanotechnology	Understand	Conceptual Skill	Class Presentation
CO2	To recognize the structural and functional principles of bionanotechnology	Understand	Conceptual Skill	Technical Presentation
CO3	To employ bionanomaterials for analysis and sensing techniques	Understand	Conceptual Skill	Group Assignment
CO4	To apprehend and explain the biomedical applications of nanotechnology	Understand	Conceptual Skill	Case Study

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Programme	Course Code	Title
B. Sc Biotechnology	**18BTU13**	**Plant Biotechnology**

Preamble : To learn Plant tissue culture and Biotechnological applications of plants for the betterment of society.

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on Science

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the genome organization and synthetic seeds	Understand	Conceptual Skill	Poster Presentation
CO2	To understand the conventional methods in plant breeding and the concept of molecular markers	Understand	Conceptual Skill	Class Presentation
CO3	To apply different media formulations in different techniques	Apply	Conceptual Skill	Simulation exercise
CO4	To apply transformation techniques for developing resistance in plants	Apply	Conceptual Skill	Self supporting assignment

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Programme	Course Code	Title
B. Sc Biotechnology	**18BTU14**	**Lab in Plant and Animal Biotechnology**

Preamble : To enable the students to expertise with the common plant tissue culture techniques to protect endangered plants.

Expected level of output : Basic working Level

Department offered : Biotechnology

Prerequisites : Basic theoretical knowledge on plant and animal biotechnology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain Knowledge on plants and its significance.	Analyze	Technical Skill	Demonstration
CO2	To understand the concepts of tissue culture and its needs.	Apply	Analytical Skill	Protocol
CO3	To understand the experiments related to haploid culture and its need.	Apply	Technical Skill	Attendance
CO4	To give a practical hands on experience related to techniques used in animal biotechnology	Apply	Technical Skill	Simulation exercise

Programme	Course Code	Title
B. Sc Biotechnology	**18BSU08**	**Lab in Biocomputing**

Preamble : To students should able to use available software for sequence alignment, secondary structure prediction and molecular graphics tools understand the principle behind algorithms methods and cluster analysis.

Expected level of output : Practical Level

Department offered : Bioinformatics

Prerequisites : Basic knowledge on Biological data retrieval.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To retrieve the Biological databases	Evaluate	Conceptual Skill	Protocol
CO2	To retrieve the sequence similarity searches. – Blast	Evaluate	Conceptual Skill	Poster Presentation
CO3	To analysis the structure of DNA and protein	Evaluate	Conceptual Skill	Attendance
CO4	To Visualize the DNA and Protein structure	Evaluate	Conceptual Skill	Self-supporting Assignment

Programme	Course Code	Title
B. Sc Biotechnology	18BSU09	Molecular Diagnosis

Preamble : To impart knowledge on DNA based techniques to diagnose the diseases

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on Biology.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the importance of diagnosis of disease through gene analysis	Remember	Conceptual Skill	Class Presentation
CO2	To understand DNA sequencing methods and identification of diseases	Understand	Conceptual Skill	Case Study
CO3	To understand the basis of hereditary and prenatal diseases and diagnosis	Understand	Conceptual Skill	Technical Presentation
CO4	To understand and analyze the application of real time PCR and DNA based tests for identification of genetic disorders	Analyze	Conceptual Skill	Group Assignment

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Programme	Course Code	Title
B. Sc Biotechnology	**18BTU16**	**Animal Biotechnology**

Preamble : To provide fundamental knowledge in Animal tissue culture, animal products, production and applications

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on science.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Fundamentals and basic concepts in Animal cell culture	Understand	Conceptual Skill	Poster Presentation
CO2	To apply the technique of developing cell culture and assays for identifying the viability	Apply	Conceptual Skill	Class Presentation
CO3	To analyze the organ culture and vaccine production	Analyze	Conceptual Skill	Simulation Exercise
CO4	To analyze the basic concepts of Developmental biology, assisted reproductive technology and Transgenic lower and higher animals	Analyze	Conceptual Skill	Self-Supporting Assignment

Programme	Course Code	Title
B.Sc CDF	18CDU20	Traditional Needle Art

Preamble: To understand the origin of technique and design with reference to colours, motifs, layouts of different embroidered textiles.

Expected Level of Output: Conceptual Level

Department offered : Costume Design and Fashion

Pre–Requisite : Completion of HSC .

Course Outcomes

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To introduce the technique of embroidery for value-addition.	Understanding	Conceptual	Class presentation
CO2	To understand about the symbolism of embroidery and its application	Applying	Technical	Group-Mini Project
CO3	To understand and apply the traditional tribal work of India	Applying	Technical	Poster Presentation/ Flow Chart/Miniatures/Protocols
CO4	To analyze the western and Persian influence on hand embroidery.	Analyzing	Technical	SSA

Programme	Course Code	Title
B.Sc CDF	18CDU21	Fashion Portfolio

Preamble: To enable the students to enhance their designing skill and Creativity.

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To create portfolio development presentation techniques and planned for a season or occasion	Applying	Technical	Poster Presentation
CO2	To create mood board, story board, fabric board and colour board	Applying	Technical	
CO3	To create fabric development chart and design development chart	Applying	Technical	SSA
CO4	To create pattern development, ideas for garment construction, garment costing and final presentation	Applying	Technical	

Programme	Course Code	Title
B.Sc. CDF	18CDU22	Fashion Illustration

Preamble: To impart knowledge about Designing skill through fashion illustration.

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: Complete the basics of Fashion Illustration and more than 75% in the same.

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the different mediums of drawing in a fashion figure	Applying	Technical	Technical Presentation / Demonstration
CO2	To apply the different rendering techniques in a fashion figure	Applying	Technical	
CO3	To apply the principles and elements of design in 10 head croquis	Applying	Technical	Simulation exercise
CO4	To apply the concept of seasonal and occasional designing in a fashion figure along with appropriate accessories.	Applying	Technical	

Programme	Course Code	Title
B.Sc. CDF	18CDU23	Accessory Designing Practical

Preamble: To enable the student to develop skills in Accessories Making

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: Completion of Accessory Designing Practical

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the techniques to make a hair and ear ornament.	Applying	Technical	Poster Presentation
CO2	To apply the techniques to make a hand, leg and neck ornament.	Applying	Technical	
CO3	To apply the techniques to make a waist ornament and hats.	Applying	Technical	SSA
CO4	To apply the techniques to make an neckties, scarves and handbags..	Applying	Technical	

Programme	Course Code	Title
B. Sc CDF	18CDU24	Textile Wet Processing

Preamble: To enable the students to learn about the finishing, Dyeing and Printing sectors and to recognize the ways of which fabric can be modified in finishing.

Expected Level of Output: Application Level

Department offered: Costume Design and Fashion

Prerequisites: Higher Secondary Level

Course Outcomes

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Applying the basic fabric preparatory process	Applying	Application	Class Presentation
CO2	Applying the basic and natural dyes in various stages of textile dyeing	Applying	Application	Group Mini Project
CO3	Application of different finishes in fabric to enhance their property for the required end use.	Applying	Application	Poster Presentation / Flow Charts / Miniatures / Protocols
CO4	Applying the various printing process and their end uses.	Applying	Application	
CO5	Applying the various methods of printing and knowing about the last development in dyeing and printing.	Applying	Application	SSA

Programme	Course Code	Title
B. Sc CDF	**18CDU25**	**Apparel Merchandising**

Preamble: To enable the students to learn about the finishing, Dyeing and Printing sectors and to recognize the ways of which fabric can be modified in finishing.

Expected Level of Output: Application Level

Department offered: Costume Design and Fashion

Prerequisites: Higher Secondary Level

Course Outcomes

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To learn about basic concept of merchandising and its activities, qualities and scope of merchandising	Understanding	Conceptual	Technical Presentation / Demonstration
CO2	To learn about the communication process and Essentials of communication	Understanding	Conceptual	Group assignment
CO3	To learn about the sampling process and fashion forecast	Understanding	Conceptual	Writing skills
CO4	To learn about the pricing and Order processing	Understanding	Conceptual	Poster Presentation / Flow Charts / Miniatures / Protocols
CO5	To learn about the marketing and Distribution policy	Understanding	Conceptual	

Programme	Course Code	Title
B.Sc CDF	18CDU26	Fashion Retailing & Brand Management

Preamble: To enable the students to get Knowledge about the branding techniques in fashion industry.

Expected Level of Output: Conceptual Level

Department offered : Costume Design and Fashion

Pre–Requisite : A pass in HSC .

Course Outcomes

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the concept of fashion retailing and structure of retailing in garment industry	Understanding	Conceptual	Class presentation
CO2	To understand the importance of branding terminologies and business principles	Remembering	Conceptual	Group Mini Project
CO3	To know about luxury fashion brands and its consumers	Understanding	Conceptual	Poster Presentation / Flow Charts / Miniatures / Protocols
CO4	To understand the concept of brand customization and digital luxury brands	Understanding	Conceptual	SSA

Programme	Course Code	Title
B. Sc CDF	18CDU27	Advanced Computer Aided Designing Practical

Preamble: The objective of the course is to impart designing knowledge by using computer and also to get acquainted with the various applications of computers in fashion industry

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To creating design and mood board for children's wear	Applying	Technical	Poster Presentation / Flow Charts / Miniatures / Protocols
CO2	To creating design with mood board for women's wear	Applying	Technical	
CO3	To create designs for men's wear	Applying	Technical	SSA
CO4	To creating design for different season festivals and occasions	Applying	Technical	
CO5	To creating pattern for any two ladies and men's garments	Applying	Technical	

Programme	Course Code	Title
B.Sc. CDF	18CDU28	Textile Processing Practical

Preamble: To enable the students to construct the basic garment details.

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the basic preparatory process on fabric for finishing	Applying	Technical	Technical Presentation / Demonstration
CO2	To apply various synthetic and natural dyes in textile dyeing	Applying	Technical	
CO3	To finish the fabrics by applying various printing methods.	Applying	Technical	Simulation Exercises
CO4	To apply different stencil & Resist printing techniques in fabric finishing.	Applying	Technical	

Programme	Course Code	Title
B.Sc. CDF	18CDU29	Men's Apparel Practical

Preamble: To enable the students to construct the Men's garments

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To create the basic drafting pattern for shirt and shirt with hood and produce the garment	Applying	Technical Skills	Poster Presentation / Flow Charts / Miniatures / Protocols
CO2	To create the basic drafting pattern for S.B Waist coat and night coat and produce the garment	Applying	Technical Skills	
CO3	To create the basic drafting pattern for Kalidar kurtha / Nehru kurtha and Shorts and produce the garment	Applying	Technical Skills	SSA
CO4	To create the basic drafting pattern for Pant and Cargo and produce the garment	Applying	Technical Skills	

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Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) / BCA / B.Sc. (CSA) / B.Sc. (SS)	**18CSS21**	**Mobile Technology**

Preamble : To acquire knowledge in the basic concepts of mobile computing, the working principles of GSM,3G,4G and various Mobile Computing concepts to develop skills and to know how to develop the mobile content Applications.

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology/ Computer Technology / Computer Applications /Computer Science and Application / Software Systems

Prerequisites : Basic concepts of mobile computing

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics of mobile computing.	Understand	Communication	Class Presentation
CO2	Able to understand the Bluetooth, RFID & GSM.	Understand	Technical	Poster Presentation
CO3	Able to understand SMS & GPRS	Understand	Analytical	Simulation Exercises
CO4	Explain about WAP, CGMA, 3G Networks, 4G, Research issues and WLAN.	Apply	Managerial	Self-Support Assignments

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Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT)/ BCA / B.Sc. (CSA) / B.Sc. (SS)	**18CSS26**	**Artificial Intelligence**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Artificial Intelligence concepts and its application. It also enables the students to solve problems using application of AI.

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology/ Computer Technology/ Computer Applications /Computer Science and Application/ Software Systems

Prerequisites : Knowledge about data structures and algorithms

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the various characteristics of Artificial Intelligence and Intelligent agents.	Understand	Communication	Writing Skill
CO2	Able to learn to represent knowledge in solving AI problems.	Analyze	Technical	Technical Presentation
CO3	Able to understand the various Knowledge representation of AI.	Apply	Managerial	Group Assignments
CO4	Able to learn the different ways of Learning from observation.	Analyze	Technical	Poster Presentation
CO5	To know about the various applications of AI and Exhibit working knowledge in PROLOG.	Create	Technical	Poster Presentation

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Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT)/ BCA / B.Sc. (CSA) / B.Sc. (SS)	18CSS28	Data Mining

Preamble : The main objective of the course is to introduce the various data mining task, algorithms and models. It provides understanding about data mining, issues in data mining, classification, clustering and association rules.

Expected Level of Output : Conceptual Level

Department Offered : Computer Science / Information Technology/ Computer Technology / Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic understanding of Database Management System

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to remember the basic data mining task, models and issues on implementation.	Remember	Communication	Writing skills
CO2	Able to understand the idea on techniques of data mining and how it is used in various concepts.	Understand	Technical	Technical presentation
CO3	Able to understand the concepts of data warehouse.	Understand	Technical	Poster presentation
CO4	Able to implement the concept of Classification clustering in various data mining concept.	Apply	Managerial	Group assignments
CO5	Able to implement the concept of Association Rules in various data mining Application	Apply	Managerial	Group assignments (Algorithm implementation on Data sets)

Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT)/ BCA / B.Sc. (CSA) / B.Sc. (SS)	18ITU01	Web Technologies

Preamble : To Provide Knowledge on the various techniques involved in the Web Technology and to Create Web Applications. On successful completion of this course students should have knowledge to develop web page applications using scripting languages.

Expected Level of Output : Conceptual Level

Department offered : Information Technology

Prerequisites : Basic understanding of computers and HTML Tags

Course Outcome : On successful completion of the course, students will be

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different types of CSS and Selectors, Font in CSS, Text in CSS and CSS Positioning	Remember	Technical	Poster Presentation
CO2	Able to know about different types of JavaScript, decision making and looping statements in JavaScript.	Understand	Communication	Class Presentation
CO3	Able to work with objects, numbers, strings in JavaScript and to know how to respond to user action	Apply	Managerial	Group MiniProject
CO4	Able to implement VBScript Arrays, Constants, Functions and Subroutines	Apply	Managerial	Self-Support Assignment
CO5	Able to understand XML language, Elements, Attributes, XML DTD, XML Schema	Apply	Managerial	Group MiniProject

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Programme	Course Code	Title
B.Sc. (IT)/ B.Sc. (CT) /B.Sc. (CS) / BCA / B.Sc. (CSA) / B.Sc. (SS)	18CTU01	Mobile Application Development

Preamble : At the end of this course the students will gain enough knowledge to create and publish their own Apps for Google Android devices

Expected Level of Output : Conceptual Level

Department offered : Computer Technology

Prerequisites : Basic understanding of computers and JAVA basics

Course Outcome : On successful completion of the course, students will be

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	ble to understand the Hardware and Software tools and basics of Android versions	Remember	Technical	Poster Presentation
CO2	ble to know about how to start Android application and run on emulator.	Understand	Communication	Class Presentation
CO3	ble to include controls to the form and to know how to respond for user action	Apply	Managerial	Self Support Assignment
CO4	ble to write coding for the application and know how to implement and debug the errors	Apply	Managerial	oup Mini Project
CO5	ble to understand the Android resources and how to customize the resources	Apply	Managerial	oup Mini Project

Programme	Course Code	Course Title
B.Sc. (CSA) / B.Sc. SS / B.Sc. (CT) / B.Sc. (IT) / B.Sc. (CS) / B.C.A	**18SAU01**	**Programming in C#.Net**

Preamble	:	This course has four credits dedicated to provide the students a strong foundation on Visual C#.Net and its Applications.
Expected Level of Output	:	Conceptual Level
Department Offered	:	Computer Science and Applications / Software Systems / Computer Technology/ Information Technology / Computer Science/ Computer Applications
Course Outcome	:	On Successful Completion of the course, Students will be

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the Environment of Visual Studio basics of Object Oriented Programming Language.	Understand	Communication	Class Presentation
CO2	Able to Understand the concept of Classes and Objects, Values and Reference, Enumeration and Arrays.	Analyze	Managerial	Group-Mini Project
CO3	Able to understand the concepts of ASP.NET and XML Services	Apply	Technical	Poster Presentation
CO4	Able to Understand the Concept of Windows forms, Web forms and Accessing data through ADO.NET .	Apply	Managerial	Self Support Assignment

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Programme	Course Code(s)	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) / B.Sc. (CSA) / B.Sc. (SS) / B.C.A	**18CSU01**	**Ethical Hacking**

Preamble : To acquire knowledge on ethical hacking methodology, the foot printing & social engineering, port scanning, hacking web servers and hacking wireless network

Expected Level of Output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basics of Linux, Networking, Programming and assembly language

Course Outcomes : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the hacking methodology	Understand	Technical	Poster Presentation
CO2	Understand the foot printing concept and social engineering	Understand	Communication	Class Presentation
CO3	Understand port scanning, web application and its vulnerabilities	Understand	Managerial	Group Mini Project
CO4	Analyze wireless authentication technology	Analyze	Managerial	Self-support assignment
CO5	Apply the process of hacking web services, wireless networks	Apply	Technical	Poster Presentation

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Programme	Course Code(s)	Title
BCA / B.Sc. (CS) / B.Sc. (CSA) / B.Sc. (SS) / B.Sc. (IT) / B.Sc. (CT)	**18CAU01**	**Computer Graphics Using Flash**

Preamble : On Successful completion of this study students will gain the basics knowledge on computer graphics with flash and implement certain aspect of computer graphics algorithm.

Expected Level of Output : Conceptual Level

Department Offered : BCA

Prerequisites : Programming and problem solving

Course Outcome : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand about contemporary graphics hardware.	Understand	Communication	Class Presentation
CO2	Comprehend the concept of geometric, mathematical and algorithmic necessary for programming computer graphics concepts	Understand	Managerial	Group mini project
CO3	Write program functions to implement graphics primitives.	Apply	Technical	Poster Presentation
CO4	Understand and to demonstrate 2D and 3D image processing techniques using animation software	Apply	Managerial	Self Support Assignment

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Programme	Course Code	Title
B.Sc. (CSA) / B.Sc. (SS) / BCA / B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT)	18SSU03	Linux Programming

Preamble : This study gives an overview on the history of Linux, its features and architecture, installation of Linux workstation, performing configuration, usage of Linux system, administer users and groups, to develop and use shell scripts and to set up different network services.

Expected Level of Output : Analytical Level

Department Offered : Software Systems

Prerequisite : Understanding the model of organization of a system and the structure of the data that is processed by the system.

Course Outcomes : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To remember the basic concept of UNIX and Linux installation.	Remember	Communication	Class Presentation
CO2	Able to understand the concept of managing the files with directories.	Understand	Managerial	Group - Mini Project
CO3	To Apply the concept of security in files and conditional execution using Shell Script.	Apply	Technical	Poster Presentation
CO4	Able to Apply the concept of backup, recovery and compression in files	Apply	Managerial	Self-Supporting Assignment
CO5	Able to understand the concept of basic networking commands in Linux	Understand	Managerial	Self-Supporting Assignment

Programme	Course Code	Title
B.Sc. (IT) / B.Sc. (CT) / BCA / B.Sc. (CS) / B.Sc. (CSA) / B.Sc. (SS)	18ITU02	Practical – Programming Lab - Web Technologies

Preamble : To Provide Knowledge on the various techniques involved in the Web Technology and to Create Web Applications. On successful completion of this course students should have knowledge to develop web page applications using scripting languages.

Expected Level of Output : Conceptual Level

Department Offered : Information Technology

Prerequisites : Basic understanding of computers and HTML Tags

Course Outcome : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonom	Skill Mapping	Capstone Evaluation
CO1	Understand to create web page using HTML, CSS and Scripts.	Apply	Technical	Poster Presentation
CO2	Recognize the application of JavaScript and VBScript.	Apply	Technical	Poster Presentation
CO3	Apply XML DTD and XML Schema in a web page.	Apply	Managerial	Self Support Assessment

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Programme	Course Code(s)	Title
B.Sc. (IT) / B.Sc. (CT) / B.Sc. (CS) / BCA / B.Sc. (CSA) / B.Sc. (SS)	18CTU02	Practical-Programming Lab-Mobile Application Development

Preamble	:	To enrich the students' knowledge with the latest Android operating system with the basic functions and methodology to develop simple android applications.
Expected Level of Output	:	Basic Working Level
Department offered:	:	Computer Technology
Prerequisites	:	JAVA basic Knowledge
Course Outcomes	:	On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics of Android	Understand	Technical	Poster Presentation
CO2	Able to remember controls used in Android.	Understand	Technical	Poster Presentation
CO3	Able to customize the various layout	Understand	Managerial	Self Support Assignment
CO4	Able to develop Android application with various multiple activities	Remember	Managerial	Self Support Assignment

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Programme	Course Code(s)	Course Title
B.Sc. (CSA) / B.Sc. (SS) / B.Sc. (CT) / B.Sc. (IT) / B.Sc. (CS) /BCA	**18SAU02**	**Practical - Programming Lab - C#.Net**

Preamble : It enables the students to do the projects and solve the Applications using Visual C#.Net Environment

Expected Level of Output : Conceptual Level

Department offered : Computer Science and Applications

Prerequisites : Basics of programming language.

Course Outcomes : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO 1	Understand the execution flow of the using classes, objects , basics of Oops and control structure	Understand	Technical	Poster Presentation
CO 2	Understand the Concept of Array of Structures, Exception handling.	Understand	Technical	Poster Presentation
CO 3	Apply the concept of Windows applications, Working with Menu Editor Functions.	Apply	Managerial	Self Supporting Assignments
CO 4	Apply the concept of Web forms, Validation Control.ADO.NET Property	Apply	Managerial	Self Supporting Assignments

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Programme	Course Code(s)	Course Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) / B.Sc. (CSA) / B.Sc. (SS) / B.C.A	**18CSU02**	**Practical - Programming Lab - Ethical Hacking**

Preamble : To acquire knowledge on ethical hacking methodology, the foot printing, port scanning, hacking web servers and hacking wireless network

Expected Level of Output : Conceptual Level

Department Offered : Computer Science

Prerequisites : Basics of Linux, Networking and assembly Programming

Course Outcome : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the Basic IP detecting & blocking concepts	Understand	Managerial	Self-Support assignment
CO2	Able to apply the networking concepts	Apply	Technical	Poster Presentation
CO3	Able to apply Shell commands on payload	Apply	Managerial	Self-Support assignment
CO4	Able to apply the Dynamic App analysis commands	Apply	Technical	Poster Presentation

Programme	Course Code(s)	Title
BCA / B.Sc. (CS) / B.Sc. (CSA) / B.Sc. (SS) / B.Sc. (IT) / B.Sc. (CT)	18CAU02	Practical – Programming Lab- Computer Graphics Using Flash

Preamble : On successful completion of this course the students will acquire application knowledge using Animation Software's.

Expected Level of Output : Basic working Level

Department Offered : BCA

Prerequisites : Fundamental programming knowledge

Course Outcome : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the implementation and execution of drawing primitives line and circle	Create	Managerial	Miniatures
CO2	Apply the flash tools and menus required for drawing images and animating them.	Apply	Technical	Poster Presentation
CO3	Apply flash tools to create 3D animated objects	Apply	Technical	Poster Presentation
CO4	Apply flash tools to create album and webpage using action script, button and links	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. (SS) / B.Sc. (CSA) BCA / B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT)	18SSU04	Practical – Programming Lab-Linux

Preamble : To enable the students to acquire basic knowledge in Linux Programming and to construct programs by their own.

Expected Level of Output : Basic Working Level

Department Offered : Software Systems

Prerequisite : To demonstrate the basic knowledge of Linux commands and file handling Utilities by using Linux shell environment

Course Outcomes : On successful completion of the course, students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To remember the basic concept of Linux Commands	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of files with directories.	Understand	Technical	Poster Presentation
CO3	To Apply the concept of File Access and Conditional execution using Shell Script.	Apply	Managerial	Self-Supporting Assignment
CO4	To Apply the concept of Scheduling and background process	Apply	Managerial	Self-Supporting Assignment
CO5	Able to understand the concept of basic networking commands and File Transfer.	Understand	Managerial	Self-Supporting Assignment

Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (CT) / BCA / B.Sc. (IT) / B.Sc. (SS) / B.Sc. (CSA)	**18CSS22**	**Practical – Excel Macro Lab**

Preamble : To enable the students to construct spread sheet using VBA Constructs and to perform various macro functions available in spread sheet.

Expected Level of Output : Basic Working Level

Department offered : Computer Science /Computer Technology / Computer Applications / Information Technology / Software Systems/ Computer Science and Application

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the basic tools of Excel Macro	Understand	Technical	Poster Presentation
CO2	Analyze the different application using Macro Tools	Apply	Managerial	Self-Supporting Assignments
CO3	Apply different Excel macro objects on different applications	Apply	Managerial	Self-Supporting Assignments

Programme	Course Code(s)	Course Title
B.Sc. (CS) / B.Sc. (CSA) / B.Sc. (SS) / BCA / B.Sc. (IT) / B.Sc. (CT)	**18CSS19**	**System Modeling using UML**

Preamble : On successful completion of this subject the students can learn the concept of Object Oriented software development process and to get acquainted with UML diagrams.

Expected Level of Output : Conceptual Level

Department offered : Computer Science /Computer Science and Applications / Software Systems/BCA /Information Technology/ Computer Technology

Prerequisite : To Understand the Relation with Object Oriented Analysis and Design

Course Outcome : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To remember the basic concepts of Object-Oriented System Development Life Cycle.	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of DFD and ERD.	Understand	Communication	Class Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Managerial	Group - Mini Project
CO4	Able to Apply the concept of use case diagram, collaboration and activity diagram	Apply	Managerial	Self-Supporting Assignment
CO5	Acquire the knowledge about design and software quality.	Analyze	Managerial	Self-Supporting Assignment

Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) /BCA / B.Sc. (CSA) / B.Sc. (SS)	**18CSS20**	**Practical-Programming lab- System Modeling using UML**

Preamble : To enable the students to learn and draw various UML diagrams.

Expected Level of Output : Basic working Level

Department Offered : Computer Science / Information Technology/ Computer Technology / Computer Applications / Computer Science and Applications / Software Systems

Prerequisite : To understand basic knowledge of object modelling

Course Outcomes : On successful completion of the course, students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To remember the basic concepts of Classes and Objects.	Remember	Managerial	Self- Support Assignment
CO2	To understand the concept of DFD and ERD.	Understand	Technical	Poster Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Technical	Poster Presentation
CO4	Able to Apply the concept of sequence diagram and activity Diagram	Apply	Technical	Poster Presentation
CO5	Able to Apply the concept of collaboration and Use Case diagram	Apply	Managerial	Self- Support Assignment

Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) / B.Sc. (CSA) / B.Sc. (SS) / BCA	18CSS27	Data Analysis using R

Preamble : On completion of this course, students will be able to understand the basics of R programming, fundamental data types, control structures, packages, to code and debug the program

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology/ CSA / SS /BCA

Prerequisites : Programming Concepts

Course Outcomes : On successful completion of the course, students will be able

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Basics of R Programming	Understand	Communication	Writing Skills
CO2	To Understand the concepts of Lists, Data Frames and Object Oriented Programming concepts such as Objects and Classes.	Understand	Technical	Technical Presentation
CO3	To Apply Mathematical and Statistical Concepts in R	Apply	Technical	Poster Presentation
CO4	To Apply the basic Plot functions in R	Apply	Analytical	Simulation Exercises

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Programme	Course Code	Course Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) / B.Sc. (CSA) / BCA / B.Sc. (SS)	18CSS29	Practical-Programming Lab – R

Preamble : To acquire basic knowledge in R programming and how to use R for effective data analysis.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Science and Applications / Software Systems

Prerequisites : Basic working Level

Course Outcomes : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution of the Vectors	Understand	Technical	Technical Presentation
CO2	Recognize the application of Lists and its types	Apply	Technical	Poster Presentation
CO3	Apply Data frames in R Programming	Apply	Technical	Technical Presentation
CO4	Apply CSV files concepts to import in R Programming	Apply	Technical	Poster Presentation

Programme	Course Code	Course Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) / BCA / B.Sc. CSA / B.Sc. SS	18CSS31	Data Science Lab Using Weka Tool

Preamble : This course has two credits dedicated to provide the students learning about certain data mining methods and algorithms, accessible through open source machine learning workbench Weka.

Expected Level of Output : Conceptual Level

Department offered : Computer Science/Information Technology/ Computer Technology/Computer Applications /Computer Science and Applications / Software Systems

Prerequisites : Higher Secondary Level

Course Outcome : On Successful Completion of the course, Students will be

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	In this laboratory, students will implement the various Data Warehousing and Data Mining concepts WEKA	Understand	Technical	Poster Presentation
CO2	Develop various real time applications using data mining techniques.	Analyze	Managerial	Self-Supporting Assignment
CO3	Test the developed code using Weka	Apply	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS21	Mobile Technology

Preamble : To acquire knowledge in the basic concepts of mobile computing, the working principles of GSM,3G,4G and various Mobile Computing concepts to develop skills and to know how to develop the mobile content Applications.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Basic concepts of mobile computing

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the basics of mobile computing.	Understand	Communication	Class Presentation
CO2	Able to understand the Bluetooth, RFID & GSM.	Understand	Technical	Poster Presentation
CO3	Able to understand SMS & GPRS	Understand	Analytical	Simulation Exercises
CO4	Explain about WAP, CGMA, 3G Networks, 4G, Research issues and WLAN.	Apply	Managerial	Self-Support Assignments

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS)	18CSS26	Artificial Intelligence

Preamble : This course has four credits dedicated to provide the students a strong foundation on Artificial Intelligence concepts and its application. It also enables the students to solve problems using application of AI

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Knowledge about data structures and algorithms

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the various characteristics of Artificial Intelligence and Intelligent agents.	Understand	Communication	Writing Skill
CO2	Able to learn to represent knowledge in solving AI problems.	Analyze	Technical	Technical Presentation
CO3	Able to understand the various Knowledge representation of AI.	Apply	Managerial	Group Assignments
CO4	Able to learn the different ways of Learning from observation.	Analyze	Technical	Poster Presentation
CO5	To know about the various applications of AI and Exhibit working knowledge in PROLOG.	Create	Technical	Poster Presentation

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Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS28	DATA MINING

Preamble : The main objective of the course is to introduce the various data mining task, algorithms and models .It provides understanding about data mining, issues in data mining, classification, clustering and association rules.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Basic understanding of Database Management System

Course Outcome : On successful completion of the course, students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to remember the basic data mining task, models and issues on implementation.	Remember	Communication	Writing skills
CO2	Able to understand the idea on techniques of data mining and how it is used in various concepts.	Understand	Technical	Technical presentation
CO3	Able to understand the concepts of data warehouse.	Understand	Technical	Poster presentation
CO4	Able to implement the concept of Classification clustering in various data mining concept.	Apply	Managerial	Group assignments
CO5	Able to implement the concept of Association Rules in various data mining Application	Apply	Managerial	Group assignments (Algorithm implementation Data sets)

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Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SAU01	Programming in C#.Net

Preamble : This course has four credits dedicated to provide the students a strong foundation on Visual C#.Net and its Applications.

Expected Level of Output : Conceptual Level.

Department Offered : Computer Science and Applications

Course Outcome : On Successful Completion of the course, Students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the Environment of Visual Studio basics of Object Oriented Programming Language.	Understand	Communication	Class Presentation
CO2	Able to Understand the concept of Classes and Objects, Values and Reference, Enumeration and Arrays.	Analyze	Managerial	Group-Mini Project
CO3	Able to understand the concepts of ASP.NET and XML Services	Apply	Technical	Poster Presentation
CO4	Able to Understand the Concept of Windows forms, Web forms and Accessing data through ADO.NET .	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CAU01	Computer Graphics Using Flash

Learning Outcome : On Successful completion of this study students will gain the basics knowledge on computer graphics with flash and implement certain aspect of computer graphics algorithm.

Expected Level of Output : Conceptual Level

Department offering : BCA

Prerequisites : Programming and problem solving

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand about contemporary graphics hardware.	Understand	Communication	Class Presentation
CO2	Comprehend the concept of geometric, mathematical and algorithmic necessary for programming computer graphics concepts	Understand	Managerial	Group mini project
CO3	Write program functions to implement graphics primitives.	Apply	Technical	Poster Presentation
CO4	Understand and to demonstrate 2D and 3D image processing techniques using animation software	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SSU03	Linux Programming

Preamble : This study gives an overview on the history of Linux, its features and architecture, installation of Linux workstation, performing configuration, usage of Linux system, administer users and groups, to develop and use shell scripts and to set up different network services.

Expected Level of Output : Conceptual Level

Department Offered : Software Systems

Prerequisite : Understanding the model of organization of a system and the structure of the data that is processed by the system.

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concept of UNIX and Linux installation.	Remember	Communication	Class Presentation
CO2	Able to understand the concept of managing the files with directories.	Understand	Managerial	Group - Mini Project
CO3	To Apply the concept of security in files and conditional execution using Shell Script.	Apply	Technical	Poster Presentation
CO4	Able to Apply the concept of backup, recovery and compression in files	Apply	Managerial	Self-Supporting Assignment
CO5	Able to understand the concept of basic networking commands in Linux	Understand	Managerial	Self-Supporting Assignment

Programme	Course Code(s)	Course Title

B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SAU02	Practical - Programming Lab - C#.Net

Preamble : It enables the students to do the projects and solve the Applications using Visual C#.Net Environment

Expected Level of Output : Conceptual Level

Department offered : Computer Science and Applications

Prerequisites : Basics of programming language.

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO 1	Understand the execution flow of the using classes, objects , basics of Oops and control structure	Understand	Technical	Poster Presentation
CO 2	Understand the Concept of Array of Structures, Exception handling.	Understand	Technical	Poster Presentation
CO 3	Apply the concept of Windows applications, Working with Menu Editor Functions.	Apply	Managerial	Self Supporting Assignments
CO 4	Apply the concept of Web forms ,Validation Control.ADO.NET Property	Apply	Managerial	Self Supporting Assignments

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Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	**18CAU02**	**Practical – Programming Lab- Computer Graphics Using Flash**

Preamble : On successful completion of this course the students Will acquire application knowledge using Animation Software's.

Expected Level of Output : Basic working Level

Department offered : BCA

Prerequisites : Fundamental programming knowledge

Course Outcomes : On successful completion of the course, students will be able to

CO	Description	Bloom's Verb	Skill	CIA –Capstone
CO1	Understand the implementation and execution of drawing primitives line and circle	Create	Managerial	Miniatures
CO2	Apply the flash tools and menus required for drawing images and animating them.	Apply	Technical	Poster Presentation
CO3	Apply flash tools to create 3D animated objects	Apply	Technical	Poster Presentation
CO4	Apply flash tools to create album and webpage using action script, button and links	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SSU04	Practical – Programming Lab- Linux

Preamble : To enable the students to acquire basic knowledge in Linux Programming and to construct programs by their own.

Expected Level of Output : Basic Working Level

Department Offered : Software Systems

Prerequisite : To demonstrate the basic knowledge of Linux commands and file handling Utilities by using Linux shell environment

Course Outcomes : On successful completion of the course, students will be able to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concept of Linux Commands	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of files with directories.	Understand	Technical	Poster Presentation
CO3	To Apply the concept of File Access and Conditional execution using Shell Script.	Apply	Managerial	Self Supporting Assignment
CO4	To Apply the concept of Scheduling and background process	Apply	Managerial	Self Supporting Assignment
CO5	Able to understand the concept of basic networking commands and File Transfer.	Understand	Managerial	Self Supporting Assignment

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT /	18CSS22	Practical – Excel Macro Lab

BCA/B.Sc CSA/B.Sc SS

Preamble	:	To enable the students to construct spread sheet using VBA Constructs and to perform various macro functions available in spread sheet.
Expected Level of Output	:	Basic Working Level
Department offered	:	Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems
Prerequisites	:	Higher Secondary Level
Course Outcomes	:	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand the basic tools of Excel Macro	Understand	Technical	Poster Presentation
CO2	Analyze the different application using Macro Tools	Apply	Managerial	Self-Supporting Assignments
CO3	Apply different Excel macro objects on different applications	Apply	Managerial	Self-Supporting Assignments

Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS19	System Modelling using UML

Preamble : On successful completion of this subject the students can learn the concept of Object Oriented software development process and to get acquainted with UML diagrams.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisite : To Understand the Relation with Object Oriented Analysis and Design

Course Outcome : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concepts of Object-Oriented System Development Life Cycle.	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of DFD and ERD	Understand	Communication	Class Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Managerial	Group - Mini Project
CO4	Able to Apply the concept of use case diagram, collaboration and activity diagram	Apply	Managerial	Self Supporting Assignment
CO5	Acquire the knowledge about design and software quality.	Analyze	Managerial	Self Supporting Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS20	Practical-Programming lab- System Modeling using UML

Preamble : To enable the students to learn and draw various UML diagrams.

Expected Level of Output : Basic working Level

Department Offered : Computer Science / Information Technology /Computer Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisite : To Understand basic knowledge of object modelling

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concepts of Classes and Objects.	Remember	Managerial	Self- Support Assignment
CO2	To understand the concept of DFD and ERD.	Understand	Technical	Poster Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Technical	Poster Presentation
CO4	Able to Apply the concept of sequence diagram and activity diagram	Apply	Technical	Poster Presentation
CO5	Able to Apply the concept of collaboration and Use Case diagram	Apply	Managerial	Self- Support Assignment

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS27	Data Analysis using R

Preamble : On completion of this course, students will be able to understand the basics of R programming, fundamental data types, control structures, packages, to code and debug the program

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application / Computer Science and Applications /Software Systems

Prerequisites : Programming Concepts

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To Understand the Basics of R Programming	Understand	Communication	Writing Skills
CO2	To Understand the concepts of Lists, Data Frames and Object Oriented Programming concepts such as Objects and Classes.	Understand	Technical	Technical Presentation
CO3	To Apply Mathematical and Statistical Concepts in R	Apply	Technical	Poster Presentation
CO4	To Apply the basic Plot functions in R	Apply	Analytical	Simulation Exercises

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Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	**18CSS29**	**Practical-Programming Lab - R**

Preamble : To acquire basic knowledge in R programming and how to use R for effective data analysis.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application / Computer Science and Applications /Software Systems

Prerequisites : Basic working Level

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand the execution of the Vectors	Understand	Technical	Technical Presentation
CO2	Recognize the application of Lists and its types	Apply	Technical	Poster Presentation
CO3	Apply Data frames in R Programming	Apply	Technical	Technical Presentation
CO4	Apply CSV files concepts to import in R Programming	Apply	Technical	Poster Presentation

Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS31	Data Science Lab Using Weka Tool

Preamble : This course has two credits dedicated to provide the students learning about certain data mining methods and algorithms, accessible through open source machine learning workbench Weka.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful Completion of the course, Students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	In this laboratory, students will implement the various Data Warehousing and Data Mining concepts WEKA	Understand	Technical	Poster Presentation
CO2	Develop various real time applications using data mining techniques.	Analyze	Managerial	Self Supporting Assignment
CO3	Test the developed code using Weka	Apply	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18CSS21	Mobile Technology

Preamble : To acquire knowledge in the basic concepts of mobile computing, the working principles of GSM,3G,4G and various Mobile Computing concepts to develop skills and to know how to develop the mobile content Applications.

Expected level of output : Conceptual Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : Basic concepts of mobile computing

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics of mobile computing.	Understand	Communication	Class Presentation
CO2	Able to understand the Bluetooth,RFID &GSM.	Understand	Technical	Poster Presentation
CO3	Able to understand SMS & GPRS	Understand	Analytical	Simulation Exercises
CO4	Explain about WAP, CGMA, 3G Networks, 4G, Research issues and WLAN.	Apply	Managerial	Self-Support Assignments

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18CSS26**	**Artificial Intelligence**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Artificial Intelligence concepts and its application. It also enables the students to solve problems using application of AI

Expected level of output : Conceptual Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : Knowledge about data structures and algorithms

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the various characteristics of Artificial Intelligence and Intelligent agents.	Understand	Communication	Writing Skill
CO2	Able to learn to represent knowledge in solving AI problems.	Analyze	Technical	Technical Presentation
CO3	Able to understand the various Knowledge representation ofAI.	Apply	Managerial	Group Assignments
CO4	Able to learn the different ways of Learning from observation.	Analyze	Technical	Poster Presentation
CO5	To know about the various applications of AI and Exhibit working knowledge inPROLOG.	Create	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18CSS28	DATA MINING

Preamble : The main objective of the course is to introduce the various data mining task, algorithms and models. It provides understanding about data mining, issues in data mining, classification, clustering and association rules.

Expected level of output : Conceptual Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : Basic understanding of Database Management System

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to remember the basic datamining task, models and issues on implementation.	Remember	Commun ication	Writing skills
CO2	Able to understand the idea on techniques of data mining and how it is used in various concepts.	Understand	Technical	Technical presentation
CO3	Able to understand the conceptsof data warehouse.	Understand	Technical	Poster presentation
CO4	Able to implement the concept of Classification clustering in various data mining concept.	Apply	Managerial	Group assignments
CO5	Able to implement the concept of Association Rules in various data mining Application	Apply	Managerial	Group assignments (Algorithm implementation on Data sets)

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18ITU01	Web Technologies

Preamble : To Provide Knowledge on the various techniques involved in the Web Technology and to Create Web Applications. On successful completion of this course students should have knowledge to develop web page applications using scripting languages

Expected level of output : Conceptual Level

Department offered : Information Technology

Prerequisites : Basic understanding of computers and HTML Tags

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different types of CSS and Selectors, Font inCSS, Text in CSS and CSS Positioning	Remember	Technical	Poster Presentation
CO2	Able to know about different types of JavaScript, decision making and looping statements in JavaScript.	Understand	Communication	Class Presentation
CO3	Able to work with objects, numbers, strings in JavaScript and to know how to respond to user action	Apply	Managerial	Group Mini Project
CO4	Able to implement VBScript Arrays,Constants, Functions and Subroutines	Apply	Managerial	Self Support Assignment
CO5	Able to understand XML language, Elements, Attributes, XML DTD, XML Schema	Apply	Managerial	Group Mini Project

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18CTU01**	**Mobile Application Development**

Preamble : At the end of this course the students will gain enough knowledge to create and publish their own Apps for Google Android devices

Expected level of output : Conceptual Level

Department offered : Computer Technology

Prerequisites : Basic understanding of computers and JAVA basics

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the Hardware and Software tools and basics of Androidversions	Remember	Technical	Poster Presentation
CO2	Able to know about how to start Android application and run on emulator.	Understand	Communication	Class Presentation
CO3	Able to include controls to the form and to know how to respond for user action	Apply	Managerial	Self-Support Assignment
CO4	Able to write coding for the application and know how to implement and debug the errors	Apply	Managerial	Group Mini Project
CO5	Able to understand the Android resources and how to customize the resources	Apply	Managerial	Group Mini Project

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18SAU01	Programming in C#.Net

Preamble : This course has four credits dedicated to provide the students a strong : foundation on Visual C#.Net and its Applications.

Expected level of output : Conceptual Level

Department offered : Computer Science and Applications

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the Environment of Visual Studio basics of Object Oriented Programming Language.	Understand	Communication	Class Presentation
CO2	Able to Understand the concept of Classes and Objects, Values and Reference, Enumeration and Arrays.	Analyze	Managerial	Group-Mini Project
CO3	Able to understand the conceptsof ASP.NET and XML Services	Apply	Technical	Poster Presentation
CO4	Able to Understand the Concept of Windows forms, Web forms and Accessing data through ADO.NET .	Apply	Managerial	Self Support Assignment

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18CSU01	Ethical Hacking

Preamble : To acquire knowledge on ethical hacking methodology, the foot printing & social engineering, port scanning, hacking web servers and hacking wireless network.

Expected level of output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basics of Linux, Networking, Programming and assembly language

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the hacking methodology	Understand	Technical Skill	Poster Presentation
CO2	Understand the foot printingconcept and social engineering	Understand	Communication	Class Presentation
CO3	Understand port scanning,web application and its vulnerabilities	Understand	Managerial	Group Mini Project
CO4	Analyze wireless authentication technology	Analyze	Managerial	Self-support assignment
CO5	Apply the process of hacking web services, wireless networks	Apply	Technical Skill	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18CAU01	Computer Graphics UsingFlash

Preamble : On Successful completion of this study students will gain the basics knowledge on computer graphics with flash and implement certain aspect of computer graphics algorithm.

Expected level of output : Conceptual Level

Department offered : Computer Applications

Prerequisites : Programming and problem solving

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand about contemporary graphics hardware.	Understand	Communication	Class Presentation
CO2	Comprehend the concept of geometric, mathematical and algorithmic necessary for programming computer graphics concepts	Understand	Managerial	Group mini project
CO3	Write program functions to implement graphics primitives.	Apply	Technical	Poster Presentation
CO4	Understand and to demonstrate 2D and 3D image processing techniques using animation software	Apply	Managerial	Self-Support Assignment

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18SSU03	Linux Programming

Preamble : This study gives an overview on the history of Linux, its features and architecture, installation of Linux workstation, performing configuration, usage of Linux system, administer users and groups, to develop and use shell scripts and to set up different network services.

Expected level of output : Analytical Level

Department offered : Software Systems

Prerequisites : Understanding the model of organization of a system and the structure of the data that is processed by the system.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To remember the basic concept of UNIXand Linux installation.	Remember	Communicat ion	Class Presentation
CO2	Able to understand the concept of managing the files with directories.	Understand	Managerial	Group - Mini Project
CO3	To Apply the concept of security in filesand conditional execution using Shell Script.	Apply	Technical	Poster Presentation
CO4	Able to Apply the concept of backup, recovery and compression in files	Apply	Managerial	Self-Supporting Assignment
CO5	Able to understand the concept of basic networking commands in Linux	Understand	Managerial	Self-Supporting Assignment

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18ITU02**	**Practical – Programming Lab - Web Technologies**

Preamble : To Provide Knowledge on the various techniques involved in the Web Technology and to Create Web Applications. On successful completion of this course students should have knowledge to develop web page applications using scripting languages

Expected level of output : Conceptual Level

Department offered : Information Technology

Prerequisites : Basic understanding of computers and HTML Tags

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand to create web page using HTML,CSS and Scripts.	Apply	Technical	Poster Presentatio
CO2	Recognize the application of JavaScript and VBScript.	Apply	Technical	Poster Presentation
CO3	Apply XML DTD and XML Schema in a web page.	Apply	Managerial	Self-Support Assessment

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18CTU02**	**Practical-Programming Lab-Mobile ApplicationDevelopment**

Preamble : To enrich the students' knowledge with the latest Android operating system with the basic functions and methodology to develop simple android applications.

Expected level of output : Basic Working Level

Department offered : Computer Technology

Prerequisites JAVA basic Knowledge

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basicsof Android	Understand	Technical	Poster Presentation
CO2	Able to remember controls used in Android.	Understand	Technical	Poster Presentation
CO3	Able to customize the variouslayout	Understand	Managerial	Self Support Assignment
CO4	Able to develop Android application with various multiple activities	Remember	Managerial	Self-Support Assignment

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18SAU02**	**Practical - Programming Lab - C#.Net**

Preamble : It enables the students to do the projects and solve the Applications using Visual C#.Net Environment

Expected level of output : Conceptual Level

Department offered : Computer Science and Applications

Prerequisites : Basics of programming language.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution flow of the using classes, objects , basics ofOops and control structure	Understand	Technical	Poster Presentation
CO2	Understand the Concept of Array of Structures ,Exception handling.	Understand	Technical	Poster Presentation
CO3	Apply the concept of Windows applications, Working with Menu Editor Functions.	Apply	Managerial	Self-Supporting Assignments
CO4	Apply the concept of Web forms , Validation Control.ADO.NETProperty	Apply	Managerial	Self-Supporting Assignments

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18CSU02	Practical - ProgrammingLab - Ethical Hacking

Preamble : To acquire knowledge on ethical hacking methodology, the foot printing, port scanning, hacking web servers and hacking wireless network

Expected level of output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basics of Linux, Networking and assembly Programming

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the Basic IP detecting & blocking concepts	Understand	Managerial	Self-Support assignment
CO2	Able to apply the networkingconcepts	Apply	Technical	Poster Presentation
CO3	Able to apply Shell commands onpayload	Apply	Managerial	Self-Support assignment
CO4	Able to apply the Dynamic Appanalysis commands	Apply	Technical	Poster Presentation

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18CAU02**	**Practical – Programming Lab- Computer Graphics UsingFlash**

Preamble : On successful completion of this course the students will acquire application knowledge using Animation Software's

Expected level of output : Basic working Level

Department offered : Computer Applications

Prerequisites : Fundamental programming knowledge

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the implementation and execution of drawing primitivesline and circle	Create	Managerial	Miniatures
CO2	Apply the flash tools and menusrequired for drawing images and animating them.	Apply	Technical	Poster Presentation
CO3	Apply flash tools to create 3Danimated objects	Apply	Technical	Poster Presentation
CO4	Apply flash tools to create album and webpage using action script,button and links	Apply	Managerial	Self-Support Assignment

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18SSU04**	**Practical – Programming Lab- Linux**

Preamble : To enable the students to acquire basic knowledge in Linux Programming and to construct programs by their own.

Expected level of output : Basic Working Level

Department offered : Software Systems

Prerequisites : To demonstrate the basic knowledge of Linux commands and file handling Utilities by using Linux shell environment

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To remember the basic concept of Linux Commands	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of files with directories.	Understand	Technical	Poster Presentation
CO3	To Apply the concept of File Access and Conditional execution using Shell Script.	Apply	Managerial	Self-Supporting Assignment
CO4	To Apply the concept of Scheduling and background process	Apply	Managerial	Self-Supporting Assignment
CO5	Able to understand the concept of basic networking commands and File Transfer.	Understand	Managerial	Self-Supporting Assignment

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18CSS22**	**Practical – Excel Macro Lab**

Preamble : To enable the students to construct spread sheet using VBA Constructs and to perform various macro functions available in spread sheet.

Expected level of output : Basic Working Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the basic tools of Excel Macro	Understand	Technical	Poster Presentation
CO2	Analyze the different application using Macro Tools	Apply	Managerial	Self-Supporting Assignments
CO3	Apply different Excel macro objects on different applications	Apply	Managerial	Self-Supporting Assignments

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18CSS19	System Modeling using UML

Preamble : On successful completion of this subject the students can learn the concept of Object Oriented software development process and to get acquainted with UML diagrams.

Expected level of output : Conceptual Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : To Understand the Relation with Object Oriented Analysis and Design

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To remember the basic concepts of Object-Oriented System DevelopmentLife Cycle.	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of DFDand ERD.	Understand	Communicatio n	Class Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Managerial	Group - Mini Project
CO4	Able to Apply the concept of use case diagram, collaboration and activity diagram	Apply	Managerial	Self-Supporting Assignment
CO5	Acquire the knowledge about design andsoftware quality.	Analyze	Managerial	Self-Supporting Assignment

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18CSS20**	**Practical-Programming lab- System Modeling using UML**

Preamble : To enable the students to learn and draw various UML diagrams.

Expected level of output : Basic working Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : To understand basic knowledge of object modeling

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To remember the basic concepts of Classes and Objects.	Remember	Managerial	Self- Support Assignment
CO2	To understand the concept of DFDand ERD.	Understand	Technical	Poster Presentation
CO3	To understand the concept of UMLDiagrams.	Understand	Technical	Poster Presentation
CO4	Able to Apply the concept of sequence diagram and activityDiagram	Apply	Technical	Poster Presentation
CO5	Able to Apply the concept of collaboration and Use Casediagram	Apply	Managerial	Self- Support Assignment

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18CSS27**	**Data Analysis using R**

Preamble : On completion of this course, students will be able to understand the basics of R programming, fundamental data types, control structures, packages, to code and debug the program

Expected level of output : Conceptual Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : Programming Concepts

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Basics of RProgramming	Understand	Communication	Writing Skills
CO2	To Understand the concepts of Lists, Data Frames and Object Oriented Programming concepts such as Objects and Classes.	Understand	Technical	Technical Presentation
CO3	To Apply Mathematical and Statistical Concepts in R	Apply	Technical	Poster Presentation
CO4	To Apply the basic Plot functions in R	Apply	Analytical	Simulation Exercises

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	**18CSS29**	**Practical-ProgrammingLab - R**

Preamble : To acquire basic knowledge in R programming and how to use R for effective data analysis.

Expected level of output : Conceptual Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : Basic working Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution of theVectors	Understand	Technical	Technical Presentation
CO2	Recognize the application of Listsand its types	Apply	Technical	Poster Presentation
CO3	Apply Data frames in RProgramming	Apply	Technical	Technical Presentation
CO4	Apply CSV files concepts to import in R Programming	Apply	Technical	Poster Presentation

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	18CSS31	Data Science Lab Using Weka Tool

Preamble : This course has two credits dedicated to provide the students learning about certain data mining methods and algorithms, accessible through open source machine learning workbench Weka.

Expected level of output : Conceptual Level

Department offered : Computer Science/ Information Technology/ Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	In this laboratory, students will implement the various Data Warehousing and Data Mining concepts WEKA	Understand	Technical	Poster Presentation
CO2	Develop various real time applications using data mining techniques.	Analyze	Managerial	Self Supporting Assignment
CO3	Test the developed code using Weka	Apply	Technical	Poster Presentation

Programme	Course Code	Title
B.A. English Literature	18ENU13	Fiction

Preamble : The Paper aims at introducing to the students the various forms of fiction.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge of Gothic fiction, and apply The use of supernatural elements.	Applying	Conceptual	Demonstration; Puzzles/ Games
CO2	To understand the detective elements used in writing fiction.	Understanding	Conceptual	Class Presentation
CO3	To decipher the women's writing, and analyze the usage of language by women writers.	Analyzing	Analytical	Group discussion
CO4	To understand the elements of satire used in literary writings.	Understanding	Conceptual	Writing Skills
CO5	To know the features of scientific elements in literary works and to understand dystopian fiction.	Understanding	Analytical	Poster Presentation

Programme	Course Code	Title
B.A. English Literature	18ENU14	American Literature

Preamble : This course will present a broad overview of American literature from the mid-nineteenth century to the present. Students will utilize various critical approaches and reading strategies as they examine important authors and themes of this period. The course will pay special attention to multiple cultures and perspectives.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge about American Poetry, American Poets and their Writing style	Understanding	Conceptual	Quiz
CO2	Enable students to have a deeper understanding of a variety of subjects dealt in American literature like individualism, other modes of existence and humor etc.	Understanding	Conceptual	Class Presentation
CO3	To make learners understand that fiction is a mirror of life by making them aware of evolution of life, realism and so on.	Analyzing	Analytical	Writing Skills
CO4	To comprehend the script of dramatists by how they portray Characters and plot.	Analyzing	Analytical	Class Presentation
CO5	To obtain the difference between short story and fiction.	Remembering	Conceptual	Quiz

Programme	Course Code	Title
B.A. English Literature	18ENU18	Drama II

Preamble : To comprehend the different plays from different minds.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the comedy of manners and the court procedures in the European land.	Understanding	Conceptual	Quiz
CO2	To identify the social flaws and controversies which can be found even in the West	Understanding	Conceptual	Group Assignment
CO3	To learn the causes of poverty and its outcome	Analyzing	Analytical	Writing Skills
CO4	To make the learners to inherit the new theories and isms	Analyzing	Analytical	Poster Presentation
CO5	To facilitate the learners to understand the revolution, which changed the structure of the world	Remembering	Conceptual	Quiz

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Programme	Course Code	Title
B.A. English Literature	**18ENU21**	**Managing Soft Skills**

Preamble : Soft skills are one of the most essential competences that a student must develop. Prepare students for lifelong productive careers which may include graduate studies, communication professions or corporate leadership.

Pre- requisite : **Higher Secondary Level**

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To educate students to be aware of Hard skills and Soft Skills. Students adapt to the changing circumstances and willingness to learn through experience.	Understanding	Conceptual Skills	Class Presentation
CO2	To understand the different forms of communication and its barriers. To understand the interpersonal communication, small group interactions and public speaking.	Understanding	Communication Skills	Group Assignment
CO3	To understand the causes of stress and how the brain reacts to pressure, along with numerous physical and psychological issues.	Applying	Conceptual Skill	Case Study
CO4	*To* comprehend the historical and modern definitions of *leadership* and the primary reasons for leadership derailment and the new paradigm skills.	Applying	Managerial Skill	Class Presentation
CO5	To educate students to be aware of Hard skills and Soft Skills. Students adapt to the changing circumstances and willingness to learn through experience.	Understanding	Conceptual Skills	Class Presentation

Programme	Course Code	Title
B.A. English Literature	**18ENU11**	**Intensive Study of an Author - Shakespeare**

Preamble : Students to have a clear idea about characteristics and greatness of Shakespeare as a writer who still indomitable among other literary figures.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand about the time period and background of the writer Shakespeare.	Analyzing	Conceptual	Quiz
CO2	To analyze and understand comedies and tragedies of Shakespeare.	Analyzing	Conceptual	Group Assignment
CO3	To analyze the strength of woman characters in Shakespearean comedy	Understanding	Communication	Writing Skill
CO4	To understand Shakespearean contribution to sonnets	Remembering	Analytical	Poster Presentation
CO5	To have a deeper understanding of Shakespeare as a writer	Understanding	Analytical	Writing Skill

Programme	Course Code	Title
B.A. English Literature	18ENU12	Commonwealth Literature

Preamble : This course will present a broad overview of American literature from the mid-nineteenth century to the present. Students will utilize various critical approaches and reading strategies as they examine important authors and themes of this period. The course will pay special attention to multiple cultures and perspectives..

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To analyze prose essays.	Analyzing	Conceptual	Class presentation
CO2	To study the poetry of commonwealth countries describing their land.	Analyzing	Conceptual	Technical Presentation
CO3	To comprehend the script of dramatists in portraying the characters and plot.	Understanding	Conceptual	Group Mini Project/ Puzzles
CO4	To know the critics point of view and enables the learners to analyze and understand the selected works of commonwealth literature.	Remembering	Analytical	Writing Skills
CO5	To enable learners getting instructed and delighted through fiction. Making them aware of the goal of fiction.	Understanding	Analytical	Poster Presentation

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Programme	Course Code	Title
B.A. English Literature	**18ENU17**	**Phonetics**

Preamble : The Paper aims at introducing the students to the organs of speech, General Phonetics and Phonetics of the English language.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To study the origin of language and the speech organs.	Understanding	Conceptual	Quiz
CO2	To classify the vowel and consonant sounds of English.	Remembering	Conceptual	Class Presentation
CO3	To understand the differences between the articulations of vowels and consonants.	Applying	Communication	Quiz
CO4	To analyze the Accents in English, the word-accent and the rhythm in connected speech.	Analyzing	Analytical	Group – Mini Project
CO5	To comprehend the Intonation of English language and to give practice to the students with the transcriptions of English language.	Applying	Analytical	SSA- Self Support Assignments

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Programme	Course Code	Title
B.A. English Literature	**18ENU19**	**Basic Journalism**

Preamble : To explore the field of mass media, media ethics, specific challenges faced by journalists and enabling the students to have an insight into journalism

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge about the history of newspaper and the importance of newspaper in present day.	Understanding	Conceptual	Charts
CO2	To know about the electronic era, its impact on Indian society.	Understanding	Conceptual	Miniatures
CO3	To understand the role and responsibilities of editor, sub-editor.	Analyzing	Analytical	Class presentation
CO4	To make learners understand the concept of framing headlines and preparation of mofussil news.	Remembering	Analytical	Poster Presentation
CO5	To make learners know the format and space for write up in print media and digital media.	Analyzing	Analytical	SSA-Self supporting assignment

Programme	Course Code	Title
B.Sc CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	18CSS21	Mobile Technology

Preamble : To acquire knowledge in the basic concepts of mobile computing, the working principles of GSM,3G,4G and various Mobile Computing concepts to develop skills and to know how to develop the mobile content Applications.

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology / Computer Technology / Computer Applications / Computer Science and Application / Software Systems

Prerequisites : Basic concepts of mobile computing

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the basics of mobile computing.	Understand	Communication	Class Presentation
CO2	Able to understand the Bluetooth, RFID & GSM.	Understand	Technical	Poster Presentation
CO3	Able to understand SMS & GPRS	Understand	Analytical	Simulation Exercises
CO4	Explain about WAP, CGMA, 3G Networks, 4G, Research issues and WLAN.	Apply	Managerial	Self Support Assignments

Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	**18CSS26**	**Artificial Intelligence**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Artificial Intelligence concepts and its application. It also enables the students to solve problems using application of AI.

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology / Computer Technology / Computer Applications / Computer Science and Application / Software Systems

Prerequisites : Knowledge about data structures and algorithms

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Able to understand the various characteristics of Artificial Intelligence and Intelligent agents.	Understand	Communication	Writing Skill
CO2	Able to learn to represent knowledge in solving AI problems.	Analyze	Technical	Technical Presentation
CO3	Able to understand the various Knowledge representation of AI.	Apply	Managerial	Group Assignments
CO4	Able to learn the different ways of Learning from observation.	Analyze	Managerial	Poster Presentation
CO5	To know about the various applications of AI and Exhibit working knowledge in PROLOG.	Create	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	18CSS28	Data Mining

Preamble :The main objective of the course is to introduce the various data mining task, algorithms and models .It provides understanding about data mining, issues in data mining, classification, clustering and association rules.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Applications / Computer Science and Application / Software Systems

Prerequisites : Basic understanding of Database Management System

Course Outcome : On successful completion of the course, students will be

CO	Description	Bloom's Verb	Skill Mapping	CIA - Capstone
CO1	Able to remember the basic data mining task, models and issues on implementation.	Remember	Communication	Writing skills
CO2	Able to understand the idea on techniques of data mining and how it is used in various concepts.	Understand	Technical	Technical presentation
CO3	Able to understand the concepts of data warehouse.	Understand	Technical	Poster presentation
CO4	Able to implement the concept of Classification clustering in various data mining concept.	Apply	Managerial	Group assignments
CO5	Able to implement the concept of Association Rules in various data mining Application	Apply	Managerial	Group assignments (Algorithm implementation Data sets)

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Programme	Course Code(s)	Course Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18ITU01	Web Technologies

Preamble : To Provide Knowledge on the various techniques involved in the Web Technology and to Create Web Applications. On successful completion of this course students should have knowledge to develop web page applications using scripting languages.

Expected Level of Output : Conceptual Level

Department offered : Information Technology

Prerequisites : Basic understanding of computers and HTML Tags

Course Outcome : On successful completion of the course, students will be

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Able to understand the different types of CSS and Selectors, Font in CSS, Text in CSS and CSS Positioning	Remember	Technical	Poster Presentation
CO2	Able to know about different types of JavaScript, decision making and looping statements in JavaScript.	Understand	Communication	Class Presentation
CO3	Able to work with objects, numbers, strings in JavaScript and to know how to respond to user action	Apply	Managerial	Group Mini Project
CO4	Able to implement VBScript Arrays, Constants, Functions and Subroutines	Apply	Managerial	Self Support Assignment
CO5	Able to understand XML language, Elements, Attributes, XML DTD, XML Schema	Apply	Managerial	Group Mini Project

Programme	Course Code(s)	Course Title
B.Sc CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	18CTU01	Mobile Application Development

Preamble :At the end of this course the students will gain enough knowledge to create and publish their own Apps for Google Android devices

Expected Level of Output :Conceptual Level

Department offered :Computer Technology

Prerequisites :Basic understanding of computers and JAVA basics

Course Outcome : On successful completion of the course, students will be

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Able to understand the Hardware and Software tools and basics of Android versions	Remember	Technical	Poster Presentation
CO2	Able to know about how to start Android application and run on emulator.	Understand	Communication	Class Presentation
CO3	Able to include controls to the form and to know how to respond for user action	Apply	Managerial	Self Support Assignment
CO4	Able to write coding for the application and know how to implement and debug the errors	Apply	Managerial	Group Mini Project
CO5	Able to understand the Android resources and how to customize the resources	Apply	Managerial	Group Mini Project

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Programme	Course Code	Course Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	**18SAU01**	**Programming in C#.Net**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Visual C#.Net and its Applications.

Expected Level of Output **:** Conceptual Level.

Department Offered : Computer Science and Applications

Course Outcome **:** On Successful Completion of the course, Students will be

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Able to understand the Environment of Visual Studio basics of ObjectOriented Programming Language.	Understand	Communication	Class Presentation
CO2	Able to Understand the concept of Classes and Objects, Values and Reference, Enumeration and Arrays.	Analyze	Managerial	Group-Mini Project
CO3	Able to understand the concepts of ASP.NET and XML Services	Apply	Technical	Poster Presentation
CO4	Able to Understand the Concept of Windows forms, Web forms and Accessing data through ADO.NET .	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	**18CSU01**	**Ethical Hacking**

Preamble **:** To acquire knowledge on ethical hacking methodology, the Foot printing & social engineering, port scanning, hacking web servers and hacking wireless network

Expected Level of Output : Conceptual Level

Department offered **:** Computer science

Prerequisites : Basics of Linux, Networking, Programming and assembly language

Course Inputs:

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Understand the hacking methodology	Understand	Technical	Poster Presentation
CO2	Understand the foot printing concept and social engineering	Understand	Communication	Class Presentation
CO3	Understand port scanning, web application and its vulnerabilities	Understand	Managerial	Group Mini Project
CO4	Analyze wireless authentication technology	Analyze	Managerial	Self-support assignment
CO5	Apply the process of hacking web services, wireless networks	Apply	Technical	Poster Presentation

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Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18CAU01	Computer Graphics Using Flash

Learning Outcome :On Successful completion of this study students will gain the basics knowledge on computer graphics with flash and implement certain aspect of computer graphics algorithm.

Expected Level of Output : Conceptual Level

Department offering : BCA

Prerequisites : Programming and problem solving

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand about contemporary graphics hardware.	Understand	Communication	Class Presentation
CO2	Comprehend the concept of geometric, mathematical and algorithmic necessary for programming computer graphics concepts	Understand	Managerial	Group mini project
CO3	Write program functions to implement graphics primitives.	Apply	Technical	Poster Presentation
CO4	Understand and to demonstrate 2D and 3D image processing techniques using animation software	Apply	Managerial	Self Support Assignment

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Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18SSU03	Linux Programming

Course Objective : This study gives an overview on the history of Linux, its features and architecture, installation of Linux workstation, performing configuration, usage of Linux system, administer users and groups, to develop and use shell scripts and to set up different network services.

Expected Level of Output : Analytical Level

Department Offered : Software Systems

Prerequisite : Understanding the model of organization of a system and the structure of the data that is processed by the system.

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA - Cap Stone
CO1	To remember the basic concept of UNIX and Linux installation.	Remember	Communication	Class Presentation
CO2	Able to understand the concept of managing the files with directories.	Understand	Managerial	Group - Mini Project
CO3	To Apply the concept of security in files and conditional execution using Shell Script.	Apply	Technical	Poster Presentation
CO4	Able to Apply the concept of backup, recovery and compression in files	Apply	Managerial	Self-Supporting Assignment
CO5	Able to understand the concept of basic networking commands in Linux	Understand	Managerial	Self-Supporting Assignment

Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/ CSA/B.Sc SS	18ITU02	Practical – Programming B.Sc Lab - Web Technologies

Preamble :To Provide Knowledge on the various techniques involved in the Web Technology and to Create Web Applications. On successful completion of this course students should have knowledge to develop web page applications using scripting languages.

Expected Level of Output :Conceptual Level

Department offered :Information Technology

Prerequisites :Basic understanding of computers and HTML Tags

Course Outcomes :On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Capstone
CO1	Understand to create web page using HTML,CSS and Scripts.	Apply	Technical	Poster Presentation
CO2	Recognize the application of JavaScript and VBScript.	Apply	Technical	Poster Presentation
CO3	Apply XML DTD and XML Schema in a web page.	Apply	Managerial	Self Support Assessment

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Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	**18CTU02**	**Practical-Programming Lab-Mobile Application Development**

Preamble : To enrich the students' knowledge with the latest Android operating system with the basic functions and methodology to develop simple android applications.

Expected Level of Output : Basic Working Level

Department offered: : Computer Technology

Prerequisites : JAVA basic Knowledge

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Able to understand the basics of Android	Understand	Technical	Poster Presentation
CO2	Able to remember controls used in Android.	Understand	Technical	Poster Presentation
CO3	Able to customize the various layout	Understand	Managerial	Self Support Assignment
CO4	Able to develop Android application with various multiple activities	Remember	Managerial	Self Support Assignment

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Programme	Course Code(s)	Course Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18SAU02	Practical - Programming Lab - C# .Net

Preamble : It enables the students to do the projects and solve the applications using Visual C#.Net Environment

Expected Level of Output : Conceptual Level

Department offered : Computer Science and Applications

Prerequisites : Basics of programming language.

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO 1	Understand the execution flow of the using classes, objects , basics of Oops and control structure	Understand	Technical	Poster Presentation
CO 2	Understand the Concept of Array of Structures ,Exception handling.	Understand	Technical	Poster Presentation
CO 3	Apply the concept of Windows applications, Working with Menu Editor Functions.	Apply	Managerial	Self Supporting Assignments
CO 4	Apply the concept of Web forms ,Validation Control.ADO.NET Property	Apply	Managerial	Self Supporting Assignments

Programme	Course Code(s)	Course Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18CSU02	Practical - Programming Lab - Ethical Hacking

Preamble : To acquire knowledge on ethical hacking methodology, the foot printing, port scanning, hacking web servers and hacking wireless network

Expected Level of Output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basics of Linux, Networking and assembly Programming

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the Basic IP detecting & blocking concepts	Understand	Managerial	Self Support assignment
CO2	Able to apply the networking concepts	Apply	Technical	Poster Presentation
CO3	Able to apply Shell commands on payload	Apply	Managerial	Self Support assignment
CO4	Able to apply the Dynamic App analysis commands	Apply	Technical	Poster Presentation

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Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	**18CAU02**	**Practical – Programming Lab- Computer Graphics Using Flash**

Learning Outcome : On successful completion of this course the students will acquire application knowledge using Animation Software's.

Expected Level of Output : Basic working Level

Department offered : BCA

Prerequisites : Fundamental programming knowledge

Course Outcomes : On successful completion of the course, students will be able to

CO	Description	Bloom's Verb	Skill	CIA -Capstone
CO1	Understand the implementation and execution of drawing primitives line and circle	Create	Managerial	Miniatures
CO2	Apply the flash tools and menus required for drawing images and animating them.	Apply	Technical	Poster Presentation
CO3	Apply flash tools to create 3D animated objects	Apply	Technical	Poster Presentation

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Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18SSU04	Practical – Programming Lab- Linux

Course Objective : To enable the students to acquire basic knowledge in Linux Programming and to construct programs by their own.

Expected Level of Output : Basic Working Level

Department Offered : Software Systems

Prerequisite : To demonstrate the basic knowledge of Linux commands and file handling Utilities by using Linux shell environment

Course Outcomes : On successful completion of the course, students will able to

CO	Description	Bloom's Verb	Skill	CIA - Capstone
CO1	To remember the basic concept of Linux Commands	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of files with directories.	Understand	Technical	Poster Presentation
CO3	To Apply the concept of File Access and Conditional execution using Shell Script.	Apply	Managerial	Self Supporting Assignment
CO4	To Apply the concept of Scheduling and background process	Apply	Managerial	Self Supporting Assignment
CO5	Able to understand the concept of basic networking commands and File Transfer.	Understand	Managerial	Self Supporting Assignment

Programme	Course Code	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18CSS22	Practical – Excel Macro Lab

Preamble : To enable the students to construct spread sheet using VBA Constructs and to perform various macro functions available in spread sheet.

Expected Level of Output : Basic Working Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Applications / Computer Science and Application / Software Systems

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Understand the basic tools of Excel Macro	Understand	Technical	Poster Presentation
CO2	Analyze the different application using Macro Tools	Apply	Managerial	Self-Supporting Assignments
CO3	Apply different Excel macro objects on different applications	Apply	Managerial	Self-Supporting Assignments

Programme	Course Code(s)	Course Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18CSS19	System Modeling using UML

Course Objective : On successful completion of this subject the students can learn the concept of Object Oriented software development process and to get acquainted with UML diagrams.

Expected Level of Output : Conceptual Level

Department offered : BCA /CSA / SS /Computer Science/ Information Technology / Computer Technology

Prerequisite : To Understand the Relation with Object Oriented Analysis and Design

Course Outcome : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA - Capstone
CO1	To remember the basic concepts of Object-Oriented System Development Life Cycle.	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of DFD and ERD.	Understand	Communication	Class Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Managerial	Group - Mini Project
CO4	Able to Apply the concept of use case diagram, collaboration and activity diagram	Apply	Managerial	Self Supporting Assignment
CO5	Acquire the knowledge about design and software quality.	Analyze	Managerial	Self Supporting Assignment

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Programme	Course Code(s)	Title
B.Sc.(CS)/ B.Sc.(IT) / B.Sc.(CT)/ B.C.A./ B.Sc.(CSA) / B.Sc.(SS)	**18CSS20**	**Practical-Programming lab- System Modeling using UML**

Course Objective : To enable the students to learn and draw various UML diagrams.

Expected Level of Output : Basic working Level

Department offered : BCA/CSA/SS/ComputerScience/ Information Technology / Computer Technology

Prerequisite : To Understand the basic modelling of objects

Course Outcome : On successful completion of the course, students will be able to

CO	Description	Bloom's Verb	Skill	CIA - Capstone
CO1	To remember the basic concepts of Classes and Objects.	Remember	Managerial	Self- Support Assignment
CO2	To understand the concept of DFD and ERD.	Understand	Technical	Poster Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Technical	Poster Presentation
CO4	Able to Apply the concept of sequence diagram and activity Diagram	Apply	Technical	Poster Presentation
CO5	Able to Apply the concept of collaboration and Use Case diagram	Apply	Managerial	Self- Support Assignment

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Programme	Course Code	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18CSS27	Data Analysis using R

Preamble : On completion of this course, students will be able to understand the basics of R programming, fundamental data types, control structures, packages, to code and debug the program

Expected Level of Output : Conceptual Level

Department offered : BCA /CSA / SS /Computer Science/ Information Technology / Computer Technology

Prerequisites : Programming Concepts

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To Understand the Basics of R Programming	Understand	Communication	Writing Skills
CO2	To Understand the concepts of Lists, Data Frames and Object Oriented Programming concepts such as Objects and Classes.	Understand	Technical	Technical Presentation
CO3	To Apply Mathematical and Statistical Concepts in R	Apply	Technical	Poster Presentation
CO4	To Apply the basic Plot functions in R	Apply	Analytical	Simulation Exercises

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Programme	Course Code(s)	Course Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	**18CSS29**	**Practical-Programming Lab - R**

Preamble : To acquire basic knowledge in R programming and how to use R for effective data analysis.

Expected Level of Output : Conceptual Level

Department offered : BCA /CSA / SS /Computer Science/ Information Technology / Computer Technology

Prerequisites : Basic working Level

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA - Capstone
CO1	Understand the execution of the Vectors	Understand	Technical	Technical Presentation
CO2	Recognize the application of Lists and its types	Apply	Technical	Poster Presentation
CO3	Apply Data frames in R Programming	Apply	Technical	Technical Presentation
CO4	Apply CSV files concepts to import in R Programming	Apply	Technical	Poster Presentation

Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	**18CSS31**	**Data Science Lab Using Weka Tool**

Preamble	:	This course has two credits dedicated to provide the students learning about certain data mining methods and algorithms, accessible through open source machine learning workbench Weka.
Expected Level of Output	:	Conceptual Level
Department offered:	:	BCA /CSA / SS /Computer Science/ Information Technology / Computer Technology
Prerequisites	:	Higher Secondary Level
Course Outcome	:	On Successful Completion of the course, Students will be

CO	Description	Bloom's Verb	Skill	CIA - Capstone
CO1	In this laboratory, students will implement the various Data Warehousing and Data Mining concepts WEKA	Understand	Technical	Poster Presentation
CO2	Develop various real time applications using data mining techniques.	Analyze	Managerial	Self Supporting Assignment
CO3	Test the developed code using Weka	Apply	Technical	Poster Presentation

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Programme	Course Code(s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	18SSU04	Practical – Programming Lab- Linux

Preamble : To enable the students to acquire basic knowledge in Linux Programming and to construct programs by their own.

Expected Level of Output : Basic Working Level

Department Offered : Software Systems

Prerequisite : To demonstrate the basic knowledge of Linux commands and file handling Utilities by using Linux shell environment

Course Outcomes : On successful completion of the course, students will able to

CO	Description	Bloom's Verb	Skill	CIA - Capstone
CO1	To remember the basic concept of Linux Commands	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of files with directories.	Understand	Technical	Poster Presentation
CO3	To Apply the concept of File Access and Conditional execution using Shell Script.	Apply	Managerial	Self Supporting Assignment
CO4	To Apply the concept of Scheduling and background process	Apply	Managerial	Self Supporting Assignment
CO5	Able to understand the concept of basic networking commands and File Transfer.	Understand	Managerial	Self Supporting Assignment

Programme	Course Code	Title
B.Sc. Mathematics	18MAU13	DSE I: Group 1- Discrete Mathematics

Preamble: This course helps the students to gain knowledge in mathematical Concepts of the formal languages Automata Theory, Lattices and Boolean Algebra

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in Higher Secondary level**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the concepts of mathematical Logics, different forms, functions, Lattices and Graph theory	Understanding	Conceptual	Quiz
CO2	Able to experiment with Tautology, construct the disjunctive and Conjunctive Normal forms and theory of inference for the statement calculus	Applying	Analytical	Simulation exercise
CO3	Able to relate the language of set theory to interpret issues in different areas of mathematics	Understanding	Conceptual	Simulation exercise
CO4	Able to Develop Lattices, Sublattices, special lattices, graph, reachability and connectedness and matrix representation of graphs	Applying	Analytical	Group Assignment

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Programme	Course Code	Title
B.Sc. Mathematics	18MAU14	DSE I: Group 1- Option II-Special Functions

Preamble: To develop the computation skill in certain special functions which are frequently occurring in higher mathematics and mathematical Physics

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concepts of Beta and Gamma functions	Understanding	Conceptual	Simulation Exercise
CO2	To Obtain the regular, singular points and Fresenius series solution for some special equations	Applying	Analytical	Poster Presentation
CO3	To Obtain the knowledge of indicial equations and some properties of series solutions of Bessel's functions	Applying	Analytical C	Case study
CO4	To know about the Legendre equation and Legendre polynomial	Understanding	Conceptual	Simulation Exercise

Programme	Course Code	Title
B.Sc. Mathematics	18MAU15	DSE I: Group 1- Option III-Mathematical Modelling

Preamble: **On successful completion of this course the students should know the concepts of mathematical Modelling in real life**

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to relate the concepts of modelling, needs techniques and classification. And modelling through geometry and algebra	Understanding	Conceptual	Case Study
CO2	Able to make use of mathematical modelling system of ordinary differential equations of first and second order	Applying	Analytical	Simulation Exercises
CO3	Able to analyze the use of Mathematical Modelling through Partial Differential Equations of second order	Analysing	Analytical	Poster Presentation

Programme	Course Code	Title
B.Sc. Mathematics	18MAU16	DSE II: Group 2- Option I-Numerical Methods

Preamble: Numerical methods provides an Introduction to basic concepts and techniques for finding Numerical solutions of system of Algebraic and Transcendental equations. Tbis course develops the problem-solving skill for both theoretical and computational oriental problems

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to apply numerical methods to solve Algebraic and Transcendental equations in the given range	Applying	Analytical	Simulation Exercise
CO2	Able to Solve Numerical Integration and Differentiation to evaluate the given function under given value	Evaluating	Analytical	Quiz
CO3	Able to find the numeric solutions for ordinary and partial differential equations using various methods	Remembering	Analytical	Puzzles & Games

Programme	Course Code	Title
B.Sc. Mathematics	18MAU17	DSE I: Group 2- Option II-Calculus of Variations

Preamble: This course concerns the analysis and applications of calculus of variation. Applications include areas such as classical mechanics and Differential equations

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different concepts in function and classify the problems	Understanding	Conceptual	Poster presentation
CO2	Able to make use of different methods for finding the solution	Applying	Analytical	Simulation exercises
CO3	Able to impart analytical ability in solving variational problems	Applying	Analytical	Case study

Programme	Course Code	Title
B.Sc. Mathematics	18MAU18	DSE II: Group 2- Option III-Fuzzy Logic and Neural networks

Preamble: On successful completion of the subject the students should gain knowledge about fuzzy sets, fuzzy relations and fuzzy logic, fundamentals of Neural networks and applications of fuzzy mathematics

Expected level of output: **Conceptual and Analytical Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the concepts of crisp sets, Fuzzy sets, Crisp relation and Fuzzy relation	Understanding	Conceptual	Quiz
CO2	Able to develop the knowledge about the fuzzy logic, fuzzy quantifiers, fuzzy inference and defuzzification methods	Applying	Analytical	Group Assignment
CO3	Able to know the deep knowledge the fuzzy automata and fuzzy neural networks	Applying	Analytical	Poste Presentation
CO4	Able to understand the methods of decision making , fuzzy ranking and fuzzy linear programming problem	Applying	Analytical	Writing skill

Programme	Course Code	Title
B.Sc. Mathematics	**18MAU19**	**DSC XIII: Mechanics**

Preamble: On Successful completion of this course the students should know the concepts of courses and difference between the static and the dynamic force

Expected level of output: **Conceptual and Analytical Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understanding of facts and ideas by statics and dynamics concepts	Understanding	Conceptual	Case study
CO2	Able to solve the statics and dynamics problems using acquired knowledge	Applying	Analytical	Simulation exercise
CO3	Able to make inferences and find evidences to support generalizations	Analysing	Analytical	Poster presentation

Programme	Course Code	Title
B.Sc. Mathematics	18MAU20	DSC XIV: Number Theory

Preamble: The course Exposes the elementary basics of theory of numbers, several famous theorems and some unsolved problems about primes.

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to recall the basic theory of integers from the list of axioms	Remember	Conceptual	Group Assignment
CO2	Able to classify the problems to solve using the learned principles and theorems	Understand	Analytical	Writing skill/ Quiz
CO3	Able to apply the number theory algorithms and procedures to basic problems	Applying	Analytical	Poster Presentation

Programme	Course Code	Title
B.Sc. Mathematics	**18MAU21**	**DSC XV: Linear Algebra**

Preamble: To Enable the students to be familiar with the concepts of basis and dimension of vector space and improve the skills of applying different elementary operations on matrices

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in Higher Secondary level**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to define vector space and construct examples for subspace, linear transformations	Understanding	Conceptual	Quiz
CO2	Able to find rank and nullity for linear transformations	Remembering	Conceptual	Group Assignment
CO3	Able to define different types of matrices, determining inverse and canonical forms	Understanding	Conceptual	Poster presentation
CO4	Able to identify the inner product Space, orthogonal and Orthonormal sets	Applying	Analytical	Assignment

Programme	Course Code	Title
B.Sc. Mathematics	18MAU22	DSC XVII: Complex Analysis

Preamble: This course helps the students to develop their problem solving skills in complex number system, complex function, complex differentiation and Integration, Taylor's series Expansion, Laurent's series expansion and Residues of complex functions**.**

Expected level of output: **Conceptual and Analytical Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the concepts of Complex Numbers, Analytic functions, Harmonic Mapping and Conformal Mapping	Understanding	Conceptual	Quiz
CO2	Able to develop the knowledge about the elementary transformations and bilinear transformations	Applying	Analytical	Group Assignment
CO3	Able to know a deep knowledge about the complex differentiation and Integration	Applying	Analytical	Poster Presentation
CO$	Able to Understand expansion of Taylor's series, Laurents's Series. Also understand the concepts of Riemann's theorem, Cauchy's Theorem, Rouche's Theorem	Applying	Analytical	Writing Skill

Programme	Course Code	Title
B.Sc. Mathematics	**18MAU23**	**DSE IIII: Operations Research**

Preamble: on the completion of the course, the student will be able to provide necessary input for optimum utilization of resources by employing Operations Research Techniques

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to recall basic terms and definitions in Operations Research	Remembering	Conceptual	Poster Presentation
CO2	Able to explain the different types and methods for finding solution and their basic applications in practice	Understanding	Conceptual	Simulation exercises
CO3	Able to make use of different quantitative models in solving business problems	Applying	Analytical	Case study

Programme	Course Code	Title
B.Sc. Mathematics	18MAU13	DSE I: Group 1- Discrete Mathematics

Preamble: This course helps the students to gain knowledge in mathematical Concepts of the formal languages Automata Theory, Lattices and Boolean Algebra

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in Higher Secondary level**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the concepts of mathematical Logics, different forms, functions, Lattices and Graph theory	Understanding	Conceptual	Quiz
CO2	Able to experiment with Tautology, construct the disjunctive and Conjunctive Normal forms and theory of inference for the statement calculus	Applying	Analytical	Simulation exercise
CO3	Able to relate the language of set theory to interpret issues in different areas of mathematics	Understanding	Conceptual	Simulation exercise
CO4	Able to Develop Lattices, Sublattices, special lattices, graph, reachability and connectedness and matrix representation of graphs	Applying	Analytical	Group Assignment

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Programme	Course Code	Title
B.Sc. Mathematics	18MAU14	DSE I: Group 1- Option II-Special Functions

Preamble : To develop the computation skill in certain special functions which are frequently occurring in higher mathematics and mathematical Physics

Expected level of output : Conceptual Level

Department offered : Mathematics

Prerequisites : A pass in HSC

Course Outcomes : After successful completion of this course, the students will able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concepts of Beta and Gamma functions	Understanding	Conceptual	Simulation Exercise
CO2	To Obtain the regular, singular points and Fresenius series solution for some special equations	Applying	Analytical	Poster Presentation
CO3	To Obtain the knowledge of indicial equations and some properties of series solutions of Bessel's functions	Applying	Analytical	Case study
CO4	To know about the Legendre equation and Legendre polynomial	Understanding	Conceptual	Simulation Exercise

Programme	Course Code	Title
B.Sc. Mathematics	18MAU15	DSE I: Group 1- Option III-Mathematical Modelling

Preamble: **On successful completion of this course the students should know the concepts of mathematical Modelling in real life**

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to relate the concepts of modelling, needs techniques and classification. And modelling through geometry and algebra	Understanding	Conceptual	Case Study
CO2	Able to make use of mathematical modelling system of ordinary differential equations of first and second order	Applying	Analytical	Simulation Exercises
CO3	Able to analyze the use of Mathematical Modelling through Partial Differential Equations of second order	Analysing	Analytical	Poster Presentation

Programme	Course Code	Title
B.Sc. Mathematics	18MAU16	DSE II: Group 2- Option I-Numerical Methods

Preamble: Numerical methods provides an Introduction to basic concepts and techniques for finding Numerical solutions of system of Algebraic and Transcendental equations. Tbis course develops the problem-solving skill for both theoretical and computational oriental problems

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to apply numerical methods to solve Algebraic and Transcendental equations in the given range	Applying	Analytical	Simulation Exercise
CO2	Able to Solve Numerical Integration and Differentiation to evaluate the given function under given value	Evaluating	Analytical	Quiz
CO3	Able to find the numeric solutions for ordinary and partial differential equations using various methods	Remembering	Analytical	Puzzles & Games

Programme	Course Code	Title
B.Sc. Mathematics	18MAU17	DSE I: Group 2- Option II-Calculus of Variations

Preamble: This course concerns the analysis and applications of calculus of variation. Applications include areas such as classical mechanics and Differential equations

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different concepts in function and classify the problems	Understanding	Conceptual	Poster presentation
CO2	Able to make use of different methods for finding the solution	Applying	Analytical	Simulation exercises
CO3	Able to impart analytical ability in solving variational problems	Applying	Analytical	Case study

Programme	Course Code	Title
B.Sc. Mathematics	18MAU18	DSE II: Group 2- Option III-Fuzzy Logic and Neural networks

Preamble: On successful completion of the subject the students should gain knowledge about fuzzy sets, fuzzy relations and fuzzy logic, fundamentals of Neural networks and applications of fuzzy mathematics

Expected level of output: **Conceptual and Analytical Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the concepts of crisp sets, Fuzzy sets, Crisp relation and Fuzzy relation	Understanding	Conceptual	Quiz
CO2	Able to develop the knowledge about the fuzzy logic, fuzzy quantifiers, fuzzy inference and defuzzification methods	Applying	Analytical	Group Assignment
CO3	Able to know the deep knowledge the fuzzy automata and fuzzy neural networks	Applying	Analytical	Poste Presentation
CO4	Able to understand the methods of decision making , fuzzy ranking and fuzzy linear programming problem	Applying	Analytical	Writing skill

Programme	Course Code	Title
B.Sc. Mathematics	18MAU19	DSC XIII: Mechanics

Preamble: On Successful completion of this course the students should know the concepts of courses and difference between the static and the dynamic force

Expected level of output: **Conceptual and Analytical Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understanding of facts and ideas by statics and dynamics concepts	Understanding	Conceptual	Case study
CO2	Able to solve the statics and dynamics problems using acquired knowledge	Applying	Analytical	Simulation exercise
CO3	Able to make inferences and find evidences to support generalizations	Analysing	Analytical	Poster presentation

Programme	Course Code	Title
B.Sc. Mathematics	18MAU20	DSC XIV: Number Theory

Preamble: The course Exposes the elementary basics of theory of numbers, several famous theorems and some unsolved problems about primes.

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to recall the basic theory of integers from the list of axioms	Remember	Conceptual	Group Assignment
CO2	Able to classify the problems to solve using the learned principles and theorems	Understand	Analytical	Writing skill/ Quiz
CO3	Able to apply the number theory algorithms and procedures to basic problems	Applying	Analytical	Poster Presentation

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Programme	Course Code	Title
B.Sc. Mathematics	18MAU21	DSC XV: Linear Algebra

Preamble: To Enable the students to be familiar with the concepts of basis and dimension of vector space and improve the skills of applying different elementary operations on matrices

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in Higher Secondary level**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to define vector space and construct examples for subspace, linear transformations	Understanding	Conceptual	Quiz
CO2	Able to find rank and nullity for linear transformations	Remembering	Conceptual	Group Assignment
CO3	Able to define different types of matrices, determining inverse and canonical forms	Understanding	Conceptual	Poster presentation
CO4	Able to identify the inner product Space, orthogonal and Orthonormal sets	Applying	Analytical	Assignment

Programme	Course Code	Title
B.Sc. Mathematics	18MAU22	DSC XVII: Complex Analysis

Preamble: This course helps the students to develop their problem solving skills in complex number system, complex function, complex differentiation and Integration, Taylor's series Expansion, Laurent's series expansion and Residues of complex functions**.**

Expected level of output: **Conceptual and Analytical Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the concepts of Complex Numbers, Analytic functions, Harmonic Mapping and Conformal Mapping	Understanding	Conceptual	Quiz
CO2	Able to develop the knowledge about the elementary transformations and bilinear transformations	Applying	Analytical	Group Assignment
CO3	Able to know a deep knowledge about the complex differentiation and Integration	Applying	Analytical	Poster Presentation
CO4	Able to Understand expansion of Taylor's series, Laurents's Series. Also understand the concepts of Riemann's theorem, Cauchy's Theorem, Rouche's Theorem	Applying	Analytical	Writing Skill

Programme	Course Code	Title
B.Sc. Mathematics	18MAU23	DSE IIII: Operations Research

Preamble: on the completion of the course, the student will be able to provide necessary input for optimum utilization of resources by employing Operations Research Techniques

Expected level of output: **Conceptual Level**

Department offered: **Mathematics**

Prerequisites: **A pass in HSC**

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to recall basic terms and definitions in Operations Research	Remembering	Conceptual	Poster Presentation
CO2	Able to explain the different types and methods for finding solution and their basic applications in practice	Understanding	Conceptual	Simulation exercises
CO3	Able to make use of different quantitative models in solving business problems	Applying	Analytical	Case study

Programme	Course Code	Title
B. Sc Microbiology	18MBU08	Environmental and Agricultural Microbiology

Preamble :To enable the student to understand the Ecosystem, Natural Cycle Diversity and the role of Microbes in Environment.

Expected level of output : Conceptual Level

Department offered : Microbiology

Prerequisites :Basic knowledge on Environmental science &Microbial metabolism

Course Outcomes : After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the various types of air borne infections, air pollutions	Remember	Conceptual	Class Presentation
CO2	To analyze the quality of water, indicator organisms and identification of contaminants	Analyze	Conceptual	Simulation Exercise
CO3	To remember the soil microbiology, bio- geo cycle, recycling and biodegradation	Remember	Conceptual	Poster Presentation
CO4	To apply the environmental institutions, policies, acts and laws	Apply	Conceptual	Self Supporting Assignment

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Programme	Course Code	Title
B.Sc. Microbiology	**18MBU09**	**Food and Industrial Microbiology**

Preamble : To enable the students to be aware of the role of Microorganisms in food and environment and the Application of microbes in industries

Expected level of output : Conceptual Level

Department offered : Microbiology

Prerequisites : Basic knowledge on Microbiology & food borne infections

Course Outcomes : After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the principles of food preservation, contamination and spoilage	Remember	Conceptual	Class Presentation
CO2	To analyze the biology of food borne infection and good manufacture practices	Analyze	Conceptual	Simulation Exercise
CO3	To remember the types of strain improvement, fermenters and production of various metabolites	Remember	Conceptual	Poster Presentation
CO4	To apply the quality assurance and sanitation in bio industry	Apply	Conceptual	Self Supporting Assignment

Programme	Course Code	Title
B. Sc Biotechnology/ B. Sc Microbiology	18BSU06	Ayurveda

Preamble: To impart knowledge on Ayurveda and its connection with Modern Biology.

Expected level of output: Conceptual Level

Department offered: Microbiology

Prerequisites: Basic knowledge on Biology

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the fundamental concepts of Ayurveda and its relation with microbiology.	Understand	Conceptual	Technical presentation/ Demonstration
CO2	To understand theayurvedic terms of food and food safety.	Understand	Conceptual	Group Assignment
CO3	To remember the genetic, immunological andpharmacogenomics concepts of Ayurveda.	Remember	Conceptual	Writing skills
CO4	To remember the types and regulations in ayurvedic medicine	Remember	Conceptual	Poster Presentation

Programme	Course Code	Title
B. Sc Biotechnology/ B. Sc Microbiology	**18BSU07**	**Bionanotechnology**

Preamble :To provide knowledge in the current field of Bionanotechnology and latest trends in Nano level application of Bionano particles in the medical field.

Expected level of output: Conceptual Level

Department offered: Microbiology

Prerequisites: Basic knowledge on Biology

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the essential features of biology and nanotechnology that are converging to create the new area of bionanotechnology	Understand	Conceptual	Class presentation
CO2	To recognize the structural and functional principles of bionanotechnology	Understand	Conceptual	Simulation Exercise
CO3	To employ bionanomaterials for analysis and sensing techniques	Understand	Conceptual	Poster Presentation
CO4	To apprehend and explain the biomedical applications of nanotechnology	Understand	Conceptual	Self Supporting Assignment

Programme	Course Code(s)	Title
B.Sc. Microbiology	**18MBU10**	**Lab in Environmental, Agricultural, Food and Industrial Microbiology**

Preamble : To provide basic practical skills on Environmental, agricultural, food and industrial microbiology

Expected Level of Output : ConceptualLevel

Department offered : Microbiology

Prerequisites : Basic working Level

Course Outcomes : After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the knowledge about nitrogen fixers and phosphate solublizers.	Apply	Conceptual	Attendance Poster presentation Self supporting assignments
CO2	To gain knowledge about the role of microbiology in food industry	Analyse	Conceptual	
CO3	To gain knowledge on application of microbiology in industries.	Apply	Conceptual	
CO4	To understand the protocol for isolating algae and bio degrading	Understand	Conceptual	

Programme	Course Code(s)	Title
B.Sc. Microbiology	**18MBU13**	**Medical Bacteriology and Mycology**

Preamble **:** To provide fundamental knowledge about disease caused by Bacteria and Fungi

Expected Level of Output : ConceptualLevel

Department offered : Microbiology

Prerequisites : Basic knowledge about bacteria andFungi

Course Outcomes **:** After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand sources and types of microbial infections	Remember	Conceptual	Class presentation
CO2	To gain knowledge on the bacterial infections, their diagnosis and treatments	Understand	Conceptual	Simulation Exercise
CO3	To gain knowledge on the fungalinfections, their diagnosis and treatments	Understand	Conceptual	Poster presentation
CO4	To understandthe role of antibiotics in curing the bacterial and fungal infections	Analyse	Conceptual	Self Supporting Assignment

Programme	Course Code(s)	Title
B.Sc Microbiology	**18MBU14**	**Lab in Medical Microbiology**

Preamble : To provide basic practical skills on medical microbiology

Expected Level of Output : Conceptual Level

Department offered : Microbiology

Prerequisites : Basic working level

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Knowledge about collection and transport of clinical specimens.	Apply	Conceptual	Attendance Poster presentation Self supporting assignments
CO2	To gain knowledge on detection of bacterial and Fungal and protozoan Infections.	Analyse	Conceptual	
CO3	To gain knowledge on infections and Sensitivity of antibiotics.	Analyse	Conceptual	
CO4	To understand the protocol of viral cultivation	Understand	Conceptual	

Programme	Course Code(s)	Title
B. Sc Biotechnology/ B. Sc Microbiology	**18BSU08**	**Lab in Biocomputing**

Preamble : To enable studentsto use available software for sequence alignment, secondary structure prediction and molecular graphics tools understand the principle behind algorithms methods and cluster analysis

Expected Level of Output: Practical Level

Department offered: Bioinformatics

Prerequisites: Basic working level

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To retrieve the Biological databases	Evaluate	Conceptual	Attendance Poster presentation Self supporting assignments
CO2	To retrieve the sequence similarity searches. – Blast	Evaluate	Conceptual	
CO3	To analysis the structure of DNA and protein	Evaluate	Conceptual	
CO4	To Visualize the DNA and Protein structure	Evaluate	Conceptual	

Programme	Course Code(s)	Title
B. Sc Biotechnology/ B. Sc Microbiology	**18BSU09**	**Molecular Diagnosis**

Preamble :To impart knowledge on DNA based techniques to diagnose the diseases

Expected Level of Output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on Biology

Course Outcomes : After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the importance of diagnosis of disease through gene analysis	Remember	Conceptual	Class Presentation
CO2	To understand DNA sequencing methods and identification of diseases	Understand	Conceptual	Case Study
CO3	To understand the basis of hereditary and prenatal diseases and diagnosis	Understand	Conceptual	Technical Presentation/ Demonstration
CO4	To understand and analyze the application of real time PCR and DNA based tests for identification of genetic disorders	Analyze	Conceptual	Group Assignment

Programme	Course Code(s)	Title
B. Sc Microbiology	**18MBU16**	**Medical Virology and Parasitology**

Preamble : To provide fundamental knowledge about the diseases caused by viruses and parasites

Expected Level of Output : Conceptual Level

Department offered : Microbiology

Prerequisites : Basic knowledge about Virus andParasites

Course Inputs : After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the various types of viral infections and host interactions	Remember	Conceptual	Technical Presentation
CO2	To understand the biology of the virus, life cycles, epidemiology, clinical features, laboratory diagnosis, treatment and prevention of human viral infections.	Understand	Conceptual	Writing Skills
CO3	To understand the parasitic infections of humans especially those caused by protozoa and helminthes.	Understand	Conceptual	Group Assignment
CO4	To understand the biology of the parasites, life cycles, epidemiology, clinical features, laboratory diagnosis, treatment and prevention of human parasitic infections.	Understand	Conceptual	Poster Presentation

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS21	Mobile Technology

Preamble : To acquire knowledge in the basic concepts of mobile computing, the working principles of GSM,3G,4G and various Mobile Computing concepts to develop skills and to know how to develop the mobile content Applications.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Basic concepts of mobile computing

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the basics of mobile computing.	Understand	Communication	Class Presentation
CO2	Able to understand the Bluetooth, RFID & GSM.	Understand	Technical	Poster Presentation
CO3	Able to understand SMS & GPRS	Understand	Analytical	Simulation Exercises
CO4	Explain about WAP, CGMA, 3G Networks, 4G, Research issues and WLAN.	Apply	Managerial	Self-Support Assignments

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS)	**18CSS26**	**Artificial Intelligence**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Artificial Intelligence concepts and its application. It also enables the students to solve problems using application of AI

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Knowledge about data structures and algorithms

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the various characteristics of Artificial Intelligence and Intelligent agents.	Understand	Communication	Writing Skill
CO2	Able to learn to represent knowledge in solving AI problems.	Analyze	Technical	Technical Presentation
CO3	Able to understand the various Knowledge representation of AI.	Apply	Managerial	Group Assignments
CO4	Able to learn the different ways of Learning from observation.	Analyze	Technical	Poster Presentation
CO5	To know about the various applications of AI and Exhibit working knowledge in PROLOG.	Create	Technical	Poster Presentation

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Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS28	DATA MINING

Preamble : The main objective of the course is to introduce the Various data mining task, algorithms and models .It provides understanding about data mining, issues in data mining,
classification, clustering and association rules.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Basic understanding of Database Management System

Course Outcome : On successful completion of the course, students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to remember the basic data mining task, models and issues on implementation.	Remember	Communication	Writing skills
CO2	Able to understand the idea on techniques of data mining and how it is used in various concepts.	Understand	Technical	Technical presentation
CO3	Able to understand the concepts of data warehouse.	Understand	Technical	Poster presentation
CO4	Able to implement the concept of Classification clustering in various data mining concept.	Apply	Managerial	Group assignments
CO5	Able to implement the concept of Association Rules in various data mining Application	Apply	Managerial	Group assignments (Algorithm implementation Data sets)

Programme	Course Code	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	**18SAU01**	**Programming in C#.Net**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Visual C#.Net and its Applications.

Expected Level of Output : Conceptual Level.

Department Offered : Computer Science and Applications

Course Outcome : On Successful Completion of the course, Students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Able to understand the Environment of Visual Studio basics of Object Oriented Programming Language.	Understand	Communication	Class Presentation
CO2	Able to Understand the concept of Classes and Objects, Values and Reference, Enumeration and Arrays.	Analyze	Managerial	Group-Mini Project
CO3	Able to understand the concepts of ASP.NET and XML Services	Apply	Technical	Poster Presentation
CO4	Able to Understand the Concept of Windows forms, Web forms and Accessing data through ADO.NET .	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CAU01	Computer Graphics Using Flash

Learning Outcome : On Successful completion of this study students will gain the basics knowledge on computer graphics with flash and implement certain aspect of computer graphics algorithm.

Expected Level of Output : Conceptual Level

Department offering : BCA

Prerequisites : Programming and problem solving

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand about contemporary graphics hardware.	Understand	Communication	Class Presentation
CO2	Comprehend the concept of geometric, mathematical and algorithmic necessary for programming computer graphics concepts	Understand	Managerial	Group mini project
CO3	Write program functions to implement graphics primitives.	Apply	Technical	Poster Presentation
CO4	Understand and to demonstrate 2D and 3D image processing techniques using animation software	Apply	Managerial	Self Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SSU03	Linux Programming

Preamble : This study gives an overview on the history of Linux, its features and architecture, installation of Linux workstation, performing configuration, usage of Linux system, administer users and groups, to develop and use shell scripts and to set up different network services.

Expected Level of Output : Conceptual Level

Department Offered : Software Systems

Prerequisite : Understanding the model of organization of a system and the structure of the data that is processed by the system.

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concept of UNIX and Linux installation.	Remember	Communication	Class Presentation
CO2	Able to understand the concept of managing the files with directories.	Understand	Managerial	Group - Mini Project
CO3	To Apply the concept of security in files and conditional execution using Shell Script.	Apply	Technical	Poster Presentation
CO4	Able to Apply the concept of backup, recovery and compression in files	Apply	Managerial	Self-Supporting Assignment
CO5	Able to understand the concept of basic networking commands in Linux	Understand	Managerial	Self-Supporting Assignment

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Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SAU02	Practical - Programming Lab - C#.Net

Preamble : It enables the students to do the projects and solve the Applications using Visual **C#.**Net Environment

Expected Level of Output : Conceptual Level

Department offered : Computer Science and Applications

Prerequisites : Basics of programming language.

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO 1	Understand the execution flow of the using classes, objects , basics of Oops and control structure	Understand	Technical	Poster Presentation
CO 2	Understand the Concept of Array of Structures ,Exception handling.	Understand	Technical	Poster Presentation
CO 3	Apply the concept of Windows applications, Working with Menu Editor Functions.	Apply	Managerial	Self Supporting Assignments
CO 4	Apply the concept of Web forms ,Validation Control.ADO.NET Property	Apply	Managerial	Self Supporting Assignments

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Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CAU02	Practical – Programming Lab- Computer Graphics Using Flash

Preamble : On successful completion of this course the students Willacquire application knowledge using Animation Software's.

Expected Level of Output : Basic working Level

Department offered : BCA

Prerequisites : Fundamental programming knowledge

Course Outcomes : On successful completion of the course, students will be able to

CO	Description	Bloom's Verb	Skill	CIA –Capstone
CO1	Understand the implementation and execution of drawing primitives line and circle	Create	Managerial	Miniatures
CO2	Apply the flash tools and menus required for drawing images and animating them.	Apply	Technical	Poster Presentation
CO3	Apply flash tools to create 3D animated objects	Apply	Technical	Poster Presentation
CO4	Apply flash tools to create album and webpage using action script, button and links	Apply	Managerial	Self-Support Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18SSU04	Practical – Programming Lab-Linux

Preamble : To enable the students to acquire basic knowledge in Linux Programming and to construct programs by their own.

Expected Level of Output : Basic Working Level

Department Offered : Software Systems

Prerequisite : To demonstrate the basic knowledge of Linux commands and file handling Utilities by using Linux shell environment

Course Outcomes : On successful completion of the course, students will be able to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concept of Linux Commands	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of files with directories.	Understand	Technical	Poster Presentation
CO3	To Apply the concept of File Access and Conditional execution using Shell Script.	Apply	Managerial	Self Supporting Assignment
CO4	To Apply the concept of Scheduling and background process	Apply	Managerial	Self Supporting Assignment
CO5	Able to understand the concept of basic networking commands and File Transfer.	Understand	Managerial	Self Supporting Assignment

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	**18CSS22**	**Practical – Excel Macro Lab**

Preamble : To enable the students to construct spread sheet using VBA Constructs and to perform various macro functions available in spread sheet.

Expected Level of Output : Basic Working Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand the basic tools of Excel Macro	Understand	Technical	Poster Presentation
CO2	Analyze the different application using Macro Tools	Apply	Managerial	Self-Supporting Assignments
CO3	Apply different Excel macro objects on different applications	Apply	Managerial	Self-Supporting Assignments

Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS19	System Modelling using UML

Preamble : On successful completion of this subject the students can learn the concept of Object Oriented software development process and to get acquainted with UML diagrams.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisite : To Understand the Relation with Object Oriented Analysis and Design

Course Outcome : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concepts of Object-Oriented System Development Life Cycle.	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of DFD and ERD	Understand	Communication	Class Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Managerial	Group - Mini Project
CO4	Able to Apply the concept of use case diagram, collaboration and activity diagram	Apply	Managerial	Self Supporting Assignment
CO5	Acquire the knowledge about design and software quality.	Analyze	Managerial	Self Supporting Assignment

Programme	Course Code(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS20	Practical -Programming lab- System Modelling using UML

Preamble : To enable the students to learn and draw various UML diagrams.

Expected Level of Output : Basic working Level

Department Offered : Computer Science/ Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisite : To Understand basic knowledge of object modelling

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To remember the basic concepts of Classes and Objects.	Remember	Managerial	Self- Support Assignment
CO2	To understand the concept of DFD and ERD.	Understand	Technical	Poster Presentation
CO3	To understand the concept of UML Diagrams.	Understand	Technical	Poster Presentation
CO4	Able to Apply the concept of sequence diagram and activity diagram	Apply	Technical	Poster Presentation
CO5	Able to Apply the concept of collaboration and Use Case diagram	Apply	Managerial	Self- Support Assignment

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS27	Data Analysis using R

Preamble : On completion of this course, students will be able to understand the basics of R programming, fundamental data types, control structures, packages, to code and debug the program

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application / Computer Science and Applications /Software Systems

Prerequisites : Programming Concepts

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	To Understand the Basics of R Programming	Understand	Communi cation	Writing Skills
CO2	To Understand the concepts of Lists, Data Frames and Object Oriented Programming concepts such as Objects and Classes.	Understand	Technical	Technical Presentation
CO3	To Apply Mathematical and Statistical Concepts in R	Apply	Technical	Poster Presentation
CO4	To Apply the basic Plot functions in R	Apply	Analytical	Simulation Exercises

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Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS29	Practical-Programming Lab - R

Preamble : To acquire basic knowledge in R programming and how to use R for effective data analysis.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Information Technology / Computer Application / Computer Science and Applications /Software Systems

Prerequisites : Basic working Level

Course Outcomes : On successful completion of the course, students will be able to,

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand the execution of the Vectors	Understand	Technical	Technical Presentation
CO2	Recognize the application of Lists and its types	Apply	Technical	Poster Presentation
CO3	Apply Data frames in R Programming	Apply	Technical	Technical Presentation
CO4	Apply CSV files concepts to import in R Programming	Apply	Technical	Poster Presentation

Programme	Course Code(s)	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT / BCA/B.Sc CSA/B.Sc SS	18CSS31	Data Science Lab Using Weka Tool

Preamble : This course has two credits dedicated to provide the students learning about certain data mining methods and algorithms, accessible through open source machine learning workbench Weka.

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology/Information Technology / Computer Application /Computer Science and Applications /Software Systems

Prerequisites : Higher Secondary Level

Course Outcomes **:** On Successful Completion of the course, Students will be

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	In this laboratory, students will implement the various Data Warehousing and Data Mining concepts WEKA	Understand	Technical	Poster Presentation
CO2	Develop various real time applications using data mining techniques.	Analyze	Managerial	Self Supporting Assignment
CO3	Test the developed code using Weka	Apply	Technical	Poster Presentation

CRITERIA II STUDENT PERFORMANCE AND LEARNING OUTCOMES

2019 Batch – III & IV Semester

Programme	Course Code	Title
B.Sc Psychology	19PSU07	Social Psychology

Preamble : Psychology students should have an in-depth knowledge about various social concepts and mental health.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn the basic concepts of various disorders in life	Understand	Conceptual	Writing skill
CO2	To learn about various strategies and maladaptive behaviors	Understand	Conceptual	Group Assignment
CO3	To gain knowledge about the Anxiety disorders with its effects and treatment	Understand	Conceptual	Group Assignment
CO4	analyze the effects of negative moods and prevention of suicide	Analyze	Analytical	Writing skill
CO5	Analyze the views of sexual behaviours, disorders, personality disorders and its treatment	Analyze	Conceptual	Poster Presentation/Flowchart/ Miniature/Protocol

Programme	Course Code	Title
B.Sc Psychology	**19PSU08**	**Industrial Psychology**

Preamble : Psychology students should have basic knowledge in concepts of industrial psychology

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	The nature and scope of industrial psychology.	Understand	Conceptual	Writing skills
CO2	The Need & theories of motivation and importance of job satisfaction.	Understand	Conceptual	Group Assignment
CO3	The nature of job analysis and the process involved in personnel selection.	Understand	Conceptual	Group Assignment
CO4	The various methods of training and performance appraisal.	Apply	Application	Writing skill
CO5	The importance of work environment and the concept of ergonomics.	Remember	Conceptual	Group Assignment

Programme	Course Code	Title
B.Sc Psychology	**19GEU81**	**Educational Psychology**

Preamble : Psychology students should have basic knowledge of educational psychology, such as teaching how to learn and need to apply educational research to teaching practice.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concept of educational psychology	Understand	Conceptual	Writing
CO2	To learn about cognitive and language development	Remember	Conceptual	Group assignment
CO3	To explain about various theories of intelligence and learning	Apply	Application	Technical Presentation or demonstration
CO4	To understand the concept of information processing approach	Understand	Conceptual	Poster Presentation/Flowchart/ Miniature/Protocol
CO5	To learn about different disorders among children	Remember	Conceptual	Poster Presentation/Flowchart/ Miniature/Protocol

Programme	Course Code	Title
B.Sc Psychology	**19PSU10**	**Abnormal Psychology-1**

Preamble : Psychology students should have an in-depth knowledge about various disorders and its associative treatments

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	learn the basic concepts of various disorders in life	Understand	Conceptual	Writing skill
CO2	To learn about various strategies and maladaptive Behaviours	Understand	Conceptual	Group Assignment
CO3	To gain knowledge about the Anxiety disorders with its effects and treatment	Understand	Conceptual	Group Assignment
CO4	To analyze the effects of negative moods and prevention of suicide	Understand	Conceptual	Writing skill
CO5	Analyze the views of sexual behaviours, disorders, personality disorders and its Treatment	Understand	Conceptual	Poster Presentation/Flowchart/ Miniature/Protocol

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Programme	Course Code	Title
B.Sc Psychology	**19PSU09**	**Experimental Psychology – III**

Preamble : To disseminate the concepts in specific core areas and their practical assessment techniques

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn the concepts in the selection process of industrial assessment	Understand	Technical	Technical Presentation/ Demonstration
CO2	Learn to know the practical assessment tools applied in the industrial setup	Apply	Technical	Simulation exercises
CO3	Learn the symptoms of the clinical disorders with its associated assessment	Remember	Technical	Technical Presentation/ Demonstration
CO4	Learn to assess the behavioural pattern of the individual	Apply	Technical	Simulation exercises
CO5	Learn to assess the influence of physical health on mental health	Apply	Technical	Technical Presentation/ Demonstration

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Programme	Course Code	Title
B.Sc Psychology	**19PSU11**	**Experimental Psychology – IV**

Preamble : To disseminate the concepts in specific core areas and their practical assessment techniques.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn to assess the psychomotor abilities of the individuals that results in behaviour	Apply	Technical	Technical Presentation/ Demonstration
CO2	Learn to assess the Sensory and perceptions of the individuals	Apply	Technical	Simulation exercises
CO3	Learn the concepts in the selection and practical tools to assess the individuals in the industrial setup	Apply	Technical	Technical Presentation/ Demonstration
CO4	Learn to understand the higher mental process of the individual and assess the cognitive abilities.	Apply	Technical	Simulation exercises
CO5	Learn to assess the behaviours that requires clinical assistance	Apply	Technical	Technical Presentation/ Demonstration

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Programme	Course Code	Title
B.Sc. (Psychology)	19PSU12	DSE III – Optional I Health Psychology

Preamble : Psychology students should have basic knowledge in health and the factors that affects the same.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To acquire knowledge about the health and its importance.	Understanding	Conceptual	Writing skills
CO2	To acquire knowledge about the health belief and importance of being healthy.	Understanding	Conceptual	Group Assignment
CO3	To understand the health enhancement and compromising behavior.	Understanding	Conceptual	Group Assignment
CO4	To acquire knowledge about pain management and chronic health disorders	Understanding	Conceptual	Writing skill
CO5	To understand the psychological interventions and about terminal illness	Understanding	Conceptual	Poster Presentation /Flowchart/Miniature /Protocol

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Programme	Course Code	Title
B.Sc. (Psychology)	19PSU13	DSE III – Optional II Psychology and Law

Preamble : Psychology students should have an in-depth knowledge about various mental health law and its associative policies

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn the basic concepts of Systematic nature of law-Classification of legal system with its theories	Understanding	Conceptual	Writing skill
CO2	To learn about various Legal Theories of Workplace discrimination; Legal relief and remedies, Racisms and Law	Understanding	Conceptual	Group Assignment
CO3	To gain knowledge about Legislations related to Mental Health Constitution of India	Understanding	Conceptual	Group Assignment
CO4	analyze Crime related to Children and Education system: Juvenile Justice Act	Understanding	Conceptual	Writing skill
CO5	Analyze Psycho-legal issues and services and the role of psychologists	Understanding	Conceptual	Poster Presentation/ Flowchart/ Miniature/ Protocol

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Programme	Course Code	Title
B.Com / B.Com(CA) /B.Com(IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com(A&F)/ B.Com BI/B.Com RM/ B.Com E.Com/ B.Com BA/B.Com (CS)	**19CUG06**	**DSC- V - Corporate Accounting**

Preamble : Commerce students should have basic knowledge of N

Corporate accounting concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and Calculation of Purchase consideration, alteration of share capital , internal reconstruction, capital reduction and procedure for capital reduction.	Understanding	Analytical	Self Support Assignment
CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

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Programme	Course Code	Title
B.Com CA / B.Com IT/ B.Com(E-Com)/B.Com CS	**19CUG40**	**DSC - IV - Cyber Law**

Preamble : To initiate the students to learn about Cyber Law.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the meaning of cyber law and cyber space	Understanding	Conceptual	Poster Presentation
CO2	To be aware of cyber crime investigation	Remembering	Conceptual	Class Presentation
CO3	To understand the concepts of jurisdiction	Understanding	Conceptual	Self support assignments
CO4	To understand e – contracts and its types	Understanding	Conceptual	Group Mini Project

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Com(CS)	19CST02	Workshop On Corporate Practice

Preamble : To know and Practice about the Legal document used in the Business Organization

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Procedure for Tax Filing of Individual, procedure of preparing lease agreements and procedure for conducting Annual general Meeting. Relevant documents to be fill up in this regard.	Understanding	Analytical	Self Support Assignment
CO2	To understand the tax forms to be filled up in the business the method of preparing the share allotment register as per Companies Act.	Understanding	Analytical	Class Presentation
CO3	To understand the procedure for taking permanent Account Number and to borrow loan from financial institutions.	Understanding	Analytical	Class Presentation
CO4	To understand the procedure for Online trading account and preparing Audit Programme.	Understanding	Analytical	Self Support Assignment
CO5	To draft the procedure for applying Online Banking and Internet Actives	Understanding	Analytical	Self Support Assignment
CO6	To understand how to draft a model Annual Report (With Director Speech).	Understanding	Analytical	Self Support Assignment

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Programme	Course Code	Title
B.Com/B.Com (A&F)/B.Com (CS)	19CUG09	DSC-VII - Principles of Management

Preamble : This course offers the detailed knowledge about Principles of management in business

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the overview of basic principles and organizational activity in management.	Understanding	Conceptual	Technical Presentation
CO2	To know about the planning process and tools of management.	Understanding	Conceptual	Group Assignment
CO3	To understand in detail about organizing process in management structure.	Understanding	Conceptual	Poster Presentation
CO4	To know the directing and motivational techniques in management.	Understanding	Conceptual	Technical Presentation
CO5	To understand about controlling and budgetary techniques in management.	Understanding	Conceptual	Writing skills

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Programme	Course Code	Title
B.Com /B.Com (CA)/B.Com (A&F)/ B.Com (B&I)/ B.Com(CS)	19CUG10	DSC – VIII - Company Law and Secretarial Practice

Preamble : Commerce students should have basic knowledge of Business System concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic knowledge about company law. Commencement of business, Certificate of Incorporation, Memorandum and Articles of association.	Remembering	Conceptual	Technical Presentation
CO2	To understand the enterprises with share capital, size of the share capital and key managerial personnal of the company.	Remembering	Conceptual	Group Assignment
CO3	To understand the concept of Prospectus and powers of SEBI and criminal and civil liability, management &administration to view the corporate social responsibility.	Understanding	Conceptual	Writing skill
CO4	To understand the corporate governance and wealth creation management with distribution. Company secretary functions and secretarial standards with prevention of oppression and management.	Understanding	Conceptual	Group Assignment
CO5	To understand the winding up of a company and legal provisions and dissolution of a company. Conduct of winding up. With payment of liabilities and submission of report.	Understanding	Conceptual	Poster presentation

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(A&F)/B.Com(BI)/B.Com(BA)/ B.Com(CS)/BBA/BBA(CA)/B.Sc.(ISM)	**19GEU57**	**GEC-III - Managerial Economics**

Preamble : To provides an overall introduction to economics as dealing with the problems of allocation of scarce resources in optimum manner

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of managerial economics

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	Group Assignment
CO3	Students can be familiar with production function	Understanding	Conceptual	Writing Skills
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills
CO5	Students able to take price and output decisions under different market structures	Understanding	Conceptual	Poster Presentation

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com (BPS) /B.Com (A& F)/ B.Com(CS)	**19CUG11**	**DSC-IX - Cost Accounting**

Preamble : Familiarizing the students with cost concepts and to make the students learn the fundamentals of cost accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about the basic concepts of cost accounting and details the Installation, Methods and Techniques of cost accounting and cost analysis	Understand	Conceptual	Case study
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	Simulation Techniques
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Poster Presentation
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	Poster Presentation
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	Analytical	Self Support Assignment

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Programme	Course Code	Title
B.Com / B.Com (CA) / B.Com(IT)/ B.Com(BPS)/ B.Com(A&F) B.Com(CS)	**19CUG12**	**DSC-X - Management Accounting**

Preamble : To initiate the students to learn about Management Accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Fundamentals of Financial Accounting and Cost Accounting.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the nature and scope of Management accounting and Types of Financial Statement Analysis.	Understanding	Conceptual	Self Supporting Assignment
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	Case study
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Simulation Exercise
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	Poster Presentation
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Simulation Exercise

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com(BPS)/ B.Com(CM)/B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG13**	**DSC -XI - Goods and Services Tax**

Preamble : To provides fundamental knowledge about goods and services tax

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of goods and service taxes

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of goods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registration under goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit under GST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E-way bill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com (E.Com)/ B.Com(RM)/ B.Com (BA)/ B.Com (CS)	**19CUG14**	**DSC Practical – IV Computerized Accounting - Practical**

Preamble : This Course helps the students to gain well versed knowledge in Digitized accounting

Expected level of output : Working Level

Department offered : Commerce

Prerequisites : Fundamentals of Financial Accounting and Cost Accounting.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the various goods and various location of the country and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self Support Assignment
CO5	To Prepare payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Games

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Programme	Course Code	Title
B.Com / B.Com (CA / IT / A&F BA / CS / BI)	19GEU76	GEC- IV - Marketing Management

Preamble : Students will be able to explain basic marketing concepts, analyze the marrketing environment, segments and channels.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Know the concept of Marketing Management along with its Process and Market Segmentation	Understanding	Conceptual	Poster Presentation
CO2	Demonstrate on Promotional Strategy and Advertising Media.	Understanding	Conceptual	CIA
CO3	To Outline the Promotional Strategy and Sales Promotion activities	Understanding	Conceptual	DIA
CO4	To summarize Customer Relationship and Social Media	Remembering	Conceptual	Model

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Programme	Course Code	Title
B.Com / B.Com(CA) /B.Com(IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com(A&F)/ B.Com BI/B.Com RM/ B.Com E.Com/ B.Com BA/B.Com (CS)	**19CUG06**	**DSC- V - Corporate Accounting**

Preamble : Commerce students should have basic knowledge of Corporate accounting concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and Calculation of Purchase consideration, alteration of share capital , internal reconstruction, capital reduction and procedure for capital reduction.	Understanding	Analytical	Self Support Assignment
CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

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Programme	Course Code	Title
B.Com CA / B.ComIT/ B.Com(E-Com)/B.Com CS	**19CUG40**	**DSC- VII: Cyber Law**

Preamble : To initiate the students to learn about Cyber Law

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the meaning of cyber law and cyber space	Understanding	Conceptual	Poster Presentation
CO2	To be aware of cyber crime investigation	Remembering	Conceptual	Class Presentation
CO3	To understand the concepts of jurisdiction	Understanding	Conceptual	Self support assignments
CO4	To understand e – contracts and its types	Understanding	Conceptual	Group Mini Project

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com (BPS) /B.Com (A& F)/ B.Com E Com/ B.Com(CS)	19CUG44	DSC-IX - Cost and Management Accounting

Preamble : Familiarizing the students with cost concepts and to make the students learn the fundamentals of cost accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about the basic concepts of cost accounting and details the Installation, Methods and Techniques of cost accounting and cost analysis	Understand	Conceptual	Case study
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	Simulation Techniques
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Poster Presentation
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	Poster Presentation
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	Analytical	Self Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com(BPS)/ B.Com(CM)/B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG13**	**DSC -XI - Goods and Services Tax**

Preamble : To provides fundamental knowledge about goods and services tax

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of goods and service taxes

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of goods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registration under goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit under GST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E-way bill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com (E.Com)/ B.Com(RM)/ B.Com (BA)/ B.Com (CS)	**19CUG14**	**DSC Practical – IV Computerized Accounting - Practical**

Preamble : This Course helps the students to gain well versed knowledge in Digitized accounting

Expected level of output : Working Level

Department offered : Commerce

Prerequisites : Fundamentals of Financial Accounting and Cost Accounting.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the various goods and various location of the country and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self Support Assignment
CO5	To Prepare payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Games

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Programme	Course Code	Title
B.Com(RM)/ B.Com (E.Com)	19GEU63	Business Law

Preamble : To develop an understanding of significant provisions of select business laws.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the basic concept of taxes

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concept of Indian Contract Act and consideration with essential elements	Understand	Conceptual	Group Assignments
CO2	To know about the sale of goods conditions, delivery and warranties with certain formation	Understand	Conceptual	Writing Skills
CO3	To evaluate the general nature of partnership with rights and duties of partners	Understand	Conceptual	Poster Presentation
CO4	To recognize the limited liability partnership with other firms	Understand	Conceptual	Demonstration
CO5	To understand the legal deeds and documents	Understand	Conceptual	Technical Presentation

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Programme	Course Code	Title
B.Com / B.Com(CA) /B.Com(IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com(A&F)/ B.Com BI/B.Com RM/ B.Com E.Com/ B.Com BA/B.Com (CS)	**19CUG06**	**DSC- V - Corporate Accounting**

Preamble : Commerce students should have basic knowledge of Corporate accounting concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and Calculation of Purchase consideration, alteration of share capital , internal reconstruction, capital reduction and procedure for capital reduction.	Understanding	Analytical	Self Support Assignment
CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

Programme	Course Code	Title
B.Com(A&F)	19CUG07	DSC- VI - Financial Management

Preamble : This course offers the detailed knowledge about Financial Management in Business

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the phenomenon of Financial Management, Objectives , Methods, Importance, Financial decisions , Relationship between Risk and Return, Functions of a finance Manager	Understanding	Conceptual	Group Assignment
CO2	Able to prepare Cost of capital , Concept, Importance , Classifications Determination of cost of capital, Time Value of Money, Concept of value and return, Compounding and Discounting techniques.	Understanding	Conceptual	Technical Presentation
CO3	Able to understand Source of finance, Classification-needs for source of finance , Capital Structure ,Importance, Optimal Capital Structure, Theories of Capital Structure, net income and operating Approach .	Understanding	Conceptual	Group Assignment
CO4	Able to understand Capital budgeting Process, Methods of Capital budgeting, Traditional and Time –adjusted Methods.	Applying	Conceptual	Writing Skills
CO5	Able to prepare Meaning and Types, Impact of Financial leverage, Degree of Financial leverage, MM and Walter's approach, Forms of dividend policy	Applying	Conceptual	Poster Presentation

Programme	Course Code	Title
B.Com/ B.Com(PA)/ B.Com(A&F)	**19CUG08**	**DSC Practical – III - Spreadsheet –Practical**

Preamble : Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	Self-Support Assignment
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Self-Support Assignment
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Poster presentation

Programme	Course Code	Title
B.Com/B.Com (A&F)/B.Com (CS)	19CUG09	DSC-VII - Principles of Management

Preamble : This course offers the detailed knowledge about Principles of management in business

Expected level of output : Conceptuall Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the overview of basic principles and organizational activity in management.	Understanding	Conceptual	Technical Presentation
CO2	To know about the planning process and tools of management.	Understanding	Conceptual	Group Assignment
CO3	To understand in detail about organizing process in management structure.	Understanding	Conceptual	Poster Presentation
CO4	To know the directing and motivational techniques in management.	Understanding	Conceptual	Technical Presentation
CO5	To understand about controlling and budgetary techniques in management.	Understanding	Conceptual	Writing skills

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Programme	Course Code	Title
B.Com /B.Com (CA)/B.Com (A&F)/ B.Com (B&I)/ B.Com(CS)	**19CUG10**	**DSC – VIII - Company Law and Secretarial Practice**

Preamble : Commerce students should have basic knowledge of Business System concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic knowledge about company law. Commencement of business, Certificate of Incorporation, Memorandum and Articles of association.	Remembering	Conceptual	Technical Presentation
CO2	To understand the enterprises with share capital, size of the share capital and key managerial personnal of the company.	Remembering	Conceptual	Group Assignment
CO3	To understand the concept of Prospectus and powers of SEBI and criminal and civil liability, management &administration to view the corporate social responsibility.	Understanding	Conceptual	Writing skill
CO4	To understand the corporate governance and wealth creation management with distribution. Company secretary functions and secretarial standards with prevention of oppression and management.	Understanding	Conceptual	Group Assignment
CO5	To understand the winding up of a company and legal provisions and dissolution of a company. Conduct of winding up. With payment of liabilities and submission of report.	Understanding	Conceptual	Poster presentation

Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(A&F)/B.Com(BI)/B.Com(BA)/ B.Com(CS)/BBA/BBA(CA)/B.Sc.(ISM)	**19GEU57**	**GEC-III - Managerial Economics**

Preamble : To provides an overall introduction to economics as dealing with the problems of allocation of scarce resources in optimum manner

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of managerial economics

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	Group Assignment
CO3	Students can be familiar with production function	Understanding	Conceptual	Writing Skills
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills
CO5	Students able to take price and output decisions under different market structures	Understanding	Conceptual	Poster Presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com (BPS) /B.Com (A& F)/ B.Com(CS)	**19CUG11**	**DSC-IX - Cost Accounting**

Preamble : Familiarizing the students with cost concepts and to make the students learn the fundamentals of cost accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about the basic concepts of cost accounting and details the Installation, Methods and Techniques of cost accounting and cost analysis	Understand	Conceptual	Case study
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	Simulation Techniques
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Poster Presentation
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	Poster Presentation
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	Analytical	Self Support Assignment

Programme	Course Code	Title
B.Com / B.Com (CA) / B.Com(IT)/ B.Com(BPS)/ B.Com(A&F) B.Com(CS)	**19CUG12**	**DSC-X - Management Accounting**

Preamble : To initiate the students to learn about Management Accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Fundamentals of Financial Accounting and Cost Accounting.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the nature and scope of Management accounting and Types of Financial Statement Analysis.	Understanding	Conceptual	Self Supporting Assignment
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	Case study
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Simulation Exercise
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	Poster Presentation
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Simulation Exercise

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Programme	Course Code	Title
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Preamble : To provides fundamental knowledge about goods and services tax

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of goods and service taxes

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of goods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registration under goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit under GST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E-way bill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com (E.Com)/ B.Com(RM)/ B.Com (BA)/ B.Com (CS)	**19CUG14**	**DSC Practical – IV Computerized Accounting - Practical**

Preamble : This Course helps the students to gain well versed knowledge in Digitized accounting

Expected level of output : Working Level

Department offered : Commerce

Prerequisites : Fundamentals of Financial Accounting and Cost Accounting.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the various goods and various location of the country and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self Support Assignment
CO5	To Prepare payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Games

Programme	Course Code	Title
B.Com(A&F)	19CFU02	DSC – XI - Taxation I

Preamble : To provide basic application knowledge about direct taxes

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about the basic concept of taxes

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income from salaries and house property	Understanding	Applying	Group Assignments
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	Understanding	Applying	Simulation Exercises
CO4	Able to compute total income and tax liability	Understanding	Applying	Poster presentation
CO5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignments

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Programme	Course Code	Title
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Preamble : To acquire knowledge on Corporate Accounting concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the meaning of profit prior to incorporation, and ascertainment of profit prior to incorporation and Preparation of final accounts of companies and calculation of managerial remuneration.	Understanding	Analytical	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and Calculation of Purchase consideration, alteration of share capital , internal reconstruction, capital reduction and procedure for capital reduction.	Understanding	Analytical	Self-Support Assignment

CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

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Programme	Course Code	Title
B.Com(B&I)	19CNU03	Principles of Insurance

Preamble : To acquire knowledge on fundamentals of Insurance concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the meaning and definition of insurance, importance of insurance, benefits of insurance and scope of insurance business.	Understanding	Conceptual	Technical Presentation
CO2	To Understand the life insurance business and classification of life Policies.	Understanding	Conceptual	Group assignment
CO3	To Understand the basics of Marine insurance contract, and marine insurance policies and important clauses.	Understanding	Conceptual	Writing skills
CO4	To Understand the Nature of fire insurance, fundamental principles of fire insurance, types of fire insurance policies and motor vehicle, personal accident policies.	Understanding	Conceptual	Poster Presentation
CO5	To Understand the health and crop insurance and legal framework of insurance and Insurance Regulatory and development Authority (IRDA).	Understanding	Conceptual	Technical Presentation

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Programme	Course Code	Title
B.Com(B&I)	19CNU04	Legal and Regulatory Aspects of Banking

Preamble : To enable the students to understand the legal and regulatory aspects of Banking

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have a conceptual knowledge on the various regulations of the bank.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Recognize the legal framework of the regulation of banks. To narrate the various regulations of payment system and money market instruments.	Understanding	Conceptual	Technical Presentation
CO2	To understand the financial sector legislative reforms and also about the legal compliances associated with the banks.	Understanding	Conceptual	Poster Presentation
CO3	To learn the legal aspects of banking operations like Bank guarantees, Letter of Credit, and the various modes of Charging.	Remembering	Conceptual	Group Assignment
CO4	To Know about the various bank related laws like Negotiable instruments act, Debts recovery tribunal act, and SARFAESI act.	Understanding	Conceptual	Group Assignment
CO5	To understand the commercial laws relating to banking operations like Companies act, Sale of goods act, Partnership act, Right to information act, and Information Technology act	Remembering	Conceptual	Writing Skill

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Programme	Course Code	Title
B.Com /B.Com (CA)/B.Com (A&F)/ B.Com (B&I)/ B.Com(CS)	**19CUG10**	**Company Law and Secretarial Practice**

Preamble : To enable the students to understand the aspects of Company law and practices.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic knowledge about company law. Commencement of business, Certificate of Incorporation, Memorandum and Articles of association.	Remembering	Conceptual	Technical Presentation
CO2	To understand the enterprises with share capital, size of the share capital and key managerial personnel of the company.	Remembering	Conceptual	Group Assignment
CO3	To understand the concept of Prospectus and powers of SEBI and criminal and civil liability, management &administration to view the corporate social responsibility.	Understanding	Conceptual	Writing skill
CO4	To understand the corporate governance and wealth creation management with distribution. Company secretary functions and secretarial standards with prevention of oppression and management.	Understanding	Conceptual	Group Assignment
CO5	To understand the winding up of a company and legal provisions and dissolution of a company. Conduct of winding up.	Understanding	Conceptual	Poster presentation

Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(A&F)/B.Com(BI)/B.Com (BA)/BBA/BBA(CA)/B.Sc.(ISM)	**19GEU57**	**Managerial Economics**

Preamble : To provide an overall introduction to economics as dealing with the problems of allocation of scarce resources in optimum manner.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	Group Assignment
CO3	Students can be familiar with production function	Understanding	Conceptual	Writing Skills
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills
CO5	Students able to take price and output decisions under different market structures	Understanding	Conceptual	Poster Presentation

Programme	Course Code	Title
B.Com CM/B.Com(BI)/ B.Com(E-Com)/ B.Com(RM)/B.Com BA	**19CUG44**	**Cost and Management Accounting**

Preamble : To familiarize the students with the Cost and Management Accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand basic concepts of Cost accounting, Procedure for Installation of Costing System, Preparation of Cost Sheet and Material Control and Issues.	Understanding	Conceptual	Simulation Exercise
CO2	To understand and analyse: Labour Cost and methods. Overhead Methods and Techniques. Calculation of Overheads.	Understanding	Analytical	SSA (Self Support Assignment)
CO3	To understand the Concepts of Management Accounting and the concept of Ratio Analysis.	Applying	Analytical	Case Study
CO4	To analyse the concept of Fund Flow and Cash Flow Statement and Preparation of Fund Flow Statement and Cash Flow Statement.	Applying	Analytical	Poster Presentation
CO5	To understand the concept of Cost-Volume-Profit-Analyse. To identify how to take Managerial Decisions using CVP and Budgetary Control through Various Budgets.	Remembering	Conceptual	Case Study

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Programme	Course Code	Title
B.Com CM/B.Com(BI)/ B.Com(E-Com)/ B.Com(RM)/B.Com BA	**19CUG44**	**Cost and Management Accounting**

Preamble : To familiarize the students with the Cost and Management Accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand basic concepts of Cost accounting, Procedure for Installation of Costing System, Preparation of Cost Sheet and Material Control and Issues.	Understanding	Conceptual	Simulation Exercise
CO2	To understand and analyse: Labour Cost and methods. Overhead Methods and Techniques. Calculation of Overheads.	Understanding	Analytical	SSA (Self Support Assignment)
CO3	To understand the Concepts of Management Accounting and the concept of Ratio Analysis.	Applying	Analytical	Case Study
CO4	To analyse the concept of Fund Flow and Cash Flow Statement and Preparation of Fund Flow Statement and Cash Flow Statement.	Applying	Analytical	Poster Presentation
CO5	To understand the concept of Cost-Volume-Profit-Analyse. To identify how to take Managerial Decisions using CVP and Budgetary Control through Various Budgets.	Remembering	Conceptual	Case Study

Programme	Course Code	Title
B.Com (B&I)	**19CNU05**	**Merchant Banking**

Preamble : Commerce students should have basic knowledge of Merchant Banking concepts and its role in appraisal of projects.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Indian banking system, overview of the Financial system, guidelines of SEBI and Performance in stock market	Understanding	Conceptual	Technical Presentation
CO2	To Understand the Role of Merchant Bankers and various terms in Banking.	Understanding	Conceptual	Poster Presentation
CO3	To Understand the concepts of Mergers and acquisitions and portfolio Management	Understanding	Conceptual	Class Presentation
CO4	To analyze the concepts of Project appraisal	Analyzing	Conceptual	Writing Skills
CO5	To Understand the concepts of Long term finance and Working capital finance.	Understanding	Conceptual	Group Assignment

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Programme	Course Code	Title
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Preamble : To provide fundamental knowledge about goods and service tax

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of goods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registration under goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit under GST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E-way bill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
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Preamble : This course helps the students to gain well versed knowledge in Digitized Accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the various goods and various location of the country and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self-Support Assignment

CO5	To Prepare payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Games
CO6	To Generate GSTR 1 & 2 Report and TDS Report	Apply	Analytical	Games

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Programme	Course Code	Title
B.Com / B.Com (CA / IT / A&F / BA / BI / CS)	19GEU76	Marketing Management

Preamble : Students will be able to explain basic marketing concepts, analyse the marketing environment, segments and channels.

Expected level of output : Conceptual Level

Department offered : Management Science

Prerequisites : Higher Secondary level

Course Outcomes : After successful completion of this course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Know the concept of Marketing Management along with its Process and Market Segmentation	Understanding	Conceptual	Poster Presentation
CO2	Demonstrate on Promotional Strategy and Advertising Media.	Understanding	Conceptual	Self-Support Assignment
CO3	To Outline the Promotional Strategy and Sales Promotion activities	Understanding	Conceptual	Class Presentation
CO4	To summarize Customer Relationship and Social Media	Remembering	Conceptual	Group Mini Project

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Programme	Course Code	Title
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Preamble : Commerce students should have basic knowledge of Corporate accountingconcepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the eaning of profit prior to incorporation, andascertainment of profit prior toincorporation and Preparation offinal accounts of companies and calculation of managerial remuneration.	Understanding	Analytical	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and Calculation of Purchase	Understanding	Analytical	Self Support Assignment

	consideration, alteration of share capital , internal reconstruction, capital reduction andprocedure for capital reduction.			
CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

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Programme	Course Code	Title
B.Com(BPS)	19CBU03	Insurance for BPS

Preamble : To have a thorough knowledge about various types of insurance and it's applications in the real world.

Expected level of output : **Conceptual Level**

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Concept of Risk, Types of Hazard, Characteristics of Insurable Risk, Types of Risks and Risk Management.	Remembering	Conceptual	Class Presentation
CO2	Know the principles and practice of insurance contract and insurance terminologies such as policy provision, ownership rights and Life insurance policy life cycle	Remembering	Conceptual	Class Presentation
CO3	Know the Concept of Annuity and Life Insurance Life Cycle	Analyzing	Technical	Simulation exercises
CO4	Know the Non- Life Insurance Concept such as Property & Casualty Insurance, Two major types of Casualty Understand Non-Life insurance marketstructure in USA	Remembering	Conceptual	Poster Presentation
CO5	To Understand Insurance and Policy servicing process, Underwriting Process and the forms ofRe-insurance and Claim Process and to Understand the various activities of Healthcare Insurance, Healthcare Ecosystem, Healthcare regulations & standards, HIPAA and the concept of Medicare and Medicaid.	Understanding	Conceptual	Poster Presentation

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Programme	Course Code	Title
B.Com (BPS)	19CBU05	Managing Business Process - I

Preamble : To provide fundamental knowledge about Business Process.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to understand about BPO.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic management process and aboutinternal customers	Remembering	Conceptual	Class Presentation
CO2	To know about BPO, its lifecycle and metrics.	Understanding	Conceptual	Group Discussion
CO3	To understand concept of process mapping and how will itapply in BPO sector.	Understanding	Analytical	Technical Presentation
CO4	Able to understand what is risk and types of risk.	Remembering	Conceptual	Group Mini Project
CO5	To understand the difference between different kinds of risk that a BPO faces.	Remembering	Conceptual	Class Presentation

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Programme	Course Code	Title
B.Com BPS	**19CBU04**	**Capital Market for BPS**

Preamble : Commerce students should have acquainted with principles of Capital market forBPS as inapplicable in BPO industry.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the scope of securitiesand its participants	Remembering	Conceptual	Class Presentation
CO2	To understand the basic banking and the market structure in detail.	Understanding	Conceptual	Class Presentation
CO3	To analyze the concepts of Mutual funds and the Hedge funds pricedetermination.	Remembering	Conceptual	Technical presentation
CO4	To understand the Fixed asset and NAV calculations	Understanding	Conceptual	Group Assignments
CO5	To understand counter party risk and market management.	Understanding	Conceptual	Case Study

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Programme	Course Code	Title
B.Com (BPS)	19GEU71	Marketing and Market Research

Preamble : Students should have basic knowledge of Marketing and Market research.

Expected level of output : **Conceptual Level**

Department offered : Management Science

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Explain and Perform the fundamental concept of Marketing and Market Research	Understanding	Conceptual	Class Presentation
CO2	To Describe and Understand the4ps-Product, Price, Place.	Remembering	Conceptual	Class Presentation
CO3	To know the Promotion of Marketing	Understanding	Conceptual	Group Mini-Project
CO4	To Know the Factors of consumerbehavior	Understanding	Conceptual	Poster Presentation
CO5	To Understand Retailing Concepts	Understanding	Conceptual	Self-Support Assignment

Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/B.Com(BPS) B.Com(CM)/B.Com(BI)/ B.Com(ECom)/ B.Com(RM) /B.Com(BA)/B.Com(CS)	**19CUG29**	**Computational Finance using Spreadsheet – Practical**

Preamble : **:** Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected level of output **:** Basic working Level

Department offered **:** Commerce

Prerequisites **:** Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	Self-Support Assignment
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Self-Support Assignment
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Poster presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT) /B.Com (BPS) /B.Com (A&F)/B.Com(CS)	19CUG11	Cost Accounting

Preamble : Familiarizing the students with cost concepts and to make the students learn thefundamentals of cost accounting.

Expected level of output : Conceptual

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcome : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about the basic concepts of costaccounting and details the Installation, Methods and Techniques of cost accounting and costanalysis	Understand	Conceptual	Case study
CO2	To Understand about the procedure for material control, Various inventory system, issue ofmaterials and Material losses	Understand	Conceptual	Simulation Techniques
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Poster Presentation
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	Poster Presentation
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	Analytical	Self-Support Assignment

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Programme	Course Code	Title
B.Com / B.Com (CA) / B.Com(IT)/ B.Com(BPS)/ B.Com(A&F) B.Com(CS)	**19CUG12**	**Management Accounting**

Preamble : To initiate the students to learn about Management Accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Fundamentals of Financial Accounting and Cost Accounting.

Course Outcomes : On completion of course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the nature and scope of Management accounting and Types of Financial Statement Analysis.	Understanding	Conceptual	Self-Support Assignment
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	Case study
CO3	Familiarize the students with the concept offund flow and cash flow statements and its preparations.	Understanding	Conceptual	Simulation Exercise
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	Poster Presentation
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Simulation Exercise

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com (E.Com)/B.Com(RM)/B.Com (BA)/ B.Com (CS)	**19CUG14**	**Computerized Accounting - Practical**

Preamble : This Course helps the students to gain well versed knowledge in Digitized accounting

Expected level of output : Working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : On Successful completion of the course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balancethrough using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account.	Apply	Remembering	Poster Presentation
CO3	To understand the go down entries for the various goods and various location and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self-Support Assignment
CO5	To Prepare payroll statement for employees (BP,DA, HRA, PF, etc.,)	Apply	Analytical	Games
CO6	To Generate GSTR 1 & 2 Report and TDS Report	Apply	Analytical	Games

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com(BPS)/ B.Com(CM)/B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG13**	**Goods and Services Tax**

Preamble : To provides fundamental knowledge about goods and services tax

Expected level of output : **Conceptual Level**

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of goods and service taxes

Course Outcomes : On Successful completion of the course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of goods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registration under goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit under GST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E-waybill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
B.Com(BPS)	19GEU67	Banking for BPS

Preamble : The objective of this course is to help students to understand the conceptual framework of banking process.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic accounting concepts of banking along with the recent developments in banking, ATM Management, Cash management, AML,KYC.	Understanding	Conceptual	Class Presentation
CO2	To understand the basics of cards, types of cards, payment & settlement lifecycle, and bank account and payment reconciliations.	Remembering	Conceptual	Poster Presentation
CO3	To understand the concept of lead generation, mortgage origination and mortgage servicing, account servicing and account closure.	Understanding	Conceptual	Class Presentation
CO4	Able to understand the basics of cash management, various fund transfers, Vostro and Nostro accounts.	Understanding	Conceptual	Group-mini Project
CO5	To understand basics of international trade, letter of credit, documents required for international trade, guarantee and customer services.	Remembering	Conceptual	Self- support assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com BI/B.Com RM/ B.Com E.Com/ B.Com BA/B.Com(CS)	**19CUG06**	**Corporate Accounting**

Preamble : Commerce students should have basic knowledge of Corporate accounting concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares andCalculation of underwriters liability, Purpose and procedure fordematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the meaning of profit prior to incorporation, and ascertainment of profit prior to incorporation and Preparation offinal accounts of companies andcalculation of managerial remuneration.	Understanding	Analytical	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and Calculation of Purchase consideration, alteration of share capital , internal reconstruction, capital reduction and procedure for capital reduction.	Understanding	Analytical	Self-Support Assignment
CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

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Programme	Course Code	Title
B.Com(CM)	19CMU03	Legal Aspects of Business

Preamble : To enable the students to be aware of the Provisions of Contract Act and other related Laws.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : The student should Appeared for Legal Aspects of Business Course

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the basics of Indian Contract Act, Essential elements of valid contract and Kinds of Contract	Remembering	Conceptual	Technical Presentation/ Demonstration
CO2	Able to understand the Contractual Capacity ,Void Agreements, Discharge of contracts.	Understanding	Conceptual	Group Assignments
CO3	To Understand the Contract of Indemnity and Guarantee and Contract of agency.	Remembering	Conceptual	Writing skills
CO4	Able to understand the Contract of Sale of Goods, Transfer of Property in Goods and Remedial measures.	Understanding	Conceptual	Poster Presentation/ Flow charts/ Miniatures/ Protocols
CO5	Able to understand the Indian Partnership Act , Registration and Dissolution of partnership	Understanding	Conceptual	Technical Presentation/ Demonstration

Programme	Course Code	Title
B.Com(CM)	19CMU04	Fixed Income Securities

Preamble : Commerce students should have acquainted with principles of Fixed Income Securities as is applicable to business and economic situations.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the scope of fixed income securities and its applications	Remembering	Conceptual	Class Presentation
CO2	To understand the money market and the market structure in detail.	Understanding	Conceptual	Poster Presentation
CO3	To analyze the concepts of Treasury Income and the price determination.	Remembering	Conceptual	Group Mini Project
CO4	To understand the bond financial structure, monetary system and the interest rates.	Understanding	Conceptual	Self-Support Assignment
CO5	To understand interest rate derivatives rate system and the concepts of valuation.	Understanding	Conceptual	Poster Presentation

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Programme	Course Code	Title
B.Com(CM)	19CMU05	Mutual Fund

Preamble : Commerce students should have acquainted with principles of Mutual Fund.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to understand the Concept of Mutual Fund, Risk Factors that affect MF Performance and the concepts of Quantitative Measures of Fund Manager Performance in detail.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Concept of Mutual Fund and Characteristics of Mutual Fund	Remembering	Conceptual	Class Presentation
CO2	To understand Structure of MF in India and Key Constituents of MF in detail.	Understanding	Conceptual	Poster Presentation
CO3	To analyse the concepts of MF Distributor, Role and Importance	Remembering	Conceptual	Group Mini Project
CO4	To understand the General and Specific Risk Factors that affect MF Performance	Understanding	Conceptual	Self-Support Assignment
CO5	To understand Quantitative Measures of Fund Manager Performance	Understanding	Conceptual	Poster Presentation

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Programme	Course Code	Title
B.Com(CM)	19GEU60	INVESTMENT BANKING

Preamble : :To provide basic application knowledge about Investment Banking

Expected level of output : Conceptual Level

Department offered : Commerce BPS & CM

Prerequisites : Basic Knowledge about the basic concept of Investment Banking

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of Investment Banking	Remembering	Conceptual	Class Presentation
CO2	To be familiar with the Functions of Investment Banking, Equity and Bond Valuation	Understanding	Conceptual	Group Mini Project
CO3	To know the importance of Corporate debt Restructuring and Mergers & Acquisitions.	Remembering	Conceptual	Poster Presentation
CO4	To gain knowledge about the IPO and Debt market.	Understanding	Conceptual	Poster Presentation
CO5	To understand the concept of the Merchant banking Financial and organizational restructuring .	Understanding	Conceptual	Self-Supporting Assignment

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com (BPS) /B.Com (A& F)/B.Com(CS)	19CUG11	Cost Accounting

Preamble : Familiarizing the students with cost concepts and to make the students learn the fundamentals of cost accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about the basic concepts of costaccounting and details the Installation, Methods and Techniques of cost accounting and cost analysis	Understand	Conceptual	Case study
CO2	To Understand about the procedure for material control, Various inventory system, issue ofmaterials and Material losses	Understand	Conceptual	Simulation Techniques
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Poster Presentation
CO4	To Provide knowledge about various overhead classification and distribution and explain othermethods of costing.	Understand	Conceptual	Poster Presentation
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	Analytical	Self-support Assignment

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Programme	Course Code	Title
B.Com / B.Com (CA) / B.Com(IT)/B.Com(BPS)/ B.Com(A&F) B.Com(CS)	19CUG12	Management Accounting

Preamble : To initiate the students to learn about Management Accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Fundamentals of Financial Accounting and Cost Accounting.

Course Outcomes : On completion of course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the nature and scope of Management accounting and Types of Financial Statement Analysis.	Understanding	Conceptual	Self-Support Assignment
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	Case study
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Simulation Exercise
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	Poster Presentation
CO5	Know the methods of preparing Differenttypes of Budgets.	Understanding	Conceptual	Simulation Exercise

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com (BPS)/B.Com(CM)/ B.Com(BI)/ B.Com(E-Com)/ B.Com(RM)/ B.Com(BA)/ B.Com(CS)	**19CUG13**	**Goods and Services Tax**

Preamble : To provides fundamental knowledge about goods and services tax

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of goods and service taxes

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts ofgoods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registrationunder goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit underGST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E- waybill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com (E.Com)/ B.Com(RM)/ B.Com (BA)/ B.Com (CS)	**19CUG14**	**Computerized Accounting - Practical**

Preamble : This Course helps the students to gain well versed knowledge in Digitized accounting

Expected level of output : Working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the variousgoods and various location of the country and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill	Apply	Understanding	Self-Support Assignment

	wise statement for the sundry debtors.			
CO5	To Prepare payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Games
CO6	To Generate GSTR 1 & 2 Report and TDS Report	Apply	Analytical	Games

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Programme	Course Code	Title
B.Com(CM)	19GEU68	Technical Analysis

Preamble : The course aims to understand the basic concepts of Fundamental and Technical Analysis

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the meaning of Financial and Economic meaning of Investment and Investment Alternatives	Remembering	Conceptual	Class Presentation
CO2	Able to understand the Economic Analysis, Forecasting Techniques and Industry Life Cycle	Understanding	Conceptual	Technical Presentation/ Demonstration
CO3	To understand the concept of Applied Valuation Techniques, Meaning and Importance of Technical Analysis and Charting Methods	Remembering	Conceptual	Group-Mini project
CO4	Students can able to understand the concept of Trend Lines, Trend REVERSALS and Exponential moving Average	Understanding	Conceptual	Group discussion
CO5	To understand the basics of Dow Theory, the Head and Shoulder Pattern and Bollinger Bands	Understanding	Analytical	Writing skills

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Programme	Course Code	Title
B.Com/B.Com(CA) /B.Com(IT)/ B.Com(BPS) /B.Com(CM)/B.Com(A&F) / B.Com BI / B.Com RM/ B.Com E.Com / B.Com BA/B.Com (CS)	**19CUG06**	**Corporate Accounting**

Preamble : Commerce students should have basic knowledge of Corporate accounting concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the meaning of profit prior to incorporation, and ascertainment of profit prior to incorporation and Preparation of final accounts of companies and calculation of managerial remuneration.	Understanding	Analytical	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and Calculation of Purchase consideration, alteration of share capital , internal reconstruction, capital reduction and procedure for capital reduction.	Understanding	Analytical	Self-Support Assignment

CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

Programme	Course Code	Title
B.Com(RM)	19CRM03	Retail Logistics Management

Preamble : Enable the students to develop the awareness about retail supply chain and logistics management functions.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand retail logistics and supply chain frame work and execution view of the same.	Understanding	Conceptual	Writing Skill
CO 2	Able to familiarize on retail logistics and retail warehousing.	Remembering	Conceptual	Poster Presentation
CO 3	To understand retail stake holder relationship and retail CRM	Remembering	Conceptual	Group Assignment
CO4	To understand different Category of retail supply chain and format specific supply chain issues.	Understanding	Conceptual	Poster Presentation
CO 5	To understand retail pricing, retail product lifecycle management and retail technology.	Understanding	Conceptual	Technical Presentation

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Programme	Course Code	Title
B.Com(RM)	19CRM04	Visual Merchandising- Practical

Preamble : This module aims at learning basic visual merchandising concepts and theories essential in the retail stores display.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Demonstrate role play in various Visual Merchandising concepts.	Remembering	Analytical	Poster presentation
CO2	To Create festival theme in Visual Merchandising using mannequins and backdrop	Understanding	Analytical	Poster presentation
CO3	To Identify various types of display in Visual Merchandizing.	Understanding	Analytical	Self-Support Assignment
CO4	To Create display for various seasons and contrast methods of display in Visual Merchandizing.	Understanding	Analytical	Self-Support Assignment
CO5	To develop job description for Visual Merchandizer in visual Merchandizing.	Understanding	Analytical	Self-Support Assignment

Programme	Course Code	Title
B.Com (RM)	**19CRM05**	**E- Retailing**

Preamble : This course will familiarize the concepts, fundamentals and also tempt creative ideas that render value to consumers, ornamental skills of the beginner in operating the E-Retail business.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Concept Of E- Retailing in Practice and E-Store Design and Branding.	Understanding	Conceptual	Class Presentation
CO2	To Analyze The E-Retailing Models, And Web Designing, and The Current Trends in Online Purchasing.	Applying	Analytical	Poster Presentation
CO3	To Understand the Marketing Mix In E-Retailing and the Concept of Online Pricing.	Understanding	Conceptual	Group Mini Project
CO4	To Analyze the Customer Loyalty in E-Retailing and Online Customer Management	Applying	Analytical	Group Mini Project
CO5	To Understand The E-Retailing on Traditional Transportation System and Future Of E-Retailing Systems.	Understanding	Conceptual	Self- support Assignment

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Programme	Course Code	Title
B.Com (RM)	**19CRM06**	**Fundamentals of Franchising**

Preamble : To enable the students to develop the awareness about Franchise business opportunities, development and growth

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO 1	Able to understand the fundamentals, developments and growth of franchising Business, types of franchising business, franchising package and franchising manual.	Understanding	Conceptual	Poster Presentation
CO 2	To know the role of franchisor and franchisee, services provided by franchisor, Franchisor and franchisee relationship and franchising communication channels.	Remembering	Conceptual	Class Presentation
CO 3	Able to understand the legal aspects of franchising across the world and India. Also familiar about franchising agreement, UFOC and other documents.	Remembering	Conceptual	Poster Presentation
CO4	To familiar with acquiring the franchisee business, franchisee lease, franchisee business plan and managing a franchisee retail outlets.	Applying	Conceptual	Group Mini Project
CO 5	To familiar about international franchising, Franchising advertisement, marketing and taxation issues on franchising.	Understanding	Conceptual	Self- Support Assignment

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Programme	Course Code	Title
B.Com(RM)/B.Com(E.Com)	19GEU59	Information System

Preamble : Commerce students should have basic knowledge of Information Technology and its Impact of Business.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the concepts of computer generations, classification of computers, computer architecture and Number systems.	Remember	Conceptual	Self-Support Assignment
CO2	Explain the role of Information system in business and applications of information system for decision making and how the business-driven information can increase a company's competitive business strategy.	Understand	Conceptual	Self-Support Assignment
CO3	Understand the network basics, use of networks using mobile technologies, different wireless network categories and identify the benefits and challenges of business mobility	Remember	Conceptual	Class Presentation
CO4	Describe the importance of business process management, its improvement, transformation and automation, reengineering and business process modeling to an organisation and how the IS can help in these areas	Understand	Conceptual	Simulation Exercises
CO5	Know about system development and project development methodologies, Relational database models, project management fundamentals and Integrated information system such as ERP, CRM and SCM.	Apply	Technical	Poster Presentation

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Com CM/B.Com(BI)/ B.Com(E-Com)/ B.Com(RM)/B.Com BA	**19CUG44**	**Cost and Management Accounting**

Preamble : To familiarize the students with the Cost and Management Accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand basic concepts of Cost accounting, Procedure for Installation of Costing System, Preparation of Cost Sheet and Material Control and Issues.	Understanding	Conceptual	Simulation Exercise
CO2	To understand and analyse: Labour Cost and methods. Overhead Methods and Techniques. Calculation of Overheads.	Understanding	Analytical	SSA (Self Support Assignment)
CO3	To understand the Concepts of Management Accounting and the concept of Ratio Analysis.	Applying	Analytical	Case Study
CO4	To analyse the concept of Fund Flow and Cash Flow Statement and Preparation of Fund Flow Statement and Cash Flow Statement.	Applying	Analytical	Poster Presentation
CO5	To understand the concept of Cost-Volume-Profit-Analyse. To identify how to take Managerial Decisions using CVP and Budgetary Control through Various Budgets.	Remembering	Conceptual	Case Study

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Programme	Course Code	Title
B.Com RM	19CRM07	Advertising Strategy

Preamble : To explain the theory and practices of advertising as well as the role of sales promotion in a company's integrated marketing communication programme.

Expected level of output : Conceptual Level

Department offered : Management Science

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the concepts of sales promotion and advertising	Remembering	Conceptual	Technical Presentation
CO2	To know about the role of Advertising media Research in detail.	Understanding	Conceptual	Technical Presentation
CO3	To understand concept of outdoor advertising, display and direct advertising.	Understanding	Conceptual	Group Assignment
CO4	Able to understand role of public relations in advertising	Remembering	Conceptual	Writing skills
CO5	To understand the difference between Consumer Franchise and Non Franchise.	Remembering	Conceptual	Poster Presentation

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/ B.Com(BPS)/B.Com(CM)/B.Com(BI) /B.Com(ECom)/B.Com(RM)/ B.Com(BA)/B.Com(CS)	**19CUG13**	**Goods and Services Tax**

Preamble : To provides fundamental knowledge about goods and services tax

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of goods and service taxes

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of goods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registration under goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit under GST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E-way bill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com (E.Com)/ B.Com(RM)/ B.Com (BA)/ B.Com (CS)	**19CUG14**	**Computerized Accounting - Practical**

Preamble : This Course helps the students to gain well versed knowledge in Digitized accounting.

Expected level of output : Working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the various goods and various location of the country and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self Support Assignment
CO5	To Prepare payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Games
CO6	To Generate GSTR 1 & 2 Report and TDS Report	Apply	Analytical	Games

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Programme	Course Code	Title
B.Com(E-Com)/ B.Com RM	19GEU63	Business Law

Preamble : To enable the students to understand the fundamentals of law related to commercial activities.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Recognize the Foundation Concepts of Law and its essential features. To narrate the various types of business law and its rules and regulations.	Understanding	Conceptual	Technical Presentation
CO2	To Predict the General principles of law. To categorize the Performance of contract, Discharge of contract and Remedies for breach of contract.	Analyse	Conceptual	Poster Presentation
CO3	To Examine Contract of Indemnity and Guarantee and its types. To illustrate Rights and duties of Surety, Bailment & Pledge.	Apply	Conceptual	Group Assignment
CO4	To restate Contract of Agency creation and termination. To Outline the Limited Liability Partnership.	Understanding	Conceptual	Group Assignment
CO5	To assess the Law of sale of goods. To Prioritize Condition and warranties. To Construct Transfer of ownership and rights of unpaid seller. To overview of Competition Act.	Evaluate	Conceptual	Writing Skill

Programme	Course Code	Title
B.Com / B.Com(CA) /B.Com(IT)/B.Com(BPS)/ B.Com(CM)/B.Com(A&F)/B.Com BI/B.Com RM/B.Com E.Com/ B.Com BA/B.Com (CS)	**19CUG06**	**Corporate Accounting**

Preamble : Commerce students should have basic knowledge of Corporate accounting concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the meaning of profit prior to incorporation, and ascertainment of profit prior to incorporation and Preparation of final accounts of companies and calculation of managerial remuneration.	Understanding	Analytical	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and	Understanding	Analytical	Self Support Assignment

	Calculation of Purchase consideration, alteration of share capital , internal reconstruction, capital reduction and procedure for capital reduction.			
CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

Programme	Course Code	Title
B.Com/B.Com(AF)	19CUG07	Financial Management

Preamble : This course offers the detailed knowledge about Financial Management in Business

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the phenomenon of Financial Management, Objectives , Methods, Importance, Financial decisions , Relationship between Risk and Return, Functions of a finance Manager	Understanding	Conceptual	Group Assignment
CO2	Able to prepare Cost of capital , Concept, Importance , Classifications Determination of cost of capital, Time Value of Money, Concept of value and return, Compounding and Discounting techniques.	Understanding	Conceptual	Technical Presentation
CO3	Able to understand Source of finance, Classification-needs for source of finance , Capital Structure ,Importance, Optimal Capital Structure, Theories of Capital Structure, net	Understanding	Conceptual	Group Assignment

	income and operating Approach .			
CO4	Able to understand Capital budgeting Process, Methods of Capital budgeting, Traditional and Time –adjusted Methods.	Applying	Conceptual	Writing Skills
CO5	Able to prepare Meaning and Types, Impact of Financial leverage, Degree of Financial leverage, MM and Walter's approach, Forms of dividend policy	Applying	Conceptual	Poster Presentation

Programme	Course Code	Title
B.Com/ B.Com(PA)/ B.Com(A&F)	19CUG08	Spreadsheet –Practical

Preamble : Commerce students should have basic knowledge to construct spread sheet for basic financial applications using financial functions available in spread sheet.

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to prepare Income Statement	Understanding	Conceptual	Poster presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	Self-Support Assignment
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Poster presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Self-Support Assignment
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Poster presentation

Programme	Course Code	Title
B.Com/B.Com (A&F)/B.Com (CS)	19CUG09	Principles of Management

Preamble : This course offers the detailed knowledge about Principles of management in business

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the overview of basic principles and organizational activity in management.	Understanding	Conceptual	Technical Presentation
CO2	To know about the planning process and tools of management.	Understanding	Conceptual	Group Assignment
CO3	To understand in detail about organizing process in management structure.	Understanding	Conceptual	Poster Presentation
CO4	To know the directing and motivational techniques in management.	Understanding	Conceptual	Technical Presentation
CO5	To understand about controlling and budgetary techniques in management.	Understanding	Conceptual	Writing skills

Programme	Course Code	Title
B.Com /B.Com (CA)/B.Com (A&F)/ B.Com(B&I)/B.Com(CS)	19CUG10	Company Law and Secretarial Practice

Preamble :Commerce students should have basic knowledge of Business System concepts

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic knowledge about company law. Commencement of business, Certificate of Incorporation, Memorandum and Articles of association.	Remembering	Conceptual	Technical Presentation
CO2	To understand the enterprises with share capital, size of the share capital and key managerial personnal of the company.	Remembering	Conceptual	Group Assignment
CO3	To understand the concept of Prospectus and powers of SEBI and criminal and civil liability, management &administration to view the corporate social responsibility.	Understanding	Conceptual	Writing skill
CO4	To understand the corporate governance and wealth creation	Understanding	Conceptual	Group Assignment

	management with distribution. Company secretary functions and secretarial standards with prevention of oppression and management.			
CO5	To understand the winding up of a company and legal provisions and dissolution of a company. Conduct of winding up. With payment of liabilities and submission of report.	Understanding	Conceptual	Poster presentation

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com (IT)/B.Com(BPS)/B.Com(A& F)/B.Com(CS)	19CUG11	Cost Accounting

Preamble : Familiarizing the students with cost concepts and to make the students learn the fundamentals of cost accounting.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about the basic concepts of cost accounting and details the Installation, Methods and Techniques of cost accounting and cost analysis	Understand	Conceptual	Case study
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	Simulation Techniques
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Poster Presentation
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	Poster Presentation
CO5	Able to learn and apply Process costing, Joint products and by-products	Apply	Analytical	Self Support Assignment

	and Reconciliation of cost and financial accounts			

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Programme	Course Code	Title
B.Com / B.Com (CA) / B.Com(IT)/B.Com(BPS)/B.Com(A&F) B.Com(CS)	19CUG12	Management Accounting

Preamble : To initiate the students to learn about Management Accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Fundamentals of Financial Accounting and Cost Accounting.

Course Outcomes : On completion of course, the students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the nature and scope of Management accounting and Types of Financial Statement Analysis.	Understanding	Conceptual	Self Supporting Assignment
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	Case study
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Simulation Exercise
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	Poster Presentation
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Simulation Exercise

Programme	Course Code	Title

B.Com/B.Com(CA)B.Com(IT)/B.Com(BPS)/ B.Com(CM)/B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG13**	**Goods and Services Tax**

Preamble : To provides fundamental knowledge about goods and services tax

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Basic Knowledge about concept of goods and service taxes

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of goods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registration under goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit under GST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E- way bill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com (E.Com)/ B.Com(RM)/ B.Com (BA)/ B.Com (CS)	19CUG14	Computerized Accounting - Practical

Preamble : This Course helps the students to gain well versed knowledge in Digitized accounting

Expected level of output : Working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the various	Apply	Understanding	Poster Presentation

	goods and various location of the country and preparation of Bank account statement with credits and debtors.			
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self Support Assignment
CO5	To Prepare payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Games
CO6	To Generate GSTR 1 & 2 Report and TDS Report	Apply	Analytical	Games

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Programme	Course Code	Title
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Preamble : Commerce students should have basic knowledge of Corporate accounting concepts.

Expected level of output : Conceptual Level

Department offered :Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic conceptual knowledge about the company and procedure for Issue, Forfeiture and Reissue of shares, Redemption of preference shares and issue and redemption of debentures.	Remembering	Conceptual	Poster Presentation
CO2	To Understand the concept of underwriting of shares and Calculation of underwriters liability, Purpose and procedure for dematerialization	Understanding	Conceptual	Simulation Exercises
CO3	To Understand the meaningof profit prior to incorporation, and ascertainment of profit prior to incorporation and Preparation of final accounts of companies and calculation of managerial remuneration.	Understanding	Analytical	Simulation Exercises
CO4	To Understand the concept of amalgamation, absorption and reconstruction and Calculation of Purchase consideration, alteration	Understanding	Analytical	Self Support Assignment

	of share capital , internal reconstruction, capital reduction and procedure for capital reduction.			
CO5	To Understand the meaning of liquidation of companies, preparation of liquidator's final statement of affairs, valuation of goodwill and valuation of shares.	Understanding	Analytical	Case Study

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Programme	Course Code	Title
B.Com(BA)	19CBA02	Data Mining

Preamble : To provide knowledge about concepts of data mining and data mining techniques.

Expected level of output : Conceptual Level

Department offered :Commerce

Prerequisites : Basic Knowledge about the data base management systems

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic data mining task, models and issues on implementation.	Remember	Communication Skills	Writing skills
CO2	Able to understand the idea on techniques of data mining and how it is used in various concepts.	Understand	Technical Skills	Technical presentation
CO3	Able to evaluate the concepts of different algorithms used in data mining.	Understand	Technical Skills	Poster presentation
CO4	Able to implement the concept of clustering in various data mining concept.	Apply	Technical Skills	Group assignments
CO5	Able to implement the concept of Association Rules in various data mining Application	Apply	Technical Skills	Group assignments (Algorithm implementation Data sets)

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Programme	Course Code	Title
B.Com(BA)	**19CBA03**	**Optimization Techniques for Analytics**

Preamble : On the completion of the course, the student will be able to provide necessary inputs for optimum utilization of resources by employing operational research techniques.

Expected level of output : Conceptual Level

Department offered :Mathematics

Prerequisites : A Pass in HSC

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Solve linear Programming Problem	Applying	Analytical	Poster Presentation
CO2	Able to find the solution for transportation, Assignment Problems and find the best replacement	Applying	Analytical	Simulation Exercises
CO3	Able to study the queue length, waiting time can be predicted and find the Critical Path.	Applying	Analytical	Case Study& Self - Support Assignment

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Programme	Course Code	Title
B.Com (BA)	19CBA04	Security Analysis and Portfolio Management

Preamble : To impart knowledge to the students regarding the theory and practice of security analysis and investment decision making

Expected level of output : Conceptual Level

Department offered :Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic knowledge about investment	Remembering	Conceptual	Technical Presentation
CO2	To understand the Investment Alternatives	Remembering	Conceptual	Writing skills
CO3	To understand the concept of Fundamental Analysis and Technical Analysis	Understanding	Conceptual	Group Assignment
CO4	To understand the Efficient Market Theory, Futures and Portfolio Construction	Understanding	Conceptual	Group Assignment
CO5	To understand the Portfolio Evaluation and Portfolio Revision	Understanding	Conceptual	Poster presentation

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Programme	Course Code(s)	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(A&F)/B.Com(BI)/B.Com(BA)/ B.Com(CS)/BBA/BBA(CA)/B.Sc.(ISM)	**19GEU57**	**Managerial Economics**

Preamble **:** To provides an overall introduction to economics as dealing with the problems of allocation of scarce resources in optimum manner

Expected Level of Output : Conceptual Level

Department offered **:** Commerce

Prerequisites **:** Basic Knowledge about concept of managerial economics

Course Outcomes **:** On Successful completion of the course, students will have the ability to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	Group Assignment
CO3	Students can be familiar with production function	Understanding	Conceptual	Writing Skills
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills
CO5	Students able to take price and output decisions under different market structures	Understanding	Conceptual	Poster Presentation

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code	Title
B.Com CM/B.Com(BI)/ B.Com(ECom)/B.Com(RM)/ B.Com BA	**19CUG44**	**Cost and Management Accounting**

Preamble : To familiarize the students with the Cost and Management Accounting

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand basic concepts of cost accounting and the procedure for installation of costing system, and preparation of cost sheet.	Understanding	Conceptual	Simulation Exercise
CO2	To understand the Concept of Material and Labour cost, Methods of valuing material and methods of wage payment. To know the concept of process costing, job costing and batch costing.	Understanding	Conceptual	Simulation Exercise
CO3	To understand the concept of ratio analysis and classification of ratios. To know the meaning of working capital, factors determining working capital and sources of working capital.	Applying	Analytical	Case Study
CO4	To understand the concept of funds flow statement and cash flow statement and preparation of funds flow statement and cash flow statement.	Applying	Analytical	Poster Presentation
CO5	To understand the concept of marginal costing and to know how to calculate BEP, P/V ratio. To know the concept of budget and preparation various budgets	Remembering	Conceptual	Self Supporting Assignment

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Programme	Course Code	Title
B.Com(BA)	19CBA05	Exploratory Data Analysis

Preamble : This course helps the students to gain knowledge R-Programming

Expected level of output : Conceptual Level

Department offered :Commerce

Prerequisites : Those who are studied statistics paper can choose this course.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know the basic concepts in R-Programming	Remembering	Conceptual	Poster Presentation
CO2	Able to demonstrate the nature of variables and files	Understanding	Technical	Writing skill & Technical Presentation
CO3	Able to apply the knowledge of R to actual situation	Applying	Analytical	Simulation Exercise

Programme	Course Code	Title
B.Com(BA)	19CBA06	Analyzing Big Data with R -Practical

Preamble : To train the students in using good statistical software for solving a variety of statistical problems.

Expected level of output : Practical Level

Department offered : Mathematics

Prerequisites : Those who are studied statistics paper can choose this course.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to create any form of statistics and data manipulation	Remember	Managerial Skills	Poster Presentation
CO2	Able to understand the advanced graphical representation of data	understand	Analytical Skill	Poster Presentation
CO3	Able to apply the R programming for analysing the inferential statistics	Apply	Conceptual Skill	Technical Presentation

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Programme	Course Code	Title
B.Com/B.Com(CA)B.Com(IT)/B.Com(BPS)/ B.Com(CM)/B.Com(BI)/B.Com(E-Com)/ B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG13**	**Goods and Services Tax**

Preamble :To provides fundamental knowledge about goods and services tax

Expected level of output : Conceptual Level

Department offered :Commerce

Prerequisites : Basic Knowledge about concept of goods and service taxes.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the basic concepts of goods and service taxes	Remembering	Conceptual	Class Presentation
CO2	Capable to know about registration under goods and service taxes	Understanding	Applying	Class Presentation
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Simulation Exercises
CO4	To know the Input tax credit under GST	Understanding	Conceptual	Poster Presentation
CO5	Students able to know about E- way bill and GST portal	Understanding	Conceptual	Self-Support Assignment

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com(IT)/ B.Com(PA)/B.Com(BPS)/B.Com(CM)/ B.Com(A&F)/B.Com(BI)/ B.Com (E.Com)/ B.Com(RM)/ B.Com (BA)/ B.Com (CS)	**19CUG14**	**Computerized Accounting - Practical**

Preamble : This Course helps the students to gain well versed knowledge in Digitized accounting

Expected level of output : Working Level

Department offered :Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the various goods and various location of the country and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation

CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self Support Assignment
CO5	To Prepare payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Games
CO6	To Generate GSTR 1 & 2 Report and TDS Report	Apply	Analytical	Games

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Programme	Course Code(s)	Title
B.Com / B.Com (CA / IT / A&F / BA / CS)	19GEU76	Marketing Management

Preamble : Students will be able to explain basic marketing concepts, analyze the marketing environment, segments and channels.

Expected Level of Output : Conceptual Level

Department offered : Management Science

Prerequisites : Higher Secondary Level

Course Outcomes : On successful completion of the course, students will have been able

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	To Know the concept of Marketing Management along with its Process and Market Segmentation	Understanding	Conceptual	Poster Presentation
CO2	Demonstrate on Promotional Strategy and Advertising Media.	Understanding	Conceptual	Self-Support Assignment
CO3	To Outline the Promotional Strategy and Sales Promotion activities	Understanding	Conceptual	Class Presentation
CO4	To summarize Customer Relationship and Social Media	Remembering	Conceptual	Group Mini Project

Programme	Course Code	Title
B.Sc. (ECS)	19ECU07	Communication Electronics

Preamble: This course covers fundamental concepts of communication systems, which are essential for the understanding of advanced communication systems.

Expected level of output : Conceptual Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in electronic circuits and basic mathematics

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Learn the basic concepts of electromagnetic wave radiation and propagations.	Remembering	Conceptual	Group Assignment
CO2	Understand important and fundamental antenna engineering parameters and terminology.	Understanding	Conceptual	Writing skills
CO3	Understand AM, FM and PM communication systems.	Understanding	Conceptual	Poster Presentation/ Charts
CO4	Apply the essential facts about single sideband modulation for radio communications systems.	Applying	Technical	Technical Presentation
CO5	Design and analyze performance of the Super Heterodyne receiver.	Analyzing	Analytical	Technical Presentation

Programme	Course Code	Title
B.Sc. (ECS)	19ECU08	Integrated Circuits and Instrumentation

Preamble: This course provides the knowledge on linear integrated circuits and electronic instruments. It enables the students to analyze the characteristics of operational amplifiers.

Expected level of output : Conceptual Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in basic electronic components and devices

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand the various IC fabrication process.	Understanding	Conceptual	Poster Presentation / Charts
CO2	Describe the characteristics, linear and nonlinear application of operational amplifier.	Understanding	Conceptual	Writing skills
CO3	Develop the ability to analyze and design the Timer and PLL based linear circuits.	Analyzing	Analytical	Technical Presentation
CO4	Understand the concepts and working principles of electronic instruments.	Understanding	Conceptual	Group Assignment
CO5	Understand the basic manufacturing processes related to electronic products	Understanding	Conceptual	Group Assignment

Programme	Course Code	Title
B.Sc. (ECS)	**19ECU09**	**Digital Electronics and VHDL**

Preamble: This course will familiarize students with the fundamental knowledge on number systems, combinational logic circuits and sequential logic circuits. It will provide students an overview of the VHDL language.

Expected level of output : Conceptual Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in number systems and computer fundamentals

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Recall the different number systems.	Remembering	Conceptual	Poster Presentation/ Charts
CO2	Understand the Boolean expressions and Logic gates.	Understanding	Conceptual	Group Assignment
CO3	Analyze the Combinational building blocks.	Analyzing	Analytical	Technical Presentation
CO4	Gain the capability of implementing various counters, registers and flip-flop based systems.	Analyzing	Analytical	Poster Presentation/ Charts
CO5	Describe the operation of ADC and DAC circuits.	Understanding	Conceptual	Writing skills

Programme	Course Code	Title
B.Sc. (ECS)	**19ECU10**	**Linear Integrated Circuits Lab**

Preamble: This course provides the basic knowledge in the selection of integrated circuits, study of its specifications and functionality, and design of practical applications.

Expected level of output **:** Practical Level

Department offered **:** Electronics and Communication Systems

Prerequisites **:** Knowledge of Electronic Devices and Circuits Analysis

Course Outcomes **:** After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Demonstrate an understanding of fundamentals of integrated circuits.	Understanding	Conceptual	Simulation Exercises
CO2	Design an application with the use of integrated circuits.	Applying	Technical	Technical Presentation
CO3	Learn how to apply troubleshooting and problem solving skills to resolve linear integrated circuit issues.	Evaluating	Technical	Technical Presentation

Programme	Course Code	Title
B.Sc. (ECS)	**19ECU11**	**Digital Electronics and VHDL Lab**

Preamble: This course focuses to design and construct the basic digital electronic circuits and to become familiar with the VHDL programming.

Expected level of output **:** Practical Level

Department offered **:** Electronics and Communication Systems

Prerequisites **:** Basic knowledge in electronic circuits

Course Outcomes **:** After successful completion of this course, the students will be able to

Course outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Acquire the fundamental knowledge in basic logic gates.	Understanding	Conceptual	Simulation Exercises
CO2	Design and analyze digital electronic circuits.	Applying	Technical	Technical Presentation
CO3	Develop the VHDL programming for the digital circuits.	Applying	Technical	Technical Presentation

Programme	Course Code	Title
B.Sc. (ECS)	**19ECU12**	**Microwave and Fiber Optic Communication Systems**

Preamble: The course aims to provide students with a broad understanding of microwaves and microwave active devices. It will also explain the RADAR and fiber optic communication systems.

Expected level of output **:** Conceptual Level

Department offered **:** Electronics and Communication Systems

Prerequisites **:** Knowledge in basic electronic systems

Course Outcomes **:** After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand the theory of microwave and fiber optic communication.	Understanding	Conceptual	Writing skills
CO2	Discuss the working of microwave amplifiers, oscillators and devices.	Understanding	Conceptual	Poster Presentation/ Charts
CO3	Design and analyze the microwave amplifiers, oscillator and devices.	Analyzing	Analytical	Technical Presentation
CO4	Understand the basics of Radar technology.	Understanding	Conceptual	Poster Presentation/ Charts
CO5	Describe the different characteristics of optical fiber.	Understanding	Conceptual	Group Assignment

Programme	Course Code	Title
B.Sc. (ECS)	19ECU13	8051 Microcontroller and Applications

Preamble: This course provides a broad and systematic introduction to microcontroller based system design. It explores the hardware architecture, programming and applications of 8051 Microcontroller.

Expected level of output : Conceptual and Application Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in Digital Electronics and C Programming

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Recall and apply a basic concept of digital fundamentals to Microcontroller based system	Remembering	Conceptual	Poster Presentation/ Charts
CO2	Understand the basic concepts and working principles of 8051 Microcontroller	Understanding	Conceptual	Class Presentation
CO3	Familiarize with the assembly level and embedded C programming using 8051	Understanding	Conceptual	SSA
CO4	Analyse the properties of Microcontroller	Analysing	Analytical	Class Presentation
CO5	Formulate appropriate computing solution and apply it to the Microcontroller based real-time applications	Applying	Technical	Group Mini Project

Programme	Course Code	Title
B.Sc. (ECS)	19ECU14	Communication Electronics Lab

Preamble: This course aims to experimentally study the concepts of communication electronics by designing the circuits and to become familiar with various output wave forms.

Expected level of output : Practical Level

Department offered : Electronics and Communication Systems

Prerequisites : Basic knowledge in electronic principles

Course Outcomes : After successful completion of this course, the students will be able to

Course outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Verify the characteristics of various electronic communication circuits practically.	Applying	Technical	Technical Presentation
CO2	Understand the need and the basics of antenna.	Analyzing	Analytical	Simulation Exercises
CO3	Apply the knowledge on design techniques and study the performance behavior of communication systems.	Applying	Technical	Technical Presentation

Programme	Course Code	Title
B.Sc. (ECS)	**19ECU15**	**8051 Microcontroller and Applications Lab**

Preamble: This course introduces students to the 8051 MCU assembly language and embedded C programming. It gives a practical training of interfacing the peripheral devices with the 8051 microcontroller.

Expected level of output **:** Practical Level

Department offered **:** Electronics and Communication Systems

Prerequisites **:** Knowledge in Logic Circuit Design

Course Outcomes **:** After successful completion of this course, the students will be able to

Course outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Understand the 8051 microcontroller and its programming with assembly and C.	Understanding	Technical	Poster Presentation /Chart
CO2	Enrich their knowledge with hands on experiments and project based learning.	Applying	Technical	Poster Presentation /Chart
CO3	Troubleshoot interactions between software and hardware.	Analyzing	Analytical	SSA

Programme	Course code	Title
B.Sc. (ECS)	**19ECU16A**	**Programmable Logic Controller**

Preambles: This course develops the functional design, hardware configuration, programming and applications of Programmable Logic Controllers (PLC).

Expected level of output : Conceptual and Application Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in digital logic circuits

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill	Capstone Evaluation
CO1	Describe the function of various hardware components of a programmable logic controller.	Understanding	Conceptual	Poster Presentation /Chart
CO2	Know the PLC ladder logic and basic programming concepts.	Understanding	Conceptual	Class Presentation
CO3	Demonstrate the operation of logic circuits by programming in the programmable logic controller.	Applying	Technical	SSA
CO4	Apply PLC Timers and Counters for the control of industrial processes.	Applying	Technical	Class Presentation
CO5	Use a PLC in order to monitor and control industrial processes.	Applying	Technical	Group Mini Project

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)	19CSS08	Operating System

Preamble	On completion of this course the students will be able to describe various system resources, Process management and functions of operating systems.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Information Technology
Prerequisites	Basic understanding of computers
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Blooms Verb	Skill	Capstone
CO1	To learn the fundamentals of operating system	Understand	Conceptual	Technical Presentation
CO2	To learn the mechanisms of OS to handle the file system	Remember	Communication	Group Assignment
CO3	To Understand the mechanisms of OS to handle processes and their communication	Understand	Conceptual	Writing Skills
CO4	To study and analyze concept relating to asynchronous concurrent processes and deadlock	Analyze	Technical	Poster Presentation
CO5	To Analyze the mechanisms of OS to handle memory management techniques and their allocation	Analyze	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A / B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS09	Java Programming

Preamble	This course has four credits dedicated to provide the students a strong foundation on Java programming concepts and its application.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic OOPS Concepts such as C++ Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Verb	Skill	CIA-Capstone
CO1	Able to understand the basics of Java programming languages using JDK and analyze the difference between Structured Programming and Object Oriented Programming.	Understand	Technical	Writing skill
CO2	Able to Understand the Array basics, Exceptions, Threads and I/O Fundamentals.	Analyze	Analytical	Simulation
CO3	Able to Understand the Advanced Java Concepts and Networking Concepts,	Apply	Conceptual	Poster Presentation
CO4	Able to Understand Swing API, Swing Components and GUI Events.	Apply	Technical	Technical Presentation

Programme	Course Code	Title
B.Sc(CSA)B.Sc(CT)/B.C.A / B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS10	Python Programming

Preamble	On successful completion of the course the students should have the knowledge about Python Programming.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic knowledge on Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution of the python program using control structures, Functions.	Understand	Technical	Technical presentation
CO2	Able to understand the concept of String Concepts & Tuple concepts	Remember	Communication	Writing Skill
CO3	Apply Exception Handling in Python Program	Understand	Technical	Poster Presentation
CO4	Apply Programming skills using the concept of classes & objects, Inheritance in Python Program	Understand	Technical	Poster Presentation
CO5	Apply packages & modules in python program	Apply	Analytical	Simulation Exercise

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS11	Practical- Programming Lab – JAVA

Preamble	It enables the students to do the projects and solve the applications using Java programming logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Programming in C++
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Technical Skills	Poster Presentation
CO2	Understand the usage of interfaces and packages in Java programs	Understand	Technical Skills	Poster Presentation
CO3	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Demonstration
CO4	Apply programming skills to develop Applet applications.	Apply	Analytical Skills	Demonstration

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS12	Practical-Programming Lab-Python

Preamble	It enables the students to do the projects and solve the applications using Python programming logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic Knowledge on Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution flow of the Python program using control structure & Branching Statements	Understand	Technical	Technical Presentation
CO2	Understand the usage of Strings, Dictionaries using python programs	Understand	Technical	Poster Presentation
CO3	Understand the concept of Exception handling in python programs.	Understand	Technical	TechnicalPresentation
CO4	Understand the concepts of classes & objects	Understand	Technical	Poster Presentation

Programme	Course Code	Title
BCA/B.Sc CS/SS	**19CSS14**	**Computer Networks**

Preamble	Computer science student must possess knowledge about basic concepts of the fundamentals of data communications networks by gaining a working knowledge of data transmission concepts, understanding the operation of all seven layers of OSI Model and the protocols used in each layer.
Expected Level of Output	Conceptual Level
Department offered	Computer Applications / Computer Science /Software Systems
Prerequisites	Basic understanding of computer terminologies and message sharing.
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the usage of computer networks, network software and network hardware and reference models.	Understand	Communication	Writing Skills
CO2	Analyse the concept of Physical Layer and Data Link Layer	Analyze	Technical	Technical Presentation
CO3	Understand the concept of Network Layer and Different types of Routing Mechanism	Understand	Technical	Technical Presentation
CO4	Analyze the concept of Transport Layers and its protocol	Remember	Managerial	Poster Presentation
CO5	Understand the concept of Application and	Apply	Communication	Group Assignment

	Presentation Layer and Apply			

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS15	Software Engineering

Preamble	This course provides the basics of software development in various environment using different methods
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic understanding of software development
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Able to understand the concept of software process models.	Understand	Conceptual	Class Presentation
CO2	Able to understand the concept of analysis and design modeling.	Understand	Conceptual	Group- Mini Project
CO3	Able to apply the Concept of software quality assurance and software testing	Apply	Technical	Self Support Assignment
CO4	Able to apply the Concept of software configuration management and risk management	Apply	Technical I	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS16	Database Management System using Oracle

Preamble	On successful completion of the course the students should have the knowledge about Database, Oracle 12c and PL/SQL.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic knowledge on Database Management Systems
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	To Understand the basic concepts of Database, The models used to represent database and to design the database using Normalization	Remember	Communication	Technical Presentation
CO2	To understand about the Oracle 12c, Database models, System life cycle, Database languages and to manipulate them .To understand how to customize the single row functions, group function, aggregate functions and joins.	Understand	Communication	Writing Skills
CO3	To understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical	Simulation Exercise
CO4	To apply and enhance the ability in program objects and PL/SQL.	Apply	Analytical	Simulation Exercise
CO5	To apply and enhance the knowledge in exceptions, stores procedures, triggers and event	Apply	Technical	Poster Presentation

	handling.			

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS17	Practical-Programming Lab – Visual Basic and Oracle

Preamble	On successful completion of the course the students should have the knowledge to write SQL queries and to develop PL/SQL Blocks, Database Triggers and connect databases with Visual Basic
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic Knowledge of data
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution of SQL Queries using SELECT Statements and Conditional Operators and Built in Functions	Remember	Technical	Poster Presentation
CO2	Recognize the use of joins and sub queries in Oracle	Understand	Competitive	Poster Presentation
CO3	.Apply the Concept of Control Structure in Procedural Language for Structure Query Language(PL/SQL)	Apply	Conceptual	Self Support Assignment
CO4	Apply the concept of Database Connection	Apply	Technical	Self Support Assignment

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS18	Practical –Programming lab - Software Testing Using Selenium

Preamble	To understand the Selenium course and provides the knowledge to Automate any Web-based Application
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic Working Level
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Able to remember the basic concepts of Web driver	Apply	Managerial	Self Supporting Assignment
CO2	Able to understand the selenium methods and linking concepts	Apply	Managerial	Self Supporting Assignment
CO3	To locate a frame using Name	Analyze	Technical	Poster Presentation
CO4	To synchronize the test using implicit and explicit wait	Analyze	Technical	Poster Presentation
CO5	To work with Web driver using parameters, pop up windows and forms	Analyze	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc. (BT)	19BSU02	Immunology

Preamble : To make sure that the basics of immune system and the immunological reactions occurring in biological system.

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge in immunology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To familiarize the students with the immune system, their structure and classification, genetic control of antibody production	Understand	Conceptual Skills	Technical Presentation
CO2	To understand the mechanism of activation in hypersensitive immune reaction	Understand	Conceptual Skills	Group Assignment
CO3	To understand the role of the immune molecules in infectious diseases, autoimmunity and cancer	Understand	Conceptual Skills	Writing skill
CO4	The students will be able to identify the cellular and molecular basis of immune responsiveness.	Understand	Conceptual Skills	Poster presentation

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Programme	Course Code	Title
B.Sc. (BT)	**19BTU06**	**Bioprocess Technology**

Preamble : To provide basic level of understanding and application in Bioprocess Technology

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on science

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand Basic knowledge of industrial process - screening of strain improvement and Inoculum development.	Understand	Conceptual Skills	Class Presentation
CO2	To Understand design of fermenter and Fermentation process.	Understand	Conceptual Skills	Simulation Exercises
CO3	To analyses the various types of fermenter.	Analysis	Analytical Skills	Poster presentation
CO4	To apply the large-scale fermentation process and product production and acquire information on downstream process.	Apply	Analytical Skills	Self – Supporting Assignment

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Programme	Course Code	Title
B.Sc. (BT)	**19BTU07**	**Lab in Immunology and Bioprocess Technology**

Preamble : To enable student to know about the antigen antibody interaction. To make students to know fermentation process and product production

Expected level of output : Conceptual Level

Department offered : Microbiology

Prerequisites : Basic working Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To find out the antigen and antibody reaction	Analyze	Technical Skills	Technical Presentation
CO2	To perform quantify the antigen and antibody concentration through titration.	Analyze	Technical Skills	Demonstration
CO3	To study of enzyme production with optimum parameters and separation.	Analyze	Technical Skills	Attendance
CO4	To quantify the alcoholic content in wine and biomass production through SCP	Understand	Technical Skills	Simulation Exercises

Programme	Course Code	Title
B.Sc. (BT)	19BSU03	r DNA Technology and Bioethics

Preamble : To reveal students with various approaches to conducting genetic engineering that they can apply to their future career in biological research as well as in biotechnology industries

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Fundamental understanding of the principles of molecular biology and Bioethics

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the tools of genetic engineering	Understand	Conceptual Skills	Class Presentation
CO2	To analyze the applications of genetic engineering	Understand	Conceptual Skills	Poster presentation
CO3	To describe the methods of gene transfer.	Understand	Conceptual Skills	Simulation Exercises
CO4	To discriminate the concepts of IPR, patenting and biosafety in Biotechnology and its regulatory bodies.	Understand	Conceptual Skills	Self – Supporting Assignment

Programme	Course Code	Title
B.Sc. (BT)	19BSU04	Lab in r DNA Technology

Preamble : To enable the students to understand about DNA isolation techniques from various sources and its applications

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge on Biology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To isolate the DNA from various sources.	Analyze	Technical Skills	Technical Presentation
CO2	To perform PCR, restriction, digestion and ligation experiments.	Analyze	Technical Skills	Demonstration
CO3	To separate the protein mixture using SDS-PAGE.	Analyze	Technical Skills	Attendance
CO4	To understand about the different blotting techniques and conjugation and transformation	Understand	Technical Skills	Simulation Exercises

Programme	Course Code	Title
B.Sc. (BT)	19BSU05	Introduction to Bioinformatics

Preamble : To make the students to understand Bioinformatics databases and sequence analysis

Expected level of output : Conceptual Level

Department offered : Bioinformatics

Prerequisites : Basic knowledge on Biological Databases and its Applications.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand Computational Biology, databases and Role of Internet	Understand	Conceptual Skills	Technical Presentation
CO2	To Understand the DNA, Protein sequence methods and Sequence Analysis	Understand	Conceptual Skills	Group Assignment
CO3	To Understand Sequence similarity searches and Alignment	Understand	Conceptual Skills	Writing skill
CO4	To Understand the Concept of Phylogenetics	Understand	Conceptual Skills	Poster presentation

Programme	Course Code	Title
B.Sc CDF	19CDU09	Fabric Construction Methods

Preamble: To facilitate the students to understand the basic concepts of fabric Construction.

Expected Level of Output : Conceptual Level

Department offered : Costume Design and Fashion

Pre–Requisite : Completion of Textile Science .

Course Outcomes

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concept of basic weaves designs and its derivatives.	Understanding	Conceptual	Class presentation
CO2	To know about the structures and methods of producing fancy and decorative weave patterns	Analyzing	Analytical	Poster /Flow chart/Miniatures/ Protocol
CO3	To analyze the fundamentals of knitting and their classification.	Analyzing	Analytical	Simulation Exercise
CO4	To analyze the types, methods of formation and uses of non woven fabrics	Analyzing	Analytical	SSA

Programme	Course Code	Title
B. Sc CDF	19CDU10	Fashion Art and Design Psychology

Preamble: To familiarize the students in the fashion psychology and artistic view of design

Expected Level of Output: Conceptual Level

Department Offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the origin of fashion and the role of clothing.	Understanding	Conceptual	Class Presentation
CO2	To understand the psychology of clothing and its influence in various levels of Communication.	Understanding	Conceptual	Group Mini Project
CO3	To understand the basic of design development and incorporating it in fashion	Understanding	Conceptual	Poster /Flow chart/Miniatures/ Protocol
CO4	To apply the design details in men's, women's and children's wear	Applying	Application	SSA

Programme	Course Code	Title
B.Sc. CDF	19CDU11	Apparel Industry & Quality Assessment

Preamble: To train the students in assessment of quality standards in apparel industry.

Expected Level of Output: Conceptual Level

Department offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To provide a comprehensive Knowledge about judging the quality of readymade garments.	Understanding	Conceptual	Class Presentation
CO2	To acquaint the students with the readymade garment industry and its problems and Prospects.	Understanding	Conceptual	Poster Presentation
CO3	To understand the importance of Inspection and ISO Standards and its procedures	Understanding	Conceptual	Simulation Exercise
CO4	To understand the quality control Tools used in apparel industry.	Understanding	Conceptual	SSA
CO5	To understand the process involved in readymade garment Industry.	Understanding	Conceptual	

Programme	Course Code	Title
B. Sc CDF	19CDU12	Fabric Analysis Practical

Preamble: To impart knowledge on various techniques involved in fabric construction

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Pre–Requisite : A pass inHSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
C01	To analyze the types of basic weaves, wrap rib, weft rib weave structures for determining its fabric characteristics.	Analyze	Technical	Technical Presentation
C02	To analyze twill, sateen and satin weave structures to know its fabric parameters	Analyze	Technical	
C03	To analyze honey comb weave and double cloth weave for knowing its fabric Characteristics.	Analyze	Technical	Simulation Exercises
C04	To analyze extra warp, weft figuring and knit structures for examining its appearance Parameters.	Analyze	Technical	

Programme	Course Code	Title
B. Sc CDF	**19CDU13**	**Women's Apparel Practical**

Preamble: To enable the students to develop practical exposure in Selected women's garments.

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: Completion of Children's Apparel Practical

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the different stitches and construct the women's garments.	Applying	Technical	SSA
CO2	To apply the finishing techniques of garments by plackets and Fasteners.	Applying	Technical	
CO3	To apply the variation of sleeve and fullness.	Applying	Technical	Poster Presentation
CO4	To apply the creative design and its Variation	Applying	Technical	

Programme	Course Code	Title
B.Sc. CDF	19CDU14	Home Textiles

Preamble: The aim of the course is to enable the students to get an insight about home textile industry.

Expected Level of Output : Conceptual Level

Department offered : Costume Design and Fashion

Prerequisites :A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the importance of home textiles, its classification, types and recent trends	Understanding	Conceptual	Writing skill
CO2	To learn about the different types of bed linen and applying it in a practical background.	Applying	Conceptual	Technical Presentation
CO3	To apply the different types of linen, floor and window treatment in our daily life	Applying	Conceptual	Group Assignment
CO4	To analyze the current market trend of home textiles and its global Scenario	Analyzing	Analyzing	Poster

Programme	Course Code	Title
B.Sc. CDF	19CDU15	Surface Embellishment Practical

Preamble: To enable the student to develop skills in embroidery and Surface embellishments.

Expected Level of Output : Working Level

Department offered : Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the basic hand embroidery and fancy stitches in garments	Applying	Technical	SSA
CO2	To apply the appliqué and quilting technique, patch work, cut work in samples.	Applying	Technical	
CO3	To apply the different techniques to create smocking, bead and zardosi work in garments	Applying	Technical	Poster Presentation
CO4	To apply the drawn thread technique, crocheting ,braiding and macramé samples	Applying	Technical	

Programme	Course Code(s)	Title
B. Sc CDF	19CDU16	Computer Aided Designing Practical-I

Preamble: The objective of the course is to impart designing knowledge by using computer and also to get acquainted with the various applications of computers in fashion industry.

Expected Level of Output: Working Level

Department Offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the color theory in color charts	Applying	Technical	Poster presentation
CO2	To apply small motifs and designs, repeat for a garment, Border designs in garment	Applying	Technical	
CO3	To apply brand labels and Care labels for garment	Applying	Technical	SSA
CO4	To apply Principles of design and color harmony	Applying	Technical	

Programme	Course Code	Title
B. Sc CDF	19CDU17	Visual Merchandising

Preamble: To familiarize the students with the skills involved in displaying the merchandise for retail business.

Expected Level of Output: Conceptual Level

Department Offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To learn about visual merchandising and types of display.	Remembering	Conceptual	Class Presentation
CO2	To learn about store exterior & interior in Display.	Remembering	Conceptual	Group Mini Project
CO3	To learn about different fixtures and attention drawing devices used in display.	Remembering	Conceptual	Poster
CO4	To learn about the store planning and the planogram Technique.	Applying	Conceptual	SSA

Programme	Course Code	Title
B. Sc CDF	**19CDU18**	**Draping Practical**

Preamble: To enable the students to drape and construct the garments with details.

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Pre–Requisite : A pass in HSC

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the basic concept of draping and the tools required for draping.	Applying	Technical	Poster presentation/Flow chart/Miniature/Protocol
CO2	To apply the basic concept of draping front bodice, back bodice and collars.	Applying	Technical	
CO3	To apply the basic concept of draping yokes and skirts.	Applying	Technical	SSA
CO4	To apply the basic concept of draping necklines and sleeves with variations.	Applying	Technical	

Programme	Course Code(s)	Course Title
B.Sc.(CS with CG)	19CGU08	DSC IV : Infrastructure Management

Preamble : To provide the skill and knowledge in cloud computing paradigm. This course deals with management of virtual environment, Issues in troubleshooting virtual environments, issues in troubleshooting virtual environments and evaluation of virtual environment.

Expected Level of Output: Conceptual Level

Department Offered : Cognitive Systems

Prerequisites : Basic Knowledge of Operating system and computer network

Course Outcome : On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Verb	Skill Mapping	CIA Capstone
CO1	Understand the concepts of parallel and distributed computing and the various elements of distributed computing	Understand	Communication Skills	Class Presentation
CO2	Understand the implementation levels and structure of virtualization	Understand	Communication Skills	Class Presentation
CO3	Apply vCenter Server and vSphere Concepts	Apply	Managerial Skills	Group Mini Project
CO4	Apply Cloud computing and Service Models using Amazon cloud computing infrastructure	Apply	Technical Skill	Poster Presentation
CO5	Apply Data Center Concepts in Cloud Computing	Apply	Managerial Skills	Self-Support Assignment

Programme	Course Code	Title
B.Sc.(CS with CG)	19CGU10	DSC VI : Problem Solving & Programming Java

Preamble : This course has three credits dedicated to provide the students a strong foundation on Java programming concepts and its application.

Expected Level of Output : Conceptual Level

Department offered: : Cognitive System

Prerequisites : Basic OOPS Concepts such as C++ Programming

Course Outcomes : On successful completion of the course, students will have the ability

CO	Description	Verb	Skill	CIA-Capstone
CO1	To understand OOPS, JVM and java programming structure.	Understand	Communication Skill	Class Presentation
CO2	To apply decision making techniques in the programs	Apply	Technical skill	CIA
CO3	To apply the constructor, methods, interface and packages in programs.	Apply	Conceptual skill	Simulation exercise
CO4	To apply threads and exception handling mechanisms in the program.	Apply	Technical skill	DIA(Quiz)
CO5	To apply collections and applets in the program	Apply	Technical skill	Model

Programme	Course Code	Title
B.Sc.(CS with CG)	19CGU11	DSC Practical V : Practical Programming Lab - Java

Preamble : It enables the students to do the projects and solve the applications using Java programming logic.

Expected Level of Output : Conceptual Level

Department Offered : Cognitive System

Prerequisite : Basic computer skills and mathematical knowledge

Course Outcome : On successful completion of this course students will have ability to

S.No	Description	Verb	Skills	CIA - Cap Stone
CO1	Understand the basic OOPs Concepts and execution flow of the Java program using classes, objects.	Understand	Technical Skills	Poster Presentation
CO2	Understand Control Structures and arrays in Java programs	Understand	Technical Skills	Poster Presentation
CO3	Apply the concepts of Inheritance, Threads, packages and interfaces in creating applications.	Apply	Analytical Skills	Demonstration
CO4	Apply programming skills to Develop Applet applications.	Apply	Analytical Skills	Demonstration

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Programme	Course Code	Title
B.Sc.(CS with CG)	19CGU12	DSC Practical VI : Practical-Programming Lab -Virtualization and Cloud

Preamble : To enable the students to work in a virtual cloud computing environment.

Expected Level of Output : Conceptual Level

Department offered : Cognitive System

Prerequisites : Basic knowledge of operating system and computer networks

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Verb	Skill	CIA –Cap stone
CO 1	Demonstrate cloud computing in the virtual environment of AWS	Apply	Technical Skills	Technical Presentation
CO 2	Demonstrate security groups and private networks	Apply	Technical Skills	Poster Presentation
CO 3	Demonstrate Load Balancing and Virtual Storage	Apply	Technical Skills	Technical Presentation
CO 4	Demonstrate Relational Data Access from EC2	Apply	Technical Skills	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS with CG)	19CGU14	DSC VII – Database Management System

Preamble : To present an introduction to database management systems, with an emphasis on how to organize, maintain and retrieve information efficiently and effectively from a DBMS.

Expected Level of Output : Conceptual Level

Department offered : Information Technology and Cognitive Systems

Prerequisites : Basic knowledge of mathematical set operations, relations with proper understanding of algorithms

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Verb	Skill Mapping	CIA Capstone
CO1	Understand fundamental algebraic operations	Understand	Technical Skills	Technical Presentation
CO2	Understand the database design and various normal forms	Understand	Managerial Skills	Group Assignment
CO3	Apply various data manipulations in Data Base	Apply	Communication Skills	Writing Skills
CO4	Apply Set operators and functions using SQL	Apply	Technical Skills	Poster Presentation
CO5	Apply Cursors, Stored Functions and Data Base Triggers	Apply	Technical Skills	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS with CG)	19CGU15	DSC VIII – Process Management

Preamble : This course provides students with a basic understanding of Software Engineering Process Model and Agile methodologies implemented using DevOps tools in software development process

Expected Level of Output : Conceptual Level

Department offered : Cognitive Systems

Prerequisites : Knowledge in Software Engineering

Course Outcomes : On successful completion of the course, students will have the ability to

S.No	Description	Verb	Skills	CIA - CapStone
CO1	To understand the basics of Software Engineering development methodologies	Understand	Technical Skills	Technical Presentation
CO2	To understand how Agile and Scrum Methods used in Software development process	Understand	Communication Skills	Writing Skills
CO3	To learn DevOps and performance metrics of DevOPs	Apply	Communication Skills	Writing Skills
CO4	To learn Lean and its implementation in DevOps	Apply	Technical Skills	Poster Presentation
CO5	To learn design thinking and actional able strategy	Apply	Managerial Skills	Group Assignments

Programme	Course Code	Title
B.Sc.(CS with CG)	**19CGU16**	**DSC IX : Problem Solving and Programming - Python**

Preamble : On successful completion of the course the students Should have the knowledge about Python Programming

Expected Level of Output : Conceptual Level

Department offered : Cognitive Systems

Prerequisites : Basic knowledge on Programming

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy	Skill Mapping	Capstone Evaluation
CO1	To Understand the execution of the python program using control Structures.	Understand	Technical Skills	Technical presentation
CO2	To Understand the concept of String, Functions, Tuple and Dictionary.	Remember	Communication Skills	Writing Skills
CO3	To Apply classes and objects, file handling mechanism and exception handling.	Analyze	Analytical Skills	Simulation Exercise
CO4	To Apply inheritance, data hiding, packages & modules in python program.	Analyze	Technical Skills	Technical Presentation
CO5	To Understand the concept of descriptive analytics. Learn toload structured data onto Data Frame and perform exploratory data analysis.	Understand	Technical Skills	Poster Presentation

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Programme	Course Code	Title
B B.Sc.(CS with CG)	19CGU17	DSC Practical VIII : Practical-Programming Lab –Database Management System

Preamble :To enable the students to use the basics of SQL and construct queries using SQL in database creation and interaction.

Expected Level of Output :Conceptual Level

Department offered :Cognitive Systems

Prerequisites :Basic knowledge of relations and set operations

Course Outcomes :On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Verb	Skill	CIA –Cap stone
CO 1	Demonstrate DDL and DML Commands	Apply	Technical Skills	Technical Presentation
CO 2	Demonstrate Database Constraints	Apply	Technical Skills	Poster Presentation
CO 3	Demonstrate group functions and date functions	Apply	Technical Skills	Technical Presentation
CO 4	Demonstrate views and database triggers	Apply	Technical Skills	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS with CG)	19CGU18	DSC IX : Practical- Programming Lab -Python

Preamble :This Practical / Laboratory course is designed to provide the students with the knowledge to use Python data types. In addition, the students will earn how to build a machine Learning model using python standard library

Expected Level of Output :Conceptual Level

Department Offered :Cognitive Systems

Prerequisite :Knowledge in Programming and Basic Mathematical concepts

Course outcomes :On successful completion of the course, students will have the ability to

S.No	Description	Verb	Skills	CIA - Cap Stone
CO1	Understand the basic OOPs Concepts and execution flow of the Python program using branching and looping	Understand	Technical Skills	Poster Presentation
CO2	Apply the data structure list, tuple and dictionary and perform operations.	Apply	Analytical Skills	Demonstration
CO3	Apply the concepts of classes, objects, File and Exception handling in creating applications.	Apply	Analytical Skills	Demonstration
CO4	Apply pandas to visualize the data for sample data set using python standard library.	Apply	Analytical Skills	Demonstration

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ .Sc.(CT)/ BCA/B.Sc.(CSA)/ B.Sc.(SS)	**19CSS08**	**Operating System**

Preamble : On completion of this course the students will be able to describe various system resources, Process management and functions of operating systems.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology / Computer Applications /Computer Science and Application /Software Systems

Prerequisites : Basic understanding of computers

Course Outcomes :

On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To learn the fundamentals of operating system	Understand	Conceptual	Technical Presentation
CO2	To learn the mechanisms of *OS* to handle the file system	Remember	Communication	Group Assignment
CO3	To Understand the mechanisms of *OS* to handle processes and their communication	Understand	Conceptual	Writing Skills
CO4	To study and analyze concept relating to asynchronous concurrent processes and deadlock	Analyze	Technical	Poster Presentation
CO5	To Analyze the mechanisms of OS to handle memory management techniques and their allocation	Analyze	Technical Skill	Poster Presentation

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Programme	Course Code(s)	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc.(CSA)/ B.Sc.(SS)	**19CSS09**	**Java Programming**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Java programming concepts and its application.

Expected Level of Output : Conceptual Level

Department offered: : Computer Science / Information Technology/ Computer Technology / Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic OOPS Concepts such as C++ Programming

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics of Java programming languages.	Understand	Technical skill	Writing skill
CO2	Able to explore the concept of Arrays, Class Design, Advanced Class Features, Exception and Assertions, Collection and Generics Framework, I/O Fundamentals, Console I/O, File I/O and Threads Fundamentals.	Analyse	Analytical Skill	Simulation
CO3	Able to relate the concepts of Fork-Join Framework, Parallel Streams and Building Database Applications with JDBC:	Apply	Conceptual Skill	Poster Presentation
CO4	Able to narrate the concepts of Localization and Oracle Cloud	Apply	Technical Skill	Technical Presentation

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Programme	Course Code	Title
B.Sc (CS)	19CSU01	Machine Learning for Data Analysis using Python

Preamble : On successful completion of the course the students should have the knowledge about Python Programming.

Expected Level of Output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basic knowledge on Programming

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution of the python program using control structures, Functions.	Understand	Technical Skills	Technical presentation
CO2	Able to understand the concept of String Concepts & Tuple concepts	Remember	Communication Skills	Writing Skill
CO3	Apply Exception Handling in Python Program	Understand	Technical Skill	Poster Presentation
CO4	Apply Programming skills using the concept of classes & objects, Inheritance in Python Program	Understand	Technical Skill	Poster Presentation
CO5	Apply packages & modules in python program	Apply	Analytical Skill	Simulation Exercise

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Programme	Course Code(s)	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc.(CSA)/ B.Sc.(SS)	19CSS11	Practical-Programming Lab – JAVA

Preamble : It enables the students to do the projects and solve the applications using Java programming.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology / Computer Applications /Computer Science and Application/ Software Systems

Prerequisites : Programming in C++

Course Outcomes : On successful completion of the course, students will be able to,

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Technical Skills	Poster Presentation
CO2	Understand the usage of interfaces and packages in Java programs	Understand	Technical Skills	Poster Presentation
CO3	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Demonstration
CO4	Apply programming skills to develop Applet applications.	Apply	Analytical Skills	Demonstration

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Programme	Course Code	Title
B.Sc(CS)	19CSU02	Practical- Programming Lab-Machine Learning for Data Analysis using Python

Preamble : It enables the students to do the projects and solve the applications using Java programming logic.

Expected Level of Output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basic Knowledge on Programming

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO 1	Understand the execution flow of the Python program using control structure & Branching Statements	Understand	Technical Skills	Technical Presentation
CO 2	Understand the usage of Strings, Dictionaries using python programs	Understand	Technical Skills	Poster Presentation
CO 3	Understand the concept of Exception handling in python programs.	Understand	Technical Skills	Technical Presentation
CO 4	Understand the concepts of classes & objects	Understand	Technical Skills	Poster Presentation

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Programme	Course Code	Title
BCA/B.Sc CS/B.Sc SS	19CSS14	Computer Networks

Preamble : Computer science student must possess knowledge about basic concepts of the fundamentals of data communications networks by gaining a working knowledge of data transmission concepts, understanding the operation of all seven layers of OSI Model and the protocols used in each layer.

Expected Level of Output : Conceptual Level

Department offered : Computer Applications / Computer Science

Prerequisites : Basic understanding of computer terminologies and message sharing.

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the usage of computer networks, network software and network hardware and reference models.	Understand	Communication	Writing Skills
CO2	Analyse the concept of Physical Layer and Data Link Layer	Analyze	Technical	Technical Presentation
CO3	Understand the concept of Network Layer and Different types of Routing Mechanism	Understand	Technical	Technical Presentation
CO4	Analyze the concept of Transport Layers and its protocol	Remember	Managerial	Poster Presentation
CO5	Understand the concept of Application and Presentation Layer and Apply	Apply	Communication	Group Assignment

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Programme	Course Code	Title
B.Sc. CS	19CSU03	Internet of Things

Preamble : This course provides students with a basic understanding of Internet of Things. It enables students to solve design IoT applications in different domain and be able to analyze their performance.

Expected level of output : Conceptual Level

Department offered : Computer Science

Prerequisites : Knowledge in Computer Networks.

Course Outcomes : After successful completion of this course, the students will be able to understand the fundamentals of Internet of Things in the real world scenario.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Analyze various protocols for IoT	Understand	Conceptual Skill	Quiz
CO2	Develop web services to access/control IoT devices.	Remember	Communication Skill	Writing Skill
CO3	Analyze applications of IoT in real time scenario	Analyze	Technical Skill	Poster Presentation
CO4	Deploy an IoT application and connect to the cloud.	Analyze	Technical Skill	Poster Presentation
CO5	Design a portable IoT using Rasperry Pi	Remember	Communication Skill	Writing Skill

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Programme	Course Code	Title
B.Sc(CT)/B.C.A/B.Sc(CS)/ B.Sc(IT)/B.Sc(SS)/B.Sc(CSA)	**19CSS16**	**Database Management System using Oracle**

Preamble : On successful completion of the course the students should have the knowledge about Database, Oracle 12c and PL/SQL.

Expected Level of Output : Conceptual Level

Department offered :Computer Technology / Bachelor of Computer Application / Computer Science /Information Technology / Bachelor of System Software/ Bachelor of Computer Science and Application

Prerequisites : Basic knowledge on Database Management Systems

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic concepts of Database, The models used to represent database and to design the database using Normalization	Remember	Communication	Technical Presentation
CO2	To understand about the Oracle 12c, Database models, System life cycle, Database languages and to manipulate them .To understand how to customize the single row functions, group function, aggregate functions and joins.	Understand	Communication	Writing Skills
CO3	To understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical	Simulation Exercise
CO4	To apply and enhance the ability in program objects and PL/SQL.	Apply	Analytical	Simulation Exercise
CO5	To apply and enhance the knowledge in exceptions, stores procedures, triggers and event handling.	Apply	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc.(CSA)/ B.Sc.(SS)	19CSS17	Practical-Programming Lab – Visual Basic and Oracle

Preamble : On successful completion of the course the students should have the knowledge to write SQL queries and to develop PL/SQL Blocks, Database Triggers and connect databases with Visual Basic

Expected Level of Output : Conceptual Level

Department offered :Computer Science / Information Technology/ Computer Technology/ Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic Knowledge of data

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution of SQL Queries using SELECT Statements and Conditional Operators and Built in Functions	Remember	Technical Skills	Poster Presentation
CO2	Recognize the use of joins and sub queries in Oracle	Understand	Technical Skills	Poster Presentation
CO3	.Apply the Concept of Control Structure in Procedural Language for Structure Query Language(PL/SQL)	Apply	Managerial Skills	Self-Support Assignment
CO4	Apply the concept of Database Connection	Apply	Managerial Skills	Self-Support Assignment

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ .Sc.(CT)/ BCA/B.Sc.(CSA)/ B.Sc.(SS)	**19CSS18**	**Practical –Programming Lab - Software Testing Using Selenium**

Preamble : To understand the Selenium course and provides the knowledge to Automate any Web-based Application

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology / Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic Working Level

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to remember the basic concepts of Web driver	Apply	Managerial	Self Supporting Assignment
CO2	Able to understand the selenium methods and linking concepts	Apply	Managerial	Self Supporting Assignment
CO3	To locate a frame using Name	Analyze	Technical	Poster Presentation
CO4	To synchronize the test using implicit and explicit wait	Analyze	Technical	Poster Presentation
CO5	To work with Web driver using parameters, pop up windows and forms	Analyze	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc (CDF)	19GEU24	PC- Software

Preamble : On completion of course, students are able to develop fundamental knowledge of computer and MS-Office packages.

Expected Level of Output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basic understanding of computers

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to remember the basics of fundamentals of MSOffice.	Remember	Managerial	Self-Support Assignments
CO2	Able to develop and work effectively in document, excel sheets and power point presentation.	Apply	Technical skills	Poster presentation
CO3	Able to apply various tools to create new designs effectively.	Apply	Technical skills	Poster presentation

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Programme	Course Code	Title
B.Sc (CSHM)	19GEU25	Front office Automation

Preamble : On completion of course, students are able to develop fundamental knowledge of computer and MS-Office packages.

Expected Level of Output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basic understanding of computers

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to remember the basics of fundamentals of MSOffice.	Remember	Managerial	Self-Support Assignments
CO2	Able to develop and work effectively in document, excel sheets and power point presentation.	Apply	Technical skills	Poster presentation
CO3	Able to apply various tools to create new designs effectively.	Apply	Technical skills	Poster presentation

Programme	Course Code	Course
BBA (CA) Clayton	**19GEU26**	**Advanced Computer Application**

Preamble : In business and industry it assumes that the student is conversant with basic computer skills and builds on that base. Emphasis is on the application of advanced features of electronic spreadsheets, word-processing and presentation graphics the fundamentals of database systems; use of the Internet for research.

Expected Level of Output : Basic Working Level

Department offered: : Computer Science

Prerequisites : Basics of Programming

Course Outcome : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Create, format and enhance a power point presentation	Understand	Conceptual Skill	Poster Presentation
CO2	Create tables, records and work with queries, forms and reports.	Remember	Technical skill	Self Support Assignment
CO3	Create worksheets and work with formulas, functions, charts and validate data	Apply	Technical skill	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS)	**19SEC04**	**Web Designing**

Preamble : Web design encompasses many different skills and disciplines in the development and maintenance of websites

Expected Level of Output : Technical Level and Conceptual Level

Department offered : Computer Science

Prerequisites : Basic understanding of web pages.

Course Outcomes : On successful completion of this course students will learn how to design create and maintain the web pages and websites.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand about the internet basics and how the internet works.	Understand	Conceptual Skills	Self Support Assignment
CO2	Ability to handle the HTML tags to create web pages.	Evaluate	Technical Skills	Self Support Assignment
CO3	Able to understand HTML tags and apply the for designing the web site and web pages.	Understand, Apply	Conceptual Skill, Analytical Skill	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)	19CSS08	Operating System

Preamble	On completion of this course the students will be able to describe various system resources, Process management and functions of operating systems.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Information Technology
Prerequisites	Basic understanding of computers
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Blooms Verb	Skill	Capstone
CO1	To learn the fundamentals of operating system	Understand	Conceptual	Technical Presentation
CO2	To learn the mechanisms of OS to handle the file system	Remember	Communication	Group Assignment
CO3	To Understand the mechanisms of OS to handle processes and their communication	Understand	Conceptual	Writing Skills
CO4	To study and analyze concept relating to asynchronous concurrent processes and deadlock	Analyze	Technical	Poster Presentation
CO5	To Analyze the mechanisms of OS to handle memory management techniques and their allocation	Analyze	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS09	Java Programming

Preamble	This course has four credits dedicated to provide the students a strong foundation on Java programming concepts and its application.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic OOPS Concepts such as C++ Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Verb	Skill	CIA-Capstone
CO1	Able to understand the basics of Java programming languages using JDK and analyze the difference between Structured Programming and Object Oriented Programming.	Understand	Technical	Writing skill
CO2	Able to Understand the Array basics, Exceptions, Threads and I/O Fundamentals.	Analyze	Analytical	Simulation
CO3	Able to Understand the Advanced Java Concepts and Networking Concepts,	Apply	Conceptual	Poster Presentation
CO4	Able to Understand Swing API, Swing Components and GUI Events.	Apply	Technical	Technical Presentation

Programme	Course Code	Title
B.Sc(CSA)B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS10	Python Programming

Preamble	On successful completion of the course the students should have the knowledge about Python Programming.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic knowledge on Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution of the python program using control structures, Functions.	Understand	Technical	Technical presentation
CO2	Able to understand the concept of String Concepts & Tuple concepts	Remember	Communication	Writing Skill
CO3	Apply Exception Handling in Python Program	Understand	Technical	Poster Presentation
CO4	Apply Programming skills using the concept of classes & objects, Inheritance in Python Program	Understand	Technical	Poster Presentation
CO5	Apply packages & modules in python program	Apply	Analytical	Simulation Exercise

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Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS11	Practical- Programming Lab – JAVA

Preamble	It enables the students to do the projects and solve the applications using Java programming logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Programming in C++
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Technical Skills	Poster Presentation
CO2	Understand the usage of interfaces and packages in Java programs	Understand	Technical Skills	Poster Presentation
CO3	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Demonstration
CO4	Apply programming skills to develop Applet applications.	Apply	Analytical Skills	Demonstration

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS12	Practical-Programming Lab-Python

Preamble	It enables the students to do the projects and solve the applications using Python programming logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic Knowledge on Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution flow of the Python program using control structure & Branching Statements	Understand	Technical	Technical Presentation
CO2	Understand the usage of Strings, Dictionaries using python programs	Understand	Technical	Poster Presentation
CO3	Understand the concept of Exception handling in python programs.	Understand	Technical	TechnicalPresentation
CO4	Understand the concepts of classes & objects	Understand	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/ B.Sc(CT)/B.Sc(IT)	19CSS13	Data Communication and Networks

Preamble	Computer science student must possess knowledge about basic concepts of the fundamentals of data communications networks by gaining a working knowledge of data transmission concepts, understanding the operation of all seven layers of OSI Model and the protocols used in each layer.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology / System Software /Information Technology / Computer Science and Application
Prerequisites	Basic understanding of computer networks
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Able to understand the Data Communication Networking, mode of Transmission and Multiplexing, Transmission Media.	Remember	Communication	Writing skills
CO2	Able to understand the idea on Network Topologies, Switching, Router and Routing Algorithm, OSI Model	Understand	Technical	Technical presentation
CO3	Able to evaluate the concepts LAN,MAN ,WAN, Internetworking Concepts, Devices	Understand	Technical	Poster presentation
CO4	Able to understand the concept of Internal Architecture of an ISP, DSL,TCP/IP	Understand	Technical	Group assignments
CO5	Able to implement the concept of FTP, Email, TFTP, WWW, HTTP	Apply	Technical	Group assignments

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS15	Software Engineering

Preamble	This course provides the basics of software development in various environment using different methods
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic understanding of software development
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Able to understand the concept of software process models.	Understand	Conceptual	Class Presentation
CO2	Able to understand the concept of analysis and design modelling.	Understand	Conceptual	Group- Mini Project
CO3	Able to apply the Concept of software quality assurance and software testing	Apply	Technical	Self Support Assignment
CO4	Able to apply the Concept of software configuration management and risk management	Apply	Technical I	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS16	Database Management System using Oracle

Preamble : On successful completion of the course the students should have the knowledge about Database, Oracle 12c and PL/SQL.

Expected Level of Output : Conceptual Level

Department offered : Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application

Prerequisites : Basic knowledge on Database Management Systems

Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	To Understand the basic concepts of Database, The models used to represent database and to design the database using Normalization	Remember	Communication	Technical Presentation
CO2	To understand about the Oracle 12c, Database models, System life cycle, Database languages and to manipulate them .To understand how to customize the single row functions, group function, aggregate functions and joins.	Understand	Communication	Writing Skills
CO3	To understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical	Simulation Exercise
CO4	To apply and enhance the ability in program objects and PL/SQL.	Apply	Analytical	Simulation Exercise
CO5	To apply and enhance the knowledge in exceptions, stores procedures, triggers and event	Apply	Technical	Poster Presentation

	handling.			

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	**19CSS17**	**Practical-Programming Lab – Visual Basic and Oracle**

Preamble	On successful completion of the course the students should have the knowledge to write SQL queries and to develop PL/SQL Blocks, Database Triggers and connect databases with Visual Basic
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic Knowledge of data
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution of SQL Queries using SELECT Statements and Conditional Operators and Built in Functions	Remember	Technical	Poster Presentation
CO2	Recognize the use of joins and sub queries in Oracle	Understand	Competitive	Poster Presentation
CO3	.Apply the Concept of Control Structure in Procedural Language for Structure Query Language(PL/SQL)	Apply	Conceptual	Self Support Assignment
CO4	Apply the concept of Database Connection	Apply	Technical	Self Support Assignment

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS18	Practical –Programming lab -Software Testing Using Selenium

Preamble	To understand the Selenium course and provides the knowledge to Automate any Web-based Application
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic Working Level
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Able to remember the basic concepts of Web driver	Apply	Managerial	Self Supporting Assignment
CO2	Able to understand the selenium methods and linking concepts	Apply	Managerial	Self Supporting Assignment
CO3	To locate a frame using Name	Analyze	Technical	Poster Presentation
CO4	To synchronize the test using implicit and explicit wait	Analyze	Technical	Poster Presentation
CO5	To work with Web driver using parameters, pop up windows and forms	Analyze	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/ B.Sc.(CSA)/ B.Sc.(SS)	**19CSS08**	**Operating System**

Preamble : On completion of this course the students will be able to describe various system resources, Process management and functions of operating systems.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology /Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic understanding of computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To learn the fundamentals ofoperating system	Understand	Technical Skills	Technical Presentation
CO2	To learn the mechanisms of OS to handle the file system	Remember	CommunicationSkills	Group Assignment
CO3	To understand the mechanisms of OS to handle processes and their communication	Understand	CommunicationSkills	Writing Skills
CO4	To study and analyze concept relating to asynchronous concurrent processes and deadlock	Analyze	Technical Skills	Poster Presentation
CO5	To Analyze the mechanisms of OS to handle memory management techniques and their allocation	Analyze	Technical Skills	Poster Presentation

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/ B.Sc.(CSA)/ B.Sc.(SS)	**19CSS09**	**Java Programming**

Preamble : This course has four credits dedicated to provide the students a strong foundation on Java programming concepts and its application.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology /Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic OOPS Concepts such as C++ Programming

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics of Javaprogramming languages	Understand	Communi cation Skills	Writing skill
CO2	Able to explore the conceptof Arrays, Class Design, Advanced Class Features, Exception and Assertions, Collection and Generics Framework,I/O Fundamentals, Console I/O, File I/O and Threads Fundamentals.	Analyze	Analytical Skills	Simulation Exercise
CO3	Able to relate the concepts of Fork-Join Framework, Parallel Streams and Building Database Applications with JDBC:	Apply	Technical Skills	Poster Presentation
CO4	Able to narrate the concepts of Localization and Oracle Cloud	Apply	Technical Skills	Technical Presentation
CO5	Able to understand the basics of Java programming languages	Understand	Communic ation Skills	Writing skill

Programme	Course Code	Title
B.Sc (CT)	**19CTU01**	**Data Analysis using Python**

Preamble : On successful completion of the course the students should have the knowledge about Python Programming.

Expected level of output : Conceptual Level

Department offered : Computer Technology

Prerequisites : Basic knowledge on Programming

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution of the python program using control structures, Functions.	Understand	Technical Skills	Technical presentation
CO2	Able to understand the concept of String Concepts & Tuple oncepts	Remember	Communication Skills	Writing Skill
CO3	Apply Programming skills using the concept of classes & objects, Inheritance in Python Program	Understand	Technical Skills	Poster Presentation
CO4	Apply python libraries for Array Data Processing	Understand	Technical Skills	Poster Presentation
CO5	Apply python libraries for Grouping and Merging Data sets	Apply	Analytical Skills	Simulation Exercise

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/BCA/B.Sc. (CSA)/ B.Sc.(SS)	**19CSS11**	**Practical-Programming Lab - JAVA**

Preamble : It enables the students to do the projects and solve the applications using Java programming.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology /Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Programming in C++

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Technical Skills	Poster Presentation
CO2	Understand the usage of interfaces and packages in Javaprograms	Understand	Technical Skills	Poster Presentation
CO3	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Demonstration
CO4	Apply programming skills to develop Applet applications.	Apply	Analytical Skills	Demonstration

Programme	Course Code	Title
B.Sc (CT)	19CTU02	Practical-Programming - Data Analysis using Python - Lab

Preamble : It enables the students to do the projects and solve the applications using Java programming logic.

Expected level of output : Conceptual Level

Department offered : Computer Technology

Prerequisites : Basic knowledge on Programming

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution flow of the Python program using control structure & Branching	Understand	Technical Skills	Technical Presentation
CO2	Understand the usage of Strings, Dictionaries using pythonprograms	Understand	Technical Skills	Poster Presentation
CO3	Understand the concept ofClasses and Objects in python programs.	Understand	Technical Skills	Technical Presentation
CO4	Understand the concepts of Data Processing using Numpy:N-Dimensional Arrays	Understand	Technical Skills	Poster Presentation

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Programme	Course Code	Title
B.Sc(IT)/B.Sc(CT)/ B.Sc(CSA)	19CSS13	Data Communication and Networks

Preamble : Computer science student must possess knowledge about basic concepts of the fundamentals of data communications networks by gaining a working knowledge of data transmission concepts, understanding the operation of all seven layers of OSI Model and the protocols used in each layer.

Expected level of output : Conceptual Level

Department offered : Information Technology / Computer Technology / Computer Science and Application

Prerequisites : Basic understanding of computer networks

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the Data Communication Networking, mode of Transmission and Multiplexing, ransmission Media.	Remember	Communic ationSkills	Writingskills
CO2	Able to understand the idea on Network Topologies, Switching,Router and Routing Algorithm, OSI Model	Understand	Technical Skills	Technical presentation
CO3	Able to evaluate the concepts LAN,MAN ,WAN, InternetworkingConcepts, Devices	Understand	Technical Skills	Poster presentation
CO4	Able to understand the concept of Internal Architecture of an ISP, DSL,TCP/IP	Understand	Managerial Skills	Group assignments
CO5	Able to implement the concept ofFTP, Email, TFTP, WWW, HTTP	Apply	Managerial Skills	Group assignments

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Programme	Course Code	Title
B.Sc(CT)	19CTU03	Knowledge Management

Preamble : Students should have basic knowledge of the latest theory and practice of Knowledge Management (KM), with an integrated interdisciplinary presentation, KM perspectives arising simultaneously from artificial intelligence, information systems, and organizational behavior.

Expected level of output : Conceptual Level

Department offered : Computer Technology

Prerequisites : Basic understanding of Knowledge Management

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the fundamental concepts in the study of knowledge and its creation, acquisition, representation, dissemination, use and re-use, and management	Understand	Communication Skills	Class Presentation
CO2	Understand the role and use of knowledge in organizations and institutions, and the typical obstacles that KM aims to overcome.	Understand	Managerial Skills	Group- Mini Project
CO3	Remember the core concepts, methods, techniques, and tools for computer support of knowledge management.	Apply	Managerial Skills	Self Support Assignment
CO4	Understand how to apply and integrate appropriate components and functions of various knowledge management systems..	Apply	Technical Skills	Poster Presentation
CO5	Analyze current trends in knowledge management and their manifestation in business andindustry.	Apply	Technical Skills	Poster Presentation

Programme	Course Code	Title
B.Sc. (CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/ B.Sc.(CSA)/ B.Sc.(SS)	**19CSS16**	**Database Management system using Oracle**

Preamble : On successful completion of the course the students should have the knowledge about Database, Oracle 12c and PL/SQL.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology /Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic knowledge on Database Management Systems

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the basic concepts of Database, The models used to represent database and to design the database using Normalization	Remember	Technical Skills	Technical Presentation
CO2	To understand about the Oracle 12c, Database models, System life cycle, Database languages and to manipulate them .To understand how to customize the single row functions, group function, aggregate functions and joins.	Understand	CommunicationSkills	WritingSkills
CO3	To understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical Skills	Simulation Exercise
CO4	To apply and enhance the ability inprogram objects and PL/SQL.	Apply	Analytical Skills	Simulation Exercise
CO5	To apply and enhance the knowledge in exceptions, stores procedures, triggersand event handling.	Apply	Technical Skills	Poster Presentation

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/ B.Sc.(CSA)/ B.Sc.(SS)	**19CSS17**	**Practical-Programming Lab – Visual Basic and Oracle**

Preamble : On successful completion of the course the students should have the knowledge about Python Programming. On successful completion of the course the students should have the knowledge to write SQL queries and to develop PL/SQL Blocks, Database Triggers and connect databases with Visual Basic

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology /Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic Knowledge of data

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution of SQL Queries using SELECT Statements and Conditional Operators and Built in Functions	Remember	Technical Skills	Poster Presentation
CO2	Recognize the use of joins and subqueries in Oracle	Understand	Technical Skills	Poster Presentation
CO3	.Apply the Concept of Control Structure in Procedural Language for Structure Query Language(PL/SQL)	Apply	Managerial Skills	Self Support Assignment
CO4	Apply the concept of Database Connection	Apply	Managerial Skills	Self Support Assignment

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/ B.Sc.(CSA)/ B.Sc.(SS)	**19CSS18**	**Practical - Programming Lab – Software Testing Using Selenium**

Preamble : To understand the Selenium course and provides the knowledge to Automate any Web-based Application

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology /Computer Applications /Computer Science and Application/Software Systems

Prerequisites : Basic Working Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to remember the basicconcepts of Web driver	Apply	Managerial Skills	Self Supporting Assignment
CO2	Able to understand the selenium methods and linking concepts	Apply	Managerial Skills	Self Supporting Assignment
CO3	To locate a frame using Name	Analyze	Technical Skills	Poster Presentation
CO4	To synchronize the test using implicit and explicit wait	Analyze	Technical Skills	Poster Presentation
CO5	To work with Web driver usingparameters, pop up windows and forms	Analyze	Technical skills	Poster Presentation

Programme	Course Code	Title
B.A. English Literature	19ENU05	British Literature from Milton to Dryden

Preamble : This course will present a broad overview of English literature from the age of Milton to the age of Dryden. The course will help the students to analyze the intrinsic relationship between art and politics in the age of Milton and Dryden. It also facilitates them to critically appreciate the literary works of the century.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To instil knowledge about the brief introduction to the Age of Milton.	Understanding	Conceptual	Technical Presentation
CO2	To enable the students to have a deeper understanding of the Age of Johnson.	Remembering	Conceptual	Poster Presentation
CO3	To understand the poetic devices employed in the poems.	Analyzing	Conceptual	Writing Skills
CO4	To make learners understand that fiction is a mirror of life by making them aware of evolution of life, realism and so on.	Analyzing	Analytical	Group Assignment
CO5	To enable learners know the nuances of drama in the age of Milton and Dryden.	Analyzing	Analytical	Writing Skills

Programme	Course Code	Title
B.A. English Literature	**19ENU06**	**History of English Language**

Preamble : To give the students' knowledge about the background of English language and literature and the different periods in the history of English literature.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the origin of Language and the old English period	Analyzing	Conceptual	Technical Presentation
CO2	To learn about the Middle English period the renaissance and After	Analyzing	Conceptual	Poster Presentation
CO3	To understand the Growth of Vocabulary and the Change of Meaning	Understanding	Conceptual	Writing Skills
CO4	To analyse the Evolution of Standard English and the modern Idioms and Metaphor	Remembering	Analytical	Group Assignment
CO5	To understand the Foreign Contribution to growth of English.	Understanding	Analytical	Writing Skills

Programme	Course Code	Title
B.A. English Literature	19ENU07	British Literature from Pope to Johnson

Preamble : This course will present a broad overview of English literature from the age of Pope to the age of Johnson. The course will help the students to analyze the intrinsic relationship between art and politics in the age of Pope and Johnson. It also facilitates them to critically appreciate the literary works of the century.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the verse, Prose, and Drama during the ages of Pope and Johnson.	Understanding	Conceptual	Technical Presentation
CO2	To enable the students to have a deeper understanding of the poems during the Age of pope.	Remembering	Conceptual	Poster Presentation
CO3	To enable the students to have a deeper understanding of the poems during the Age of Johnson.	Analyzing	Conceptual	Writing Skills
CO4	To make learners understand the structure of early fiction.	Analyzing	Analytical	Group Assignment
CO5	To enable learners to know the nuances of drama in the age of Pope and Johnson	Analyzing	Analytical	Writing Skills

Programme	Course Code	Title
B.A. English Literature	19ENU08	Introduction to Criticism and Theories

Preamble : To trace the development of literary theories and concepts from the Classical Age to the Twentieth Century.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To make learners aware of the Classical writers and to evaluate their concepts.	Understanding	Conceptual	Class Presentation
CO2	To understand the shift from Classical to Neo-Classical Criticism	Understanding	Conceptual	Technical Presentation
CO3	To make the learners aware of the Criticism during the Romantic and Victorian period.	Understanding	Conceptual	Technical Presentation
CO4	To enable learners know the nuances of Twentieth Century Criticism.	Understanding	Conceptual	Technical Presentation
CO5	To understand the basics of Criticism with reference to critical terms and concepts.	Remembering	Conceptual	Group Mini Project

Programme	Course Code	Title
B.A. English Literature	**19ENU09**	**Language Constructs**

Preamble : To enhance students to achieve a scientific sense through linguistics in order to complete the aesthetics sense from their study of literature. To enable them to learn an acceptable system of sound and pronunciation.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To enable the students to comprehend the basic concept of grammar.	Understanding	Conceptual	Class Presentation
CO2	To make the students understand how grammatical structure are systematically related to meaning.	Remembering	Conceptual	Group discussion
CO3	To study the origin of language and the speech organs.	Remembering	Analytical	Writing Skills
CO4	To make the students aware of the teaching techniques through English language.	Analyzing	Analytical	Poster presentation
CO5	To analyze the scientific pattern of the language, structure, forms and its functions.	Analyzing	Analytical	Writing Skills

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Programme	Course Code	Title
B. Sc (C S)/B. Sc (IT)/ B.Sc (CT)/ BCA/ B. Sc (CSA)/B. Sc (SS)	**19CSS08**	**Operating System**

Preamble : On completion of this course the students will be able to describe various system resources, Process management and functions of operating systems

Expected level of output : Conceptual Level

Department offered : Information Technology /Computer Technology / Bachelor of Computer Applications / Computer Science / Bachelor of System Software/ Bachelor of Computer Science and Application

Prerequisites :Basic understanding of computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To learn the fundamentals of operating system	Understand	Technical Skills	Technical Presentation
CO2	To learn the mechanisms of ***OS*** to handle the file system	Remember	Communication Skills	Group Assignment
CO3	To Understand the mechanisms of ***OS*** to handle processes and their communication	Understand	Communication Skills	Writing Skills
CO4	To study and analyze concept relating to asynchronous oncurrent processes and deadlock	Analyze	Technical Skills	Poster Presentation
CO5	To Analyze the echanisms of ***OS*** to handle memory management techniques and their allocation	Analyze	Technical Skills	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS09	Java Programming

Preamble	This course has four credits dedicated to provide the students a strong foundation on Java programming concepts and its application.
Expected Level of Output	Conceptual Level
Department offered	Computer Science and Applications / Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems
Prerequisites	Basic OOPS Concepts such as C++ Programming
Course Outcomes	**On successful completion of the course, students will have the ability to**

CO	Description	Verb	Skill	CIA-Capstone
CO1	Able to understand the basics of Java programming languages using JDK and analyze the difference between Structured Programming and Object Oriented Programming.	Understand	Technical	Writing skill
CO2	Able to Understand the Array basics, Exceptions, Threads and I/O Fundamentals.	Analyze	Analytical	Simulation
CO3	Able to Understand the Advanced Java Concepts and Networking Concepts,	Apply	Conceptual	Poster Presentation

Programme	Course Code(s)	Title
B. Sc (IT)	**19ITU01**	**Machine Learning Using Python**

Preamble : To impart the necessary knowledge of the mathematical foundations needed for data science, develop programming skills required to build data science applications and to train the students to understand the various Case Studies of Machine learning concepts.

Expected Level of Output : Conceptual Level

Department Offered : Information Technology

Prerequisite : Basic Mathematical Knowledge

Course Outcomes : On successful completion of the course, students will have the ability to

S.No	Description	Verb	Skills	CIA - Cap Stone
CO1	Understand how machine learning is used to solve problems in real world and what are the key libraries in Python and their purpose	Understanding	Communication Skills	Class Presentation
CO2	Understand the concept of descriptive analytics. Learn to load structured data onto Data Frame and perform exploratory data analysis	Understanding	Technical Skills	Technical Presentation
CO3	Learn the concept of a random variable and its role in analytics learn how to formulate and carry out hypothesis tests such as one-sample Z-test etc.	Apply	Managerial Skills	Group Mini Project
CO4	Learn to build simple linear regression and multiple linear regression models using the Python package stats model	Apply	Managerial Skills	Group Mini Project
CO5	Learn to build logistic regression and decision tree models using the Python package stats model and sklearn APIs	Apply	Communication Skills	Group Discussion

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS11	Practical-Programming Lab – JAVA

Preamble	It enables the students to do the projects and solve the applications using Java programming logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Science and Applications/ Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems
Prerequisites	Programming in C++
Course Outcomes	**On successful completion of the course, students will have the ability to**

CO	Description	Verb	Skill	CIA-Cap stone
CO1	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Technical Skills	Poster Presentation
CO2	Understand the usage of interfaces and packages in Java programs	Understand	Technical Skills	Poster Presentation
CO3	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Demonstration
CO4	Apply programming skills to develop Applet applications.	Apply	Analytical Skills	Demonstration

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Programme	Course Code(s)	Title
B. Sc (IT)	19ITU02	Practical- Programming Lab- Machine Learning Using Python

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Python data types. In addition, the students will learn how to build a machine Learning model using python standard library.

Expected Level of Output : Conceptual Level

Department Offered : Information Technology

Prerequisite : Knowledge in Basic Mathematical concepts

Course outcomes : On successful completion of the course, students will have the ability to

S.No	Description	Verb	Skills	CIA - Cap Stone
CO1	Learn how to get started with setting up the Anaconda platform and learn the basic features of Python language to get started with machine learning tasks	Remembering	Conceptual Skills	Technical Presentation
CO2	Understand the concept of simple and multiple linear regression. Classification and its applications in predictive analytics	Understanding	Conceptual Skills	Simulation Exercise

Programme	Course Code	Title
B.Sc(CSA)/ B.Sc(CT)/B.Sc(IT)	19CSS13	Data Communication and Networks

Preamble	Computer science student must possess knowledge about basic concepts of the fundamentals of data communications networks by gaining a working knowledge of data transmission concepts, understanding the operation of all seven layers of OSI Model and the protocols used in each layer.
Expected Level of Output	Conceptual Level
Department offered	Computer Science and Applications/ Computer Technology / Information Technology
Prerequisites	Basic understanding of computer networks
Course Outcomes	**On successful completion of the course, students will have the ability to**

Course Outcome	Description	Blooms Verb	Skill Mapping	CIA - Capstone
CO1	Able to understand the Data Communication Networking, mode of Transmission and Multiplexing, Transmission Media.	Remember	Communication	Writing skills
CO2	Able to understand the idea on Network Topologies, Switching, Router and Routing Algorithm, OSI Model	Understand	Technical	Technical presentation
CO3	Able to evaluate the concepts LAN,MAN ,WAN, Internetworking Concepts, Devices	Understand	Technical	Poster presentation
CO4	Able to understand the concept of Internal Architecture of an ISP, DSL,TCP/IP	Understand	Technical	Group assignments
CO5	Able to implement the concept of FTP, Email, TFTP, WWW, HTTP	Apply	Technical	Group assignments

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Programme	Course Code	Title
B.Sc(IT))	19ITU03	Social Media Mining and Analytics

Preamble	This course provides students with a basic understanding of social media, network models of social network, data mining, community analysis, recommendation in media and behavior analysis.
Expected Level of Output	Conceptual Level
Department offered	Information Technology
Prerequisites	Knowledge in social media, basic network
Course Outcomes	**On successful completion of the course, students will have the ability to**

Course Outcome	Description	Blooms Verb	Skill Mapping	CIA - Capstone
CO1	To understand the basics of Social Media and graph essentials	Understand	Technical Skills	Technical Presentation
CO2	To understand how network and their models used in Social Media	Understand	Communication Skills	Writing Skills
CO3	To learn data mining and its need in Social Media with algorithms	Apply	Communication Skills	Writing Skills
CO4	To learn different communities involved in Social Media and recommendations	Apply	Technical Skills	Poster Presentation
CO5	To understand and analyze different behaviors on Social Media	Apply	Managerial Skills	Group Assignments

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS16	Database Management System using Oracle

Preamble	On successful completion of the course the students should have the knowledge about Database, Oracle 12c and PL/SQL.
Expected Level of Output	Conceptual Level
Department offered	Computer Science and Applications/ Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems
Prerequisites	Basic knowledge on Database Management Systems
Course Outcomes	**On successful completion of the course, students will have the ability to**

CO	Description	Bloom's Verb	Skill	CIA - Cap stone
CO1	To Understand the basic concepts of Database, The models used to represent database and to design the database using Normalization	Remember	Communication	Technical Presentation
CO2	To understand about the Oracle 12c, Database models, System life cycle, Database languages and to manipulate them .To understand how to customize the single row functions, group function, aggregate functions and joins.	Understand	Communication	Writing Skills
CO3	To understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical	Simulation Exercise
CO4	To apply and enhance the ability in program objects and PL/SQL.	Apply	Analytical	Simulation Exercise
CO5	To apply and enhance the knowledge in exceptions, stores procedures, triggers and event handling.	Apply	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS17	Practical-Programming Lab – Visual Basic and Oracle

Preamble	On successful completion of the course the students should hav the knowledge to write SQL queries and to develop PL/SQL Blocks Database Triggers and connect databases with Visual Basic
Expected Level of Output	Conceptual Level
Department offered	Computer Science and Applications/ Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems
Prerequisites	**Basic Knowledge of data**
Course Outcomes	**On successful completion of the course, students will have the ability to**

CO	Description	Verb	Skill	CIA -Cap stone
CO1	Understand the execution of SQL Queries using SELECT Statements and Conditional Operators and Built in Functions	Remember	Technical	Poster Presentation
CO2	Recognize the use of joins and sub queries in Oracle	Understand	Competitive	Poster Presentation
CO3	.Apply the Concept of Control Structure in Procedural Language for Structure Query Language(PL/SQL)	Apply	Conceptual	Self Support Assignment
CO4	Apply the concept of Database Connection	Apply	Technical	Self Support Assignment

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS18	Practical –Programming lab - Software Testing Using Selenium

Preamble	To understand the Selenium course and provides the knowledge to Automate any Web-based Application
Expected Level of Output	Conceptual Level
Department offered	Computer Science and Applications / Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems
Prerequisites	Basic Working Level
Course Outcomes	**On successful completion of the course, students will have the ability to**

CO	Description	Verb	Skill	CIA - Cap stone
CO1	Able to remember the basic concepts of Web driver	Apply	Managerial	Self Supporting Assignment
CO2	Able to understand the selenium methods and linking concepts	Apply	Managerial	Self Supporting Assignment
CO3	To locate a frame using Name	Analyze	Technical	Poster Presentation
CO4	To synchronize the test using implicit and explicit wait	Analyze	Technical	Poster Presentation
CO5	To work with Web driver using parameters, pop up windows and forms	Analyze	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc. Mathematics	19MAU07	DSC-VII – Analytical Geometry of Three Dimensions and Vector Calculus

Preamble: This course enables the students to acquire knowledge about Analytical Geometry of 3D Objects, Vector Differentiation, and Integration

Expected level of output: Conceptual level

Department offered: Mathematics

Prerequisites: A pass in HSC

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to construct sphere equation and study their properties	Understanding	Conceptual	Simulation Exercise
CO2	Able to Develop 3D Objects like Cone, Cylinder and Central Quadrics	Understanding	Conceptual	Poster Presentation
CO3	Able to solve problems using differential Operators	Applying	Technical	Technical Presentation
CO4	Able to reduce different forms of Integrals	Applying	Analytical	Group Assignment

Programme	Course Code	Title
B.Sc. Mathematics	19MAU08	DSC-VIII – Differential Equations and Laplace Transforms

Preamble: This course enables the students to solve ordinary and partial differential equations, higher order linear differential equations, partial differential equations and Laplace transforms

Expected level of output: Conceptual level

Department offered: Mathematics

Prerequisites: A pass in HSC

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to recall the fundamental concepts of Ordinary Differential Equations to find the solutions	Remember	Conceptual	Quiz
CO2	Able to Choose the most suitable method to solve linear differential equations	Applying	Analytical	Simulation Exercises
CO3	Able to make use of appropriate method to derive solutions of Partial Differential Equations	Applying	Analytical	Puzzles/ Games
CO4	Able to learn the Laplace and Inverse Laplace Techniques to translate models, interpret results and make predictions within the original context	Understand	Conceptual	Quiz

Programme	Course Code	Title
B.Sc. Mathematics	**19MAU09**	**DSC-IX – Practical- Geogebra**

Preamble: This lab course will enable the students to relate the concepts of Algebra and Linear equations and to give the knowledge of visualizing the given problem using the GeoGebra

Expected level of output: Practical l level

Department offered: Mathematics

Prerequisites: A pass in HSC

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to recall the fundamental concepts of linear equations and Quadratic equations	Remember	Conceptual	Technical Presentation
CO2	Able to visualize the polynomials, absolute values and sine waves	Applying	Analytical	Poster presentation
CO3	Able to solve the simple problems by utilizing appropriate code to envisage the result.	Applying	Technical	Demonstration

Programme	Course Code	Title
B.Sc. Mathematics	19GEU40	GEC- III – PYTHON PROGRAMMING

Preamble: On successful completion of the course students should have knowledge about Python Programming.

Expected level of output: Conceptual Level

Department offered: BCA

Prerequisites: Basic Knowledge in Python Programming

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution of the python program using control structures.	Understand	Technical Skills	Class presentation
CO2	Understand the concept of Functions, Strings and List	Remember	Communication Skills	Group Mini Project
CO3	Able to understand the concept of Tuples and Dictionaries.	Understand	Technical Skill	Poster Presentation
CO4	Apply File concepts and Exceptions in Python Program	Understand	Technical Skill	Poster Presentation
CO5	Apply Programming skills using the concept of classes & objects in python program	Apply	Analytical Skill	Self-Support Assignment

Programme	Course Code	Title
B.Sc. Mathematics	19GEU41	GEC-III - Python Programming Lab

Preamble: On successful completion of the course students should have knowledge about Python Programming.

Expected level of output: Conceptual level

Department offered: BCA

Prerequisites: Basic Knowledge in Python Programming Lab

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom'sTaxonomy Level	Skill Mapping	Capstone Evaluation
CO 1	Analyze the flow of execution in Python program using control structure and Branching Statements	Remember	Conceptual	Quiz
CO 2	Apply the concept of Strings and List in python programs	Understand	Analytical	Simulation Exercises
CO 3	Apply the concept of Tuple and Dictionaries in python programs	Understand	Analytical	Puzzles/ Games
CO 4	Apply the concept of Files and Exception in python programs	Understand	Conceptual	Quiz
CO 5	Analyze the concepts of Classes and Objects in python programs	Remember	Conceptual	Quiz

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Programme	Course Code	Title
B.Sc. Mathematics	**19GEU42**	**GEC-III – Visual Basic**

Preamble: This course has four credits dedicated to provide the students a strong foundation on programming concepts and its application. It also enables the students to solve problems using programmable logic

Expected level of output: Conceptual level

Department offered: Mathematics

Prerequisites: Higher Secondary level

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand about Visual basic platform	Remember	Communication	Class Presentation
CO2	To understand how to customize the forms and tools.	Understand	Evaluate	Class Presentation
CO3	To understand the usage of procedures, Functions.	Understand	Analytical	Poster Presentation
CO4	To apply and enhance the ability in program objects. L/SQL.	Apply	Analytical	Self Support Assignment
CO5	To apply and enhance the database connectivity.	Apply	Technical	Group Mini Project

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Programme	Course Code	Title
B.Sc. Mathematics	**19GEU43**	**GECC-III – Visual Basic Lab**

Preamble: This course has three credits dedicated to providing the students a strong foundation on programming concepts and its application. It also enabl11es the students to solve problems using programmable logic.

Expected level of output: Conceptual level

Department offered: Mathematics

Prerequisites: A pass in HSC

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics of programming languages.	Understand	Managerial Skills	Poster Presentation
CO2	Able to evaluate the flow of data in conditional statements.	Evaluate	Technical skill	Flow Chart
CO3	Able to analyze the difference between iteration, recursion, array and structure.	Analyze	Analytical Skill	Protocols
Co4	Able to create the modular, Database management and accessing concept in VB	Create	Conceptual Skill	Poster Presentation
C05	Able to recall various programming concepts in VB programming	Recall	Conceptual Skill	Self Support Assignment

Programme	Course Code	Title
B.Sc. Mathematics	19MAU10	DSC-X – Trigonometry and Fourier Series

Preamble: This course enables the students to acquire knowledge about the Trigonometrical Concepts and Fourier Series

Expected level of output: Conceptual level

Department offered: Mathematics

Prerequisites: A pass in HSC

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to find the general term of series and powers of Trigonometry functions	Understanding	Conceptual	Simulation Exercise
CO2	Able to analyze the result of tests and infer inverse hyperbolic functions and Logarithm of complex quantities	understanding	Conceptual	Poster Presentation
CO3	Able to find the sum of trigonometrical series including Gregory's series and Euler's series	Applying	Technical	Technical Presentation
CO4	Able to understand the concept of Fourier series and find the Fourier series for various functions	Applying	Analytical	Group Assignment

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Programme	Course Code	Title
B.Sc. Mathematics	**19MAU11**	**DSC-XI – Abstract Algebra**

Preamble: This course helps to construct different examples of Groups and Rings and Develop skills to prove theorems in Groups and Rings.

Expected level of output: Theory Concepts

Department offered: Mathematics

Prerequisites: A pass in HSC

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the classification of Groups, Knowledge of fundamental Results	Understanding	Conceptual	Technical Presentation
CO2	Able to understand the basic concept of Permutation to Cayley's Theorem	Understanding	Conceptual	Writing Skills
CO3	Able to analyze and solve Mathematical problems	Analyzing	Technical	Poster Presentation
CO4	Able to study the importance of Ideal as a fundamental Objects	Remembering	Conceptual	Group Assignment

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Programme	Course Code	Title
B.Sc. Mathematics	19MAU12	DSC-XII– Practical IV Practical LaTeX

Preamble: To Train the students to prepare the documents in Different Environments and build their confidence to work in LaTeX

Expected level of output: Practical level

Department offered: Mathematics

Prerequisites: A pass in HSC

Course Outcomes: After successful completion of this course, the students will

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to make use of different mathematical symbols and formation of Tables.	Applying	Technical	Self Support Assignment
CO2	Able to typeset the different equations with complete alignment	Applying	Technical	Poster Presentation
CO3	Able to learn the method of importing pictures within the original contexts	Applying	Technical	Self Support Assignment

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Programme	Course Code	Title
B.Sc. Mathematics	19GEU61	GEC-IV– Computerized Accounting Lab

Preamble: This Course helps the students to gain well versed knowledge in Digitized accounting

Expected Level of Output: working Level

Department offered: Commerce

Prerequisites: Higher Secondary Level

Course Outcomes: On Successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Company creation and alteration with VAT; tally vault password and security control for the company.	Apply	Understanding	Poster Presentation
CO2	To understand the Creating the ledger in single and multiple ledgers and altering the ledger for the cash balances. Preparation of the trial balance through using ledger and check the total balance of the ledger and to understand preparation of trading and profit and loss account and balance sheet in tally software.	Apply	Remembering	Poster Presentation
CO3	To understand the godown entries for the various goods and various location of the country and preparation of Bank account statement with credits and debtors.	Apply	Understanding	Poster Presentation
CO4	Creation for the expiry date for the FMCG products and Medicines and to prepare the bill wise statement for the sundry debtors.	Apply	Understanding	Self-support Assignment

CO5	To Prepare payroll statement for employees (BP,DA,HRA,PF,etc.,)	Apply	Analytical	Self-support Assignment
CO6	To Generate GSTR 1 & 2 Report and TDS Report	Apply	Analytical	Self-support Assignment

Programme	Course Code	Title
B. Sc Biotechnology/ B.Sc. Microbiology	19BSU02	Immunology

Preamble : To make sure that the basics of immune system and the immunological reactions occurring in biological system

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basic knowledge in immunology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To familiarize the students with the immune system, their structure and classification, genetic control of antibody production.	Understand	Conceptual	Technical Presentation
CO2	To understand the mechanism of activation in hypersensitive immune reaction.	Understand	Conceptual	Group Assignment
CO3	To understand the role of the immune molecules in infectious diseases, autoimmunity and cancer.	Understand	Conceptual	Writing Skills
CO4	The students will be able to identify the cellular and molecular basis of immune responsiveness.	Understand	Conceptual	Poster Presentation

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Programme	Course Code	Title
B. Sc Microbiology	19MBU06	Microbial Genetics

Preamble : To enrich the students with basic knowledge in genetics of Microorganism

Expected level of output : Conceptual Level

Department offered : Microbiology

Prerequisites : Basic knowledge in Microbial cell structure and its components

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the chemistry andmolecular structure of DNA,RNA and concept of geneticsin microbes	Understand	Conceptual	Class presentation
CO2	To Understand themicrobialDNA structurally and genetically.The mechanism of mutation and repair in DNA	Understand	Conceptual	Simulation exercise
CO3	To Understandtheprokaryotic genestructureand themechanismscontrolling geneexpression	Understand	Conceptual	Poster presentation
CO4	To Understand the mechanism ofmutation DNA repair and various DNA transformation methods	Understand	Conceptual	Self-Supporting Assignment

Programme	Course Code	Title
B. Sc Microbiology	**19MBU07**	**Lab in Immunology and Microbial Genetics**

Preamble : To provide basic practical skills on immunology and genetics

Expected level of output : Basic working Level

Department offered : Microbiology

Prerequisites : Basic knowledge in Biology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain Knowledge on identification of blood group, various pathological conditions and immunodiffusion techniques.	Understand	Technical	Technical Presentation
CO2	To understand partial purification of antibodies, antigen preparation and induction of Lac Operon	Apply	Analytical	Attendance
CO3	To gain knowledge on drug resistant mutants and conjugation	Analyze	Analytical	Simulation Exercise
CO4	To gain knowledge on bacterial transformation and conjugation	Analyze	Analytical	

Programme	Course Code	Title
B. Sc., Biotechnology/ B.Sc. Microbiology	19BSU03	rDNA Technology and Bioethics

Preamble : To reveal students with various approaches to conducting genetic engineering that they can apply to their future career in biological research as well as in biotechnology industries

Expected level of output : Conceptual

Department offered : Biotechnology

Prerequisites : Fundamental understanding of the principles of molecular biology and Bioethics

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the tools of genetic engineering	Understand	Conceptual	Class Presentation
CO2	To analyze the applications of genetic engineering	Understand	Conceptual	Poster Presentation
CO3	To describe the methods of gene transfer.	Understand	Conceptual	Simulation Exercise
CO4	To discriminate the concepts of IPR, patenting and biosafety in Biotechnology and its regulatory bodies.	Understand	Conceptual	Self-Supporting Assignment

Programme	Course Code	Title
B. Sc., Biotechnology/ B.Sc. Microbiology	19BSU04	Lab in rDNA Technology

Preamble : To enable the students to understand about DNA isolation techniques from various sources and its applications.

Expected level of output : Conceptual

Department offered : Biotechnology

Prerequisites : Basic knowledge on Biology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To isolate the DNA from various sources	Analyze	Technical	Technical Presentation/ Demonstration Attendance Stimulation Exercise
CO2	To perform PCR, restriction, digestion and ligation experiments.	Analyze	Technical	
CO3	To separate the protein mixture using SDS-PAGE.	Analyze	Technical	
CO4	To understand about the differentblotting techniquesand conjugation and transformation	Understand	Technical	

Programme	Course Code	Title
B. Sc Biotechnology/ B.Sc. Microbiology	19BSU05	Introduction to Bioinformatics

Preamble : To make the students to understand Bioinformatics databases and sequence analysis

Expected level of output : Conceptual

Department offered : Bioinformatics

Prerequisites : Basic knowledge on Biological Databases and its applications.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Tounderstand computational biology, databases and role of internet	Understanding	Conceptual	Technical Presentation
CO2	To understand the DNA, protein sequence methods and sequence analysis	Understanding	Conceptual	Group Assignment
CO3	To understand sequence similarity searches and alignment	Understanding	Conceptual	Writing Skills
CO4	To understand the concept of phylogenetics	Understanding	Conceptual	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)	19CSS08	Operating System

Preamble	On completion of this course the students will be able to describe various system resources, Process management and functions of operating systems.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Information Technology
Prerequisites	Basic understanding of computers
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Blooms Verb	Skill	Capstone
CO1	To learn the fundamentals of operating system	Understand	Conceptual	Technical Presentation
CO2	To learn the mechanisms of OS to handle the file system	Remember	Communication	Group Assignment
CO3	To Understand the mechanisms of OS to handle processes and their communication	Understand	Conceptual	Writing Skills
CO4	To study and analyze concept relating to asynchronous concurrent processes and deadlock	Analyze	Technical	Poster Presentation
CO5	To Analyze the mechanisms of OS to handle memory management techniques and their allocation	Analyze	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS09	Java Programming

Preamble	This course has four credits dedicated to provide the students a strong foundation on Java programming concepts and its application.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic OOPS Concepts such as C++ Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Verb	Skill	CIA-Capstone
CO1	Able to understand the basics of Java programming languages using JDK and analyze the difference between Structured Programming and Object Oriented Programming.	Understand	Technical	Writing skill
CO2	Able to Understand the Array basics, Exceptions, Threads and I/O Fundamentals.	Analyze	Analytical	Simulation
CO3	Able to Understand the Advanced Java Concepts and Networking Concepts,	Apply	Conceptual	Poster Presentation
CO4	Able to Understand Swing API, Swing Components and GUI Events.	Apply	Technical	Technical Presentation

Programme	Course Code	Title
B.Sc(CSA)B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS10	Python Programming

Preamble	On successful completion of the course the students should have the knowledge about Python Programming.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic knowledge on Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution of the python program using control structures, Functions.	Understand	Technical	Technical presentation
CO2	Able to understand the concept of String Concepts & Tuple concepts	Remember	Communication	Writing Skill
CO3	Apply Exception Handling in Python Program	Understand	Technical	Poster Presentation
CO4	Apply Programming skills using the concept of classes & objects, Inheritance in Python Program	Understand	Technical	Poster Presentation
CO5	Apply packages & modules in python program	Apply	Analytical	Simulation Exercise

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS11	Practical-Programming Lab – JAVA

Preamble	It enables the students to do the projects and solve the applications using Java programming logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Programming in C++
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Technical Skills	Poster Presentation
CO2	Understand the usage of interfaces and packages in Java programs	Understand	Technical Skills	Poster Presentation
CO3	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Demonstration
CO4	Apply programming skills to develop Applet applications.	Apply	Analytical Skills	Demonstration

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS12	Practical-Programming Lab-Python

Preamble	It enables the students to do the projects and solve the applications using Python programming logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic Knowledge on Programming
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution flow of the Python program using control structure & Branching Statements	Understand	Technical	Technical Presentation
CO2	Understand the usage of Strings, Dictionaries using python programs	Understand	Technical	Poster Presentation
CO3	Understand the concept of Exception handling in python programs.	Understand	Technical	TechnicalPresentation
CO4	Understand the concepts of classes & objects	Understand	Technical	Poster Presentation

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Programme	Course Code	Title
BCA/B.Sc CS/SS	**19CSS14**	**Computer Networks**

Preamble	Computer science student must possess knowledge about basic concepts of the fundamentals of data communications networks by gaining a working knowledge of data transmission concepts, understanding the operation of all seven layers of OSI Model and the protocols used in each layer.
Expected Level of Output	Conceptual Level
Department offered	Computer Applications / Computer Science /Software Systems
Prerequisites	Basic understanding of computer terminologies and message sharing.
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the usage of computer networks, network software and network hardware and reference models.	Understand	Communication	Writing Skills
CO2	Analyse the concept of Physical Layer and Data Link Layer	Analyze	Technical	Technical Presentation
CO3	Understand the concept of Network Layer and Different types of Routing Mechanism	Understand	Technical	Technical Presentation
CO4	Analyze the concept of Transport Layers and its protocol	Remember	Managerial	Poster Presentation
CO5	Understand the concept of Application and Presentation Layer and Apply	Apply	Communication	Group Assignment

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS15	Software Engineering

Preamble	This course provides the basics of software development in various environment using different methods
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic understanding of software development
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Able to understand the concept of software process models.	Understand	Conceptual	Class Presentation
CO2	Able to understand the concept of analysis and design modelling.	Understand	Conceptual	Group- Mini Project
CO3	Able to apply the Concept of software quality assurance and software testing	Apply	Technical	Self Support Assignment
CO4	Able to apply the Concept of software configuration management and risk management	Apply	Technical I	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A/ B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS16	Database Management System using Oracle

Preamble	On successful completion of the course the students should have the knowledge about Database, Oracle 12c and PL/SQL.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic knowledge on Database Management Systems
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	To Understand the basic concepts of Database, The models used to represent database and to design the database using Normalization	Remember	Communication	Technical Presentation
CO2	To understand about the Oracle 12c, Database models, System life cycle, Database languages and to manipulate them .To understand how to customize the single row functions, group function, aggregate functions and joins.	Understand	Communication	Writing Skills
CO3	To understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical	Simulation Exercise
CO4	To apply and enhance the ability in program objects and PL/SQL.	Apply	Analytical	Simulation Exercise
CO5	To apply and enhance the knowledge in exceptions, stores procedures, triggers and event handling.	Apply	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A / B.Sc(CS)/B.Sc(IT)/B.Sc(SS)/	19CSS17	Practical-Programming Lab – Visual Basic and Oracle

Preamble	On successful completion of the course the students should have the knowledge to write SQL queries and to develop PL/SQL Blocks, Database Triggers and connect databases with Visual Basic
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	**Basic Knowledge of data**
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Understand the execution of SQL Queries using SELECT Statements and Conditional Operators and Built in Functions	Remember	Technical	Poster Presentation
CO2	Recognize the use of joins and sub queries in Oracle	Understand	Competitive	Poster Presentation
CO3	.Apply the Concept of Control Structure in Procedural Language for Structure Query Language(PL/SQL)	Apply	Conceptual	Self Support Assignment
CO4	Apply the concept of Database Connection	Apply	Technical	Self Support Assignment

Programme	Course Code	Title
B.Sc(CSA)/B.Sc(CT)/B.C.A / B.Sc(CS)/B.Sc(IT)/B.Sc(SS)	19CSS18	Practical –Programming lab - Software Testing Using Selenium

Preamble	To understand the Selenium course and provides the knowledge to Automate any Web-based Application
Expected Level of Output	Conceptual Level
Department offered	Computer Technology /Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application
Prerequisites	Basic Working Level
Course Outcomes	On successful completion of the course, students will have the ability to

CO	Description	Bloom's Verb	Skill	CIA Capstone
CO1	Able to remember the basic concepts of Web driver	Apply	Managerial	Self Supporting Assignment
CO2	Able to understand the selenium methods and linking concepts	Apply	Managerial	Self Supporting Assignment
CO3	To locate a frame using Name	Analyze	Technical	Poster Presentation
CO4	To synchronize the test using implicit and explicit wait	Analyze	Technical	Poster Presentation
CO5	To work with Web driver using parameters, pop up windows and forms	Analyze	Technical	Poster Presentation

Programme	Course Code(s)	Title
B.Sc. (CS&HM)	19HMU11	DSC XI : Food Production and Patisserie- III

Preamble : catering students acquire professional Food Production & Service techniques with manipulation and method of preparing food .

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to understand about the basic stock soups, sauces, meat, egg and fish cookery	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to understand about the salads and sandwiches	Understanding Remembering Apply	Conceptual	Group Assignment
CO3	Able to understand about the types of horsdoeuvres, and Pastas with pasta dishes	Understanding Remembering Apply	Conceptual	Writing Skills
CO4	Able to understand about the Milk and milk products, preparation of various potato dishes	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to understand about food poisoning and food preservation methods	Understanding Remembering Apply	Conceptual	Writing Skills

Programme	Course Code(s)	Title
B.Sc (CS& HM)	19HMU12	DSC XII :Food & Beverage Service-III

Preamble : catering students acquire professional Food & beverage Service techniques with manipulation skills.

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know understand about classification of wines, grape varieties used	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to know understand about champagne, Aromatized & Herbal wines	Understanding Remembering Apply	Conceptual	Group Assignment
CO3	Able to know about Fortified wines, Wine & food	Understanding Remembering Apply	Conceptual	Writing Skills
CO4	Able to know about Wines of France, Germany & Italy	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to know about Gueridon Service & Gueridon Dishes	Understanding Remembering Apply	Conceptual	Writing Skills

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Programme	Course Code(s)	Title
B.Sc. (CS&HM)	19HMU13	DSC XIII: Front Office Operation

Preamble: catering students acquire professional Knowledge in front office operations skills.

Expected Level of Output: Application Level

Department offered: catering science & hotel management

Prerequisites: Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about Tourism, Hospitality, Classification of hotels & types of Rooms.	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to know about Front office organization , Lobby & Bell desk	Understanding Remembering Apply	Conceptual	Group Assignment
CO3	Able to know about Tariff Structure & Guest cycle	Understanding Remembering Apply	Conceptual	Writing Skills
CO4	Able to know about room selling techniques, Reservation & Registration process	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to know about Check- in & check out procedure	Understanding Remembering Apply	Conceptual	Demonstration

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Programme	Course Code(s)	Title
B.Sc. (CS&HM)	19HMU14	DSC XIV: Food Production & Patisserie Practical III

Preamble : catering students acquire professional Food Production techniques with manipulation and method of preparing food .

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to understand the preparation method of various continental soups	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Know to do the dishes of various Continental starters	Understanding Remembering Apply	Conceptual	Group Assignment/ Demonstration
CO3	Know to prepare various Continental main course	Understanding Remembering Apply	Conceptual	Self Support Assignment
CO4	Know to do the dishes of various Continental desserts	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to understand the preparation method of various continental dishes	Understanding Remembering Apply	Conceptual	Demonstration

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Programme	Course Code(s)	Title
B.Sc. (CS&HM)	19HMU15	DSC XV: Food & Beverage Service Practical - III

Preamble : catering students acquire professional practical Food & beverage Service techniques .

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about Enumeration of glassware's	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to know about Beverage order taking procedure	Understanding Remembering Apply	Conceptual	Attendance
CO3	Able to know about Service of white wine & rose wine	Understanding Remembering Apply	Conceptual	Simulation exercises
CO4	Able to know about Service of brandy & whisky	Understanding Remembering Apply	Conceptual	Demonstration
CO5	Able to know understand Service of Gin, Vodka	Understanding Remembering Apply	Conceptual	Demonstration

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Programme	Course Code(s)	Title
B.Sc. (CS&HM)	19HMU16	DSC XVI: Front Office Practical

Preamble: catering students acquire practical skill in front office department

Expected Level of Output: Application Level

Department offered: catering science & hotel management

Prerequisites: Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about front office equipment, Front desk counter, Bell Desk activities and Filling up of various Performa.	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to know about Welcoming of guest, Telephone handling skills	Understanding Remembering Apply	Conceptual	Attendance
CO3	Able to know about Role play of front office personnel	Understanding Remembering Apply	Conceptual	Simulation exercises
CO4	Able to know about Basic Check In, Check Out & Procedures Modes of Bill settlement	Understanding Remembering Apply	Conceptual	Demonstration
CO5	Able to know about Calculation of statistical information & Front Office Procedures.	Understanding Remembering Apply	Conceptual	Simulation exercises

Programme	Course code(S)	Title
B.Sc. (CS&HM)	19HMU17	DSC XVII: Food Production and Patisserie-IV

Preamble : catering students acquire knowledge in various international cuisine

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to understand about Chinese & thai cuisines dishes with preparations	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to understand about Srilankan & Malaysian, cuisines dishes with preparations	Understanding Remembering Apply	Conceptual	Group Assignment
CO3	Able to understand about Spanish & Mediterranean cuisines dishes with preparations	Understanding Remembering Apply	Conceptual	Writing Skills
CO4	Able to understand about Italian & Mexican cuisines dishes with preparations	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to understand about Fusion, American & French cuisines dishes with preparations	Understanding Remembering Apply	Conceptual	Writing Skills

Programme	Course Code(s)	Title
B.Sc (CS& HM)	**19HMU18**	**DSC XVIII : Food & Beverage Service- IV**

Preamble: catering students acquire knowledge in alcoholic beverages and its production method .

Expected Level of Output: Application Level

Department offered: catering science & hotel management

Prerequisites: Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about Alcoholic beverage	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to know about Beer, Brandy& Whisky	Understanding Remembering Apply	Conceptual	Group Assignment
CO3	Able to know about Rum , Gin, Tequila & Vodka	Understanding Remembering Apply	Conceptual	Writing Skills
CO4	Able to know about Cider & Perry, Aperitifs & Digestive s& Liqueurs	Understanding Remembering Apply	Conceptual	Poster Presentation
CO5	Able to know about Tobacco	Understanding Remembering Apply	Conceptual	Writing Skills

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Programme	Course Code(s)	Title
B.Sc., (CS& HM)	19HMU19	DSC XIX : Bakery & Confectionary

Preamble : The course aims at developing a basic awareness of the technical skills required in the Bakery & Confectionary department. It also gives a comprehensive insight into the commodities required, their characteristic, uses, and handling procedures.

Expected Level of Output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to understand the types of ingredients and its uses in bakery	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to understand about preparation of breads, bread rolls and cakes	Understanding Remembering Apply	Conceptual	Group assignment
CO3	Able to understand about preparation of icing, Chocolates, Hot & Cold Desserts	Understanding Remembering Apply	Conceptual	Writing Skills
CO4	Able to understand about preparation of Tarts	Understanding Remembering Apply	Conceptual	Poster assignment
CO5	Able to understand about preparation of Biscuits & Cookies	Understanding Remembering	Conceptual	Demonstration

Programme	Course Code(s)	Title
B.Sc (CS&HM)	19HMU20	DSC XX : Food Production & patisserie practical –IV

Preamble : catering students acquire in method of preparing international cuisine food

Expected Level of Output : Application Level

Department offered : catering science & hotel management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about chinese food & its recipes	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to know about thailand food & its recipes	Understanding Remembering Apply	Conceptual	Attendance
CO3	Able to know about mexican food & its recipes	Understanding Remembering Apply	Conceptual	Simulation exercises
CO4	Able to know about Italian food & its recipes	Understanding Remembering Apply	Conceptual	Demonstration
CO5	Able to know about Srilankan food & its recipes	Understanding Remembering Apply	Conceptual	Demonstration

Programme	Course Code(s)	Title
B.Sc. (CS&HM)	19HMU21	DSC XXI: Food & Beverage Service Practical –IV

Course Objective : To learn basic Restaurant Procedure with service of different alcoholic& nonalcoholic beverages. In general, develop an intuitive sense of how to compile menu & and suggesting wine in relation with the food.

Expected Level of Output : Development level

Department Offered : Catering Science& Hotel Management

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to know about Service of Aromatized wine	Understanding Remembering Apply	Conceptual	Technical Presentation/ Demonstration
CO2	Able to know about Service of aperitifs, digestives	Understanding Remembering Apply	Conceptual	Attendance
CO3	Able to know about Compiling a wine list	Understanding Remembering Apply	Conceptual	Simulation exercises
CO4	Able to know about Service of High Tea and afternoon Tea	Understanding Remembering Apply	Conceptual	Demonstration
CO5	Able to know about Gueridon Service	Understanding Remembering Apply	Conceptual	Demonstration

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Programme	Course Code(s)	Title
B.Sc. (CS&HM)	19HMU22	DSC XXII: Bakery & Confectionary Practical

Preamble : This course aims to acquire professional baking techniques skills and preparing the bakery products

Expected Level of Output : Application Level

Department offered : Catering Science & Hotel Management

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to prepare the breakfast rolls and breads	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to prepare the puff pastry and its types	Understanding Remembering Apply	Conceptual	Attendance
CO3	Able to prepare the Biscuits, cookies and its types	Understanding Remembering Apply	Conceptual	Simulation Exercise
CO4	Able to prepare the varieties of cakes	Understanding Remembering Apply	Conceptual	Demonstration
CO5	Able to prepare the types of Icings.	Understanding Remembering	Conceptual	Simulation Exercise

CRITERIA II STUDENT PERFORMANCE AND LEARNING OUTCOMES

2020 Batch – I & II Semester

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B. Sc BT	20BSU01	Cell Biology

Preamble : To impart basic knowledge of structure and function of Cells and developmental biology

Expected level of output : Conceptual Level

Department offered :Biotechnology

Prerequisites : Basic knowledge on cells and its organelles, cell transport mechanism, nucleus division and organization, cell signalling and basics of developmental biology.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the structures and basic components of prokaryotic,eukaryotic and specialized cells.	Understand	Conceptual Skills	Class Presentation
CO2	To remember the transport mechanism in and out of the cell	Remember	Conceptual Skills	CIA
CO3	To understand the structure and function of intracellular organelles.	Understand	Conceptual Skills	Writing Skills
CO4	To remember the cytoskeleton, process of cell division and chromosomes	Remember	Conceptual Skills	DIA(Quiz)
CO5	To remember the concepts of cell signalling and developmental biology.	Remember	Conceptual Skills	Model

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B. Sc BT	20BTU01	Biochemistry

Preamble : This course provides students with a basic understanding on the structure and function of Biomolecules. It enables students to solve significance in biomolecules. Basic knowledge and its significance.

Expected level of output : Conceptual Level

Department offered :Biotechnology

Prerequisites : Knowledge in Biology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the structure elements of carbohydrates. lipids in the biological system	Understand	Conceptual Skills	Class Presentation
CO2	To understand the structure elements of lipids in the biological system	Remember	Conceptual Skills	CIA
CO3	To understand the functional groups and associated proteins and amino acids in the biological system	Understand	Conceptual Skills	Writing Skills
CO4	To understand the basic structural features and the role of nucleic acids.	Understand	Conceptual Skills	DIA(Quiz)
CO5	To understand the basic structural features and the role of minerals and vitamins.	Understand	Conceptual Skills	Model

Programme	Course Code	Title
B. Sc BT	20BTU02	Lab in Cell Biology and Biochemistry

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use microscope and visualization of different types of cells. In addition, the students will learn how to qualify and quantify the amount of various biomolecule present in the given sample.

Expected level of output : Conceptual Level

Department offered :Biotechnology

Prerequisites : Knowledge in Basic working Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To categorize the cells and its division and to discriminate the types of cells using dyes and centrifugation methods.	Remembering	Analyze	Attendance
CO2	To analyze the carbohydrates and Proteins by qualitative methods.	Understanding	Analyze	Protocol

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B. Sc BT	20GEU49	Applied Chemistry

Preamble : This course provides students with a basic understanding day today chemistry related materials & Sciences.

Expected level of output : Conceptual Level

Department offered :Biotechnology

Prerequisites : Knowledge in basic chemistry.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand different types of chemical bonding and Enzyme Catalysis	Understand	Conceptual Skills	Class Presentation
CO2	To understand about different treatment methods of water	Remember	Conceptual Skills	CIA
CO3	To Understand about the chemical fertilizers, pesticides, herbicides used in the agriculture	Understand	Conceptual Skills	Writing Skills
CO4	To understand about the chemistry involved in pharmaceuticals,	Understand	Conceptual Skills	DIA(Quiz)
CO5	To understand about the chemistry involved in polymers, fuels and nuclear power reactors.	Understand	Conceptual Skills	Model

Programme	Course Code	Title
B. Sc BT	20BTU03	Microbiology

Preamble : This course provides students with a basic understanding in Microbiology. It enables students to know about the basics of microbes and its properties.

Expected level of output : Conceptual Level

Department offered :Biotechnology

Prerequisites : Knowledge in biology.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the history of microbiology, biography of eminent scientists, structures and basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes and organelles	Remember	Conceptual Skills	Class Presentation
CO2	To understand how these microbes are stained and the methods of staining along with the various microscopes used to visualize them.	Understand	Conceptual Skills	CIA
CO3	To learn the basic principles of various methods of sterilization	Understand	Conceptual Skills	Writing Skills
CO4	To learn the basic construction principles of various nutrient media and isolation procedures	Understand	Conceptual Skills	DIA(Quiz)
CO5	To understand the taxonomy and classification of microbes.	Understand	Conceptual Skills	Model

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B. Sc BT	20BTU04	Genetics

Preamble : This course provides students with a basic understanding Mendelian Genetics, Molecular gene expression of genes, Causes of mutation and population genetics.

Expected level of output : Conceptual Level

Department offered :Biotechnology

Prerequisites : Knowledge in basic biology.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To provide knowledge on the basic laws governing the pattern of inheritance familiarize the students with the basic concepts and principles of nucleic acids in prokaryotic and eukaryotic organisms	Understand	Conceptual Skills	Class Presentation
CO2	To understand DNA as genetic material and replicative mechanism behind Prokaryotic and Eukaryotic DNA Replication	Understand	Conceptual Skills	CIA
CO3	To understand the transcription process and also the regulation of gene expression.	Understand	Conceptual Skills	Writing Skills
CO4	To provide knowledge on mutation studies and its expression	Understand	Conceptual Skills	DIA(Quiz)
CO5	To Understand the allelic frequency and Genetic counselling.	Understand	Conceptual Skills	Model

Programme	Course Code	Title
B. Sc BT	20BTU05	Lab in Microbiology and Genetics

Preamble : To understand the isolation, culturing, metabolic characterization, genetic aspects and application of microorganisms.

Expected level of output: Basic Level

Department offered :Biotechnology

Prerequisites : Basic knowledge on Cell and Chromosome

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the isolation and culturing of microorganisms. culturing of microorganisms and microbial staining.	Understanding	Analysis	Attendance
CO2	To understand the basics of genetics	Understanding	Analysis	Protocols

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B. Sc BT	20GEU51	Bioanalytical Techniques

Preamble : This course provides students with a basic understanding the principles and applications of basic instruments in biological sciences. It enables students to get instrumental knowledge

Expected level of output : Conceptual Level

Department offered :Biotechnology

Prerequisites : Knowledge in science.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the principle and types of pH meter and Centrifuge	Understand	Conceptual	Case study
CO2	To analyze the technique of chromatography	Analyze	Conceptual	CIA
CO3	To learn the basic principles and types of Electrophoresis	Understand	Conceptual	Simulation exercises/ Application Development
CO4	To learn the basic principles, working and types of spectroscopy	Understand	Conceptual	DIA(Quiz)
CO5	To understand the working and applications of radioactivity, Microarray, Fluorescent activated cell sorting	Understand	Conceptual	Model

Programme	Course Code	Title
B.Sc. Psychology	20PSU01	DSC-I: General Psychology I

Preamble : This course provides students with a basic understanding of the concepts in Psychology.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To acquire knowledge about the origin and different subfields within psychology.	Understand	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To acquire knowledge about the emphasis of sensation and perception	Understand	Conceptual	CIA
CO3	To understand the concept of attention and consciousness	Understand	Conceptual	Writing skills/ Self Support/ Assignment/ Report Writing
CO4	To acquire knowledge about types of learning and schedules of reinforcement	Understand	Conceptual	DIA(Quiz)
CO5	To understand the concept of memory and forgetting with its associated causes.	Understand	Conceptual	Model

Programme	Course Code	Title
B.Sc Psychology	20PSU02	DSC-II : Developmental Psychology I

Preamble : This course provides students with a basic understanding of developmental stages from infancy to childhood. It enables students to understand the psychological states at different growth levels.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To acquire knowledge about nature and theories of development	Understand	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To gain detailed knowledge about the prenatal development	Understand	Conceptual	CIA
CO3	To gain knowledge about the physical development of new born and reflex action.	Understand	Conceptual	Writing skills/ Self Support/ Assignment/ Report Writing
CO4	To acquire knowledge about cognitive and language development in children	Remember	Conceptual	DIA(Quiz)
CO5	To acquire knowledge about emotional development during childhood.	Understand	Conceptual	Model

Programme	Course Code	Title
B.Sc. Psychology	20GEU77	GEC-I – :Physiological Psychology-I

Preamble : This course provides students with a basic understanding about the Physiological process of behaviour

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Develop an insight into the Physiological changes in human being	Understand	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	Learn about the hormone behavior and mechanism.	Understand	Conceptual	CIA
CO3	Acquire competence on the neural impulse.	Understand	Conceptual	Writing skills/ Self-Support/ Assignment/ Report Writing
CO4	Gain knowledge about nervous system and its connection with the environment	Understand	Conceptual	DIA (Quiz)
CO5	Gain knowledge about visual and auditory connection with the nerves.	Understand	Conceptual	Model

Programme	Course Code	Title
B.Sc. Psychology	**20PSU03**	**DSC I – Practical I: Sensory and Psychomotor Assessment**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use the apparatus. In addition, the students will learn how to assess the sensory and psychomotor abilities

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn to use the apparatus and tools in Psychology	Understand	Conceptual	Technical Presentation
CO2	Learn to assess the sensory and psychomotor abilities in relations to the behaviour	Understand	Conceptual	Miniatures

Programme	Course Code	Title
B.Sc. Psychology	**20PSU04**	**DSC- III: General Psychology II**

Preamble : This course provides students with a basic understanding of the concepts in Psychology.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the theories and concepts of motivation.	Understand	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To understand the concept of emotion, its theories and relation management.	Understand	Conceptual	CIA
CO3	To understand the concept of intelligence and also to become proficient in intelligence testing.	Understand	Conceptual	Writing skills/ Self Support/ Assignment/ Report Writing
CO4	To understand the concept problem solving, concept formation and critical thinking.	Understand	Conceptual	DIA(Quiz)
CO5	To become familiar to various theories in personality.	Understand	Conceptual	Model

Programme	Course Code	Title
B.Sc Psychology	20PSU05	DSC-IV: Developmental Psychology- II

Preamble : This course provides students with a basic understanding of developmental stages from Late childhood to old age. It enables students to understand the psychological states at different growth levels..

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge the about late childhood and its speech, emotional and moral development.	Understand	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To gain knowledge and skill to understand the stage of adolescence and its associated problems.	Understand	Conceptual	CIA
CO3	To understand the developmental task in adulthood and as well as their adjustment issues in various areas of life.	Understand	Conceptual	Writing skills/ Self Support/ Assignment/ Report Writing
CO4	To understand the developmental task in middle age and as well as their adjustment issues in various areas of life.	Understand	Conceptual	DIA(Quiz)
CO5	To understand the developmental task in old age and as well as their adjustment issues in various areas of life.	Understand	Conceptual	Model

Programme	Course Code	Title
B.Sc. Psychology	20GEU78	GEC-II –Physiological Psychology-II

Preamble : This course provides students with a basic understanding about the Physiological process of behavior.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Develop an insight into sensory systems in the skin and other bodily tissues responsible for the senses in human beings	Understand	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	Acquire insight from examining how movement is organized within motor cortex and how motor learning alters this organization.	Apply	Application	CIA
CO3	Gain knowledge about model of brain function adequate to deal with the complex behavior	Understand	Conceptual	Writing skills/ Self-Support/ Assignment/ Report Writing
CO4	Understanding about the conscious mind and motives	Remember	Conceptual	DIA (Quiz)
CO5	Analyze the emotions and about the stressors	Analyze	Application	Model

Programme	Course Code	Title
B.Sc. Psychology	**20PSU06**	**DSC Practical- II – Cognitive Processing Assessment**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use apparatus and questionnaires. In addition, the students will learn how to assess the higher mental process.

Expected level of output : Conceptual Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Out come	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn to use the apparatus and assessment tools	Remember	Conceptual	Technical Presentation
CO2	Learn to assess the higher mental order process of the individuals and interpret the same.	Remember	Conceptual	Miniatures

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code(s)	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/B.Com(RM)/ B.Com(BA)/B.Com(CS)	**20CUG01**	**Principles of Accountancy**

Preamble: To impart basic accounting knowledge as applicable to business.

Expected Level of Output: Conceptual Level

Department offered : Commerce

Learning Outcomes: Toward this end, students will be able to understand the basic concepts of accounting.

Course Outcomes: On successful completion of the course, students will have the ability to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	Able to understand the basic Accounting Concepts, Conventions and Classification of Accounts.	Remembering	Conceptual	Poster Presentation (Flow Chart)
CO2	To construct final accounts for the SME's and Non-Trading Concerns	Apply	Technical	Poster Presentation (Process Diagram)
CO3	To Understand the concept of Bill of Exchange and Methods of Calculating the Account Current and Average Due Date	Understanding	Conceptual	Group Assignment
CO4	Able to solve Consignment and Joint Venture accounts	Apply	Technical	Technical Presentation
CO5	To Understand Procedures for preparing Bank Reconciliation Statement.	Understanding	Conceptual	Simulation Exercises

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code(s)	Title
B. Com (BA)	20CAB01	Fundamentals of Business Analytics

Preamble :This course helps the student should be able to interpret the results of business analytics and their implications to business administrations

Expected Level of Output : Analytical

Level Department offered : Commerce

Prerequisites : Higher Secondary Level

Course outcomes : On successful completion of course, the students will have the ability to

Course Outcome	Description	Verb	Skill	CIA- Cap Stone
CO1	To understand the basic concept of Business Enterprise and Data	Understanding	Conceptual	Class Presentation
CO2	To provide the knowledge about the Business Intelligence	Remembering	Conceptual	Simulation Exercises
CO3	To impart in-depth knowledge of Data Integration and Data and Data Modeling	Remembering	Conceptual	Class Presentation
CO4	To understand the concept of Reporting and Statistical Analysis	Understanding	Conceptual	Poster Presentation
CO5	To understand the application of Analytics and Data Mining	Understanding	Conceptual	Self-Support Assignment

Programme	Course Code(s)	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com (BPS)/ B.Com CM/ B.Com A&F/ B.Com(BI)/	**20CUG02**	**Desktop Publishing-Practical**

Preamble : Commerce students should have basic knowledge to use computer for the office documentation purpose

Expected Level of Output:Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes: On Successful completion of the course, students will have the ability to

Course Outcome	Description	Verb	Skill	CIA –Cap stone
CO1	Draft the corporate office layout by showing functions of various department, letter using mail merge, Inward and outward mail register, and designing brochure and invoice	Understand	Conceptual	Technical Presentation
CO2	Prepare Chairman's Speech and perform various operations in the toolbar	Understand	Conceptual	Poster Presentation
CO3	Document the Purchase requisition slip/Purchase order for the five items , create various types of charts and Prepare mark list with various options	Apply	Conceptual	Poster Presentation
CO4	Make an advertisement of the company product and Create a presentation of a research paper to be presented in a conference.	Apply	Communication	Poster presentation
CO5	Create student database and Employee database with required fields	Apply	Analytical	Technical Presentation
CO6	Design the company's annual report	Apply	Analytical	Technical Presentation

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course code	Title
B.Com / B.Com(CA)/B.Com (IT)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/ B.Com(B&I)/B.Com(E.Com)/ B.Com(RM)/ B.Com(BA)/ B.Com(CS)	**18ECU28**	**Internet of Things**

Preamble : To familiarize the students with the accounting principles and Practices of various types of business other than companies.

Expected Level of Output:Conceptual Level

Department offered: Commerce

Prerequisites: The student should Appeared for Account System Course.

Course Outcomes: On Successful completion of the course, students will have the abilityto

Course Outcome	Description	Bloom Taxonomy Verb	Skill Mapping	CIA -Cap stone
CO1	Able to Understand the phenomenon of Departmental Accounting methods, Inter – Departmental Transfers and Branch Accounting objectives, accounting terminology and different type of branch accounting.	Understanding	Conceptual	Self Support Assignment
CO2	Able to prepare Hire-Purchase accounting records, Preparation of Hire Purchase Trading Account and understand the phenomenon of Installment Purchase System and Accounting Treatment.	Understanding	Conceptual	Poster Presentation (Process Diagram)
CO3	To Understand the basis of Royalties Accounting, Preparation of Ledger Accounts in the books of Leaser and Tenant, Accounting Treatment for Sub – Lease	Understanding	Conceptual	Simulation Exercises
CO4	Able to prepare Insolvency Accounts and preparation of statement of affairs of assets and liabilities.	Remembering	Technical	Simulation Exercises
CO5	Able to prepare Partnership Accounts and accounting treatment for Admission, Retirement and death of Partners and Able to know the conception and accounting procedure for dissolution and amalgamation of partnership firm	Apply	Technical	Case Study

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Sc(CT)/B.C.A/B.Sc(CS)/ B.Sc(IT)/B.Sc(CSA)	20CSS01	Digital Fundamentals and Architecture

Preamble	Students should have basic knowledge of number system, combinational logic circuits, arithmetic & sequential circuits, I/O concepts & techniques, memory management techniques.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology / Computer Application / Computer Science /Information Technology / Computer Science and Application
Prerequisites	Basic understanding of computers
Course Outcomes	On successful completion of the course, students will have the ability to

Course Outcomes	Description	Verb	Skill	CIA -Cap Stone
CO1	Understand the number systems and basic gates in digital logic circuits.	Understand	Managerial	Class presentation
CO2	Understand arithmetic circuits and Flip-flops.	Understand	Technical	Simulation
CO3	Remember I/O Concepts and I/O ports.	Remember	Communication	Poster Presentation
CO4	Remember the asynchronous and synchronous transfer techniques.	Remember	Communication	Self support assignment
CO5	Analyze the memory management techniques.	Analyze	Analytical	Self-support assignment

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/ B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)/B.Sc Data Science	20CSS02	DSC II – C Programming

Preamble : This course provides students with a basic of developing an application and strong foundation on programming concepts.
It enables students to solve the problems with programmable logic.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Science And Applications/ Computer Applications/Software Systems/Data Science

Prerequisites : Knowledge in basics of Computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the elementary concepts and describe the basic structure of C.	Understand	Technical	Technical Presentation
CO2	Able to remember the difference between iteration, recursion, array and structure.	Remember	Competitive	CIA
CO3	Able to examine about functions and analyze the programming concepts to code the program easily	Analyze	Analytical	Application Development
CO4	Able to analyze and study about the usage of Structures and Unions	Analyze	Competitive	DIA(Quiz)
CO5	Able to analyze the modular, file management and accessing concept in programming	Analyze	Competitive	Model

Programme	Course Code	Title
B.Sc(CS) /B.C.A/B.Sc(CSA)/B.Sc(SS) / B.Sc Data Science	20CSS03	Practical – Programming Lab -C

Preamble	This Practical course is designed to provide the students with the basic knowledge in developing an application and strong foundation on programming concepts. In addition, the students will learn how to solve the problems with programmable logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Science / Computer Science And Applications/ Computer Applications/Software Systems / Data Science
Prerequisites	Knowledge in basics of computers
Course Outcomes	After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics concepts of structured programming such as data types, variables, operators.	Understand	Analytical	Simulation Exercise
CO2	Able to apply advanced concepts of control structures, strings arrays, functions, pointers, structures, unions, files, preprocessors and command line arguments.	Apply	Analytical	Application Development

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)/ B.Sc Data Science	20CSS04	DSC III - Data Structures

Preamble : The main objective of the course is to introduce the various data structures and its types. It enables the students to learn different way of representing data structures in memory, various operations done by data structures and its applications

Expected level of output : Conceptual Level

Department offered : Computer Technology / Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application/Data Science

Prerequisites : Knowledge in Computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different types of data structures, and its operations, algorithms and complexity.	Remember	Technical	Technical Presentation
CO2	Able to understand the concepts of Linked list, its representation in memory and types.	Understand	Competitive	CIA
CO3	Able to evaluate the arithmetic expression and apply the learned concepts in stack and queue operations.	Apply	Communication	Writing Skill
CO4	Able to implement the concept of searching in various tree techniques.	Apply	Competitive	DIA(Quiz)
CO5	Able to implement the concept of sorting using various sorting algorithms.	Apply	Competitive	Model

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)	**20CSS05**	**DSC IV - C++ Programming**

Preamble This course provides students with a basic understanding Object oriented Programming Concepts. It enables students to develop industrial strength software applications.

Expected Level of Output Conceptual Level

Department offered Computer Science/Information Technology/Computer Technology/ Computer Application /Computer Science and Applications/ Software Systems

Prerequisites Knowledge in C Programming

Course Outcomes After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of Object Oriented Programming	Understand	Technical	Class Presentation / Technical Presentation/ Demonstration
CO2	Able to cognize the features essential to develop consistent applications	Understand	Competitive	CIA
CO3	Able to apply the reusability concept to attain highly reliable solutions.	Apply	Conceptual	Simulation exercises/ Application Development
CO4	Able to compile the learned concepts with storage classes	Create	Competitive	DIA(Quiz)
CO5	Able to solve the real time challenges through the acquired knowledge	Apply	Competitive	Model

Programme	Course Code	Title
B.Sc(CS)/B.C.A/ B.Sc(CSA)/B.Sc(SS)	**20CSS06**	**DSC Practical II – Practical - Programming Lab – C++**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use object oriented concepts. In addition, the students will learn how to develop an application

Expected level of output : Conceptual Level

Department offered : Computer Science and Applications/ Computer Application /Computer Science / Software Systems

Prerequisites : Knowledge in Programming in C

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to develop an application using the basic features of Object Oriented Programming	Apply	Conceptual	Simulation Exercise
CO2	Able to build an application using the advanced concepts of object oriented Programming	Apply	Conceptual	Application Development

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/B.Com (A&F)/ B.Com(BI)/B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG01**	**Principles of Accountancy**

Preamble : This course provides students with a basic understanding of accounting knowledge as applicable to business. It enables students to solve the basic accounting problems.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in basic accounting concepts

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic Accounting Concepts, Conventions and Classification of Accounts.	Remembering	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To construct final accounts for the SME's and Non-Trading Concerns	Apply	Technical	CIA
CO3	To Understand the concept of Bill of Exchange and Methods of Calculating the Account Current and Average Due Date	Understanding	Conceptual	Miniatures/ Protocols/ Models
CO4	Able to solve Consignment and Joint Venture accounts	Apply	Technical	DIA(Quiz)
CO5	To Understand Procedures for preparing Bank Reconciliation Statement.	Understanding	Conceptual	Model

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code	Title
B.Com (BI)	20CNU01	DSC II - Organization of Financial Services

Preamble : This course provides students with a basic understanding of Financial services. It enables students to solve IT aided business models where life cycle of the financial assets is passing through critical stages.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in higher secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the concepts and basics of the various financial systems in the Indianfinancial Markets.	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	Able to understand the basic functions and concepts of commercial bank, RBI anddevelopment banks.	Understanding	Conceptual	CIA
CO3	Able to understand the basic functions and concepts principles of insurance.	Understanding	Conceptual	Writing skills/Self Support Assignment/ Report Writing
CO4	Able to understand the concepts of mutualfunds and interpret the performance of mutual funds	Remembering	Conceptual	DIA(Quiz)
CO5	Able to understand the concept of credit ratingand explained the rating methodology and different types rating.	Remembering	Conceptual	Model

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Programme	Course Code	Title
B.Com/B.Com(CA)/ B.Com(IT)/ B.Com (BPS)/ B.Com CM/ B.Com) A&F/ B.Com(BI)/ B.Com(E.Com Com (BA)/B. Com CS	**20CUG02**	**Desktop Publishing - Practical**

Preamble : This practical / Laboratory course is designed to provide the students with the knowledge to use computer for the office documentation purpose.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in higher secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Draft the corporate office layout by showing functions of various department, letter using mail merge, Inward and outward mail register, and designing brochure Prepare Chairman's Speech and perform various operations in the toolbar Document the Purchase requisition slip/Purchase order for the five items , create various types of charts.	Understanding	Conceptual	Attendance
CO2	Make an advertisement of the company product and Create a presentation of a research paper to be presented in a conference. Create student database and Employee database with required fields	Apply	Analytical	Class Presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(B&I)/B.Com(E.Com) /B.Com(BA)/B.Com(CS)	**20CUG03**	**Financial Accounting**

Preamble : This course provides students with a basic understanding of accounting principles and practices of various types of business other than companies. It enables the students to solve the problems relating to various types of business.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in higher secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the phenomenon of Departmental Accounting methods, Inter – Departmental Transfers and Branch Accounting objectives, accounting terminology and different type of branch accounting.	Understanding	Conceptual	Poster Presentation
CO2	Able to prepare Hire-Purchase accounting records, Preparation of Hire Purchase Trading Account and understand the phenomenon of Installment Purchase System and Accounting Treatment.	Understanding	Conceptual	CIA
CO3	To Understand the basis of Royalties Accounting, Preparation of Ledger Accounts in the books of Leaser and Tenant, Accounting Treatment for	Understanding	Conceptual	Case Study

	Sub –Lease Able to prepare Insolvency Accounts and preparation of statement of affairs of assets and liabilities.			
CO4	Able to prepare Partnership Accounts and accounting treatment for Admission, Retirement and death of Partners	Remembering	Technical	DIA(Quiz)
CO5	Able to know the conception and accounting procedure amalgamation and dissolution	Apply	Technical	Model

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Programme	Course Code	Title
B.Com (B&I)	20CNU02	Principles and Practice of Banking

Preamble : This course provides students with a basic understanding of banking concepts.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in higher secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the concepts of Evolution of banking systems, Banking Regulation Customer, Negotiable instruments, and crossing of Cheques.	Understanding	Conceptual	CIA
CO2	To Understand the concept of modes of charging securities, Lien, Mortgage, Non-Performing Assets, Financial Inclusions and collaterals and Financial specific sectors	Understanding	Conceptual	Poster presentation/Flow charts/ Miniatures/ protocols
CO3	To Understand the concepts of Innovations and Reforms in Banking, Emerging trends in Network of banking, Trends of technology upgradation	Understanding	Conceptual	CIA
CO4	To Understand the concepts of Retail, Wholesale and International Banking, Universal Banking; ADRs; GDRs, FEMA, LIBOR, MIBOR,	Understanding	Conceptual	DIA(QUIZ)
CO5	To Understand the concepts of Ethics in Banks and Financial Institutions, Ethics at the Individual.	Understanding	Conceptual	Group Mini project

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Programme	Course Code	Title
B.Com/ B. Com AF/ B.Com(BPS)/B.Com(CM)/ B.Com(BI)	**20CUG05**	**Accounting Practical**

Preamble : To know and practice about the legal document used in the Business Organization.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Knowledge in higher secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Documents used for Receipt and Payment, Income Statements, Subsidiary Book, Bank Reconciliation Statement, Installment Payment System and used in connection with Balance sheet.	Remembering	Analytical	Poster Presentation
CO2	To Understand forms used for Deposits and Withdrawals, the concept of depreciation under Income tax Act and companies Act, transactions for drafting final accounts.	Understanding	Analytical	Self-Support Assignment

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG01**	**Principles of Accountancy**

Preamble : This course provides students with a basic understanding of accounting knowledge as applicable to business. It enables students to solve the basic accounting problems.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in basic accounting concepts

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic Accounting Concepts, Conventions and Classification of Accounts.	Remembering	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To construct final accounts for the SME's and Non-Trading Concerns	Apply	Technical	CIA
CO3	To Understand the concept of Bill of Exchange and Methods of Calculating the Account Current and Average Due Date	Understanding	Conceptual	Miniatures/ Protocols/ Models
CO4	Able to solve Consignment and Joint Venture accounts	Apply	Technical	DIA(Quiz)
CO5	To Understand Procedures for preparing Bank Reconciliation Statement.	Understanding	Conceptual	Model

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Programme	Course Code	Title
B.Com(BPS)	20CBU01	DSC II - General Economics

Preamble : This course aims to understand the basic concepts of economics and the behaviour of national economy.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Student can able to understand the meaning scope of economics, elasticity of Demand and supply and its applications.	Remembering	Competitive	Class Presentation/ Technical Presentation/ Demonstration
CO2	Student can able to understand the production and cost curves and the market structure in detail.	Understanding	Conceptual	CIA
CO3	To understand the concept of Behavioural Economics and itsconcepts.	Remembering	Conceptual	Simulation exercises/ Application Development
CO4	Students can able to understand the concept of National Income, Fiscal policy, Monetary policy	Understanding	Conceptual	DIA(Quiz)
CO5	To understand the basics of Tax system and Money and Banking	Understanding	Analytical	Model

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/B.Com(BPS)/B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	20CUG02	Desktop Publishing – Practical

Preamble : This Practical / Laboratory course is designed to provide the Students with the knowledge to use Computer for the Office Documentation Purpose.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Draft the corporate office layout by showing functions of various department, letter using mail merge, Inward and outward mail register, and designing brochure and invoice Prepare Chairman's Speech and perform various operations in the toolbar Document the Purchase requisition slip/Purchase order for the five items , create various types of charts and Prepare mark list with various options	Understanding	Conceptual	Attendance
CO2	Make an advertisement of the company product and Create a presentation of a research paper to be presented in a conference. Create student database and Employee database with required fields Design the company's annual report	Apply	Analytical	Class Presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(B&I)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG03**	**Financial Accounting**

Preamble : This course provides students with a basic understanding of accounting principles and practices of various types of business other than companies. It enables students to solve the problems relating to various types of business

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Account System

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the phenomenon of Departmental Accounting methods, Inter – Departmental Transfers and Branch Accounting objectives, accounting terminology and different type of branch accounting.	Understanding	Conceptual	Poster Presentation
CO2	Able to prepare Hire-Purchase accounting records, Preparation of Hire Purchase Trading Account and understand the phenomenon of Installment Purchase System and Accounting Treatment.	Understanding	Conceptual	CIA
CO3	To Understand the basis of Royalties Accounting, Preparation of Ledger Accounts in the books of Leaser and Tenant, Accounting Treatment for Sub –Lease	Understanding	Conceptual	Case Study

	Able to prepare Insolvency Accounts and preparation of statement of affairs of assets and liabilities.			
CO4	Able to prepare Partnership Accounts and accounting treatment for Admission, Retirement and death of Partners	Remembering	Technical	DIA(Quiz)
CO5	Able to know the conception and accounting procedure amalgamation and is solution of partnership firm	Apply	Technical	Model

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Programme	Course Code	Title
B.Com(BPS)	20CBU02	Finance and Accounting for BPS

Preamble : To have a thorough knowledge about Finance and Accounting process in BPS

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the overviewof BPS industry, the need of outsourcing along with its various operating models.	Understanding	Competitive	Class Presentation
CO2	To understand the Supply chain process models and general ledger with tax accounting procedures in India & US.	Understanding	Conceptual	Simulation Exercise
CO3	To understand the application of accounts receivable and payable, along with the reconciliation and reporting.	Apply	Technical	Poster Presentation
CO4	Able to understand Emerging trends in F&A technology, ERP software system, and the difference between IFRS and various GAAPs	Remembering	Managerial	Self- supporting assignments
CO5	To understand the F&A Controls and Compliance with various SOX acts and the audit engagements and informationsecurity.	Understanding	Conceptual	Class Presentation

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Programme	Course Code	Title
B.Com/ B. Com AF/ B.Com(BPS)/B.Com(CM)/ B.Com(BI)	20CUG05	Accounting Practical

Preamble : To know and practice about the legal document used in the Business organization

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Knowledge in Account System

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Documents used for Receipt and Payment, Income Statements, Subsidiary Book, Bank Reconciliation Statement, Installment Payment System and used in connection with Balance sheet.	Remembering	Analytical	Poster Presentation
CO2	To Understand forms used for Deposits and Withdrawals, the concept of depreciation under Income tax Act and companies Act, transactions for drafting final accounts.	Understanding	Analytical	Self-Support Assignment

Programme	Course Code	Title
B.Sc. CDF	20CDU01	DSC I - Pattern Making and Garment Construction

Preamble: To acquaint the students with concepts and techniques of Pattern making and garment construction.

Expected level of output: Conceptual Level

Department offered : Costume Design and Fashion

Prerequisites : A pass in HSC

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basics of pattern making and operations of a sewing machine, its parts, functions, types and varieties	Remembering	Conceptual	Class presentation
CO2	To understand about the essential tools used for pattern making and garment construction and their Terminologies.	Understanding	Conceptual	CIA
CO3	To understand the procedure for taking body measurements, fit and standardization	Understanding	Conceptual	Writing skills/Self Support Assignment /Report Writing
CO4	To understand the different methods of pattern making and grading	Understanding	Conceptual	DIA(Quiz)
CO5	To understand about the pattern alteration techniques, pattern layout and transferring methods	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Sc. CDF	20CDU02	DSC II - Fashion Concepts

Preamble: To enable the students to learn about the fashion, trend, color theories and role of fashion designers in the fashion market.

Expected Level of Output : Conceptual Level

Department offered : Costume Design and Fashion

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the basic concepts about fashion and its terminologies	Remembering	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	Understand the types elements and principles of design	Understanding	Conceptual	CIA
CO3	Understand the concepts of color theories and their applications of color harmonies	Understanding	Conceptual	Writing skills/Self Support Assignment /Report Writing
CO4	Understand about the evolution of fashion and the theories of fashion.	Understanding	Conceptual	DIA(Quiz)
CO5	Understand the fashion services and major centers of fashion and role of fashion designers.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Sc. CDF	20CDU03	DSC Practical I - Basic Sewing Practical

Preamble: To enable the students to construct the basic garment details.

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
C01	To understand the basic stitching and construct the seams, seam finishes and hems	Understanding	Technical	Technical Presentation
C02	To understand the finishing techniques of garments by applying fullness, neckline finishes, plackets and fasteners	Applying	Application	
C03	To understand variety of sleeve and yoke types ,its construction	Applying	Application	Miniatures

Programme	Course Code	Title
B.Sc.CDF	20CDU04	DSC Practical II - Fashion Sketching Practical

Preamble: This Practical course is designed to provide the students with the knowledge to use basic understanding the anatomy, calligraphic poses and basic designs of the garments. In addition, the students will learn how to sketch the basic design and silhouettes.

Expected level of output : Conceptual Level

Department offered : Costume Design and Fashion

Prerequisites : Knowledge in basic sketching.

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the basic illustration of the head theories, body features and calligraphically fashion poses.	Understanding	Technical	Miniatures
CO2	Applying the and different body types , age groups , fullness , garment features and thematic figure composition	Applying	Application	-

Programme	Course Code	Title
B.Sc. CDF	20CDU05	DSC III - Textile Science

Preamble: To acquaint the students with the basic knowledge about textile fiber, yarn, fabric and to predict the performance of fabrics in technical textiles.

Expected Level of Output: Conceptual Level

Department offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand about the different types of fibers, and explore its manufacturing process of the fibers.	Understanding	Conceptual	Poster Presentation
CO2	To know about the spinning mechanism and its Classification.	Analyzing	Analytical	CIA
CO3	To analyze the measuring methods of yarns and its classification	Analyzing	Analytical	Writing skills/Self Support Assignment /Report Writing
CO4	To explore the knowledge and scope of technical textiles in different fields.	Analyzing	Analytical	DIA(Quiz)

Programme	Course Code	Title
B.Sc. CDF	20CDU06	DSC IV - Apparel Industry & Quality Assessment

Preamble: To train the students in assessment of quality standards in apparel industry.

Expected Level of Output : Conceptual Level

Department offered: Costume Design and Fashion

Prerequisites: A pass in HSC

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To provide a comprehensive Knowledge about judging the quality of readymade garments.	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To acquaint the students with the readymade garment industry and its problems and prospects.	Understanding	Conceptual	CIA
CO3	To understand the importance of Inspection and ISO Standards and its procedures	Understanding	Conceptual	Writing skills/Self Support Assignment /Report Writing
CO4	To understand the quality control Tools used in apparel industry.	Understanding	Conceptual	DIA(Quiz)
CO5	To understand the process involved in readymade garment Industry.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Sc. CDF	20CDU07	DSC Practical III - Textile Testing Practical

Preamble: To enable the students to develop practical exposure in Textile Testing.

Expected level of output: Working Level

Department offered : Costume Design and Fashion

Prerequisites : Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Identify the different types of fibers used in the textile Industry	Understanding	Technical	Miniatures
CO2	To determine the yarn count using wrap reel and Beesley's balance	Applying	Application	
CO3	To Identify and understand the yarn twist and strength of the yarn using twist and lea tester.	Applying	Application	
CO4	To determine the fabric count, weight of the fabric, its thickness and strength using the various fabric test methods.	Applying	Application	
CO5	To determine the abrasion resistance , shrinkage and colorfastness of the fabric	Applying	Application	

Programme	Course Code	Title
B.Sc. CDF	20CDU08	DSC Practical IV - Children's Apparel Practical

Preamble: To enable the students to construct the Children's garment with details.

Expected Level of Output: Working Level

Department offered: Costume Design and Fashion

Prerequisites: Completion of Basic Sewing Technique Practical

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To apply the basic stitching and construct the children's garments.	Applying	Application	Technical Presentation / Demonstration
CO2	To apply the finishing techniques of garments by incorporating fullness, and finishes.	Applying	Application	
CO3	To apply the variation of sleeve, plackets and Fasteners in garments	Applying	Application	
CO4	To apply the utilitarian of yokes and collar and its variation	Applying	Application	

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Programme	Course Code	Title
B. Sc. CS with CG	20CGU01	DSC I :Operating Systems

Preamble : On completion of this course the students will be able to learn various Client OS, Server OS, Disk management, File System, DNS and DHCP

Expected level of output : Conceptual Level

Department offered :Cognitive Systems

Prerequisites : Basic understanding of computers

Course Outcomes : On successful completion of the course, students will be

Course Outcome	Description	Bloom's Taxonomy	Skill Mapping	Capstone Evaluation
CO1	To learn the fundamentals of operating system for client	Remember	Communication Skills	Writing Skills
CO2	To understand the mechanisms to create domain and objects.	Analyze	Competitive Skills	CIA
CO3	To use group policy concept in Windows Server 2012.	Apply	Technical Skills	Technical Presentation
CO4	To use DHCP and DNS in server OS.	Analyze	Competitive Skills	DIA(Quiz
CO5	To Apply &analyze the concepts in ADDS, DNS and DHCP.	Analyze	Competitive Skills	Model

Programme	Course Code	Title
B. Sc. CS with CG	20CGU02	DSC Practical I : Operating Systems Lab

Preamble : On completion of this course the students will be able to describe various System resources, Process management and functions of operating system.

Expected level of output : Conceptual Level

Department offered : Cognitive Systems

Prerequisites : Operating Systems Lab

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy	Skill Mapping	Capstone Evaluation
CO1	To learn the fundamentals of operating system for client	Understand	Conceptual	Simulation Exercises

Programme	Course Code	Title
B. Sc. CS with CG	20CGU03	DSC Practical II : Introduction to worksheets Lab

Preamble : To enable the students to know the basic of worksheets lab

Expected Level of Output :Conceptual Level

Department offered :Information Technology

Prerequisites :Problem solving using worksheets lab

Course Outcomes :On successful completion of the course, students will be able to

Course Outcome	Description	Blooms Verb	Skill Mapping	CIA – Capstone
CO1	Able to understand the fundamental concepts of worksheets	Understand	Conceptual	Simulation Exercises

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Programme	Course Code	Title
B.Sc.(CS with CG)	20CGU04	DSC II: Computer Networks

Preamble :Cognitive Systems student must possess knowledge about basic concepts of the fundamentals of computer networks by gaining a working knowledge of data transmission concepts, understanding the operation of all seven layers of OSI Model, TCP/IP and the protocols used in each layer.

Expected level of output :Conceptual Level

Department offered :Cognitive Systems

Prerequisites : Basic understanding of Computer Hardware and Networking

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy	Skill Mapping	Capstone Evaluation
CO1	Able to understand the Transmission media, Network topologies, Classification of networks, Media access method	Remember	Technical Skills	Poster Presentation
CO2	Able to understand the idea on Network expansion devices, OSI – 7 layers, TCP/IP suite	Understand	Competitive Skills	CIA
CO3	Able to evaluate the concepts IP Addressing, Switch basics, Port Security, VLAN, VTP, STP	Understand	Managerial Skills	Group-Mini Project
CO4	Able to understand the concept of Routing basics, Static Route, Dynamic Route, Dynamic Route Protocol – RIP, OSPF, EIGRP	Understand	Competitive Skills	DIA (Quiz)
CO5	Able to implement the concept Monitoring Network Devices, Overview of ACL\ NAT\ WAN \Wireless	Apply	Analytical Skills	Model

Programme	Course Code	Title
B. Sc. CS with CG	20CGU05	DSC Practical III Programming Lab Web Technology

Preamble :On successful completion of the course the students can create web pages.

Expected Level of Output :Conceptual Level

Department offered :Cognitive Systems

Prerequisites : Basic understanding of websites

Course Outcome :On successful completion of the course, students will be

Course Outcome	Description	Blooms Verb	Skill Mapping	CIA – Capstone
CO1	Able to understand the fundamental concepts of websites	Understand	Conceptual	Simulation Exercises

Programme	Course Code	Title
B. Sc. CS with CG	20CGU06	DSC Practical IV - Programming Lab- Computer Networks

Preamble : On successful completion of the course the students should implement the networking concepts in the packet tracer tool.

Expected level of output : Conceptual Level

Department offered : Cognitive Systems

Prerequisites : Basic Knowledge in Computer Hardware and Networking

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the fundamental concepts in Networking	Understand	Competitive	Attendance
CO2	Able to understand the idea on Network expansion devices and the protocols	Apply	Analytical	Protocols

B. Sc. CS with CG | **20CGU07** | **DSC III :Fundamentals of Data Structures**

Preamble : Computer science student must possess knowledge about basic concepts of data structures, purpose of the data structures. The main objective of the course is to introduce the various data structures and its type. The course objective provides understanding about different way of representing data structures in memory, various operations done by data structures and its applications

Expected level of output : Conceptual Level

Department offered : Cognitive Systems

Prerequisites : Basic Knowledge in Data Structures

Course Outcomes : After successful completion of this course, the students will be able to

CO	Description	Verb	Skill	CIA - Cap Stone
CO1	Able to understand the different types of data structures, and its operations, algorithms and complexity.	Remember	Communication Skills	Poster Presentation
CO2	Able to understand the concepts of Linked list, its representation in memory and types.	Understand	Competitive Skills	CIA
CO3	Able to evaluate the arithmetic expression and apply the learnt concepts in stack and queue operations.	Apply	Managerial Skills	Miniatures
CO4	Able to implement the concept of searching in various tree techniques.	Understand	Competitive Skills	DIA (Quiz)
CO5	Able to implement the concept of sorting using various sorting algorithms.	Apply	Analytical Skills	Model

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	20CUG01	Principles of Accountancy

Preamble : This course provides students with a basic understanding of accounting knowledge as applicable to business. It enables students to solve the basic accounting problems.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in basic accounting concepts

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic Accounting Concepts, Conventions and Classification of Accounts.	Remembering	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To construct final accounts for the SME's and Non-Trading Concerns	Apply	Technical	CIA
CO3	To Understand the concept of Bill of Exchange and Methods of Calculating the Account Current and Average Due Date	Understanding	Conceptual	Miniatures/ Protocols/ Models
CO4	Able to solve Consignment and Joint Venture accounts	Apply	Technical	DIA(Quiz)
CO5	To Understand Procedures for preparing Bank Reconciliation Statement.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Com(CM)	20CMU01	DSC-II : Introduction to Financial Markets

Preamble : This course provides students with a basic understanding Financial Market. It enables students to know Financial Market

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Financial Markets

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To be acquainted with the basics of financial markets and its functions	Remembering	Conceptual	Poster Presentation
CO2	To be familiar with financial instruments and players in the financial markets.	Understanding	Conceptual	CIA
CO3	To understand the Regulations and Regulatory bodies in the Financial Markets	Remembering	Conceptual	Group-Mini project
CO4	To gain knowledge about the stock market Indices and Depositories	Understanding	Conceptual	DIA(Quiz)
CO5	To understand the concept of Screen based trading and Clearing and Settlement mechanism.	Understanding	Conceptual	Model

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Programme	Course Code	Title
B.Com/ B.Com(CA)/ B.Com(IT)/B.Com(BPS)/B.Com CM /B.Com A&F/ B.Com(BI)/ B.Com (E.Com) /B.Com(BA)/ B.Com CS	**20CUG02**	**Desktop Publishing - Practical**

Preamble : This Practical / Laboratory course is designed to provide the Students with the knowledge to use Computer for the Office Documentation Purpose.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Draft the corporate office layout by showing functions of various department, letter using mail merge, Inward and outward mail register, and designing brochure and invoice Prepare Chairman's Speech and perform various operations in the toolbar Document the Purchase requisition slip/Purchase order for the five items , create various types of charts and Prepare mark list with various options	Understanding	Conceptual	Attendance
CO2	Make an advertisement of the company product and Create a presentation of a research paper to be presented in a conference. Create student database and Employee database with required fields Design the company's annual report	Apply	Analytical	Class Presentation

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Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com (BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(B&I)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG03**	**Financial Accounting**

Preamble : This course provides students with a basic understanding of accounting principles and practices of various types of business other than companies. It enables students to solve the problems relating to various types of business.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Account System

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the phenomenon of Departmental Accounting methods, Inter – Departmental Transfers and Branch Accounting objectives, accounting terminology and different type of branch accounting.	Understanding	Conceptual	Poster Presentation
CO2	Able to prepare Hire-Purchase accounting records, Preparation of Hire Purchase Trading Account and understand the phenomenon of Installment Purchase System and Accounting Treatment. .	Understanding	Conceptual	CIA
CO3	To Understand the basis of Royalties Accounting, Preparation of Ledger Accounts in the books of Leaser and Tenant, Accounting Treatment for Sub –Lease Able to prepare Insolvency Accounts and preparation of statement of affairs of assets and liabilities.	Understanding	Conceptual	Case Study

CO4	Able to prepare Partnership Accounts and accounting treatment for Admission, Retirement and death of Partners	Remembering	Technical	DIA(Quiz)
CO5	Able to know the conception and accounting procedure for amalgamation and dissolution of partnership firm	Apply	Technical	Model

Programme	Course Code	Title
B.Com(CM)	20CMU02	DSC – IV Business Economics

Preamble : This course provides students with a basic understanding of principles of managerial economics. It enables students to know business and economic situations.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the scope of managerial economics, demand and elasticity and its applications	Remembering	Conceptual	Poster Presentation
CO2	To understand the production and cost curves, Law of returns and Law of supply.	Understanding	Conceptual	CIA
CO3	Student can able to know different Market structures and the price determination under different markets	Remembering	Conceptual	Writing skills/Self Support Assignment/ Report Writing
CO4	To understand the concept of pricing, interest, Inflation and Deflation	Understanding	Conceptual	DIA(Quiz)
CO5	Student can bale to know the concepts of National Income, IIP, Business cycle and international trade.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Com/ B. Com AF/ B.Com(BPS)/ B.Com(CM)/B.Com(BI)	20CUG05	Accounting Practical

Preamble : To know and practice about the legal document used in the Business organization

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Documents used for Receipt and Payment, Income Statements, Subsidiary Book, Bank Reconciliation Statement, Instalment Payment System and used in connection with Balance sheet.	Remembering	Analytical	Poster Presentation
CO2	To Understand forms used for Deposits and Withdrawals, the concept of depreciation under Income tax Act and companies Act, transactions for drafting final accounts.	Understanding	Analytical	Self-Support Assignment

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT)/B.C.A/B.Sc(CSA)	20CSS01	DSC I - Digital Fundamentals and Architecture

Preamble: This course provides students with a basic understanding number system, combinational logic circuits, arithmetic & sequential circuits, I/O concepts & techniques, memory management techniques. It enables students to solve problems and express solutions using real world tools and strategies.

Expected level of output : Conceptual Level

Department offered : Computer Technology / Computer Application / Computer Science /Information Technology / Computer Science and Application

Prerequisites : Knowledge in computersArchitecture

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Number Systems and Basic Gates in Digital Logic Circuits.	Understand	Managerial	Technical Presentation
CO2	Understand Arithmetic Circuits and Flip-flops.	Understand	Technical	CIA
CO3	Remember I/O Concepts and I/O Ports.	Remember	Communication	Writing Skills
CO4	Remember the Asynchronous and Synchronous Transfer Techniques.	Remember	Communication	DIA(Quiz)
CO5	Analyze the memory management techniques.	Analyze	Analytical	Model

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/ B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)/ B.Sc Data Science	20CSS02	DSC II – C Programming

Preamble : This course provides students with a basic of developing an application and strong foundation on programming concepts. It enables students to solve the problems with programmable logic.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Science And Applications/ Computer Applications/Software Systems/Data Science

Prerequisites : Higher secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the elementary concepts and describe the basic structure of C.	Understand	Technical	Technical Presentation
CO2	Able to remember the difference between iteration, recursion, array and structure.	Remember	Competitive	CIA
CO3	Able to examine about functions and analyze the programming concepts to code the program easily	Analyze	Analytical	Application Development
CO4	Able to analyze and study about the usage of Structures and Unions	Analyze	Competitive	DIA(Quiz)
CO5	Able to analyze the modular, file management and accessing concept in programming	Analyze	Competitive	Model

Programme	Course Code	Title
B.Sc(CS)/B.C.A/B.Sc(CSA)/B.Sc(SS)/B.Sc Data Science	20CSS03	Practical – Programming Lab -C

Preamble : This Practical course is designed to provide the students with the basic knowledge in developing an application and strong foundation on programming concepts. In addition, the students will learn how to solve the problems with programmable logic.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Computer Science And Applications/ Computer Applications/Software Systems / Data Science.

Prerequisites : Knowledge in basics of computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of structured programming such as data types, variables, operators.	Understand	Analytical	Simulation Exercise
CO2	Able to apply advanced concepts of control structures, strings arrays, functions, pointers, structures, unions, files, preprocessors and command line arguments.	Apply	Analytical	Application Development

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT)/B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS04	DSC III - Data Structures

Preamble: : Computer science student must possess knowledge about basic concepts of data structures, purpose of the data structures. The main objective of the course is to introduce the various data structures and its type. The course objective provides understanding about different way of representing data structures in memory, various operations done by data structures and its applications

Expected level of output : Conceptual Level

Department offered :Computer Technology / Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application

Prerequisites : Knowledge in Computers

Course Outcomes :After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different types of data structures, and its operations, algorithms and complexity.	Remember	Technical	Technical Presentation
CO2	Able to understand the concepts of Linked list, its representation in memory and types.	Understand	Competitive	CIA
CO3	Able to evaluate the arithmetic expression and apply the learned concepts in stack and queue operations.	Apply	Communication	Writing Skill
CO4	Able to implement the concept of searching in various tree techniques.	Apply	Competitive	DIA(Quiz)
CO5	Able to implement the concept of sorting using various sorting algorithms.	Apply	Competitive	Model

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) / B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS05	DSC IV - C++ Programming

Preamble : This course provides students with a basic understanding Object oriented Programming Concepts. It enables students to develop industrial strength software applications.

Expected level of output : Conceptual Level

Department offered : Computer Science and Applications / Computer Technology / Computer Application / Computer Science /Information Technology / Software Systems

Prerequisites : Knowledge in C Programming

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of Object Oriented Programming	Understand	Technical	Class Presentation / Technical Presentation/ Demonstration
CO2	Able to cognize the features essential to develop consistent applications	Understand	Technical	CIA
CO3	Able to apply the reusability concept to attain highly reliable solutions.	Apply	Conceptual	Simulation exercises/ Application Development
CO4	Able to compile the learned concepts with storage classes	Create	Managerial	DIA(Quiz)
CO5	Able to solve the real time challenges through the acquired knowledge	Apply	Conceptual	Model

Programme	Course Code	Title
B.Sc(CS)/B.C.A/ B.Sc(CSA)/B.Sc(SS)	20CSS06	DSC Practical II – Practical - Programming Lab – C++

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use object-oriented concepts. In addition, the students will learn how to develop an application.

Expected level of output : Conceptual Level

Department offered : Computer Science and Applications/Computer Application/Computer Science / Software Systems

Prerequisites : Knowledge in Programming in C

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to develop an application using the basic features of Object Oriented Programming	Apply	Conceptual	Simulation Exercise
CO2	Able to build an application using the advanced concepts of object oriented Programming	Apply	Conceptual	Application Development

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Programme	Course Code	Title
B.Sc. (CDF)	20GEU24	PC Software

Preamble : On completion of course, students are able to develop fundamental knowledge of computer and MS-Office packages.

Expected Level of Output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basic understanding of computers

Course Outcomes On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to remember the basics fundamentals of MSOffice.	Remember	Managerial	Self-Support Assignments
CO2	Able to develop and work effectively in document, excel sheets and power point presentation.	Apply	Technical	Poster presentation
CO3	Able to apply various tools to create new designs effectively.	Apply	Technical	Poster presentation

Programme	Course Code	Title
B.Sc (CSHM)	**20GEU25**	**Front office Automation**

Preamble : On completion of course, students are able to develop fundamental knowledge of computer and MS-Office packages.

Expected Level of Output : Conceptual Level

Department offered : Computer Science

Prerequisites : Basic understanding of computers

Course Outcomes : On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to remember the basics fundamentals of MSOffice.	Remember	Managerial	Self-Support Assignments
CO2	Able to develop and work effectively in document, excel sheets and power point presentation.	Apply	Technical skills	Poster presentation
CO3	Able to apply various tools to create new designs effectively.	Apply	Technical skills	Poster presentation

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Programme	Course Code	Title
B.Sc(CT)/B.C.A/B.Sc(CS)/ B.Sc(IT)/B.Sc(CSA)	20CSS01	Digital Fundamentals and Architecture

Preamble	Students should have basic knowledge of number system, combinational logic circuits, arithmetic & sequential circuits, I/O concepts & techniques, memory management techniques.
Expected Level of Output	Conceptual Level
Department offered	Computer Technology / Computer Application / Computer Science /Information Technology / Computer Science and Application
Prerequisites	Basic understanding of computers
Course Outcomes	On successful completion of the course, students will have the ability to

Course Outcomes	Description	Verb	Skill	CIA – CapStone
CO1	Understand the number systems and basic gates in digital logic circuits.	Understand	Managerial	Class presentation
CO2	Understand arithmetic circuits and Flip-flops.	Understand	Technical	Simulation
CO3	Remember I/O Concepts and I/O ports.	Remember	Communication	Poster Presentation
CO4	Remember the asynchronous and synchronous transfer techniques.	Remember	Communication	Self support assignment
CO5	Analyze the memory management techniques.	Analyze	Analytical	Self-support assignment

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/ B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)/B. Sc Data Science	20CSS02	DSC II – C Programming

Preamble : This course provides students with a basic of developing an application and strong foundation on programming concepts. It enables students to solve the problems with programmable logic.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Science And Applications/ Computer Applications/Software Systems/Data Science

Prerequisites : Knowledge in basics of Computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the elementary concepts and describe the basic structure of C.	Understand	Technical	Technical Presentation
CO2	Able to remember the difference between iteration, recursion, array and structure.	Remember	Competitive	CIA
CO3	Able to examine about functions and analyze the programming concepts to code the program easily	Analyze	Analytical	Application Development
CO4	Able to analyze and study about the usage of Structures and Unions	Analyze	Competitive	DIA(Quiz)
CO5	Able to analyze the modular, file management and accessing concept in programming	Analyze	Competitive	Model

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Programme	Course Code	Title
B.Sc(CS) /B.C.A/B.Sc(CSA)/B.Sc(SS) / B.Sc Data Science	20CSS03	Practical – Programming Lab - C

Preamble	This Practical course is designed to provide the students with the basic knowledge in developing an application and strong foundation on programming concepts. In addition, the students will learn how to solve the problems with programmable logic.
Expected Level of Output	Conceptual Level
Department offered	Computer Science / Computer Science And Applications/ Computer Applications/Software Systems / Data Science
Prerequisites	Knowledge in basics of computers
Course Outcomes	After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics concepts of structured programming such as data types, variables, operators.	Understand	Analytical	Simulation Exercise
CO2	Able to apply advanced concepts of control structures, strings arrays, functions, pointers, structures, unions, files, preprocessors and command line arguments.	Apply	Analytical	Application Development

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)/ B.Sc Data Science	20CSS04	DSC III - Data Structures

Preamble : The main objective of the course is to introduce the various data structures and its types. It enables the students to learn different way of representing data structures in memory, various operations done by data structures and its applications

Expected level of output : Conceptual Level

Department offered : Computer Technology / Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application/Data Science

Prerequisites : Knowledge in Computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different types of data structures, and its operations, algorithms and complexity.	Remember	Technical	Technical Presentation
CO2	Able to understand the concepts of Linked list, its representation in memory and types.	Understand	Competitive	CIA
CO3	Able to evaluate the arithmetic expression and apply the learned concepts in stack and queue operations.	Apply	Communication	Writing Skill
CO4	Able to implement the concept of searching in various tree techniques.	Apply	Competitive	DIA(Quiz)
CO5	Able to implement the concept of sorting using various sorting algorithms.	Apply	Competitive	Model

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS05	DSC IV - C++ Programming

Preamble This course provides students with a basic understanding Object oriented Programming Concepts. It enables students to develop industrial strength software applications.

Expected Level of Output Conceptual Level

Department offered Computer Science/Information Technology/Computer Technology/ Computer Application /Computer Science and Applications/ Software Systems

Prerequisites Knowledge in C Programming

Course Outcomes After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of Object Oriented Programming	Understand	Technical	Class Presentation / Technical Presentation/ Demonstration
CO2	Able to cognize the features essential to develop consistent applications	Understand	Competitive	CIA
CO3	Able to apply the reusability concept to attain highly reliable solutions.	Apply	Conceptual	Simulation exercises/ Application Development
CO4	Able to compile the learned concepts with storage classes	Create	Competitive	DIA(Quiz)
CO5	Able to solve the real time challenges through the acquired knowledge	Apply	Competitive	Model

Programme	Course Code	Title
B.Sc(CS)/B.C.A/ B.Sc(CSA)/B.Sc(SS)	**20CSS06**	**DSC Practical II – Practical - Programming Lab – C++**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use object oriented concepts. In addition, the students will learn how to develop an application

Expected level of output : Conceptual Level

Department offered : Computer Science and Applications/ Computer Application /Computer Science / Software Systems

Prerequisites : Knowledge in Programming in C

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to develop an application using the basic features of Object Oriented Programming	Apply	Conceptual	Simulation Exercise
CO2	Able to build an application using the advanced concepts of object oriented Programming	Apply	Conceptual	Application Development

Programme	Course Code	Title
B.Sc. (CS&HM)	20HMU01	DSC I: Food Production and Patisserie- I

Preamble : This course provides students with a basic understanding about culinary department. It enables students to acquire skills and knowledge about the culinary department.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand about the kitchen and basic classifications	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to know about cooking materials and their use	Understanding Remembering Apply	Conceptual	CIA
CO3	Able to know about Preparation Of Ingredients & Methods of mixing food	Understanding Remembering Apply	Analytical	Writing skills
CO4	Able to understand Kitchen organization & methods of cooking food	Understanding Remembering Apply	Analytical	DIA(Quiz)
CO5	Able to understand Vegetable and Fruit Cookery, Rice, Cereals & Pulses & Salads	Understanding Remembering	Analytical	Model

Programme	Course Code	Title
B.Sc. (CS&HM)	20HMU02	DSC II: Food & Beverage Service - I

Preamble: This course provides students with a basic understanding about Food & Beverage Service department. It enables students to acquire skills and knowledge about theFood & Beverage Service department.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand sectors & Attributes of Food Service Industry	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to understand Staff organization	Understanding Remembering Apply	Conceptual	CIA
CO3	Able to understand the types of Service	Understanding Remembering Apply	Analytical	Writing skills
CO4	Able to understand Operating equipments	Understanding Remembering Apply	Analytical	DIA(Quiz)
CO5	Able to understand Menu, types & Food and its accompaniments	Understanding Remembering	Analytical	Model

Programme	Course Code	Title
B.Sc.CSHM	**20HMU03**	**DSC III - Hotel Housekeeping**

Preamble : This course provides students with a basic understanding about Housekeeping department. It enables students to acquire skills and knowledge about the house keeping department.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Higher Secondary School

Course Outcomes:

After successful completion of this course, the students will be able to work, lead and manage housekeeping department.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to focuses on hotel housekeeping industry & its scopes.	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to know the organization structure, responsibilities, work flow, equipments& agents used	Understanding Remembering Apply	Conceptual	CIA
CO3	Able to understand the cleaning method in different areas and its reports to be maintained	Understanding Remembering Apply	Analytical	Writing skills
CO4	Able to know about the work flow of Linen & Uniform Room	Understanding Remembering Apply	Analytical	DIA(Quiz)
CO5	Able to understand the procedure of laundry dept and flower arrangement	Understanding Remembering	Analytical	Model

Programme	Course Code	Title
B.Sc. (CS&HM)	**20HMU04**	**DSC Practical I : Food Production & patisserie Practical – I**

Preamble : This Practical course is designed to provide the students with the knowledge to use Food Production. In addition, the students will learn how to Food Production techniques with manipulation and method of preparing food.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Food Production & patisserie

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to identify the ingredients &equipments used in kitchen, Basic cuts of vegetable and meat.	Remembering	Conceptual	Technical Presentation
CO2	Able to understand the preparation method of the dishes	Understanding	Conceptual	Miniatures

Programme	Course Code	Title
B.Sc. (CS&HM)	20HMU05	DSC V : Food & Beverage Service Practical – I

Preamble: This Practical course is designed to provide the students with the knowledge to use Service techniques with manipulation and method of preparing food.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about Appraising and drawing of cutlery, Laying and relaying of table cloths	Remembering	Conceptual	Technical Presentation
CO2	Able to know about Handlingcutlery and crockery & Able to know about Order taking procedure & service of water	Understanding	Conceptual	Miniatures

Programme	Course Code	Title
B.Sc. (CS&HM)	20HMU06	DSC IV: Food Production and Patisserie- II

Preamble : This course provides students with a basic understanding food production.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand about the basic gravies and food recipes of various religion	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to understand about the basic Tandoori marination and famous tandoori recipes	Understanding Remembering Apply	Conceptual	CIA
CO3	Able to learn about the Indian cuisine , ingredients used and religious food habits of India	Understanding Remembering Apply	Analytical	Writing skills
CO4	Able to learn about the south regiona dishes	Understanding Remembering Apply	Analytical	DIA(Quiz)
CO5	Able to know about the south Indian snacks with their accompaniments	Understanding Remembering	Analytical	Model

Programme	Course Code	Title
B.Sc (CS& HM)	20HMU07	DSC V: Food & Beverage Service-II

Preamble : This course provides students with a basic understanding food service and its related activities.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about Breakfast service	Understanding Remembering Apply	Conceptual	Technical Presentation
CO2	Able to know about Classification of beverages	Understanding Remembering Apply	Conceptual	CIA
CO3	Able to know about Room service	Understanding Remembering Apply	Conceptual	Writing skills
CO4	Able to understand about Cheese , Sweets, Savories, Desserts	Understanding Remembering Apply	Conceptual	DIA(Quiz)
CO5	Able to understand about Ancillary departments	Understanding Remembering Apply	Conceptual	Model

Programme	Course Code	Title
B.Sc. (CS&HM)	**20HMU08**	**DSC Practical III : Food Production & patisserie Practical – II**

Preamble : This Practical course is designed to provide the students with the knowledge to use Food Production. In addition, the students will learn how to Food Production techniques with manipulation and method of preparing food.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Food Production & patisserie

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Know to do the dishes of various Indian gravies & breads.	Remembering	Conceptual	Technical Presentation
CO2	Know to do the dishes of various Indian cuisine	Understanding	Conceptual	Miniatures

Programme	Course Code	Title
B.Sc. (CS & HM)	**20HMU09**	**DSC IV : Food & Beverage Service Practical –II**

Preamble : This Practical course is designed to provide the students with the knowledge to use Service techniques with manipulation and method of preparing food .

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge inHigher Secondary Level

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand about Receiving the guests, Presenting the menu, taking orders	Remembering	Conceptual	Technical Presentation
CO2	Able to understand about Service of Non-Alcoholic drinks, Main course &Salads,Sweet& cheese	Understanding	Conceptual	Miniatures

Programme	Course Code	Title
B.Sc.CSHM	**20HMU09**	**DSC PRACTICAL -V- Hotel Housekeeping Practical**

Preamble : This Practical course is designed to provide the students with the knowledge to work with the housekeeping department. In addition, the students will learn how to make bed, flower arrangement and towel art.

Expected level of output : Conceptual Level

Department offered : Catering Science & Hotel Management

Prerequisites : Knowledge in Higher Secondary School

Course Outcomes:

After successful completion of this course, the students will be able to work, lead and manage housekeeping department.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know about the cleaning agents &equipments	Remembering	Conceptual	Technical Presentation
CO2	Able to know about the bed making procedures & service of guest rooms and procedure of flower arrangement	Understanding	Conceptual	Miniatures

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT)/B.C.A/B.Sc(CSA)	20CSS01	DSCI-DigitalFundamentals andArchitecture

Preamble : : This course provides students with a basic understanding number system, combinational logic circuits, arithmetic & sequential circuits, I/O concepts & techniques, memory management techniques. It enables students to solve problems and express solutions using real world tools and strategies.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Applications / Computer Science and Applications

Prerequisites : Knowledge in computers Architecture

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	UnderstandtheNumber SystemsandBasicGatesin DigitalLogicCircuits.	Understand	Managerial	TechnicalPresentation
CO2	UnderstandArithmeticCircuits andFlip-flops.	Understand	Competitive	CIA
CO3	RememberI/O Conceptsand I/O Ports.	Remember	Communication	Writing Skills
CO4	RemembertheAsynchronous and Synchronous TransferTechniques.	Remember	Competitive	DIA(Quiz)
CO5	Analyzethememory managementtechniques.	Analyze	Competitive	Model

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)/ B.Sc(DataScience)	20CSS02	DSCII–CProgramming

Preamble : : This course provides students with a basic of developing an application and strong foundation on programming concepts. It enables students to solve the problems with programmable logic.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Applications / Computer Science And Applications / Software Systems / Data Science

Prerequisites : Knowledge in Basics of Computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Abletounderstandtheelementaryconceptsanddescribethebasic structureofC.	Understand	Technical	TechnicalPresentation
CO2	Abletorememberthedifferencebetween iteration, recursion,array andstructure.	Remember	Competitive	CIA
CO3	Able to examine about functionsand analyzethe programmingconceptsto code theprogram easily	Analyze	Analytical	ApplicationDevelopment
CO4	Abletoanalyze andstudyabouttheusage ofStructuresandUnions	Analyze	Competitive	DIA(Quiz)
CO5	Abletoanalyzethemodular,filemanagement and accessingconceptinprogrammi	Analyze	Competitive	Model

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Programme	Course Code	Title
B.Sc(CT)/B.Sc(IT)	20CTU01/20ITU01	Practical-Programming Lab – Problem Solving using C

Preamble:: This Practical course is designed to provide the studentswith the basicknowledgeindevelopinganapplicationandstrong foundationonprogramming concepts. In addition, the students will learn how to solvetheproblemswithprogrammablelogic.

Expected level of output : Conceptual Level

Department offered : ComputerTechnology/InformationTechnology

Prerequisites : Knowledge in Basics of Computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the problemsolving and basics concepts ofstructuredprogrammingsu chas datatypes,variables,operator s.	Understand	Conceptua l	CIATest
CO2	Abletoapplyadvancedconce ptsofcontrolstructures,string sarrays,functions,pointers,st ructures,unions,files,prepro cessorsand commandlinearguments.	Apply	Technical	ApplicationDe velopment

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)/ B.Sc(DataScience)	20CSS04	DSCIII-DataStructures

Preamble : :The main objective of the course is to introduce the variousdatastructuresand itstype. Itenablesthestudentstolearndifferent wayof representingdata structuresinmemory various operations done by data structures and its applications

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Applications / Computer Science and Applications / Software Systems / Data Science

Prerequisites : Knowledge in Computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the differenttypes of data structures, and itsoperations,algorithmsa nd complexity.	Remember	Technical	TechnicalPr esentation
CO2	Abletounderstandthe concepts ofLinkedlist,itsrepresentationi nmemory and types.	Understand	Competitive	CIA
CO3	Able to evaluate the arithmeticexpression and apply the learntconcepts instackandqueue operations.	Apply	Communicat ionSkills	WritingSkill s
CO4	Abletoimplementtheconce ptofsearchinginvarioustree techniques.	Apply	Competitive	DIA(Quiz)
CO5	Abletoimplementthe conceptof sorting using various sortingalgorithms.	Apply	Competitive	Model

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS05	DSCIV-C++Programming

Preamble : This course provides students with a basic understanding Object oriented Programming Concepts. It enables students to develop industrial strength software applications..

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Applications / Computer Science And Applications / Software Systems

Prerequisites : Knowledgein CProgramming

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basicconcepts of Object OrientedProgramming	Understand	Technical	ClassPresentation /TechnicalPresentation/ Demonstration
CO2	Able to cognize the featuresessentialtodevelopconsistent applications	Understand	Competitive	CIA
CO3	Able to apply the reusabilityconcepttoattainhighly reliablesolutions.	Apply	Conceptual	Simulationexercises/Application Development
CO4	Abletocompilethelearned conceptswithstorageclasses	Create	Competitive	DIA(Quiz)
CO5	Abletosolvethe realtime challengesthroughtheacquiredknowledge	Apply	Competitive	Model

Programme	Course Code	Title
B.Sc(CT)/B.Sc(IT)	20CTU02 /20ITU02	PracticalProgrammingLab-C++WithData Structures

Preamble :Toprovidesoundknowledgeinbasicconcepts ofObjectOriented Programming and apply them in developingindustrialstrengthsoftwareapplications..

Expected level of output : Conceptual Level

Department offered : ComputerTechnology/ InformationTechnology

Prerequisites : Programming in C

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to develop anapplicationusingthebasic featuresofObjectOrientedProgramming	Apply	Conceptual	CIATest
CO2	Able to build an applicationusingtheadvanced concepts of object orientedProgramming	Apply	Conceptual	ApplicationDevelopment

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Programme	Course Code	Title
B.Sc. Data Science	20DSU01	Introduction to Data Science

Preamble This course provides students with a basic understanding of Data Science such as classification, clustering and data visualization techniques. It also gives ability to use supervised and un-supervised techniques, regression and correlation techniques.

Expected Level of Output Conceptual Level

Department offered Data Science

Prerequisites Knowledge in basics of computers

Course Outcomes On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics of Data mining.	Understand	Technical	Poster Presentation
CO2	Able to understand various pattern mining techniques	Understand	Competitive	CIA
CO3	Able to understand various classification techniques	Understand	Communication	Writing Skills
C04	Able to understand various clustering techniques	Understand	Competitive	DIA(Quiz)
C05	Able to analyze the advanced data mining techniques	Analyze	Competitive	Model

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/ B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)/ B.Sc Data Science	20CSS02	DSC II – C Programming

Preamble : This course provides students with a basic of developing an application and strong foundation on programming concepts. It enables students to solve the problems with programmable logic.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Science And Applications/ Computer Applications/Software Systems/Data Science

Prerequisites : Higher secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the elementary concepts and describe the basic structure of C.	Understand	Technical	Technical Presentation
CO2	Able to remember the difference between iteration, recursion, array and structure.	Remember	Competitive	CIA
CO3	Able to examine about functions and analyze the programming concepts to code the program easily	Analyze	Analytical	Application Development
CO4	Able to analyze and study about the usage of Structures and Unions	Analyze	Competitive	DIA(Quiz)
CO5	Able to analyze the modular, file management and accessing concept in programming	Analyze	Competitive	Model

Programme	Course Code	Title
B.Sc(CS)/B.C.A/B.Sc(CSA)/B. Sc(SS)/B.Sc Data Science	20CSS03	Practical – Programming Lab -C

Preamble : This Practical course is designed to provide the students with the basic knowledge in developing an application and strong foundation on programming concepts. In addition, the students will learn how to solve the problems with programmable logic.

Expected Level of Output : Conceptual Level

Department offered : Computer Science / Computer Science And Applications/ Computer Applications/Software Systems / Data Science.

Prerequisites : Knowledge in basics of computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of structured programming such as data types, variables, operators.	Understand	Analytical	Simulation Exercise
CO2	Able to apply advanced concepts of control structures, strings arrays, functions, pointers, structures, unions, files, preprocessors and command line arguments.	Apply	Analytical	Application Development

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Programme	Course Code(s)	Course Title
B.Sc Data Science	**20DSU02**	**Practical - Spreadsheet for Data Scientists**

Preamble : This Practical course is designed to provide the students with the basic knowledge inusing VBA Constructs and to perform various macro functions available in spread sheet.

Expected Level of Output : Conceptual Level

Department offered: : Data Science

Prerequisites : Knowledge in basics of Office Packages

Course Outcomes :After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the basic tools of Excel Macro and Macro tools	Understand	Technical	Technical Presentation
CO2	Apply different Excel macro objects on different applications	Apply	Communication	Class Presentation

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Programme	Course Code	Title
B.Sc Data Science	20DSU03	Object Oriented Programming using Java

Preamble	This course provides students with a basic understanding of OOPs concepts and strong foundation on Java programming and its application.
Expected Level of Output	Conceptual Level
Department offered	Data Science
Prerequisites	C Programming
Course Outcomes	On successful completion of the course, students will have the ability to

Course Outcom e	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basics of Software Development, Object Oriented Programming and the Java Program Structures.	Understand	Communication	Writing skill
CO2	Able to explore the concept of Operators, Expressions, Control flow statements, Arrays, Classes and Objects, Inheritance.	Analyze	Analytical	Simulation
CO3	Able to relate the concepts of Interfaces and Packages, Exceptional handling in Java.	Apply	Technical	Poster Presentation
CO4	Able to Apply the concepts of Streams of I/O Programming, Multithreaded Programming and JDBC Programming	Apply	Technical	Technical Presentation

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Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT)/B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS04	DSC III - Data Structures

Preamble: : Computer science student must possess knowledge about basic concepts of data structures, purpose of the data structures. The main objective of the course is to introduce the various data structures and its type. The course objective provides understanding about different way of representing data structures in memory, various operations done by data structures and its applications

Expected level of output : Conceptual Level

Department offered :Computer Technology / Computer Application / Computer Science /Information Technology / Software Systems / Computer Science and Application

Prerequisites : Knowledge in Computers

Course Outcomes :After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different types of data structures, and its operations, algorithms and complexity.	Remember	Technical	Technical Presentation
CO2	Able to understand the concepts of Linked list, its representation in memory and types.	Understand	Competitive	CIA
CO3	Able to evaluate the arithmetic expression and apply the learned concepts in stack and queue operations.	Apply	Communication	Writing Skill
CO4	Able to implement the concept of searching in various tree techniques.	Apply	Competitive	DIA(Quiz)
CO5	Able to implement the concept of sorting using various sorting algorithms.	Apply	Competitive	Model

Programme	Course Code	Title
B.Sc Data Science	**20DSU04**	**Practical - Programming Lab - Java and Data Structures**

Preamble This practical course is designed to provide the students with the knowledge to use basic syntax and structure of OOPs language. In addition, the students will learn how to do projects and solve the applications using Java programming logic.

Expected Level of Output Conceptual Level

Department offered Data Science

Prerequisites Knowledge in C programming language

Course Outcomes On successful completion of the course, students will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the execution flow of the Java program using classes, objects, control structures, interfaces and packages	Understand	Analytical	Simulation Exercise
CO2	Apply the concept of Threads and Exception handling and develop applications using applets	Apply	Analytical	Application Development

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Programme	Course Code(s)	Title
All UG	20AEU01	Environmental Studies

Preamble :To provide basic knowledge on ecology and its Environment

Expected Level of Output :Basic working Level

Department offered : **Biotechnology**

Prerequisites :Basic knowledge in biology

Course Outcome :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand and realize the multi-disciplinary nature of the environment, its components and inter-relationship between man and environment.	Understanding Remember	Technical	Technical Presentation / Demonstration
CO2	To understand the over exploitation of natural resources	Understanding Remember	Managerial	Group assignment
CO3	To understand the values in biodiversity conservation	Understanding Remember	Communication	Writing skill
CO4	To understand the environmental legislation and control strategies for a sustainable environment.	Understanding Remember	Technical	Poster presentation

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Programme	Course Code(s)	Title
ALL UG	20AEU02I	Waste Management

Preamble : To impart basic knowledge of Environmental hygiene, Sanitation and waste management.

Expected Level of Output : Conceptual Level

Department offered : **Bioscience**

Prerequisites :Basic knowledge on Biology

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the Environmental Hygiene and sociology of environmental hygiene.	Understand	Communication	Writing skill
CO2	To understand the waste and wastewater management.	Understand	Competitive	CIA 1
CO3	To understand the concepts of sanitation and Waste Audit	Understand	Technical	Poster presentation
CO4	To understand the concepts of technology for Sanitation construct and waste to wealth programmes.	Understand	Competitive	Model Exam

Programme	Course Code	Title
B.Sc. (ECS)	**20ECU01**	**Basic Electronics and Network Analysis**

Preamble: This course provides students with a basic understanding of an electricity and electronics. It enables students to solve basic problems related to AC and DC circuits with various theorems and methods.

Expected level of output : Conceptual Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in elements of electronics

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Identify and define basic terms and concepts which are needed for electronic science.	Remembering	Conceptual	Writing skills/SSA
CO2	Recognize basic electronic components used for different electronic functions.	Understanding	Conceptual	CIA
CO3	Understand basic concepts of DC circuit behavior.	Understanding	Conceptual	Class/ Technical Presentation
CO4	Demonstrate the problem solving skills and proficiency in AC circuit analysis.	Applying	Technical	DIA (Quiz)
CO5	Express the basic structure, properties and working principles of P-N junction circuit elements.	Analyzing	Analytical	Model

Programme	Course Code	Title
B.Sc. (ECS)	20ECU02	Basic Electronics Lab

Preamble: This course focuses to design, construct and take measurement of basic electronic circuits, and compare the experimental results with theoretical concepts in the laboratory.

Expected level of output : Practical Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in elements of electronics

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the VI characteristics of semiconductor devices.	Understanding	Conceptual	CIA Test
CO2	Develop the ability to design and analyze electronic circuits.	Applying	Technical	Miniatures/ Models

Programme	Course Code	Title
B.Sc. (ECS)	20ECU03	Network Analysis Lab

Preamble: This laboratory course is designed to provide the students with the knowledge to use networks theorems for circuit analysis. In addition, the students will learn how to compare theoretical predictions with experimental results.

Expected level of output : Practical Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in elements of electronics

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Demonstrate network theorems using electronic components.	Applying	Technical	CIA Test
CO2	Test circuits, analyze data, Troubleshoot and repair simple electric circuits.	Evaluating	Technical	Miniatures/ Models

Programme	Course Code	Title
B.Sc. (ECS)	20ECU04	Electronic Devices and Circuits

Preamble: This course builds the knowledge-base on the physics of semiconductors as related to the characteristics and design of solid-state electronic devices. It provides fundamental knowledge on basic electronic circuits.

Expected level of output : Conceptual Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in basic electronic components

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Acquire a basic knowledge in Bipolar Junction Transistor (BJT).	Understanding	Conceptual	Writing skills/SSA
CO2	Understand the functionality of Field Effect Transistor (FET).	Understanding	Conceptual	CIA
CO3	Understand the working and characteristics of Thyristors.	Understanding	Conceptual	Class/ Technical Presentation
CO4	Develop the ability to analyze the power supply and regulator circuits using discrete components.	Analyzing	Analytical	DIA (Quiz)
CO5	Design and verify the amplifier and oscillator circuits.	Analyzing	Analytical	Model

Programme	Course Code	Title
B.Sc. (ECS)	20ECU05	Electronic Devices Lab

Preamble: This course is to impart practical knowledge about the characteristics of various electronic devices and design of various electronic circuits.

Expected level of output : Practical Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in Electronic devices

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the working and operational characteristics of Semiconductor devices.	Understanding	Technical	CIA Test
CO2	Verify practically the response of various electronic devices.	Applying	Technical	Miniatures/ Models

Programme	Course Code	Title
B.Sc. (ECS)	20ECU06	Electronic Circuits Lab

Preamble: This course is designed to provide an experience in design, construct and test the basic electronic circuits.

Expected level of output : Practical Level

Department offered : Electronics and Communication Systems

Prerequisites : Knowledge in Electronic devices

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the biasing of BJTs and frequency response of amplifiers.	Understanding	Technical	CIA Test
CO2	Design and evaluate the electronic oscillators.	Applying	Technical	Miniatures/ Models

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Programme	Course Code	Title
B.A. English Literature	20ENU01	DSC 1 - Social History of England

Preamble : Students of English Literature must possess a wide knowledge about England history, the Kings and queens of England, its political conditions in different periods, its social conditions and religious backgrounds

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge History of England, early wars and various Periods up to the House of Windsor.	Understanding	Conceptual	Technical Presentation
CO2	To understand Renaissance and its 'effect on England and Reformation which led to the dissolution of monasteries by King Henry VIII.	Remembering	Conceptual	Poster Presentation
CO3	To understand the Colonial growth during Elizabethan period and to explore the growth of theatre and its' decline during Puritan Period.	Remembering	Analytical	Writing Skills
CO4	To learn about the life during the Restoration period, Queen Anne's age and the Coffee-houses of England.	Analyzing	Analytical	Group Assignment
CO5	To know the Industrial Revolution, effects of French Revolution, the Reform Bills and the Victorian Age	Analyzing	Analytical	Writing Skills

Programme	Course Code	Title
B.A. English Literature	**20ENU02**	**DSC II - Early British Literature Upto 1558**

Preamble : The Course presents a broad overview of Early British Literature up to 1558 which covers Old English Period in particular. The course facilitates the students to critically appreciate the literary works of Chaucer and his contemporaries.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge about the evolution of English literature, the old epics, the age before Chaucer and the Age of Chaucer.	Understanding	Conceptual	Technical Presentation
CO2	To learn about the age after Chaucer and also know about the emergence of Drama.	Remembering	Conceptual	Poster Presentation
CO3	To analyze verse in Chaucer's period and also to learn the poems of the writers who lived in Chaucer's period.	Remembering	Analytical	Writing Skills
CO4	To relish the poetic forms of Chaucer's contemporary writers.	Analyzing	Analytical	Group Assignment
CO5	To analyze the development of Drama and to learn about the early writing style.	Analyzing	Analytical	Writing Skills

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Programme	Course Code	Title
B.A. English Literature	**20ENU03**	**DSC III - Language Constructs**

Preamble : To enhance students to achieve a scientific sense through linguistics in order to complete the aesthetics sense from their study of literature. To enable them to learn an acceptable system of sound and pronunciation.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To enable the students to comprehend the basic concept of grammar.	Understanding	Conceptual	Class Presentation
CO2	To make the students understand how grammatical structure are systematically related to meaning.	Remembering	Conceptual	Group discussion
CO3	To study the origin of language and the speech organs	Remembering	Analytical	Writing Skills
CO4	To make the students aware of the teaching techniques through English language.	Analyzing	Analytical	Poster presentation
CO5	To analyze the scientific pattern of the language, structure, forms and its functions.	Analyzing	Analytical	Writing Skills

Programme	Course Code	Title
B.A. English Literature	**20ENU04**	**DSC IV - British Literature from Shakespeare to Bacon**

Preamble : Students of English Literature must possess a wide knowledge about the literature of British writers and also the knowledge of the broad History of English Literature of all the ages.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge about the age of Shakespeare and his writings, the development of Drama and other genres of the age.	Understanding	Conceptual	Technical Presentation
CO2	To learn about the important poets of Elizabethan age and to relish their poems.	Remembering	Conceptual	Poster Presentation
CO3	To read the poems of Elizabethan Literature and to know about the different poetic forms.	Remembering	Analytical	Writing Skills
CO4	To know about the important Prose writers of the Elizabethan age to acknowledge their writing style.	Analyzing	Analytical	Group Assignment
CO5	To read one of the most important dramas of the Elizabethan age and to gain knowledge about the writing style of Christopher Marlowe.	Analyzing	Analytical	Writing Skills

Programme	Course Code	Title
B.A. English Literature	20ENU05	DSC V - Background to Literature

Preamble : The Paper aims at introducing the students to the various forms of Poetry, Prose, Drama, Novels and its types with select literary works. In addition, the paper also introduces them to literary criticism and select literary terms.

Expected level of output : Conceptual Level

Department offered : English

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To analyze different types of Poetry and stanza forms.	Analyzing	Conceptual	Technical Presentation
CO2	To study the origin of English Drama and to examine different Dramatic devices.	Analyzing	Conceptual	Poster Presentation
CO3	To comprehend the origin of Short story, Essay and to figure out the structure of Novel.	Understanding	Communication	Writing Skills
CO4	To acquire the skill of criticism and its usages in works of art.	Remembering	Analytical	Group Assignment
CO5	To learn and understand the different literary terms.	Understanding	Analytical	Writing Skills

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT)/B.C.A/B.Sc(CSA)	20CSS01	DSC I - Digital Fundamentals and Architecture

Preamble : This course provides students with a basic understanding number system, combinational logic circuits, arithmetic & sequential circuits, I/O concepts & techniques, memory management techniques. It enables students to solve problems and express solutions using real world tools and strategies.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/Computer Application / Computer Science and Application

Prerequisites : Knowledge in computersArchitecture

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the Number Systems and Basic Gates in Digital Logic Circuits.	Understand	Managerial	Technical Presentation
CO2	Understand Arithmetic Circuits and Flip-flops.	Understand	Technical	CIA
CO3	Remember I/O Concepts and I/O Ports.	Remember	Communication	Writing Skill
CO4	Remember the Asynchronous and Synchronous Transfer Techniques.	Remember	Communication	DIA(Quiz)
CO5	Analyze the memory management techniques.	Analyze	Analytical	Model

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/ B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS02	DSC II – C Programming

Preamble : This course provides students with a basic of developing an application and strong foundation on programming concepts. It enables students to solve the problems with programmable logic.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Science And Applications/ Computer Applications/Software Systems

Prerequisites : Higher secondary level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the elementary concepts and describe the basic structure of C.	Understand	Conceptual	Technical Presentation
CO2	Able to remember the difference between iteration, recursion, array and structure.	Remember	Conceptual	CIA
CO3	Able to examine about functions and analyze the programming concepts to code the program easily	Analyze	Analytical	Application Development
CO4	Able to analyze and study about the usage of Structures and Unions	Analyze	Technical	DIA(Quiz)
CO5	Able to analyze the modular, file management and accessing concept in programming	Analyze	Technical	Model

Programme	Course Code	Title
B.Sc(IT)/B.Sc(CT)	20ITU01/20CTU01	Practical-Programming Lab - C

Preamble : This Practical course is designed to provide the students with the basic knowledge in developing an application and strong foundation on programming concepts. In addition, the students will learn how to solve the problems with programmable logic.

Expected Level of Output : Conceptual Level

Department offered : Information Technology /Computer Technology

Prerequisites : Knowledge in basics of computers

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the problem solving and basics concepts of structured programming such as data types, variables, operators.	Understand	Conceptual	CIA Test
CO2	Able to apply advanced concepts of control structures, strings arrays, functions, pointers, structures, unions, files, preprocessors and command line arguments.	Apply	Technical	Application Development

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS04	DSC III - Data Structures

Preamble :Computer science student must possess knowledge about basic concepts of data structures, purpose of the data structures. The main objective of the course is to introduce the various data structures and its type. The course objective provides understanding about different way of representing data structures in memory, various operations done by data structures and its applications

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology/ Computer Science and Applications/ Computer Applications/Software Systems

Prerequisites : Knowledge in Computers

Course Outcomes :After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the different types of data structures, and its operations, algorithms and complexity.	Remember	Communication Skills	Technical Presentation
CO2	Able to understand the concepts of Linked list, its representation in memory and types.	Understand	Technical Skills	CIA
CO3	Able to evaluate the arithmetic expression and apply the learnt concepts in stack and queue operations.	Apply	Managerial Skills	Writing Skills
CO4	Able to implement the concept of searching in various tree techniques.	Apply	Managerial Skills	DIA(Quiz)
CO5	Able to implement the concept of sorting using various sorting algorithms.	Apply	Analytical Skills	Model

Programme	Course Code	Title

B.Sc(CS)/B.Sc(IT)/B.Sc(CT) / B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS05	DSC IV - C++ Programming

Preamble: This course provides students with a basic understanding Object Oriented Programming Concepts. It enables students to develop industrial strength software applications.

Expected level of output :Conceptual Level

Department offered :Computer Science / Information Technology / Computer Technology/ Computer Science And Applications/ Computer Applications/Software Systems

Prerequisites : Knowledge in C Programming

Course Outcomes :

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of Object Oriented Programming	Understand	Technical	Class Presentation / Technical Presentation/ Demonstration
CO2	Able to cognize the features essential to develop consistent applications	Understand	Technical	CIA
CO3	Able to apply the reusability concept to attain highly reliable solutions.	Apply	Conceptual	Simulation exercises/ Application Development
CO4	Able to compile the learned concepts with storage classes	Create	Managerial	DIA(Quiz)
CO5	Able to solve the real time challenges through the acquired knowledge	Apply	Conceptual	Model

Programme	Course Code	Title
B.Sc.(IT)/B.Sc.(CT)	20ITU02/20CTU02	**Practical Programming Lab- C++ With Data Structures**

Preamble	:	To provide sound knowledge in basic concepts of Object Oriented Programming and apply them in developing industrial strength software applications.
Expected Level of Output:		Conceptual Level
Department offered	:	Information Technology/ Computer Technology
Prerequisites	:	Programming in C

Course Outcomes:

After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to develop an application using the basic features of Object Oriented Programming	Apply	Conceptual	CIA Test
CO2	Able to build an application using the advanced concepts of object oriented Programming	Apply	Conceptual	Application Development

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Programme	Course Code	Title
B.Sc.Biotechnology/ Microbiology	20BSU01	Cell Biology

Preamble : To impart basic knowledge of structure and function of Cells and developmental biology

Expected level of output : Conceptual Level

Department offered : Biotechnology

Prerequisites : Basicknowledgeoncellsanditsorganelles,celltransport mechanism, nucleus division an organization, cell signaling and basicsofdevelopmentalbiology

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Tounderstandthestructuresand basiccomponentsof prokaryotic, eukaryotic and specialized cells.	Understand	Conceptual	Class Presentation
CO2	To remember thetransportmechanism in andoutofthecell	Remember	Conceptual	CIA
CO3	To understandthestructureand function ofintracellularorganelles.	Understand	Conceptual	WritingSkills
CO4	To remembertheir cytoskeleton, processof celldivisionand chromosomes	Remember	Conceptual	DIA(Quiz)
CO5	To remember the concepts of cell signalling and developmental biology.	Remember	Conceptual	Model

Programme	Course Code	Title
B.Sc. Microbiology	**20MBU01**	**DSC I – Fundamentals of Microbiology**

Preamble: This course provides students with a basic understanding of the scope of microbiology and microbial techniques.

Expected level of output: Conceptual Level

Department offered: Microbiology

Prerequisites: Basic knowledge in biology

Course Outcomes: After successful completion of this course, the students will be able tounderstand the basics of microbiology

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the History of Microbiology.	Understand	Conceptual	Class Presentation
CO2	To understand the different types of Microscopy and the Microbial staining methods.	Understand	Conceptual	CIA
CO3	To understand the Sterilization and culture Techniques.	Understand	Conceptual	Writing Skill
CO4	To understand the various microbial culturing techniques	Understand	Conceptual	DIA(Quiz)
CO5	To understand the various methods for the Maintenance and Preservation of culture	Understand	Conceptual	Model

Programme	Course Code	Title
B.Sc Microbiology	**20MBU02**	**DSC Practical I - Lab in Cell Biology, Biochemistry and Microbiology**

Preamble: This Practical / Laboratory course is designed to provide the students with the knowledge to use Microscope. In addition, the students will learn how to visualize the cells.

Expected level of output: Basic Level

Department offered: Microbiology

Prerequisites: Basic knowledge in biology

Course Outcomes: After successful completion of this course, the students will be able to know the biomolecules present in the sample and also to use microscope

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To categorize the different types of cells, present in the given sample and to estimate the biomolecules.	Analyzing	Technical	CIA Test/Model Exam/Attendance
CO2	To identify the microorganisms using different staining techniques	Analyzing	Technical	Miniatures/ Protocols/ Models

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B.Sc. Microbiology	**20GEU50**	**GEC - Clinical Biochemistry**

Preamble: To impart basic knowledge about the clinical disorders and their diagnosis.

Expected level of output: Conceptual Level

Department offered: Microbiology

Prerequisites: Knowledge in basic chemistry

Course Outcomes: After successful completion of this course, the students will be able tounderstand the basics of clinical diagnosis

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the diagnostic methods of Collections, processing and interpretation of report for all clinical samples	Understand	Conceptual	Class Presentation
CO2	To Understand clinical features associated with carbohydrate, lipid protein metabolic disorders and evaluate their risk contribution to deficiency diseases.	Understand	Conceptual	CIA
CO3	To Understand the biological disorders and its assessment through enzyme assays	Understand	Conceptual	Writing Skill
CO4	To analyze the disorders of amino acid metabolism	Analyze	Conceptual	DIA(Quiz)
CO5	To analyze the functioning of liver and kidney and related disorders	Analyze	Conceptual	Model

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Programme	Course Code	Title
B.Sc. Microbiology	**20MBU03**	**DSC II - Microbial Diversity**

Preamble: This course provides students with a basic understanding on classification of bacteria, fungi, algae, protozoan and virus. It enables students to understand the diversity of microbial world.

Expected level of output: Conceptual Level

Department offered: Microbiology

Prerequisites: Basic knowledge in biology

Course Outcomes: After successful completion of this course, the students will be able to understand the diversity of microbial world.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the methods in Microbial Classification system	Understand	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To Understand the General structure, classification growthand reproduction of eubacteria	Understand	Conceptual	CIA
CO3	To Understand the General structure, classification growthand reproduction of Archaebacteria and Fungi.	Understand	Conceptual	Writing skills/Self Support Assignment /Report Writing
CO4	To Understand the General structure, classification growthand reproduction of algae and Protozoa.	Understand	Conceptual	DIA(Quiz)
CO5	To Understand the General structure, classification growthand reproduction of Virus infecting bacteria, plant, animal and insects.	Understand	Conceptual	Model

Programme	Course Code	Title
B.Sc. Microbiology	**20MBU04**	**DSC III - Microbial Physiology and Metabolism**

Preamble: To impart basic knowledge about life processes of Microbes

Expected level of output: Conceptual Level

Department offered: Microbiology

Prerequisites: Basic knowledge in biology

Course Outcomes: Basic knowledge on study of microbial growth, microbial metabolism and microbial cell structure.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To discuss about the prokaryotic cell structure and cell differentiation.	Understand	Conceptual	Class Presentation
CO2	To understand the basics of microbial nutrition and its growth	Understand	Conceptual	CIA
CO3	To analyze the microbial culture methods and factors involved in microbial growth.	Analyze	Conceptual	Writing Skills
CO4	To remember the ATP production and its pathways through the ETC and oxidative phosphorylation.	Remembering	Conceptual	DIA
CO5	To remember the pathways of photosynthesis mechanism by microbes	Remembering	Conceptual	Model

Programme	Course Code	Title
B.ScMicrobiology	20MBU05	DSC Practical I: LabinMicrobialPhysiology andMetabolismandBioanalytical techniques

Preamble: To provide basic practical skills onmicrobial physiologyand metabolism and about Bioanalytical techniques

Expected level of output: Basic Level

Department offered: Microbiology

Prerequisites: Basic working level

Course Outcomes: After successful completion of this course, the students will be able to acquire knowledge on microbial metabolism and bioanalytical techniques to analyse their physiological activity

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the knowledge about measurement ofmicrobial growthand factors influencingthe microbial growth and knowledgeon variousbiochemicalreactions	Understanding	Analysis	CIA Test/Model Exam/Attendance
CO2	To gain knowledge on different hydrolysistests and to understand the protocol forisolatingDNA and microscopic examination of algae	Understanding	Analysis	Miniatures/ Protocols/ Models

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Programme	Course Code	Title
B.Sc. Biotechnology/ Microbiology	20GEU51	GEC -Bioanalytical Techniques

Preamble: This course provides students with a basic understanding the principles and applications of basic instruments in biological sciences. It enables students to get instrumental knowledge

Expected level of output: Conceptual Level

Department offered: Biotechnology

Prerequisites: Basic knowledge in biology

Course Outcomes: After successful completion of this course, the students will be able to understand the working of basic instruments in biological sciences.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the principle and types of pH meter and Centrifuge	Understand	Conceptual	Case study
CO2	To understand the technique of chromatography	Understand	Conceptual	CIA
CO3	To learn the basic principles and types of Electrophoresis	Understand	Conceptual	Simulation exercises/ Application Development
CO4	To learn the basic principles, working and types of spectroscopy	Understand	Conceptual	DIA(Quiz)
CO5	To understand the working and applications of radioactivity, Thermocycler (PCR), Microarray, Fluorescent activated cell sorting	Understand	Conceptual	Model

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG01**	**DSC - I: Principles of Accountancy**

Preamble : This course provides students with a basic understanding of accounting knowledge as applicable to business. It enables students to solve the basic accounting problems.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in basic accounting concepts

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic Accounting Concepts, Conventions and Classification of Accounts.	Remembering	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To construct final accounts for the SME's and Non-Trading Concerns	Apply	Technical	CIA
CO3	To Understand the concept of Bill of Exchange and Methods of Calculating the Account Current and Average Due Date	Understanding	Conceptual	Miniatures/ Protocols/ Models
CO4	Able to solve Consignment and Joint Venture accounts	Apply	Technical	DIA(Quiz)
CO5	To Understand Procedures for preparing Bank Reconciliation Statement.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Com (A&F)	**20CFU01**	**DSC - II: Fundamentals of Investment**

Preamble : Commerce students should have basic knowledge of theory and practice of investment theory and practice of investment decision making

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the concept of Investment and differentiate investment, speculation and gambling. To know features of an investment programme - The investment process	Understanding	Conceptual	Poster Presentation
CO2	Understand the Time value of Money and the risk and return in The investment and To Understand the Concept of Inflation and its Effect on Economy and the linkage between inflation and interest rate	Analysing	Technical	CIA
CO3	To Understand the various banking and Insurance investment products and Post Office Instruments: NSC, KVP, PPF	Remembering	Conceptual	Group- Mini Project
CO4	Remembering the various investment alternatives such as gold, real estate, equity and debt.	Remembering	Conceptual	DIA(Quiz)
CO5	Understand the tax planning and investment planning in real scenario.	Understanding	Conceptual	Model

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com (BPS)/ B.Com CM/ B.Com A&F/ B.Com(BI)	**20CUG02**	**DSC Practical-I : Desktop Publishing – Practical**

Preamble : Commerce students should have basic knowledge to use computer for the office documentation purpose

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Draft the corporate office layout by showing functions of various department, letter using mail merge, Inward and outward mail register, and designing brochure and invoice.	Understand	Conceptual	Technical Presentation
CO2	Prepare Chairman's Speech and perform various operations in the toolbar	Understand	Conceptual	Poster Presentation
CO3	Document the Purchase requisition slip/Purchase order for the five items , create various types of charts and Prepare mark list with various options	Apply	Conceptual	Poster Presentation
CO4	Make an advertisement of the company product and Create a presentation of a research paper to be presented in a conference.	Apply	Communication	Poster presentation
CO5	Create student database and Employee database with required fields	Apply	Analytical	Technical Presentation
CO6	Design the company's annual report	Apply	Analytical	Technical Presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG03**	**DSC-III : Financial Accounting**

Preamble : This course provides students with a basic understanding of accounting principles and practices of various types of business other than companies. It enables students to solve the problems relating to various types of business.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Account System.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the phenomenon of Departmental Accounting methods, Inter – Departmental Transfers and Branch Accounting objectives, accounting terminology and different type of branch accounting.	Understanding	Conceptual	Poster Presentation
CO2	Able to prepare Hire-Purchase accounting records, Preparation of Hire Purchase Trading Account and understand the phenomenon of Installment Purchase System and Accounting Treatment.	Understanding	Conceptual	CIA
CO3	To Understand the basis of Royalties Accounting, Preparation of Ledger Accounts in the books of Leaser and Tenant, Accounting Treatment for Sub –Lease. Able to prepare	Understanding	Conceptual	Case Study

	Insolvency Accounts and preparation of statement of affairs of assets and liabilities.			
CO4	Able to prepare Partnership Accounts and accounting treatment for Admission, Retirement and death of Partners	Remembering	Technical	DIA(Quiz)
CO5	Able to know the conception and accounting procedure for amalgamation and dissolution partnership firm	Apply	Technical	Model

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Programme	Course Code	Title
B.Com/ B.Com (A&F)/ B.Com (CS)	20CUG04	DSC-IV : Commercial Law

Preamble : To enable the students to understand the fundamentals of law related to commercial activities.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Recognize the Foundation Concepts of Law and its essential features. To narrate the various types of business law and its rules and regulations.	Understanding	Conceptual	Technical Presentation
CO2	To Predict the General principles of law. To categorize the Performance of contract, Discharge of contract and Remedies for breach of contract.	Understanding	Conceptual	Poster Presentation
CO3	To Examine Contract of Indemnity and Guarantee and its types. To illustrate Rights and duties of Surety, Bailment & Pledge.	Understanding	Conceptual	Group Assignment
CO4	To restate Contract of Agency creation and termination. To Outline the Limited Liability Partnership.	Understanding	Conceptual	Group Assignment
CO5	To assess the Law of sale of goods. To Prioritize Condition and warranties.	Understanding	Conceptual	Writing Skill
CO6	To Construct Transfer of ownership and rights of unpaid seller. To overview of Competition Act.	Understanding	Conceptual	Writing Skill

Programme	Course Code	Title
B.Com/ B. Com AF/ B.Com(BPS)/ B.Com(CM)/ B.Com(BI)	**20CUG05**	**DSC Practical-II Accounting Practical**

Preamble : To know and practice about the legal document used in the Business organization.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Documents used for Receipt and Payment, Income Statements, Subsidiary Book, Bank Reconciliation Statement, Installment Payment System and used in connection with Balance sheet.	Remembering	Analytical	Poster Presentation
CO2	To Understand forms used for Deposits and Withdrawals, the concept of depreciation under Income tax Act and companies Act, transactions for drafting final accounts.	Understanding	Analytical	Self Support Assignment

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG01**	**DSC - I: Principles of Accountancy**

Preamble : This course provides students with a basic understanding of accounting knowledge as applicable to business. It enables students to solve the basic accounting problems.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in basic accounting concepts

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic Accounting Concepts, Conventions and Classification of Accounts.	Remembering	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To construct final accounts for the SME's and Non-Trading Concerns	Apply	Technical	CIA
CO3	To Understand the concept of Bill of Exchange and Methods of Calculating the Account Current and Average Due Date	Understanding	Conceptual	Miniatures/ Protocols/ Models
CO4	Able to solve Consignment and Joint Venture accounts	Apply	Technical	DIA(Quiz)
CO5	To Understand Procedures for preparing Bank Reconciliation Statement.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.COM (CS)	20CST01	DSC-II: Business Environment

Preamble : To enable the students to understand the fundamentals of Business Environment

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To RecognizeIntroduction and Features, Concepts of Vision and Mission Statements, Types of Environment, Definition, Meaning and Concept,Value System, Management Structure and Nature. Human Resource, Company Image and Brand-Suppliers, Customers, Market Intermediaries- Demography, Legal and Political, Technological, Competitor, Definition, Meaning, Function, Concept, Advantages and Disadvantages - Sole Proprietorship, Partnership, Company.	Understanding	Conceptual	Technical Presentation
CO2	To Predict the Definition, Meaning, Function, Concept, Advantages and Disadvantages, Statutory Bodies and Corporations, HUF and Family Business, Co-Operatives, Societies, andTrusts, Limited Liability Partnership, Other Forms of Organisations, Micro, Small and Medium Enterprises, Large Scale Enterprises and Public Enterprises,	Understanding	Conceptual	Poster Presentation

	MNC.			
CO3	To ExamineDefinition, Meaning, Function, Concept, Advantages and Disadvantages, NetworkMarketing, Franchising, Business Process Outsourcing (BPO), E-Commerce, M-Commerce, Objectives, Importance, Limitations, Steps and Procedure for Strategic Planning, Budgetary Control, R and D, Location of a Business, Factors Affecting Location, Decision Making and Government Policy, Process of Supply Chain and Market, Financing, HR and Corporate Social Responsibility (CSR).	Understanding	Conceptual	Group Assignment
CO4	To restate Introduction-Definition – Meaning and Types of Entrepreneurs – Idealist, Optimizer, Hard Worker, Sustainer, Improver, Advisor, Superstar, Artist, Visionary, Analyst, Fireball, Juggler, Hero, Healer. Distinction between Entrepreneur and Manager, Entrepreneurship and Intrapreneurship, Definition, Features, Examples, and Difference.	Understanding	Conceptual	Group Assignment
CO5	To Assess Opportunities for Entrepreneurship, Market Scanning and Assessment, Selection and Setting of Entrepreneurship, Creativity, Risk Taking, Leadership , Communication and Mentoring	Understanding	Conceptual	Writing Skill
CO6	To Construct a Developing Business Plan, Resource Assessment, Capital Planning, Modernization, Expansion and Diversification.	Understanding	Conceptual	Writing Skill

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com (BPS)/ B.Com CM/ B.Com A&F/ B.Com(BI)/ B. Com CS	**20CUG02**	**DSC Practical-I : Desktop Publishing – Practical**

Preamble : Commerce students should have basic knowledge to use computer for the office documentation purpose

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Draft the corporate office layout by showing functions of various department, letter using mail merge, Inward and outward mail register, and designing brochure and invoice.	Understand	Conceptual	Technical Presentation
CO2	Prepare Chairman's Speech and perform various operations in the toolbar	Understand	Conceptual	Poster Presentation
CO3	Document the Purchase requisition slip/Purchase order for the five items , create various types of charts and Prepare mark list with various options	Apply	Conceptual	Poster Presentation
CO4	Make an advertisement of the company product and Create a presentation of a research paper to be presented in a conference.	Apply	Communication	Poster presentation
CO5	Create student database and Employee database with required fields	Apply	Analytical	Technical Presentation
CO6	Design the company's annual report	Apply	Analytical	Technical Presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG03**	**DSC-III : Financial Accounting**

Preamble : This course provides students with a basic understanding of accounting principles and practices of various types of business other than companies. It enables students to solve the problems relating to various types of business.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Account System.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the phenomenon of Departmental Accounting methods, Inter – Departmental Transfers and Branch Accounting objectives, accounting terminology and different type of branch accounting.	Understanding	Conceptual	Poster Presentation
CO2	Able to prepare Hire-Purchase accounting records, Preparation of Hire Purchase Trading Account and understand the phenomenon of Installment Purchase System and Accounting Treatment.	Understanding	Conceptual	CIA
CO3	To Understand the basis of Royalties Accounting, Preparation of Ledger Accounts in the books of Leaser and Tenant, Accounting Treatment for Sub –Lease. Able to prepare	Understanding	Conceptual	Case Study

	Insolvency Accounts and preparation of statement of affairs of assets and liabilities.			
CO4	Able to prepare Partnership Accounts and accounting treatment for Admission, Retirement and death of Partners	Remembering	Technical	DIA(Quiz)
CO5	Able to know the conception and accounting procedure for amalgamation and dissolution partnership firm	Apply	Technical	Model

Programme	Course Code	Title
B.Com/ B.Com (A&F)/ B.Com (CS)	20CUG04	DSC-IV : Commercial Law

Preamble : To enable the students to understand the fundamentals of law related to commercial activities.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Recognize the Foundation Concepts of Law and its essential features. To narrate the various types of business law and its rules and regulations.	Understanding	Conceptual	Technical Presentation
CO2	To Predict the General principles of law. To categorize the Performance of contract, Discharge of contract and Remedies for breach of contract.	Understanding	Conceptual	Poster Presentation
CO3	To Examine Contract of Indemnity and Guarantee and its types. To illustrate Rights and duties of Surety, Bailment & Pledge.	Understanding	Conceptual	Group Assignment
CO4	To restate Contract of Agency creation and termination. To Outline the Limited Liability Partnership.	Understanding	Conceptual	Group Assignment
CO5	To assess the Law of sale of goods. To Prioritize Condition and warranties.	Understanding	Conceptual	Writing Skill
CO6	To Construct Transfer of ownership and rights of unpaid seller. To overview of Competition Act.	Understanding	Conceptual	Writing Skill

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Programme	Course Code	Title
B.Com CS	20CST02	DSC Practical-II - Drafting of Business Documents

Preamble : To know and Practice about the documents used in the forms of Business Organization.

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level.

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the significance of Partnership form of organization and the documents required there in to start such a venture. To understand the form at of drafting a Certificate of Incorporation.	Understanding	Analytical	Self Support Assignment
CO2	To understand the skill of drafting the Chartered Documents of the Company. To understand the procedure for filing the Articles and Memorandum of Association.	Understanding	Analytical	Class Presentation
CO3	To understand the procedure for drafting the Doctrine of Ultra-vires and Doctrine of Constructive Notice. To understand the procedure For filing the TIN and DIN.	Understanding	Analytical	Class Presentation
CO4	To understand the procedure for drafting Audit Reports in prescribed formats and also drafting The Resolutions	Understanding	Analytical	Self Support Assignment
CO5	To draft the procedure for the use of sharing information for the Constitution of board of directors and draft the Resolutions for Circulation of Members	Understanding	Analytical	Self Support Assignment
CO6	To understand how to create a model for creation of Meetings and drafting the minutes of the Secretarial Meetings	Understanding	Analytical	Class Presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG01**	**DSC - I: Principles of Accountancy**

Preamble : This course provides students with a basic understanding of accounting knowledge as applicable to business. It enables students to solve the basic accounting problems.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in basic accounting concepts

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic Accounting Concepts, Conventions and Classification of Accounts.	Remembering	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To construct final accounts for the SME's and Non-Trading Concerns	Apply	Technical	CIA
CO3	To Understand the concept of Bill of Exchange and Methods of Calculating the Account Current and Average Due Date	Understanding	Conceptual	Miniatures/ Protocols/ Models
CO4	Able to solve Consignment and Joint Venture accounts	Apply	Technical	DIA(Quiz)
CO5	To Understand Procedures for preparing Bank Reconciliation Statement.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Com (E-Com)	20CEU01	DSC - II: Fundamentals of Marketing

Preamble : This course examines the fundamental concepts in marketing. The course focuses on tools and methods used to examine marketing environments, understand consumer and organizational buying behavior, segment markets and position products, develop new products, manage existing products and promote price and place products.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Define the marketing concept and their applications to organizations.	Remembering	Conceptual	Class Presentation
CO2	Understand the concept of evolution of marketing and classify the marketing functions.	Understanding	Conceptual	CIA
CO3	Understand the concept of product planning and development and outline the major channels of distribution	Understanding	Conceptual	Self Support Assignment
CO4	Understand the concept of advertising, sales promotion and personal selling	Understanding	Conceptual	DIA(Quiz)
CO5	List the factors affecting product pricing decisions	Remembering	Conceptual	Model
CO6	Understand the concept of consumer and organizational buying behavior.	Understanding	Conceptual	Demonstration

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Programme	Course Code	Title
B.Com / B.Com(CA)/B.Com (IT)/ B.Com (BPS)/ B.Com E COM/ B.Com A&F/ B.Com(BI)	**20CUG02**	**DSC Practical-I : Desktop Publishing – Practical**

Preamble : Commerce students should have basic knowledge to use computer for the office documentation purpose

Expected level of output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will have ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Draft the corporate office layout by showing functions of various department, letter using mail merge, Inward and outward mail register, and designing brochure and invoice.	Understand	Conceptual	Technical Presentation
CO2	Prepare Chairman's Speech and perform various operations in the toolbar	Understand	Conceptual	Poster Presentation
CO3	Document the Purchase requisition slip/Purchase order for the five items , create various types of charts and Prepare mark list with various options	Apply	Conceptual	Poster Presentation
CO4	Make an advertisement of the company product and Create a presentation of a research paper to be presented in a conference.	Apply	Communication	Poster presentation
CO5	Create student database and Employee database with required fields	Apply	Analytical	Technical Presentation
CO6	Design the company's annual report	Apply	Analytical	Technical Presentation

Programme	Course Code	Title
B.Com / B.Com(CA)/ B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG03**	**DSC-III : Financial Accounting**

Preamble : This course provides students with a basic understanding of accounting principles and practices of various types of business other than companies. It enables students to solve the problems relating to various types of business.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Account System.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the phenomenon of Departmental Accounting methods, Inter – Departmental Transfers and Branch Accounting objectives, accounting terminology and different type of branch accounting.	Understanding	Conceptual	Poster Presentation
CO2	Able to prepare Hire-Purchase accounting records, Preparation of Hire Purchase Trading Account and understand the phenomenon of Installment Purchase System and Accounting Treatment.	Understanding	Conceptual	CIA
CO3	To Understand the basis of Royalties Accounting, Preparation of Ledger Accounts in the books of Leaser and Tenant, Accounting Treatment for Sub –Lease. Able to prepare Insolvency Accounts and preparation of statement of	Understanding	Conceptual	Case Study

	affairs of assets and liabilities.			
CO4	Able to prepare Partnership Accounts and accounting treatment for Admission, Retirement and death of Partners	Remembering	Technical	DIA(Quiz)
CO5	Able to know the conception and accounting procedure for amalgamation and dissolution partnership firm	Apply	Technical	Model

Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	20CUG01	Principles of Accountancy

Preamble : This course provides students with a basic understanding of accounting knowledge as applicable to business. It enables students to solve the basic accounting problems.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in basic accounting concepts

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic Accounting Concepts, Conventions and Classification of Accounts.	Remembering	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To construct final accounts for the SME's and Non-Trading Concerns	Apply	Technical	CIA
CO3	To Understand the concept of Bill of Exchange and Methods of Calculating the Account Current and Average Due Date	Understand	Conceptual	Miniatures/ Protocols/ Models

CO4	Able to solve Consignment and Joint Venture accounts	Apply	Technical	DIA(Quiz)
CO5	To Understand Procedures for preparing Bank Reconciliation Statement.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Com	20COU01	Business System

Preamble : This course provides students with a basic understanding of Business System Concepts

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the basic knowledge about evolution of business, forms of business organization and essential requisites of a successful business organization.	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To understand the enterprises run by the state and its problems, size of the business firm, plant location and plant layout.	Understanding	Conceptual	CIA
CO3	To understand the concept of Small Scale Industries, Business Combination, Sources of finance and importance of commercialbanks providing the finance to the business units.	Understanding	Conceptual	Writing skills/Self Support Assignment /Report Writing
CO4	To understand the domestic trade and foreign trade procedures	Understanding	Conceptual	DIA(Quiz)

	and the importance of Specialized financial institutions.			
CO5	To understand the Indian Financial system: the stock and produce exchange, functions and regulations of SEBI, procedures for DEMAT of shares and chamber of commerce.	Understanding	Conceptual	Model

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Programme	Course Code	Title
B.Com/B.Com(CA)/B.Com (IT)/ B.Com(BPS)/ B.Com(CM)/ B.Com (A&F)/ B.Com(BI)/ B.Com(E.Com)/ B.Com(BA)/ B.Com(CS)	**20CUG02**	**Desktop Publishing - Practical**

Preamble :This Practical / Laboratory course is designed to provide the Students with the knowledge to use Computer for the Office Documentation Purpose.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level

Course Outcomes: After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Draft the corporate office layout by showing functions of various department, letter using mail merge, Inward and outward mail register, and designing brochure and invoice Prepare Chairman's Speech and perform various operations in the toolbar Document the Purchase requisition slip/Purchase order for the five items , create various types of charts and Prepare mark list with various options	Understanding	Conceptual	Attendance
CO2	Make an advertisement of the company product and Create a presentation of a	Apply	Analytical	Class

	research paper to be presented in a conference.Create student database and Employee database with required fields Design the company's annual report			Presentation

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Programme	Course Code	Title
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Preamble : This course provides students with a basic understanding of accounting principles and practices of various types of business other than companies. It enables students to solve the problems relating to various types of business.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Account System.

Course Outcomes : After successful completion of this course, the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the phenomenon of Departmental Accounting methods, Inter – Departmental Transfers and Branch Accounting objectives, accounting terminology and different type of branch accounting.	Understanding	Conceptual	Poster Presentation
CO2	Able to prepare Hire-Purchase accounting records, Preparation of Hire Purchase Trading Account and understand the phenomenon of Installment Purchase System and Accounting Treatment.	Understanding	Conceptual	CIA
CO3	To Understand the basis of	Understanding	Conceptual	

	Royalties Accounting, Preparation of Ledger Accounts in the books of Leaser and Tenant, Accounting Treatment for Sub –Lease Able to prepare Insolvency Accounts and preparation of statement of affairs of assets and liabilities.			Case Study
CO4	Able to prepare Partnership Accounts and accounting treatment for Admission, Retirement and death of Partners	Rememberin g	Technical	DIA(Quiz)
CO5	Able to know the conception and accounting procedure for amalgamation and dissolution of partnership firm	Apply	Technical	Model

Programme	Course Code	Title

B.COM/ B.Com (A&F)/B.Com CS	20CUG04	Commercial Law

Preamble : This course provides students with a basic understanding of the fundamentals of law related to commercial activities.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Higher Secondary Level.

Course Outcomes: After successful completion of this course the students will be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To recognize the foundation concepts of law and its essential features. To narrate the various types of business law and its rules and regulations.	Understanding	Conceptual	Class Presentation/ Technical Presentation/ Demonstration
CO2	To predict the general principles of law. To categorize the performance of contract, discharge of contract and remedies for breach of contract.	Understanding	Conceptual	CIA
CO3	To examine contract of Indemnity and Guarantee and its types. To illustrate Rights and duties of Surety, Bailment & Pledge.	Understanding	Conceptual	Writing skills/ Self Support Assignment / Report Writing

CO4	To restate Contract of Agency creation and termination. To outline the Limited Liability Partnership.	Understanding	Conceptual	DIA(Quiz)
CO5	To assess the law of sale of goods. To prioritize condition and warranties. To construct transfer of ownership and rights of unpaid seller.	Understanding	Conceptual	Model

Programme	Course Code	Title

B.Com/ B. Com AF/ B.Com(BPS)/B.Com(CM)/ B.Com(BI)	**20CUG05**	**Accounting Practical**

Preamble : To know and practice about the legal document used in the Business organization

Expected level of output : Analytical Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

Course Outcomes : On Successful completion of the course student will have the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the Documents used for Receipt and Payment, Income Statements, Subsidiary Book, Bank Reconciliation Statement, Installment Payment System and used in connection with Balance sheet.	Remembering	Analytical	Poster Presentation
CO2	To Understand forms used for Deposits and Withdrawals, the concept of depreciation under Income tax Act and companies Act, transactions for drafting final accounts.	Understanding	Analytical	Self Support Assignment