CRITERIA II STUDENT PERFORMANCE AND LEARNING OUTCOMES

2019 Batch – V & VI

COURSE OUTCOME FOR III YEARS

2019 BATCH

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
B. Sc. Computer Science with Cognitive Systems	19CGU25	DSC Practical XII: Practical-Programming Lab- Digital Technology

Preamble : On completion of this course the students will be able to learn various Automation Anywhere

Expected level of output : Conceptual Level

Department offered : Cognitive System

Prerequisites : Knowledge in Creation of Bots

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 how to work with the Automation Anywhere Tool	Understand	Technical Skills	Poster Presentation
CO2	Able to understand the concept of conversion of data	Understand	Technical Skills	Self-Support Assignment

Programme	Course Code(s)	Course Title
B.Sc. Computer Science with Cognitive Systems	**19CGU13**	**Practical- Programming Lab - Infrastructure Management**

Preamble : On successful completion of the course the students should implement the infrastructure monitoring and management using SCCM tool.

Expected Level of Output :Conceptual Level

Department offered : Cognitive Systems

Prerequisites : Basic understanding of Operating Systems

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 Infrastructure Management	Understand	Conceptual	Technical Presentation
CO2	Able to understand the idea on monitoring devices using SCCM	Apply	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) / B.Sc. (CSA) / B.Sc. (SS) / BCA/ B.Sc Computer Science with Cognitive Systems	**19CSS28**	**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 Science and Applications / Software Systems /BCA

Prerequisites : Programming Concepts

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

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

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Programme	Course Code	Title
B.Sc (CS)/ BCA/ B.Sc (IT)/ B.Sc (CT)/ B.Sc (CSA)/ B.Sc (SS)/ B.Sc Computer Science with Cognitive Systems	19CSS29	Practical-Programming Lab-R

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

Expected Level of Output : Conceptual Level

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

Prerequisites : Programming Concepts

Course Outcome : 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 Skills	Technical Presentation
CO2	Apply the lists and its types to develop applications	Apply	Conceptual Skill	Poster Presentation
CO3	Apply Data frames in R Programming	Apply	Conceptual Skill	Technical Presentation
CO4	Apply CSV files concepts to import in R Programming	Apply	Conceptual Skill	Poster Presentation

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS/ B.Sc Computer Science with Cognitive Systems	19CSS30	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 : On successful completion of the course, students will have the ability to

CO	Description	Blooms Verb	Skill	CIA - Capstone
CO1	Understand the various characteristics of Artificial Intelligence and Intelligent agents.	Understand	Communication	Writing Skill
CO2	Apply the knowledge in solving AI problems.	Apply	Technical	Technical Presentation
CO3	Analyze the various Knowledge representation of AI.	Analyze	Managerial	Group Assignments
CO4	Analyze the different ways of Learning from observation.	Analyze	Technical	Poster Presentation
CO5	Create various applications of AI and Exhibit working knowledge in PROLOG.	Create	Technical	Poster Presentation

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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/ B.Sc Computer Science with Cognitive Systems	**19ITU04**	**Web Intelligence**

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.

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

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Understand the Node JS basics, JavaScript Primer and its Functions, Arrays and Strings.	Understand	Technical	Poster Presentation
CO2	Understand the Writing Data to the Console, Events, Listeners, Timers, and Callbacks in Node.js, JSON, Compressing & Decompressing Data	Understand	Communication	Class Presentation
CO3	Understand the working of File System from Node.js, File System Calls, Implementing HTTP Services in Node.jsa and Processing URLs	Understand	Communication	Group Mini Project
CO4	Apply AngularJS with Existing JavaScript and jQuery, Modules and Dependency Injection	Apply	Managerial	Self-Support Assignment
CO5	Apply the Scope Hierarchy, Events, Views, Filters, Creating Custom Filters and Built-in Directives in AngularJS	Apply	Managerial	Group Mini Project

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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/ B.Sc Computer Science with Cognitive Systems	**19ITU05**	**Practical – Programming Lab – Web Intelligence**

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 Angular and Node JS.

Expected Level of Output : Conceptual Level

Department offered : Information Technology

Prerequisites : Basic understanding of computers and HTML

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

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Apply the concepts of Javascript to develop web pages	Apply	Technical	Poster Presentation
CO2	Implement the concepts of Node JS as web applications	Apply	Technical	Poster Presentation
CO3	Apply the concepts of Agular JS to develop web based applications Angular	Apply	Managerial	Self-Support Assignment

Programme	Course Code	Title
B.Sc. Computer Science with Cognitive Systems	19CGU27	DSC Practical V : Practical Programming Lab - Data Visualization using Tableau

Preamble : It enables the students to analyze massive amounts of information and make data-driven decisions.

Expected Level of Output : Conceptual Level

Department Offered : Information Technology

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	Get a strong foundation in Tableau concepts	Understand	Technical Skills	Poster Presentation
CO2	Combine multiple data sources using data blending and joins	Understand	Technical Skills	Poster Presentation
CO3	Easy to create bar charts, pie charts and line graphs	Apply	Analytical Skills	Demonstration
CO4	Map your data to detect geographic variation quickly	Apply	Analytical Skills	Demonstration

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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	19CSS19	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 / Computer Technology / Computer Applications / Computer Science and Applications / Software Systems

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

CO	Description	Blooms 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-Support Assignment
CO5	Acquire the knowledge about design and software quality.	Analyze	Managerial	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) / B.Sc.(SS)	19CSS20	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 modeling

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

CO	Description	Blooms 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 Skills	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	19CSS21	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 : On successful completion of the course, students will have the ability to

CO	Description	Blooms Verb	Skill	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)

Programme	Course Code	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	19CSS22	PHP and MySQL

Preamble : On successful completion of this subject the students can learn the concept of PHP and MySQL.

Expected Level of Output : Conceptual Level.

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

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

CO	Description	Blooms Verb	Skill	CIA - Capstone
CO1	To remember the basic concepts of PHP.	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of Functions and Strings	Understand	Communication	Class Presentation
CO3	To understand the concept of Arrays and Objects	Understand	Managerial	Group - Mini Project
CO4	Able to Apply the concept of use MySQL and Database Creation	Apply	Managerial	Self-Support Assignment
CO5	Acquire the knowledge about Connection between PHP and MySQL	Analyze	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)	**19CSS23**	**Practical –Programming Lab – PHP and MySQL**

Preamble : To understand the Programming knowledge on PHP and MySQL

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

CO	Description	Verb	Skill	CIA - Cap stone
CO1	Able to remember the basic concepts of PHP	Apply	Managerial skills	Self-Support Assignment
CO2	Able to understand the PHP Arrays	Apply	Managerial Skills	Self-Support Assignment
CO3	Able to understand the PHP Functions	Analyze	Technical Skills	Poster Presentation
CO4	To Create and Manipulate Tables in MySQL	Analyze	Technical Skills	Poster Presentation
CO5	To Connect with PHP and MySQL	Analyze	Technical Skills	Poster Presentation

Programme	Course Code	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	19CSS24	Data Science Lab

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

CO	Description	Blooms 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-Support 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) / B.Sc. (CSA) / B.Sc. (SS) / BCA	19CSS28	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 Science and Applications / Software Systems /BCA

Prerequisites : Programming Concepts

Course Outcome : 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	Title
B.Sc(CS)/ BCA/ B.Sc (IT)/ B.Sc (CT)/ B.Sc (CSA)/ B.Sc (SS)	19CSS29	Practical-Programming Lab-R

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

Expected Level of Output : Conceptual Level

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

Prerequisites : Programming Concepts

Course Outcome : 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 Skills	Technical Presentation
CO2	Recognize the application of Lists and its types	Apply	Conceptual Skill	Poster Presentation
CO3	Apply Data frames in R Programming	Apply	Conceptual Skill	Technical Presentation
CO4	Apply CSV files concepts to import in R Programming	Apply	Conceptual Skill	Poster Presentation

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	**19CSS30**	**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 : On successful completion of the course, students will have the ability to

CO	Description	Blooms 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	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 B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc. CSA/ B.Sc. SS	19CTU04	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 able to

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Understand the Hardware and Software tools and basics of Android versions	Understand	Technical	Poster Presentation
CO2	Understand the concepts of how to start Android application and run on emulator.	Understand	Communication	Class Presentation
CO3	Apply the controls in the form and user action	Apply	Managerial	Self-Support Assignment
CO4	Analyze the code for the application and debug the errors	Analyze	Managerial	Group Mini Project
CO5	Analyze the Android resources and customize the resources	Analyze	Managerial	Group Mini Project

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Programme	CourseCode(s)	Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	**19CTU05**	**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 offering : Computer Technology

Prerequisites : JAVA basic Knowledge

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

CO	Description	Blooms Verb	Skill	CIA - Capstone
CO1	Apply the basics of Android	Apply	Technical	Poster Presentation
CO2	Apply the various controls used in Android.	Apply	Technical	Poster Presentation
CO3	Apply the various customized layout	Apply	Technical	Self-Support Assignment
CO4	Develop Android application with various multiple activities	Create	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	19CSS32	Practical – Excel Macro Lab

Preamble : To enable the students to construct spreadsheet 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 Outcome : On successful completion of the course, students will have the ability to

CO	Description	Blooms Verb	Skill	CIA - Capstone
CO1	Understand the basic tools of Excel Macro	Understand	Technical	Poster Presentation
CO2	Analyse the different application using Macro Tools	Apply	Managerial	Self-Support Assignment
CO3	Apply different Excel macro-objects on different applications	Apply	Managerial	Self-Support Assignment

Programme	Course Code	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	19CSS19	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

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

CO	Description	Blooms 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-Support Assignment
CO5	Acquire the knowledge about design and software quality.	Analyze	Managerial	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) / B.Sc.(SS)	19CSS20	Practical-Programming lab- System Modeling using UML

Preamble : To enable the students to learn and drawvarious UMLdiagrams.

Expected Level of Output : Basic workingLevel

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

CO	Description	Blooms 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 Skills	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	19CSS21	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 : On successful completion of the course, students will have the ability to

CO	Description	Blooms Verb	Skill	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)

Programme	Course Code	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	19CSS22	PHP and MySQL

Preamble : On successful completion of this subject the students can learn the concept of PHP and MySQL.

Expected Level of Output : Conceptual Level.

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

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

CO	Description	Blooms Verb	Skill	CIA - Capstone
CO1	To remember the basic concepts of PHP.	Remember	Technical	Poster Presentation
CO2	Able to understand the concept of Functions and Strings	Understand	Communication	Class Presentation
CO3	To understand the concept of Arrays and Objects	Understand	Managerial	Group - Mini Project
CO4	Able to Apply the concept of use MySQL and Database Creation	Apply	Managerial	Self-Support Assignment
CO5	Acquire the knowledge about Connection between PHP and MySQL	Analyze	Managerial	Self-Support Assignment

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc.(CSA) / B.Sc.(SS)	**19CSS23**	**Practical –Programming Lab – PHP and MySQL**

Preamble : To understand the Programming knowledge on PHP and MySQL

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

CO	Description	Verb	Skill	CIA - Cap stone
CO1	Able to remember the basic concepts of PHP	Apply	Managerial skills	Self-Support Assignment
CO2	Able to understand the PHP Arrays	Apply	Managerial Skills	Self-Support Assignment
CO3	Able to understand the PHP Functions	Analyze	Technical Skills	Poster Presentation
CO4	To Create and Manipulate Tables in MySQL	Analyze	Technical Skills	Poster Presentation
CO5	To Connect with PHP and MySQL	Analyze	Technical Skills	Poster Presentation

Programme	Course Code	Course Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	19CSS24	Data Science Lab

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

CO	Description	Blooms 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-Support Assignment
CO3	Test the developed code using Weka	Apply	Technical	Poster Presentation

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Programme	Course Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. (CT) / B.Sc. (CSA) / B.Sc. (SS) / BCA	19CSS28	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 Science and Applications / Software Systems /BCA

Prerequisites : Programming Concepts

Course Outcome : 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	Title
B.Sc(CS)/ BCA/ B.Sc (IT)/ B.Sc (CT)/ B.Sc (CSA)/ B.Sc (SS)	19CSS29	Practical-Programming Lab-R

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

Expected Level of Output : Conceptual Level

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

Prerequisites : Programming Concepts

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

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

Programme	Course Code	Title
B.Sc. CS/B.Sc IT/B.Sc CT/ BCA/B.Sc CSA/B.Sc SS	**19CSS30**	**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 : On successful completion of the course, students will have the ability to

CO	Description	Blooms 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	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	Course Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/B.Sc CSA/B.Sc SS	19ITU04	Web Intelligence

Preamble : To Provide Knowledge on the various techniques involved In the Web technology and to Create WebApplications. On successful completion of this course students should have knowledge to develop web page applications.

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 Node JS basics, JavaScript Primer and its Functions, Arrays and Strings.	Remember	Technical	Poster Presentation
CO2	Able to know about Writing Data to the Console, Events, Listeners, Timers, and Callbacks in Node.js, JSON, Compressing & Decompressing Data	Understand	Communication	Class Presentation
CO3	Able to work with File System from Node.js, File System Calls, Implementing HTTP Services in Node.jsa and Processing URLs	Understand	Communication	Group Mini Project
CO4	Able to Integrating AngularJS with Existing JavaScript and jQuery, Modules and Dependency Injection	Apply	Managerial	Self-Support Assignment
CO5	Able to implement the Implementing Scope Hierarchy, Events, Views, Filters, Creating Custom Filters and Built-in Directives in AngularJS	Apply	Managerial	Group Mini Project

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Programme	Course Code (s)	Title
B.Sc CS/B.Sc IT/B.Sc CT/BCA/		**Practical – Programming**
B.Sc CSA/B.Sc SS	**19ITU05**	**Lab – Web Intelligence**

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 Angular and Node JS.

Expected Level of Output : Conceptual Level

Department offered : Information Technology

Prerequisites : Basic understanding of computers and HTML

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

CO	Description	Bloom's Verb	Skill	CIA -Cap stone
CO1	Understand and create web pages using JavaScript	Apply	Technical	Poster Presentation
CO2	Implement the concepts of Nodes JS as web applications	Apply	Technical	Poster Presentation
CO3	Apply and develop web-based applications of Angular	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	19CSS32	Practical – Excel Macro Lab

Preamble : To enable the students to construct spreadsheet 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 Outcome : On successful completion of the course, students will have the ability to

CO	Description	Blooms Verb	Skill	CIA - Capstone
CO1	Understand the basic tools of Excel Macro	Understand	Technical	Poster Presentation
CO2	Analyse the different application using Macro Tools	Apply	Managerial	Self-Support Assignment
CO3	Apply different Excel macro-objects on different applications	Apply	Managerial	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 (B&I)/B.Com (E-Com)/B.Com (RM)/B.Com (BA)/B.Com (CS)	**19CUG15**	**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

S.No	Description	Verb	Skill Mapping	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 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 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
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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 : Conceptual 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: On Successful completion of the course, students will have the ability to

S.No	Description	Verb	Skill Mapping	CIA Capstone
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
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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, students will have the ability to

S.No	Description	Verb	Skill Mapping	CIA Capstone
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(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)	**19CUG20**	**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

S.No	Description	Verb	Skill Mapping	CIA Capstone
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	Puzzles and games

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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(ECom)/ B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG21**	**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

S.No	Description	Verb	Skill Mapping	CIA Capstone
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 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

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 (RM)/B.Com (BA)/B.Com (CS)	**19CUG22**	**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: OnSuccessful completion of the course, students will have the ability to

S.No	Description	Verb	Skill Mapping	CIA Capstone
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 (BPS/B.Com (CM))/ B.Com (A&F)B.Com (BI)/)/B.Com (E.Com)/ B.Com (BA)B.Com (CS)	**19CUG24**	**Consumer Behavior**

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

Expected Level : Conceptual Level.

Department offered: Commerce

Prerequisites : Higher Secondary Level

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

S.No	Description	Verb	Skill Mapping	CIA Capstone
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

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(ECom)/ B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG25**	**Statistical Applications - Practical**

Preamble: To train the students in using good statistical software for solving a variety of statistical problems.

Expected Level: Practical Level

Department offered: Commerce

Prerequisites: Those who are studied statistics paper can choose this course.

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

S.No	Description	Verb	Skill Mapping	CIA Capstone
CO1	Understand the Creation of data file using Excel software and understand how to write the inference for the respective tests.	Understand	Conceptual	Poster Presentation
CO2	Apply the concepts of Correlation and Regression.	Apply	Analytical	Self Support Assignment
CO3	Apply the concepts of Small Sample, chi square test and ANOVA.	Apply	Analytical	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(E-Com)/ B.Com(RM)/B.Com(BA)/B.Com(CS)	19CUG26	Income Tax

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

S.No	Description	Verb	Skill Mapping	CIA Capstone
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 (BPS)	19CBU05	Managing Business Process - I

Preamble: To provide fundamental knowledge about Business Process Outsourcing **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.

S.No	Description	Verb	Skill Mapping	CIA Capstone
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 it apply 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 riskthat a BPO faces.	Remembering	Conceptual	Class Presentation

Programme	Course Code	Title
B.Com(BPS)	19CBU06	Managing Business Process - II

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

Expected Level Output: Conceptual level

Department offered: Commerce

Prerequisites: Higher Secondary level

Course Outcomes:

S.No	Description	Verb	Skill Mapping	CIA Capstone
CO 1	Students can able to understand the meaning of quality, differencebetween quality Control & Assurance and differentinternational quality standards.	Understanding	Conceptual	Class Presentation
CO 2	To know about transaction monitoring process & transaction monitoring cycle. Able to understand sampling methods & inspection.	Understanding	Conceptual	Group Discussion
CO 3	To know about the defect management, Defect calculations, value stream mapping system and standard operating procedures of process management.	Understanding	Analytical	Technical Presentation
CO 4	Students can able to understand various problem solving techniques, Brainstorming, Problem solving tools and basic 7 Quality control tools.	Understanding	Conceptual	Group Mini Project
CO 5	Able to understand needs for process improvement, Process improvement tools, Kaizen model, Lean methodology & Six sigma methodologies for process improvement.	Understanding	Conceptual	Class Presentation

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

S.No	Description	Verb	Skill Mapping	CIA Capstone
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(BPS)/B.Com(CM)B.Com (A&F)/ B.Com(E-Com)/ B.Com RM/ B.Com (BA)/ B.Com CS	19CUG30	Banking Operation 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

S.No	Description	Verb	Skill Mapping	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

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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 ECom/ 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: Basic Working Level

Department offered : Commerce

Prerequisites : Higher Secondary Level

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

S.No	Description	Verb	Skill Mapping	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

Programme	Course Code	Title
B.Com(BPS)	19CBU07	SUPPLY CHAIN MANAGEMENT

Preamble : To have a thorough knowledge about various types of Supply chain management and its disciplines.

Expected Level of Output : Conceptual level

Department offered : Commerce

Prerequisites:

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

S.No	Description	Verb	Skill Mapping	CIA Capstone
CO1	Understand the multiple facets of supply chain business in their own perspective. Know the Current Trend in SCM Outsourcing.	Remembering	Conceptual	Class Presentaction
CO2	To know the Concept of Sourcing & Procurement Types of Sourcing, Components of Sourcing (Spend Analysis, RFx, Auction, Contract)	Remembering	Conceptual	Poster Presentation
CO3	To Understand Contract a Legal binding factor and the necessity , Request Creationof contract	Understanding	Conceptual	Poster Presentation
CO4	Understand the concepts of Sales Order Management: Inquiry to Order, Order Entry, Order Fulfillment, Electronic Data Interchange and Return Material Authorization, Reporting, Technology Intervention in SOM	Understanding	Conceptual	Simulation exercises
CO5	Understand the concepts of Logistics Fleet Warehouse Management: Benefits, Functions and Benefits of Warehouse. Benefits of Efficient Warehouse Management, Technology Intervention in Logistics and Fleet Management.	Understanding	Conceptual	Simulation exercises

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)	**19CUG15**	**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

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 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(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)	**19CUG16**	**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

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: 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 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

Programme	Course Code(s)	Title
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)	**19CUG17**	**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 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(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 (RM)/B.Com (BA)/B.Com (CS)	**19CUG18**	**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

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

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(BA)/B.Com(CS)	**19CUG20**	**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
CO 5	To understand the concepts of Brand Imitations, kinds and factors affecting Brand imitation. Geographic Extension, opportunities for Global Brand, conditions	Understanding	Conceptual	Puzzles and games

	favouring Marketing,			

Programme	Course Code(s)	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)	**19CUG21**	**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 and identification	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
CO 5	To understand the preparation of project report	Remembering	Conceptual	Group Mini Project

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(E.Com)/ B.Com (RM)/B.Com (BA)/B.Com (CS)	**19CUG22**	**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, 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
CO 5	To Understand the concepts of Working Capital Financing, Foreign Exchange and International Banking products	Understanding	Conceptual	Group Mini Project

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 (BA)B.Com (CS)	**19CUG24**	**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
CO 5	To Understand and Identify the cultural influence of consumer behavior.	Understanding	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(AF)/B.Com(BI)/ B.Com(ECom)/B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG25**	**Statistical Applications - 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 : Commerce

Prerequisites : Those who are studied statistics paper can choose this 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	Understand the Creation of data file using Excel software and understand how to write the inference for the respective tests.	Understand	Conceptual	Poster Presentation
CO2	Apply the concepts of Correlation and Regression.	Apply	Analytical	Self Support Assignment
CO3	Apply the concepts of Small Sample, chi square test and ANOVA.	Apply	Analytical	Poster Presentation

Programme	Course Code(s)	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)	**19CUG26**	**Income Tax**

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
CO 5	Able to know about the tax authorities and Assessment of tax	Understanding	Applying	Group Assignment

Programme	Course Code(s)	Title
B.Com(CM)	**19CMU06**	**Derivatives Market**

Preamble: Enable the students to develop the awareness about derivative trading and derivative markets.

Expected Level of Output : Conceptual Level

Department offered **:** Commerce

Prerequisites **:** Students should studied Basics of Capital market

Course Outcomes:

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to familiar on derivatives, types of derivatives and derivatives market	Remembering	Conceptual	Class Presentation
CO2	Able to understand derivatives contract and Pay-off profiles of derivative contracts	Understanding	Conceptual	Self-Supporting Assignment
CO3	To understand the mechanism and different types of margins in derivative trading	Remembering	Conceptual	Group Mini Project
CO4	Able to understand different derivative trading strategies and models	Understanding	Conceptual	Poster Presentation
CO 5	Able to familiar on derivatives, types of derivatives and derivatives market	Remembering	Conceptual	Class Presentation

Programme	Course Code(s)	Title
B.Com CM	**19CMU07**	**Foreign Exchange Market**

Preamble: To provides fundamental knowledge about foreign exchange

Expected Level of Output: Conceptual Level

Department offered: Commerce

Prerequisites: Basic Knowledge about concept of foreign exchange

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 foreign exchange	Remembering	Conceptual	Class Presentation
CO2	Capable to know about the rates and contracts under foreign exchange	Understanding	Applying	Class Presentation
CO3	To be familiar with risk management models and control of foreign exchange	Understanding	Conceptual	Simulation Exercises
CO4	To know the various types of bonds issued by different countries in foreign exchange	Understanding	Conceptual	Poster Presentation
CO 5	Students able to know about the techniques and Foreign Exchange exposure	Understanding	Conceptual	Self-Support Assignment

Programme	Course Code(s)	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
CO 5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Poster presentation

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(E-Com)/ B.Com RM/ B.Com (BA)/ B.Com CS	**19CUG30**	**Banking Operation 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 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
CO 5	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(BPS)/ B.Com(CM)/B.Com (A&F)/ B.Com BI/ B.Com ECom/ 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: Basic Working 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
CO 5	To understand the concept of branding, market penetration and product differentiation and integration of sales promotion with advertising.	Understanding	Analytical	Self Support Assignment
CO 6	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

Programme	Course Code(s)	Title
B.Com(CA)/B.Com(IT)/B.Com(PA)/ B.Com(CM)/B.Com(BI)/B.Com(E.Com)/ B.Com(RM)/B.Com (BA)	**19CUG43**	**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
CO 1	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
CO 2	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
CO 3	To understand the procedure for taking permanent Account Number and to borrow loan from financial institutions.	Understanding	Analytical	Poster Presentation
CO 4	To understand the procedure for online trading account and preparing Audit Programme.	Understanding	Analytical	Self-Support Assignment
CO 5	To draft the procedure for applying online passport and internet banking.	Understanding	Analytical	Self-Support Assignment
CO 6	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(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)	19CUG15	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 explains about Physical Inventory, Inventory Costing Methodsand 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 Cashflow 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(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)	**19CUG16**	**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 : 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	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 itstypes 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(ECom) /B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG17**	**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 classifications and types.	Understanding	Conceptual	Class Presentation
CO4	Able to prepare Working Capitaland 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(PA)B.Com (A&F)/B.Com (BI)/B.Com (RM)	19CUG19	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 the course, 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.	Understand	Conceptual	Class Presentation
CO2	Describe the legal and ethical issues related toE-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 (BPS)/ B.Com (CM)/ B.Com(A&F)/B.ComBI/ B.Com(ECom)/B.Com(BA)/ B.Com(CS)	**19CUG20**	**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. LeveragingBrand 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 andBrand 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	Puzzles and games

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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(ECom)/ B.Com(RM) B.Com(BA)/B.Com(CS)	19CUG21	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 and identification	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 projectappraisal	Understanding	Conceptual	Group Discussion
CO5	To understand the preparation ofproject report	Remembering	Conceptual	Group MiniProject

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Programme	Course Code	Title
B.Com/B.Com (A&F)/ B.Com BI/B.C0m RM	19CUG23	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
CO 1	To understand the basic concepts of customer relationship management.	Understanding	Conceptual	Group Assignments
CO 2	To identify the concepts of CRM technology & marketing strategy.	Understanding	Conceptual	Technical Presentation/ Demonstration
CO 3	Able to identify the customer data integration and technology	Understanding	Conceptual	Technical Presentation/ Demonstration
CO 4	Able to understand the concepts of CRM programme measurements andcustomer cycle.	Understanding	Conceptual	Poster Presentation/ Flowcharts/ Miniatures/ Protocols
CO 5	To understand the concepts of CRMethics and marketing automation.	Understanding	Conceptual	Writing skills

Programme	Course Code	Title
B. Com/ B.Com(CA)/B. Com(IT)/ B.Com (PA)/ B.Com (BPS/ (CM)/) B.Com (A&F) B.Com (BI)/)/B.Com (E.Com)/ B.Com (BA)B.Com (CS)	19CUG24	B.Com 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 ofConsumer 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 culturalinfluence 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 : 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 basicconcepts of direct taxes	Remembering	Conceptual	Technical Presentation
CO2	Able to compute the income fromsalaries 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 andtax liability	Understanding	Applying	Poster Presentation
CO5	Able to know about the taxauthorities and Assessment of tax	Understanding	Applying	Group Assignment

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Programme	Course Code	Title
B.Com/ B.Com (A&F) / B.Com BI	19CUG27	Higher Corporate Accounting

Preamble : Commerce students should know the form and contents of public sector corporations.
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 holding company, and consolidated balance sheet excluding intercompany holdings.	Understanding Analysis	Problem Analysis	Simulation Exercise
CO2	To understand the concept of banking companies, preparation of final accounts of banking companies.(New format only)	Understanding Analysis	Problem Analysis	Self-support Assignment
CO3	To understand the concept of insurance companies. Accounts of Life insurance, Fire insurance and marine insurance.	Understanding Analysis	Problem Analysis	Case study
CO4	To understand the concept of farm accounting, Price level changes, Corporate social responsibility accounting.	Understanding Analysis	Problem Analysis	Poster presentation
CO5	To understand the concepts of Double account system, Government companies and human resource Accounting.	Understanding Analysis	Problem Analysis	Self-support Assignment

Programme	Course Code	Title
B.Com BI	19CNU06	E Banking

Preamble : This course offers detailed knowledge about merchant 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	Tounderstand about the basic concepts of e banking.	Understanding	Conceptual	Technical Presentation
CO2	To know about Online banking and Electronic fund transfer in detail.	Understanding	Conceptual	Poster Presentation
CO3	To understand about digital banking instruments	Understanding	Conceptual	Technical Presentation
CO4	To know about E banking security and cryptography.	Understanding	Conceptual	Group Assignment
CO5	To understand about the E Building solution and transactions.	Understanding	Conceptual	Writing skills

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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(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 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

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Programme	Course Code	Title
B.Com/B.Com(A & F)/ B.Com BI/ B.Com RM	19CUG31	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 : 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 figureout 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	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	Group 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	Technical	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 (A&F)/ B.Com BI/ B.Com ECom/ 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 : Basic Working 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 howto 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	Understanding	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(E.Com)/ B.Com(RM)/B.Com (BA)	**19CUG43**	**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, student 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 thebusiness 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 onlinepassport and internet banking.	Understanding	Analytical	Self-Support Assignment
CO6	To understand how to draft a model AnnualReport (With Director Speech).	Understanding	Analytical	Self-Support Assignment

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)	**19CUG15**	**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

Sl.No.	Description	Verb	Skill	CIA -Cap stone
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 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(PA)B.Com (A&F)/ B.Com(BI)/B.Com (RM)	**19CUG19**	**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 the course, students will have the ability to

Sl. No	Description	Verb	Skill	CIA - Cap stone
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(s)	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)	**19CUG21**	**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

Sl. No.	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 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

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(E.Com)/ B.Com (RM)/B.Com (BA)/B.Com (CS)	**19CUG22**	**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, 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

Programme	Course Code	Title
B.Com/B.Com (A&F)/ B.Com BI/B.Com RM	**19CUG23**	**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 : OnSuccessful 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 customer relationship management.	Understanding	Conceptual	Group Assignments
CO 2	To identify the concepts of CRM technology & marketing strategy.	Understanding	Conceptual	Technical Presentation/ Demonstration
CO 3	Able to identify the customer data integration and technology	Understanding	Conceptual	Technical Presentation/ Demonstration
CO 4	Able to understand the concepts of CRM programme measurements and customer cycle.	Understanding	Conceptual	Poster Presentation/ Flow charts/ Miniatures/ Protocols
CO 5	To understand the concepts of CRM ethics and marketing automation.	Understanding	Conceptual	Writing skills

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(ECom)/B.Com(RM)/B.Com(BA)/B.Com(CS)	**19CUG25**	**Statistical Application - 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 : Commerce
Prerequisites: Those who are studied statistics paper can choose this course.
Course Outcomes : On successful completion of the course, students will have the ability to

CO	Description	Verb	Skill	CIA -Cap stone
CO1	Understand the Creation of data file using Excel software and understand how to write the inference for the respective tests.	Understand	Conceptual	Poster Presentation
CO2	Apply the concepts of Correlation and Regression.	Apply	Analytical	Self-Support Assignment
CO3	Apply the concepts of Small Sample, chi square test and ANOVA.	Apply	Analytical	Poster Presentation

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)/B.Com(CS)	**19CUG26**	**Income Tax**

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

Sl.No.	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**

Programme	Course Code	Title
B.Com (Retail Marketing)	**19CRM08**	**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.

Course Outcomes	Descrition	Verb	Skill	CIA -Cap stone
CO 1	Define services and services marketing. Understanding the quality of service and growth of the services.	Remembering	Conceptual	Poster Presentation
CO 2	To understand the service marketing mix and application of 7ps of marketing in services.	Understanding	Conceptual	Writing Skill
CO 3	To understand the customer Management relationship and marketing research in services.	Understanding	Conceptual	Group Assignment
CO 4	Able to understand the Pricing of services and service intermediaries and their issues.	Understanding	Conceptual	Technical Presentation
CO 5	To understand the application of service marketing to striving for service excellence.	Remembering	Conceptual	Poster Presentation

Programme	Course Code(s)	Title
B.Com(RM)	**19CRM09**	**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 of the course, students will have the ability to*

Sl. No.	Description	Verb	Skill	CIA - Cap stone
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**

Programme	Course Code(s)	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

Sl.No.	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

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(E-Com)/ B.Com RM/ B.Com (BA)/ B.Com CS	**19CUG30**	**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

Sl.No.	Description	Verb	Skill	CIA –Cap stone
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(A & F)/ B.Com BI/ B.Com RM	19CUG31	Business Technology -Practical

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

Expected Level of Output: Basic Level

Department offered: Commerce

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

Sl.no	Description	Verb	Skill	CIA- Cap Stone
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	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	Group assignment
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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CRITERIA II STUDENT PERFORMANCE AND LEARNING OUTCOMES

2020 Batch – III & IV Semester

COURSE OUTCOME FOR II YEARS

2020 BATCH

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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 : 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 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	CIA -I
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	Case study
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	DIA-QUIZ
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	MODEL EXAM

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Programme	Course Code	Title
B.Com(BA)	20CBA03	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	CIA
CO3	Able to study the queue length, waiting time can be predicted and find the Critical Path.	Applying	Analytical	Case Study

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Programme	Course Code	Title
B.Com (BA)	20CBA04	Security Analysis and Portfolio Management

Preamble : This course provides students with a basic understanding of security analysis and investment decision making and itenables students to solve investment decision making problems

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 investment	Remembering	Conceptual	Technical Presentation
CO2	To understand the Investment Alternatives	Remembering	Conceptual	CIA
CO3	To understand the concept of Fundamental Analysis and Technical Analysis	Understanding	Conceptual	DIA(Quiz)
CO4	To understand the Efficient Market Theory, Futures and Portfolio Construction	Understanding	Conceptual	Self-supporting assignment
CO5	To understand the Portfolio Evaluation and Portfolio Revision	Understanding	Conceptual	MODEL

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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)	20GEU54	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

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Class Presentation/ Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	CIA
CO3	Students can be familiar with production function	Understanding	Conceptual	DIA (Quiz)
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills/Self Support Assignment
CO5	Students able to take price and output decisions under different market structures	Understanding	Conceptual	Model

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Programme	Course Code	Title
B. Com (BA)	20CBA02	Data Mining for Business Applications

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

Course Outcome	Description	Blooms Verb	Skill Mapping	CIA – Capstone
CO1	Able to understand the basic data mining task, models and issues on implementation.	Understand	Technical Skills	Technical Presentation
CO2	Able to understand the idea on techniques of data mining and how it is used in various concepts.	Understand	Competitive Skills	CIA
CO3	Able to evaluate the concepts of different algorithms used in data mining.	Apply	Communication Skills	Writing Skills
CO4	Able to implement and visualize the data.	Apply	Competitive Skills	DIA(Quiz)
CO5	Able to implement the concept of Data mining in various Application.	Apply	Competitive Skills	Model

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Programme	Course Code(s)	Title
B.Com(BI)/B.Com(E-Com)/B.Com BA	20CUG46	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 ability to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
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	Poster Presentation
CO2	To understand and analyze labour Cost and methods. Overhead Methods and Techniques. Calculation of Overheads.	Understanding	Analytical	CIA
CO3	To understand the Concepts of Management Accounting and the concept of Ratio Analysis.	Applying	Analytical	DIA (Quiz)
CO4	To analyze the concept of Fund Flow and Cash Flow Statement and Preparation of Fund Flow Statement and Cash Flow Statement.	Applying	Analytical	Case Study
CO5	To understand the concept of Cost-Volume-Profit-Analyze. To identify how to take Managerial Decisions using CVP and Budgetary Control through Various Budgets.	Remembering	Conceptual	Model

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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(BI)/ B.Com(E.Com)/ B.Com(BA)/B.Com(CS)	20CUG13	Goods and Services Tax

Preamble : To provides fundamental knowledge about goods and services tax

Expected Level of Output : Conceptual Level

Level Department offered : Commerce

Prerequisites : **Higher Secondary Level**

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

l.No.	Description	Verb	Skill	CIA-Cap Stone
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	CIA
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Self support Assignment
CO4	To know the Input tax credit under GST	Understanding	Conceptual	DIA
CO5	Students able to know about E- way bill and GST portal	Understanding	Conceptual	MODEL

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Programme	Course Code(s)	Title
B.Com / B.Com (CA / IT / A&F / BA / CS)	20GEU74	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 Outcome : 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

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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 (CS)	**20CUG14**	**Computerized Accounting - Practical**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Digitized Accounting. In addition, the students will learn how to use this in practical.

Expected level of output : Conceptual Level

Department offered : **Commerce**

Prerequisites : Knowledge in Digitized accounting

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. Backup and restore of data	Apply	Understanding	Class 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	Class Presentation
CO3	To understand the godown entries for the various goods and various location of the country, cost/ profit center management and preparation of Bank account statement with creditors and debtors.	Apply	Understanding	CIA
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	Technical presentation
CO5	To PrepareBudgets and Controls Management, payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Technical presentation
CO6	To Generate GSTR 1, 2, 3B and 4, Reports and TDS Report	Apply	Analytical	MODEL

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Programme	Course Code	Title
B.Com(BA)	20CBA05	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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to know the basic concepts in R-Programming	Remembering	Conceptual	Class Presentation
CO2	Able to demonstrate the nature of variables and files	Understanding	Technical	CIA
CO3	Able to apply the knowledge of R to actual situation	Applying	Analytical	Miniature/ Protocol / Model
CO4	To understand how to solve non parametric test in R	Understanding	Analytical	DIA(Quiz)
CO5	To identify basic statistical process control in R	Applying	Analytical	Application Development

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Programme	Course Code	Title
B.Com(BA)	20CBA06	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

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	Simulation exercises
CO2	Able to understand the advanced graphical representation of data	understand	Analytical Skill	Simulation exercises
CO3	Able to apply the R programming foranalysing the inferential statistics	Apply	Conceptual Skill	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.ComBI/B.Com E.Com/ B.Com BA/B.Com (CS)	20CUG06	Corporate Accounting

Preamble : Commerce students should have basic knowledge of Corporate accounting 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 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	CIA -I
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	Case study
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	DIA-QUIZ
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	MODEL EXAM

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Programme	Course Code(s)	Title
B.Com /B.Com(CA)/ B.Com (A&F)/ / B.Com(BI) /B.Com BPS/B.Com CM/ B.Com(CS)	20CUG09	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 be able to

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	To understand the basic knowledge about company law. Commencement of business, Certificate of Incorporation, Memorandum and Articles of association.	Remembering	Conceptual	Class Presentation
CO2	To understand the enterprises with share capital, size of the share capital and key managerial personnal of the company.	Remembering	Conceptual	CIA Test
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	Self-Support Assignment
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	DIA
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	Model Exam

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(E.Com)	20CUG39	OOPS With C++

Preamble : To provide the fundamental concepts and benefits of using C++ and object-oriented programming techniques for application development.

Expected Level of Output : Conceptual Level

Department offered: : Commerce

Prerequisites : Higher Secondary Level

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 know about Procedure Oriented Programming and OOPs Concept from C language.	Remember	Conceptual Skill	Class Presentation
CO2	To Understand the ObjectOriented Programming concepts such as functions, member functions, arrays and array of Objects	Understand	Technical Skills	Technical Presentation
CO3	To Apply Constructors, Destructors and Type conversions and different level of Inheritance by developing programs.	Apply	Analytical	Demonstration
CO4	Apply managing Console I/O and file Operations on any small application.	Apply	Analytical	Simulation Exercise
C05	Able to create the modular, file management and accessing concept in programming	Create	Technical Skill	Application Development

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Programme	Course Code(s)	Title
B.Com(CA)/B.Com(IT)/ B.Com(E-Com)	20CUG40	C++ - Practical

Preamble : To acquire knowledge about object oriented concepts and develop an application.

Expected Level of Output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary 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 C++ program using control structures, classes and objects.	Remembering	Conceptual	Simulation Exercises
CO2	Able to understand various programming concepts in C++ programming	Understanding	Conceptual	Application Development

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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)	**20GEU54**	**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

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Class Presentation/ Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	CIA
CO3	Students can be familiar with production function	Understanding	Conceptual	DIA (Quiz)
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills/Self Support Assignment
CO5	Students able to take price and output decisions under different market structures	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 (CS)	20CUG11	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 : Knowledge in higher secondary level

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

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	Poster presentation
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	CIA
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Case study
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	DIA(Quiz)
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	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 (CS)	20CUG12	Management Accounting

Preamble : This course provides students with a basic understanding of Management Accounting. It enables students to solve Management Accounting

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

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	Poster presentation
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	CIA
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Case study
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	DIA(Quiz)
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Model

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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(BI)/ B.Com(E.Com)/ B.Com(BA)/B.Com(CS)	20CUG13	Goods and Services Tax

Preamble : To provides fundamental knowledge about goods and services tax

Expected Level of Output : Conceptual Level

Level Department offered : Commerce

Prerequisites : **Higher Secondary Level**

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

Sl.No.	Description	Verb	Skill	CIA-Cap Stone
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	CIA
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Self support Assignment
CO4	To know the Input tax credit under GST	Understanding	Conceptual	DIA
CO5	Students able to know about E- way bill and GST portal	Understanding	Conceptual	MODEL

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Programme	Course Code(s)	Title
B.Com / B.Com (CA / IT / A&F / BA / CS)	20GEU74	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 Outcome : 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

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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 (CS)	**20CUG14**	**Computerized Accounting - Practical**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Digitized Accounting. In addition, the students will learn how to use this in practical.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Digitized accounting

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. Backup and restore of data	Apply	Understanding	Class 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	Class Presentation
CO3	To understand the godown entries for the various goods and various location of the country, cost/ profit center management and preparation of Bank account statement with creditors and debtors.	Apply	Understanding	CIA
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	Technical presentation
CO5	To Prepare Budgets and Controls Management, payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Technical presentation
CO6	To Generate GSTR 1, 2, 3B and 4, Reports and TDS Report	Apply	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.ComBI/B.Com E.Com/ B.Com BA/B.Com (CS)	20CUG06	Corporate Accounting

Preamble : Commerce students should have basic knowledge of Corporate accounting 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 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	CIA -I
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	Case study
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	DIA-QUIZ
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	MODEL EXAM

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Programme	Course Code	Title
B.Com(IT)	20CIU03	**Technology Management**

Preamble : To familiarize the students to explore human, social and environmental concerns associated with technological change

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

	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the role of Conceptual Framework and Critical factors in Managing Technology	Remember	Conceptual	Self-Supporting Assignments
CO2	Explain the New paradigms, Management of paradigms and S-curve of Technological progress	Understand	Conceptual	CIA
CO3	Understand the concept of Entrepreneurial Vs Stewardship	Remember	Conceptual	Poster Presentation
CO4	Describe the Technology planning, Technology audit model and their Life cycle	Understand	Conceptual	DIA
CO5	Know about the importance of Technology Portfolio , Industrial Research and intra firm technology transfer	Apply	Technical	MODEL

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Programme	Course Code	Title
B.Com(CA)/B.Com(IT)/ B.Com(E.Com)	20CUG39	OOPS With C++

Preamble : To provide the fundamental concepts and benefits of using C++ and object-oriented programming techniques for application development.

Expected Level of Output : Conceptual Level

Department offered: : Commerce

Prerequisites : Higher Secondary Level

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 know about Procedure Oriented Programming and OOPs Concept from C language.	Remember	Conceptual Skill	Class Presentation
CO2	To Understand the ObjectOriented Programming concepts such as functions, member functions, arrays and array of Objects	Understand	Technical Skills	Technical Presentation
CO3	To Apply Constructors, Destructors and Type conversions and different level of Inheritance by developing programs.	Apply	Analytical	Demonstration
CO4	Apply managing Console I/O and file Operations on any small application.	Apply	Analytical	Simulation Exercise
C05	Able to create the modular, file management and accessing concept in programming	Create	Technical Skill	Application Development

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Programme	Course Code(s)	Title
B.Com(CA)/B.Com(IT)/ B.Com(E-Com)	20CUG40	C++ - Practical

Preamble : To acquire knowledge about object oriented concepts and develop an application.

Expected Level of Output : Basic working Level

Department offered : Commerce

Prerequisites : Higher Secondary 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 C++ program using control structures, classes and objects.	Remembering	Conceptual	Simulation Exercises
CO2	Able to understand various programming concepts in C++ programming	Understanding	Conceptual	Application Development

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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)	20GEU54	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

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Class Presentation/ Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	CIA
CO3	Students can be familiar with production function	Understanding	Conceptual	DIA (Quiz)
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills/Self Support Assignment
CO5	Students able to take price and output decisions under different market structures	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 (CS)	20CUG11	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 : Knowledge in higher secondary level

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

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	Poster presentation
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	CIA
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Case study
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	DIA(Quiz)
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	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 (CS)	20CUG12	Management Accounting

Preamble : This course provides students with a basic understanding of Management Accounting. It enables students to solve Management Accounting

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

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	Poster presentation
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	CIA
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Case study
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	DIA(Quiz)
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Model

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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(BI)/ B.Com(E.Com)/ B.Com(BA)/B.Com(CS)	**20CUG13**	**Goods and Services Tax**

Preamble : To provides fundamental knowledge about goods and services tax

Expected Level of Output : Conceptual Level

Level Department offered : Commerce

Prerequisites : **Higher Secondary Level**

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

Sl.No.	Description	Verb	Skill	CIA-Cap Stone
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	CIA
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Self support Assignment
CO4	To know the Input tax credit under GST	Understanding	Conceptual	DIA
CO5	Students able to know about E- way bill and GST portal	Understanding	Conceptual	MODEL

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Programme	Course Code(s)	Title
B.Com / B.Com (CA / IT / A&F / BA / CS)	20GEU74	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 Outcome : 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

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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 (CS)	**20CUG14**	**Computerized Accounting - Practical**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Digitized Accounting. In addition, the students will learn how to use this in practical.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Digitized accounting

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. Backup and restore of data	Apply	Understanding	Class 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	Class Presentation
CO3	To understand the godown entries for the various goods and various location of the country, cost/ profit center management and preparation of Bank account statement with creditors and debtors.	Apply	Understanding	CIA
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	Technical presentation
CO5	To Prepare Budgets and Controls Management, payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Technical presentation
CO6	To Generate GSTR 1, 2, 3B and 4, Reports and TDS Report	Apply	Analytical	MODEL

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc.(CSA)/ B.Sc.(DS)	20CSS07	DSC V- Operating System

Preamble : This course provides students with a basic understanding in various system resources, Process management and functions of operating systems. It enables students to slove operating system problems

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology / Computer Applications / 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	learn the fundamentals of operating system	Understand	Communication Skills	Class Presentation
CO2	learn the mechanisms of operating system to handle the file system	Remember	Competitive Skills	CIA
CO3	Understand the mechanisms of operating system to handle processes and their communication	Understand	Managerial Skills	Self Support Assignment
CO4	study and analyze concept relating to asynchronous concurrent processes and	Analyze	Competitive Skills	DIA(Quiz)
CO5	Analyze the mechanisms of operating system to handle memory management	Analyze	Competitive Skills	Model

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Programme	Course Code	Title
B.Sc.(CS) / B.Sc.(IT) / B.Sc.(CT) / BCA / B.Sc.(CSA B.Sc.(SS)	20CSS08	DSC-VI Java Programming

Preamble : This course provides students with a basic understanding on Java programming concepts and its applications. It enables students to solve applications using java.

Expected level of output : Conceptual Level

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

Prerequisites : Knowledge in Basic OOPS 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 Java programming languages.	Understand	Communication	Class Presentation
CO2	Able to explore the concept of Arrays, Class Design, Advanced Class Features, Exception and Assertions,	Analyze	Competitive Skills	CIA
CO3	Able explore the concept Collection and Generics Framework, I/O Fundamentals, Console I/O, File I/O and Threads Fundamentals	Analyze	Analytical Skills	Simulation Exercises
CO4	Able to relate the concepts of Fork-Join Framework, Parallel Streams and Building Database Applications with JDBC:	Apply	Competitive Skills	DIA(Quiz)
CO5	Able to narrate the concepts of Localization and Oracle Cloud	Apply	Competitive Skills	Model

Programme	Course Code	Title
BCA	**20CAU01**	**DSC VII – Advanced Python Programming**

Preamble : This course provides students with a basic understanding of Python. It enables students to solve many real world problems.

Expected level of output : Conceptual Level

Department offered : **BCA**

Prerequisites : Basic 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	Students will know the basics of python and how to install python environment	Remember	Communication Skills	Class Presentation
CO2	Understand the control structures and significance of functions	Understand	Competitive Skills	CIA
CO3	Understand the lists, tuples dictionary data types in Python Programming	Understand	Managerial Skills	Self Support Assignment
CO4	Able to create GUI environment using python widgets	Create	Competitive Skills	DIA(Quiz)
CO5	Able to apply python database connectivity with MySQL to create applications	Apply	Competitive Skills	Model

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc.(CSA)/ B.Sc.(SS)	**20CSS11**	**DSC Practical-III Practical-Programming Lab – JAVA**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Java programming. In addition, the students will learn how to use applications with Java programming

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Applications / Computer Science and Applications / 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	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Analytical Skills	Simulation Exercises
CO2	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Application Development

Programme	Course Code	Title
BCA	20CAU02	DSC IV – Practical Programming Lab - Advanced Python

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Python Programming. In addition, the students will learn how to use MYSQL with Python.

Expected level of output : Conceptual Level

Department offered : Computer Applications

Prerequisites : Basic knowledge of 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	Students will know the basics of python and how to install python environment	Apply	Analytical Skills	Simulation Exercises
CO2	Understand the lists, tuples dictionary data types in Python Programming	Apply	Analytical Skills	Application Development

Programme	Course Code	Title
BCA/B.Sc CS /B.Sc SS/B.Sc(DS)	20CSS15	Computer Networks

Preamble : This course provides students with a basic understanding 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/Data Science

Prerequisites : Knowledge in computer terminologies and message sharing.

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 usage of computer networks, network software and network hardware and reference models.	Understand	Communication Skills	Class Presentation
CO2	Analyze the concept of Physical Layer and Data Link Layer	Analyze	Competitive Skills	CIA
CO3	Understand the concept of Network Layer and Different types of Routing Mechanism	Understand	Managerial Skills	Self Support Assignment
CO4	Remember the concept of Transport Layers and its protocol	Remember	Competitive Skills	DIA(Quiz)
CO5	Apply the concept of Application and Presentation Layer and Apply	Apply	Competitive Skills	Model

Programme	Course Code	Title
BCA	20CAU03	DSC-IX Agile Software Development

Preamble : This course provides students with a basic understanding about the approaches and solutions of agile software development in various environments. It enables students to solve Software Development Life Cycle conveniently.

Expected level of output : Conceptual Level

Department offered : Computer Applications

Prerequisites : Knowledge in Software Engineering

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 concept of software engineering and process models.	Understand	Communication Skills	Class Presentation
CO2	Able to understand the concept of software testing, configuration and risks.	Understand	Competitive Skills	CIA
CO3	Able to understand the concept of agile software development approaches	Understand	Managerial Skills	Self Support Assignment
CO4	Able to apply the tools in agile software development approaches	Apply	Competitive Skills	DIA(Quiz)
CO5	Able to apply the Concept of principles and scenario of software development approaches under agile development	Apply	Competitive Skills	Model

Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ B.C.A/ B.Sc.(CSA)/B.Sc.(SS)	20CSS17	DSC - X – Database Management System using Oracle

Preamble : This course provides students with a basic understanding about Database, Oracle 12c and PL/SQL. It enables students to solve SQL Queries.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Application / Computer Science And Application / System Software

Prerequisites : Knowledge in 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	Remember the basic concepts of Database, The models used to represent database and to design the database using Normalization	Remember	Communication Skills	Class Presentation
CO2	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	Competitive Skills	CIA
CO3	Understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical Skills	Simulation Exercises
CO4	Apply and enhance the ability in program objects and	Apply	Competitive Skills	DIA(Quiz)

	PL/SQL.			
CO5	Apply and enhance the knowledge in exceptions, stores procedures, triggers and event handling.	Apply	Competitive Skills	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)	20CSS18	DSC Practical V Practical - Programming Lab – Visual Basic and Oracle

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use database. In addition, the students will learn how 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 : Knowledge about 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. Recognize the use of joins and sub queries in Oracle	Understand	Communication Skills	Class Presentation
CO2	.Apply the Concept of Control Structure in Procedural Language for Structure Query Language(PL/SQL). Apply the concept of Database Connection	Apply	Technical Skills	Technical Presentation

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS19	DSC Practical-VI Practical-Programming Lab – Software Testing using Selenium

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use automated web based applications. In addition, the students will learn how to understand basics of selenium.

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 basic 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 Web driver and linking concepts	Understand	Communication Skills	Class Presentation
CO2	To synchronize the test using implicit and explicit wait using parameters, pop up windows and forms	Apply	Technical Skills	Technical Presentation

Programme	Course Code	Title
B.Sc(CS)/B.Sc(IT)/B.Sc(CT) /B.C.A/B.Sc(CSA)/B.Sc(SS)	20CSS20	DSE I: System Modeling using UML

Preamble : This course provides students with a basic understanding on Object Oriented software development process, on successful completion of this subject the students can learn the concept of 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 : Knowledge in UML Diagrams

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 Development Life Cycle.	Remember	Technical skills	Poster Presentation
CO2	Able to understand the concept of DFD and ERD.	Understand	Communication skills	CIA
CO3	To understand the concept of UML Diagrams.	Understand	Managerial skills	Group-Mini project
CO4	Able to Apply the concept of use case diagram, collaboration and activity diagram	Apply	Managerial skills	DIA(Quiz)
CO5	Acquire the knowledge about design and software quality.	Analyze	Managerial skills	Model

Programme	Course Code	Title
BBA / BBA (CA)	20MSU01	Fundamentals of Accounting

Preamble : This course provides students with a basic understanding in the fundamental aspects of financial accounting. It enables students to solve simple problems in the accounting process.

Expected level of output : Conceptual Level

Department offered : Management Science

Prerequisites : Knowledge in basic business transactions

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 an understanding of the fundamentals of accounting theory	Remember	Conceptual	Technical Presentation
CO2	Support at basic level the recording and reporting of financial information for business	Apply	Analytical	CIA
CO3	Analyze and record transactions, prepare accounting adjustments, construct financial statements, and close the books for the accounting period.	Apply	Analytical	Protocols
CO4	Recognize, measure, record, and report revenues and expenses of a not-for-profit entity.	Apply	Analytical	DIA(Quiz)
CO5	Construct financial statements from incomplete records	Apply	Analytical	Model

Programme	Course Code	Title
BBA/BBA(CA) / B.Sc. (ISM)	20MSU02	Management Concepts

Preamble : This course provides students with a basic understanding. Students completing this course will be able to understand and explain basic management concepts and applying the contemporary management thoughts in practice

Expected level of output : Conceptual Level

Department offered : Management

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 Management concepts and Functional areas of Management in Business Arena and evaluate the types of business organization.	Understanding	Conceptual	Technical Presentation
CO2	Able to understand the managerial functions and conceptual framework of planning and decision-making in day-to-day business	Understanding	Conceptual	CIA
CO3	Able to understand and analyze the concept of organizing and staffing in a variety of circumstances and management practices in organizations.	Understanding	Conceptual	SSA
CO4	Able to evaluate the control process, to apply theoretical knowledge in simulated and real-life settings.	Understanding	Conceptual	DIA(Quiz)
CO5	Able to execute and develop proper communication in organization for functioning	Understanding	Conceptual	Model

Programme	Course Code	Title
BBA / BBA(CA)	20MSU03	Desktop Publishing & Visual Basic Practical

Preamble : This Practical course is designed to provide the students with the knowledge to use Word, PowerPoint, Access concepts along with Visual Basic applications. In addition, the students will learn how to design, edit and format technical documents.

Expected level of output : Conceptual Level

Department offered : Management Science

Prerequisites : Knowledge in basic computer skills.

Course Outcomes : After successful completion of this course, the students will be able to prepare professional business documents and windows-based applications using office packages.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of Word, PowerPoint and Access to design any kinds of business documents.	Applying	Technical	Demonstration
CO2	Able to design interactive windows-based applications that support business operations.	Applying	Technical	Model Examination

Programme	Course Code	Title
BBA / BBA (CA)	**20MSU04**	**Financial Accounting**

Preamble : This course provides students with a basic understanding in the fundamental aspects of advanced financial accounting. It enables students to solve simple problems in the advanced level of accounting.

Expected level of output : Conceptual Level

Department offered : Management

Prerequisites : Knowledge in basic financial accounting

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 concepts of Consignment, valuation of stock and accounting treatment of Consignor and consignee.	Understand	Conceptual	Technical Presentation
CO2	Understand the concepts of Joint venture & Co- Venture, and the methods of recording the Joint venture and co-venture transactions.	Understand	Conceptual	CIA
CO3	Understand the partnership Accounts andtreatment of Goodwill.	Apply	Analytical	Protocols
CO4	Understand and apply the concepts of Admission, Retirement and Death of a partner in partnership accounting.	Apply	Analytical	DIA(Quiz)
CO5	Understand the company Accounts, issue of shares and Debentures, Forfeiture of shares and redemption of preference shares.	Apply	Analytical	Model

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Programme	Course Code	Title
BBA	20BMU01	Executive Communication

Preamble : This course provides students with a basic understanding of Communication of Various Organizations. It enables students to understand how to write business reports.

Expected level of output : Conceptual Level

Department offered : Management Science

Prerequisites : None

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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the Effective Communication at Workplace.	Understanding	Conceptual	Class Presentation
CO2	Able to develop their personality and to upgrade their presentation skills.	Understanding	Conceptual	CIA
CO3	Able to understand about effective speaking.	Understanding	Conceptual	Writing Skills
CO4	Able to understand the essentials of report and meetings.	Remembering	Conceptual	DIA(Quiz)
CO5	Able to understand the concept of Nonverbal communication.	Remembering	Conceptual	Model

Programme	Course Code	Title
BBA	**20BMU02**	**Managerial Accounting - Practical**

Preamble : This Practical course is designed to provide the students with the knowledge to use Basic Accounting Concepts. In addition, the students will learn how to maintain the records and documentation.

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 be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the process of Documentation and Maintenance of Records.	Remembering	Conceptual	Technical Presentation
CO2	Able to understand the Banking Systems Procedures and Practices	Understanding	Conceptual	Demonstration

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Programme	Course Code	Title
BBA (CA)	20BAU01	DSC – IV DBMS Principles & Concepts

Preamble : This course provides students with a basic understanding of a database. It enables students to solve database problems.

Expected level of output : Conceptual Level

Department Offered : Business Administration with CA

Prerequisite : Basic computer Knowledge

Course Outcomes : After 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 data processing needs and basics of Database Systems.	Remember	Conceptual Skills	Class Presentation
CO2	Able to understand the structure of relational database.	Remember	Technical skills	CIA
CO3	Able to understand the basic SQL operations and construct queries.	Understand	Conceptual Skills	Self-Support Assignment
CO4	Able to apply the concept of Entity Relationship Model in Database Applications.	Understand	Technical skills	DIA(Quiz)
CO5	Able to apply normalization techniques in database concepts.	Apply	Analytical Skill	Model

Programme	Course Code	Title
BBA CA	**20BAU02**	**DSC I – DBMS(SQL)- Practical**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use SQL Queries. In addition, the students will learn how to create and manipulate databases.

Expected level of output : Conceptual Level

Department offered : Business Administration with CA

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	Understand the table creation and uses. Understand the usage of insert, update, alter using SQL query.	Remembering	Conceptual	Technical Presentation
CO2	Apply the concept of constraints in SQL query. Apply the concept of group function and order by clauses	Understanding	Conceptual	Model Exam

Programme	Course Code	Title
B.Sc. ISM	20IMU01	Fundamentals of C Programming

Preamble :This course provides students with a basic understanding on programming concepts. It enables students to solve problems using programmable logic.

Expected level of output : Conceptual Level

Department offered : Computer Technology

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 basics of programming languages.	Understand	Communication	Class Presentation
CO2	Able to remember the difference between iteration, recursion, array and structure.	Remember	Communication	CIA
CO3	Able to analyze the programming concepts to code the program easily	Analyze	Analytical	Simulation Exercises
CO4	Able to analyze the fundamental types of control structures	Analyze	Technical	DIA(Quiz)
CO5	Able to analyze the modular and accessing concept in programming	Analyze	Technical	Model

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Programme	Course Code	Title
B.Sc. ISM	20IMU02	Practical Programming Lab –C

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use C Language. In addition, the students will learn how to develop a C program.

Expected level of output : Conceptual Level

Department offered : Computer Technology

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 basics of programming languages.	Understand	Technical Skill	CIA I
CO2	Able to remember the flow of data in conditional statements.	Understand	Conceptual Skill	Simulation Exercises
CO3	Able to analyze the difference between iteration, recursion, array and structure.	Understand	Conceptual Skill	Application development
CO4	Able to analyze the modular and accessing concept in programming	Remember	Technical skill	Models

Programme	Course Code	Title
B.Sc. ISM	20IMU03	Principles of Accounting

Preamble :This course provides students with a basic understanding of basic accounting concepts. It enables students to solve and guide the selection, recognition, measurement, the means of summarizing and communicating them to the interested parties.

Expected level of output :Conceptual Level

Department offered :Management Science

Prerequisites :Knowledge at 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 demonstrate and understanding of the fundamentals of accounting theory	Remembering	Conceptual	Class Presentation
CO2	Able to support at basic level the recording and reporting of the financial information in to accounting aspects.	Understanding	Analytical	CIA
CO3	Able to assess the accounting proceeds through identifying verification of statements	Apply	Analytical	Miniatures
CO4	Able to prepare, analyze, report the business with balance sheet statements	Apply	Analytical	DIA(Quiz)
CO5	Able to recognize, measure, record, and report the Bank reconciliation statement	Understanding	Analytical	Model

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Programme	Course Code	Title
B.Sc. ISM	20IMU04	Fundamentals of C++ Programming

Preamble : This course provides students with a basic understanding on Object oriented programming concepts. It enables students to solve problems using programmable logic.

Expected level of output : Conceptual Level

Department offered : 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 understand about Procedure Oriented Programming and OOPs Concepts	Understand	Communication Skills	Class Presentation
CO2	Able to understand the Object-Oriented Programming concepts such as functions, member functions, arrays and array of Objects	Understand	Communication Skills	CIA
CO3	Able to apply Constructors, Destructors and Type conversions and illustrate different level of Inheritance by developing programs.	Apply	Technical Skill	Simulation Exercises
CO4	Able to apply managing Console I/O and file Operations on any small application.	Apply	Analytical Skill	Model

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Programme	Course Code	Title
B.Sc. ISM	**20IMU05**	**Practical -Programming Lab – C++**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use C++ Language. In addition, the students will learn how to develop Object Programming applications.

Expected level of output : Conceptual Level

Department offered : 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 understand the execution of the C++ program using control structures, classes and objects	Understand	Technical Skills	Simulation Exercises
CO2	Able to recognize the application of Friend Functions in C++ programs	Apply	Technical Skill	CIA
CO3	Able to apply Constructor, Destructor and Inheritance in C++ Programs.	Apply	Conceptual Skill	Application Development
CO4	Able to apply programming skills to the concept of files and templates	Apply	Conceptual Skill	Model

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
BBA(Logistics)	**20BLU01**	**Fundamentals of Logistics**

Preamble : This course provides students with a basic understanding Knowledge of Logistics. The students will learn how the logistics works.

Expected level of output : Conceptual Level

Department offered : Management Science

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 explain the logistics concept in general with regard to cost efficiency	Understanding	Conceptual	Class Presentation /Technical Presentation/ Demonstration
CO2	To explain the customer service, outsourcing and procurement concept.	Understanding	Conceptual	CIA
CO3	Toexplain the forces driving globalization, financial issues and mode of transportation	Understanding	Analytical	Writing skills/Self Support Assignment /Report Writing
CO4	To summarize the warehouse concept E-commerce,	Remembering	Analytical	DIA(Quiz)
CO5	To define the EXIM, rail logistics and liquid logistics	Remembering	Analytical	Model

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Programme	Course Code	Title
BBA(Logistics)	20BLU03	Material Management

Preamble : This course provides students will be able to apply the knowledge about material management in real- life business situation. This subject will enable them to enhance their managerial ability and professional skills

Expected level of output : Conceptual Level

Department offered : Management Science

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 help students to understand basic principles and concepts of material management	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To understand the purchasing concept and store procedure documentation	Understanding	Conceptual	CIA
CO3	Able to understand Material Requirement planning and concept of Bills of Materials	Understanding	Analytical	Writing skills/Self Support Assignment /Report Writing
CO4	To develop students in Quality Control, Inventory Control and cost Reduction techniques.	Remembering	Analytical	DIA(Quiz)
CO5	To understand material handling concept	Remembering	Analytical	Model

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Programme	Course Code	Title
BBA(Logistics)	**20BLU04**	**Warehousing and Distribution Centre operations**

Preamble : This course provides students will be able to apply the basic knowledge of warehousing and distribution center operation in the real-life situation and they will be able to enhance their ability and professional skills

Expected level of output : Conceptual Level

Department offered : Management Science

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 explain the systems concept of warehouse organization	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To summarize the procedure for arranging of goods, store location	Understanding	Conceptual	CIA
CO3	To Outline apply the knowledge of quality check in packaging	Understanding	Conceptual	Writing skills/Self Support Assignment /Report Writing
CO4	To summarize the channel of distribution in inboundand outbound operation	Remembering	Conceptual	DIA(Quiz)
CO5	To define the safety rules and procedures to be observed in warehouse management.	Remembering	Conceptual	Model

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Programme	Course Code	Title
BBA(Logistics)	20BLU08	Freight Forwarding (Ocean & Air Cargo)

Preamble : The Objective of this course is to enable the students to apply the basic knowledge of freight forwarding including ocean and air cargo in the real-life situation

Expected level of output : Conceptual Level

Department offered : Management Science

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 develop competencies and knowledge of students to become freight forwarding professionals	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To orient students in the field of Logistic	Understanding	Conceptual	CIA
CO3	To help Students to understand freight forwarding	Understanding	Analytical	Writing skills/Self Support Assignment /Report Writing
CO4	To help Students to understand the cargo handling and its basic regulation	Remembering	Analytical	DIA(Quiz)
CO5	To enable the students to understand the Documentation and procedure of freight forwarding.	Remembering	Analytical	Model

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
BBA(Logistics)	20BLU09	Forecasting and Inventory Management

Preamble : This course provides Students will have been able to apply the gain knowledge of forecasting and Inventory Management

Expected level of output : Conceptual Level

Department offered : Management Science

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 develop competencies and knowledge of students to become freight forwarding professionals	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To orient students in the field of Logistic	Understanding	Conceptual	CIA
CO3	To help Students to understand freight forwarding	Understanding	Analytical	Writing skills/Self Support Assignment /Report Writing
CO4	To help Students to understand the cargo handling and its basic regulation	Remembering	Analytical	DIA(Quiz)
CO5	To enable the students to understand the Documentation and procedure of freight forwarding.	Remembering	Analytical	Model

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Programme	Course Code	Title
BBA / BBA (CA)/ B. Sc (ISM) / BBA (Logistics)	20MSU06	Cost and Management Accounting

Preamble : Students should have basic knowledge of cost accounting and management accounting.

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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the cost accounting techniques for evaluation, analysis and application in managerial decision making.	Remembering	Conceptual	Class Presentation
CO2	Able to learn about tools and techniques of Material cost control and labour Cost control.	Remembering	Conceptual	CIA
CO3	Able to understand, analyze and interpret the basic concepts of financial statements.	Understanding	Conceptual	Protocols
CO4	Able to understand budgeting process and prepare different types of budgets.	Remembering	Conceptual	Model

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Programme	Course Code	Title
BBA / BBA (CA)/ B.Sc (ISM)/BBA(Logistics)	20MSU11	Human Resource Management

Preamble : This course provides students with a basic understanding of thorough and comprehensive overview of key aspects of HRM. It enables students to understand the various concepts of human resources.

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 been

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to Understand the fundamental concepts and Functions of Human resource management.	Understanding	Conceptual	Class Presentation
CO2	Able to explain about the Human resource Planning and Job analysis.	Understanding	Conceptual	CIA
CO3	Able to demonstrate on Recruitment, Selection, Training and development methods.	Understanding	Conceptual	Writing skills
CO4	Able to tell about the performance appraisal approaches and Employee Benefits and services	Understanding	Conceptual	DIA
CO5	Able to define about HR Audit and International HRM.	Remembering	Conceptual	Model

Programme	Course Code	Title
B. Sc BT / MB	20BSU02	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 Group Assignment Writing skill Poster presentation
CO2	To understand the mechanism of activation in hypersensitive immune reaction	Understand	Conceptual	
CO3	To understand the role of the immune molecules in infectious diseases, autoimmunity and cancer	Understand	Conceptual	
CO4	The students will be able to identify the cellular and molecular basis of immune responsiveness.	Understand	Conceptual	

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Programme	Course Code	Title
B. Sc Biotechnology	**20BTU06**	**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	Class Presentation Simulation Exercises Poster presentation Self-Supporting Assignment
CO2	To Understand design of fermenter and Fermentation process.	Understand	Conceptual	
CO3	To analyses the various types of fermenter.	Analysis	Analytical	
CO4	To apply the large scale fermentation process and product production and acquire information on downstream process.	Apply	Analytical	

Programme	Course Code	Title
B. Sc Biotechnology	**20BTU07**	**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 : Biotechnology

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	**Technical Presentation/ Demonstration** **Attendance** **Stimulation Exercise**
CO2	To perform quantify the antigen and antibody concentration through titration.	Analyze	Technical	
CO3	To study of enzyme production with optimum parameters and separation.	Analyze	Technical	
CO4	To quantify the alcoholic content in wine and biomass production through SCP	Understand	Technical	

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Programme	Course Code	Title
B. Sc BT / MB	20BSU03	rDNA Technology

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	Class Presentation Poster Presentation Simulation Exercise Self-Supporting Assignments
CO2	To understand the applications of different vectors in genetic engineering	Understand	Conceptual	
CO3	To describe the expression of vector and its applications.	Understand	Conceptual	
CO4	To describe the methods of gene transfers, technique involved in recombinant DNA technology and its applications.	Understand	Conceptual	

Programme	Course Code	Title
B. Sc BT / MB	20BSU05	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 : Basic Working 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	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 different blotting techniques and conjugation and transformation	Understand	Technical	

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Programme	Course Code	Title
B. Sc BT / MB	20BSU05	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 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	Understanding	Conceptual	Technical Presentation Group Assignment Writing Skills Poster Presentation
CO2	To Understand the DNA, Protein sequence methods and Sequence Analysis	Understanding	Conceptual	
CO3	To Understand Sequence similarity searches and Alignment	Understanding	Conceptual	
CO4	To Understand the Concept of Phylogenetic	Understanding	Conceptual	

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Programme	Course Code	Title
B. Sc	20SEC01W	Diabetic Management

Preamble : To impart basic knowledge in diabetic management and its Control measures.

Expected Level of Output : Conceptual Level

Department offered : Bioscience

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 organs responsible for diabetes, issues types of diabetes.	Understand	Conceptual	Technical Presentation Group Assignment Writing skills Poster presentation
CO2	To understand the complications and family history associated with diabetes.	Understand	Conceptual	
CO3	To understand the different routes of diabetic management in elders.	Understand	Conceptual	
CO4	To understand the concepts of work life balance related to diabetes and best practices to get rid of diabetes.	Understand	Conceptual	

Programme	Course Code	Title
B. Sc	20SEC01Y	Bio entrepreneurship

Preamble : To impart basic knowledge in entrepreneurship development and the importance of value added products.

Expected Level of Output : Conceptual Level

Department offered : Biosciecne

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 activities and institutions involved in entrepreneurship development.	Understand	Conceptual	Technical Presentation Group Assignment Writing skills Poster presentation
CO2	To understand the process involved in brewing and packaging industries.	Understand	Conceptual	
CO3	To understand the cultivation and importance of different mushrooms.	Understand	Conceptual	
CO4	To understand the importance of Biofertilizers and its mass cultivation.	Understand	Conceptual	

Programme	Course Code	Title
B. Sc	20SEC01Y	Basic Bioinformatics

Preamble : To understand biological data acquisition and analysis, Comparative and predictive analysis of DNA and protein Sequence.

Expected Level of Output : Basic Working 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 introduction and basic concepts of bioinformatics.	Understand	Conceptual	Technical Presentation Group Assignment Writing skills Poster presentation
CO2	To understand the complications challenges associated with data exchange and search engines.	Understand	Conceptual	
CO3	To understand the biological databases and their significance.	Understand	Conceptual	
CO4	To understand the research institutions and arenas of research in bioinformatics.	Understand	Conceptual	

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1	**Name of the Course**	ACADEMIC SKILLS FOR COSTUME DESIGN AND FASHION
2	**Course Code**	21AEC36
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Fashion concepts and Basics of textiles. It also enables the students to know the field of fashion and textiles
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge about apparel and fashion accessories
8	**Assessment Strategy**	50% internal - 50% external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Identify** inspirations and develop sketches of various designs	A1 – Receiving Phenomena – Affective Domain	Tutorial	Presentation & Portfolio
CLO 2	**Present** a poster on top professionals of the fashion industry and style done on peer classmates.	A2 – Responding to Phenomena – Affective Domain	Case Study/ Project/ Tutorial	Presentation & Role play
CLO 3	**Work** on new cases and patterns in the fashion industry.	A3 – Valuing – Affective Domain	Case Study/ Project/ Group Work/PBL	Case study assignment

1	**Name of the Course**	PATTERN MAKING AND APPAREL CONSTRUCTION (T&P)	
2	**Course Code**	Theory - 21DDC01A	Practical - 21DDC01B
3	**Course Type**	Embedded	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students with concepts and techniques of pattern making and construction.	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	Theory - 2	Practical –2
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% internal - 50% external	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Understand** the process, do's and don'ts of pattern making and garment construction method. (C2)	C2- Understand-Cognitive Domain	Lecture/Tutorial	Written Tests
CLO 2	**Discuss** the methods of pattern making and garment construction and develop paper and digitized patterns.(A2)	A2- Responding to phenomenon – Affective Domain	Tutorial	Portfolio & Digital Projects
CLO 3	**Construct** different garment components by creating patterns and with the help of basic sewing skills. (P3)	P3- Guided Response - Psychomotor Domain	Demonstration	Craft work & Practical Tests

1	**Name of the Course**	BASICS OF FASHION (T&P)	
2	**Course Code**	Theory - 21DDC02A	Practical - 21DDC02B
3	**Course Type**	Embedded	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students with a basic knowledge about principles and elements of fashion.	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	Theory –2	Practical –2
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% internal - 50% external	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the basic concepts of principles of design	C1- Remember-Cognitive Domain	Lecture/Tutorial	MCQ's, Rapid Fire
CLO 2	**Form** designs with the elements of design along with colour theory.	A2- Responding to Phenomena–Affective Domain	Project/ Tutorial	Group project
CLO 3	**Display** types of light falling on a garment	P2- Guided Response - Psychomotor Domain	Practical/ Demonstration	Sketch work, Practical test

1	**Name of the Course**	FASHION SKETCHING PRACTICAL
2	**Course Code**	21DDC03
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	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.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	50%internal - 50%external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Begin** sketching the basic head theories and body features. (P2)	P2- Set - Psychomotor Domain	Practical/ Demonstration	Practical Tests
CLO 2	**Sketch** the basic concepts of fullness and designs into an innovative garment.(P4)	P4 - Mechanism - Psychomotor Domain	Practical/ Demonstration	Practical Tests

1	**Name of the Course**	TEXTILE SCIENCE
2	**Course Code**	21DDC04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course provides the students a strong foundation on textile science concepts and its application. It also enables the students to understand the different types of fibre, yarn and its properties.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on fibres and different fabric types
8	**Assessment Strategy**	50%internal - 50% external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the different types of fibres and explore its manufacturing process. (C1)	C1- Remember-Cognitive Domain	Lecture/Tutorial	Written Tests, online test
CLO 2	**Form** a fibre yarn dictionary with different types of yarns, its measuring methods and its properties. (A2)	A2- Responding to Phenomena – Affective Domain	Tutorial/ Group Work	Group Project
CLO 3	**Discuss** the basic technical textiles and its applications. (A2)	A2- Responding to Phenomena – Affective Domain	Tutorial	Presentation, viva voce

1	**Name of the Course**	HISTORY OF COSTUMES (T&P)	
2	**Course Code**	Theory - 21DDC05A	Practical - 21DDC05B
3	**Course Type**	Embedded	
4	**Synopsis/Rationale of the Module**	This course provides the students a strong foundation on History and varieties of costumes, from ancient times to till date.	
5	**Semester and Year Offered**	II Sem; Year I	
6	**Credit Value**	Theory - 2	Practical - 2
7	**Pre-requisite (if any)**	Knowledge on fibres and different fabric types	
8	**Assessment Strategy**	50%internal - 50%external	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** ancient clothing, early culture and traditional costumes of modern countries across globe	C1 – Remember – Cognitive Domain	Lecture/Tutorial	Quiz, Exam
CLO 2	**Explain** traditional costumes and textiles of India	A3 – Valuing – Affective Domain	Tutorial/ Group Work	Group Assignment
CLO 3	**Sketch** Costumes, rendering the traditional fabrics and print replicas	P4 – Mechanism - Psychomotor Domain	Practical/ Demonstration	Sketchwork, Practical Tests

1	**Name of the Course**	CHILDREN'S APPAREL PRACTICAL
2	**Course Code**	21DDC06
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This course enables the students to construct the Children's garment with details.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Completion of Pattern Making and Apparel Construction course
8	**Assessment Strategy**	50%internal - 50%external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Construct** different kinds of children's apparel with an inspiration and theme	P3-Guided Response - Psychomotor Domain	Practical/ Demonstration	Practical Tests
CLO 3	**Assemble** the constructed apparel products like a baby brand store, with brand identities.	P4-Mechanism - Psychomotor Domain	Practical/ Demonstration	Practical Tests

1	**Name of the Course**	VISUAL MERCHANDISING
2	**Course Code**	21DDC07
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course enables the students to know about a retail store setup
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Completion of basics of fashion
8	**Assessment Strategy**	50%inernal - 50%external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the basic terms in visual merchandising	C2-Understand - Cognitive Domain	Lecture/Tutorial	Written Tests, MCQ
CLO 2	**Build** a store display using visual merchandising techniques	P3- guided response- Psychomotor Domain	Practical/ Demonstration	Practical Tests
CLO 3	**Explain** how any fashion brand has a store setup according to visual merchandising techniques.	A3- Valuing - Affective Domain	Discussion	Industrial Attachment, Project

Programme	Course Code	Title
B.Sc. CDF	20CDU09	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

Prerequisites : Competition of Textile Science

Course Outcomes :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concept of basic weave designs and its derivatives	Understanding	Conceptual	Class presentation
COL2	To know about the structures and methods of producing fancy and decorative weave patterns	Analysing	Analytical	Poster /Flow chart/Miniatures/ Protocol
CO3	To analyse the fundamentals of knitting and their classification	Analysing	Analytical	Simulation Exercise
CO4	To analyse the types, methods of formation and uses of non-woven fabrics	Analysing	Analytical	SSA

Programme	Course Code	Title
B. Sc CDF	20CDU10	Fashion Psychology and Grooming

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**

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	20CDU12	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**

Prerequisites : **A pass in HSC**

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	

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Programme	Course Code	Title
B. Sc CDF	20CDU13	Womens apparel practical

Preamble : To enable the students to develop practical exposure in Selected women's garments.

Expected Level of Outcome : Working Level

Department offered : Costume Design and Fashion

Pre requisites : Completion of Children's Apparel

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	

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Programme	Course Code	Title
B. Sc CDF	20CDU14	Visual Merchandising

Preamble : To familiarize the students with the skills involved in displaying the merchandise for retail business.
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Expected Level of Outcome : Conceptual Level

Department offered : Costume Design and Fashion

Pre requisites : A pass in HSC

Course Outcomes :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To learn about visual merchandising types of display and store layout	Remembering	Conceptual	Class Presentation Group Mini Project
CO2	To learn about store exterior & interior in Display and concept of image mix	Remembering	Conceptual	
CO3	To learn about different fixtures and attention drawing devices used in display, Non-Store Retail Merchandising	Remembering	Conceptual	Poster

Programme	Course Code	Title
B. Sc CDF	20CDU15	Technical Textiles

Preamble : To enable the students to get Knowledge about the application technical textiles in various sector.

Expected Level of Outcome : **conceptual Level**

Department offered : **Costume Design and Fashion**

Pre requisites : **A pass in HSC**

Course Outcomes :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concept of technical textiles, its classification, kind of fibers used in their application and agro textiles.	Remembering	Conceptual	Class presentation Simulation Exercises
CO2	To know about the functions and applications of textile material in construction, transport, build and medical sectors.	Understanding	Conceptual	Poster /Flow chart/Miniatures/ Protocol
CO3	To know about the contribution of textile materials used in the field of defense, sports, packaging and the remedies for textile sources that effects the environment.	Understanding	Conceptual	SSA

Programme	Course Code	Title
B. Sc CDF	**20CDU17**	**History of Costumes**

Preamble : To enable the students to know the history of costumes.

Expected Level of Outcome : **conceptual Level**

Department offered : **Costume Design and Fashion**

Pre requisites : Completion of Children's Apparel

Course Outcomes :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the ancient clothing of prehistoric to historic period	Understanding	Technical	SSA
CO2	To understand early clothing cultures across globe	Understanding	Technical	
CO3	To understand the parts of various traditional costumes of major countries of globe	Understanding	Technical	Recreating the costumes
CO4	To analyze the different types of costumes, textiles and surface embellishments of India.	Analyzing	Technical	Poster Presentation

Programme	Course Code	Title
B.Sc. CDF	**20CDU18**	**Home Textiles**

Preamble : The aim of the course is to enable the students to get an insight about home textile industry.

Expected Level of Outcome : **conceptual Level**

Department offered : **Costume Design and Fashion**

Pre requisites : **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

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Programme	Course Code	Title
B. Sc CDF	20CDU19	History of Costumes Practical

Preamble : This course enables the students to sketch Traditional Clothing and Historical Costumes from ancient world to present time

Expected Level of Outcome : **conceptual Level**

Department offered : **Costume Design and Fashion**

Pre requisites : Basic knowledge in clothing

Course Outcomes :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To sketch the ancient clothing of prehistoric to historic period	Applying	Technical	Illustration
CO3	To sketch the different types of Indian costumes from Vedic period.	Applying	Technical	
CO4	To Develop the different types renders and print replicas	Creating	Technical	

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Programme	Course Code	Title
B. Sc CDF	**20CDU20**	**Home furnishing and ornamentation practical**

Preamble : The aim of the course is to enable the students to get an insight about home textile industry.

Expected Level of Outcome : **conceptual Level**

Department offered : **Costume Design and Fashion**

Pre requisites : **pass in HSC** :

Course Outcomes

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To develop the home linens used for different purposes	Creating	Technical	Product construction
CO2	To design the rooms in a house	Creating	Technical	Miniature making

Programme	Course Code	Title
B. Sc CDF	19CDU19	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	Poster Presentation
CO2	Applying the basic and natural dyes in various stages of textile dyeing	Applying	Application	DIA
CO3	Application of different finishes in fabric to enhance their property for the required end use.	Applying	Application	Group assignments/ Mini Project
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	Attendance

Programme	Course Code	Title
B.Sc CDF	19CDU20	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**

Prerequisites : : **Higher Secondary Level**

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	Poster Presentation
CO2	To understand the importance of branding terminologies and business principles	Remembering	Conceptual	DIA
CO3	To know about luxury fashion brands and its consumers	Understanding	Conceptual	Group assignments/ Mini Project
CO4	To understand the concept of brand customization and digital luxury brands	Understanding	Conceptual	Attendance

Programme	Course Code	Title
B. Sc CDF	19CDU21	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 : Pass in Higher Secondary Level

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	Attendance
CO2	To creating design with mood board for women's wear	Applying	Technical	
CO3	To create designs for men's wear	Applying	Technical	Class Presentation / Technical Presentation/ Demonstration
CO4	To creating design for different season festivals and occasions	Applying	Technical	

Programme	Course Code	Title
B. Sc CDF	19CDU21	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 : Pass in Higher Secondary Level

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	Attendance
CO2	To creating design with mood board for women's wear	Applying	Technical	
CO3	To create designs for men's wear	Applying	Technical	Class Presentation / Technical Presentation/ Demonstration
CO4	To creating design for different season festivals and occasions	Applying	Technical	

Programme	Course Code	Title
B.Sc. CDF	**19CDU22**	**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 : Pass in Higher Secondary Level

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	Miniatures/ Protocols/ Models
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	Attendance
CO4	To apply different stencil & Resist printing techniques in fabric finishing.	Applying	Technical	

Programme	Course Code	Title
B.Sc. CDF	19CDU23	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 : Pass in Higher Secondary Level

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	Attendance
CO2	To create the basic drafting pattern for S.B Waist coat and produce the garment	Applying	Technical Skills	
CO3	To create the basic drafting pattern for Kalidarkurtha / Nehru kurtha and Shorts and produce the garment	Applying	Technical Skills	Class Presentation / Technical Presentation/ Demonstration
CO4	To create the basic drafting pattern for Pant and produce the garment	Applying	Technical Skills	

Programme	Course Code	Title
B. Sc CDF	19CDU29	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 : Pass in 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	DIA
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	Attendance
CO5	To learn about the marketing and Distribution policy	Understanding	Conceptual	

Programme	Course Code	Title
B.Sc CDF	19CDU30	Technical Textiles

Preamble : To enable the students to get Knowledge about the application technical textiles in various sector.

Expected Level of Output: Conceptual Level

Department offered : Costume Design and Fashion

Prerequisites : Pass in Higher Secondary Level

Course Outcomes :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the concept of technical textiles, its classification and kind of fibers used in their application.	Remembering	Conceptual	Attendance
CO2	To know about the functions and applications of textile material in construction, transport and medical sectors.	Understanding	Conceptual	DIA
CO3	To know about the contribution of textile materials used in the field of defense.	Understanding	Conceptual	Poster Presentation
CO4	To understand the remedies for textile sources that effects the environment	Understanding	Conceptual	Writing skills

Programme	Course Code	Title
B.Sc CDF	19CDU31	Boutique Management

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

Prerequisites : Pass in Higher Secondary Level

Course Outcomes :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand What is a Boutique	Understanding	Conceptual	Class presentation
CO2	To know how to plan for a Boutique as business	Analyzing	Analytical	DIA
CO3	To analyze the interior setup of a boutique	Analyzing	Analytical	Attendance
CO4	To analyze the types, methods ofBoutique operations	Analyzing	Analytical	Miniatures/ Protocols/ Models

Programme	Course Code	Title
B.Sc CDF	19CDU32	Traditional Needle Art practical

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

Prerequisites : 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.	Applying	Technical	Attendance
CO2	To understand about the symbolism of embroidery and its application	Applying	Technical	
CO3	To understand and apply the traditional tribal work of India	Applying	Technical	Class Presentation / Technical Presentation/ Demonstration
CO4	To analyze the western and Persian influence on hand embroidery.	Analyzing	Technical	

Programme	Course Code	Title
B.Sc CDF	19CDU33	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 : 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	Attendance
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	Review
CO4	To create pattern development, ideas for garment construction, garment costing and final presentation	Applying	Technical	

Programme	Course Code	Title
B.Sc. CDF	19CDU34	Fashion Illustration

Preamble : To impart knowledge about Designing skill through fashion illustration in various

Expected Level of Output: Working Level

Department offered : Costume Design and Fashion

Prerequisites : pass in HSC

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

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	Attendance
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 crouqies	Applying	Technical	Miniatures/ Protocols/ Models
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	19CDU35	Accessory DesigningPractical

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

Expected Level of Output: Working Level

Department offered : Costume Design and Fashion

Prerequisites : pass in HSC

Course Outcomes : Completion of Accessory Designing Practical

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	Attendance
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	Class Presentation / Technical Presentation/ Demonstration
CO4	To apply the techniques to make an neckties, scarves and handbags..	Applying	Technical	

Programme	Course Code	Title
II MB,BT,Maths,Eng.Psy,	19TLU03	தமிழ் III

Preamble : வாழ்வின் மரபுகளை காப்பியங்களின் வழி உணர்த்தி அதன் வழி இயங்க வைத்தல், அறநெறிக் கருத்துக்களின் வழி மாணாக்கர்களிடையே பண்பாடு, நாகரிகம் போன்ற மனிதத்தை நினைவூட்டல், உடலியல் மொழிவாயிலாக மனித மன வெளிப் பண்புகளை எடுத்துக் கூறுதல் படைப்பாற்றலை ஊக்குவித்து மொழி ஆளுமையையும் தனித்திறனையும் வளர்த்தல்

Expected level of output : பன்முக அறிவு

Department offered : மொழித்துறை (தமிழ்)

Prerequisites : இளநிலை இரண்டாம் ஆண்டு

Course Outcomes : படைப்பாற்றலை ஊக்குவித்து மொழி ஆளுமையையும் தனித்திறனையும் வளர்த்தல்

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	அலகு-1 காப்பியங்கள் வழியே மனித மரபுகளை உணர்த்தி சீரான மனப்போக்கினை ஏற்படுத்துதல்,	நினைவுப்படுத்தல்	கருத்தியல் திறன்	Component 1
CO2	அலகு-2 நேர்மறை சிந்தனையோடு விளங்கும் கதாபாத்திரங்கள் மூலம் அறநெறியை அறிவுறுத்தல்	நினைவுப்படுத்தல்	கருத்தியல் திறன்	CIA
CO3	அலகு-3 வரலாற்று நிகழ்வுகளின் வழியே தமிழர்களின் பண்பாடு நாகரிகம் குறித்த அனைத்து அம்சங்களையும்	நினைவுப்படுத்தல்	கருத்தியல் திறன்	Component 2

	ஆராய்ந்து வெற்றிக் கொள்வதற்கான உணர்வுகளை அறிந்து, உலகியல் அறிவினை ஊட்டுதல்			
CO4	அலகு-4 உடல் மொழியின் நுட்பங்களை உணர்ந்து செயல்படும் முறைகளை அறிவுறுத்தல். நாடகத்தின் அமைப்பினை உணர்த்துதல்.	புரிதல்	பகுத்தறி தல் திறன்	DIA(Quiz)
CO5	அலகு-5 இலக்கணம், மொழித்திறன், படைப்பாக்கத் திறனை ஊக்குவித்து நாடகம் படைக்கும் திறன் அறிதல், சுயசிந்தனை அறிவாற்றலை வளர்த்தல் படைத்தல்	படைத்தல்	செயல் திறன்	Model

Programme	Course Code	Title
II MB,BT,Maths,Eng.Psy	19TLU04	தமிழ் IV

Preamble : மாணவர்களுக்கு மரபுச் சார்ந்த சமுதாய வாழ்வினையும், பண்பாட்டையும் அறியச் செய்து, குறிக்கோளுடன் வாழ்வதற்கேற்ற திறன்களை வளர்த்து வாழ்விற்கு அடிப்படையான மனவெழுச்சியினைத் தூண்டி மனித வாழ்வினை மேம்படுத்தும் அறநெறி கருத்துகளைக் கற்பித்தல்.

Expected level of output : பன்முகஅறிவு

Department offered : மொழித்துறை (தமிழ்)

Prerequisites : இளநிலை இரண்டாம் ஆண்டு

Course Outcomes : மனவெழுச்சியினைத் தூண்டி மனித வாழ்வினை மேம்படுத்தும் அறநெறி கருத்துகளைக் கற்பித்தல்.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	அலகு - 1 புராணங்கள் வழியே தமிழரின் நெறி தவறாத வாழ்வு, நீதி பிறழாத ஆட்சிமுறை மற்றும் தமிழர் தம் பெருமையினை அறியலாம்.	புரிதல் (Understanding)	கருத்தியல் திறன் (Conceptual) ;	Component 1
CO2	அலகு - 2 புலவர்களின் இலக்கிய புலமையினையும், நன்நெறிக் கருத்துக்கள் மற்றும் மொழி ஆளுமையினை அறியலாம்.	நினைவுப்படுத்தல் (Remembering)	கருத்தியல் திறன் (Conceptual);	CIA
CO3	அலகு - 3 நாட்டுப்புற மக்களின் நாகரிகம், பண்பாடு, கலாச்சாரம் மற்றும் நாட்டார் வழக்காற்றியலை அறிந்து கொள்ளுதல்.	நினைவுப்படுத்தல் (Remembering)	பகுத்தறிதல் திறன் (Analytical)	Component 2
CO4	அலகு - 4 இருபதாம் நூற்றாண்டு தமிழ்	புரிதல் (Understanding)	கருத்தியல் திறன்	DIA(Quiz)

	அறிஞர்கள், படைப்புகள், சமயக் கொள்கைகள் மற்றும் மொழி வளர்ச்சியினை அறியலாம்.		(Conceptual);	
CO5	அலகு - 5 இலக்கணம், மொழித்திறன், படைப்பாக்கத் திறனை ஊக்குவித்து உரைநடை தோற்றம் அறிதல், சுயசிந்தனை அறிவாற்றலை வளர்த்தல்	**படைத்தல்** (Creating)	**செயல் திறன்** (Competitive)	Model

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Programme	Course Code(s)	Title
II MB,II ENG, II BT, II MATHS,II PSYCOLOGY	**19HLU03**	**HINDI III**

Preamble : The students will get a wide knowledge in Hindi Literature.

Expected Level of Output : Conceptual Level

Department offered : Languages(Hindi)

Prerequisites : The second language of students should be Hindi in 12th standard

Course Outcomes : To make students know the contribution of hindi writers,hindi literature,old poets and new poets

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	To gain knowledge of Hindi old poets and new poets. Their style of writing. To understand poetic language, Figurative language and derive aesthetic pleasure	Understanding	Conceptual	Group assignment
CO2	To understand the conversational language, style of New poem Writing, nuances and Methodologies in writing an poem.	Remembering	Conceptual	Group assignment
CO3	To savour and relish the taste of the Hindi literature. To understand the Trends of hindi literature in the olden and the modern age. characterization of the story by the story writers.	Analyzing	Analytical	Demonstration
CO4	To know the different trends in bhakthikal,adhikal and rithikal	Analyzing	Analytical	Poster presentation
CO5	To develop writing skills like comprehension passage,essay writingand proverb writing in students.	Analyzing	Analytical	Writing Skill

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Programme	Course Code(s)	Title
IIMB,IIBT,IIENG,II MATHS,II PSYCOLOGY	19HLU04	HINDI IV

Preamble : The students will get a wide knowledge in Hindi Literature.

Expected Level of Output : Conceptual Level

Department offered : Languages(Hindi)

Prerequisites : The second language of students should be Hindi in 12th standard

Course Outcomes : To make students know the contribution of hindi writers,hindi literature, old poets and new poets

Sl. No.	Description	Verb	Skill	CIA -Cap stone
CO1	To gain a knowledge in Hindi Dramasespecially old dramas. The different trends in dramas, the language used. .	Understanding	Conceptual	Group assignment
CO2	To understand the conversational language, style of dramas, nuances and methodologies in writing a drama.	Remembering	Conceptual	Group assignment
CO3	To savour and relish the taste the one act play world. To understand the making of one act plays.	Analyzing	Analytical	Demonstration
CO4	To understand the techniques of Hindi language and poem writing. To get well trained in writing poems in hindi.	Understanding	Analytical	Poster presentation
CO5	To develop writing skills like comprehension passage,spoken hindi and proverb writing and essay writting in hindi.	Analyzing	Analytical	Writing Skill

Programme	Course Code	Title
II Years B.Sc., (Psy, MB, BT, Maths) B.A. English, TTM	**19FLU03**	**French III**

Preamble : Aims at the acquisition of the French language competences described in

A2. 2nd level of the Common European Framework of Reference for Languages (CEFR).

Expected level of output : Conceptual Level

Department offered : Language

Prerequisites : French II level

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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To help the students to express their opinions.	Remembering	Conceptual	Technical Presentation
CO2	To make the students to express their emotion and feelings.	Understanding	Conceptual	
CO3	To express one's perceptions and ideas and also to make the critics.	Analyzing	Analytical	Group Assignments
CO4	To understand the announces and to ask the details of the programs	Remembering	Analytical	Writing Skills
CO5	To make reservations and to communicate with the agencies.	Applying	Conceptual	Poster Presentation Or Flow Charts Or Miniatures Or Protocols

Programme	Course Code	Title
II Years B.Sc., (Psy, MB, BT, Maths) B.A. English, TTM	**19FLU04**	**French IV**

Preamble : Aims at the acquisition of the French language competences described in A2. 2nd level of the Common European Framework of Reference for Languages (CEFR).

Expected level of output : Conceptual Level

Department offered : Language

Prerequisites : French III level

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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To express one's perceptions and ideas and also to make the critics.	Remembering	Conceptual	Technical Presentation
CO2	To make the students to express their emotion and feelings.	Understanding	Conceptual	
CO3	To help the students to express their opinions.	Analyzing	Analytical	Group Assignments
CO4	To understand the announces and to ask the details of the programs	Remembering	Analytical	Writing Skills
CO5	To make reservations and to communicate with the agencies.	Applying	Conceptual	Poster Presentation Or Flow Charts Or Miniatures Or Protocols

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Programme	Course Code	Title
B. Sc BT / MB	20BSU02	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 understand about immune system.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO2	To understand the mechanism of activation in hypersensitive immune reaction	Understand	Conceptual	
CO3	To understand the role of the immune molecules in infectious diseases, autoimmunity and cancer	Understand	Conceptual	
CO4	The students will be able to identify the cellular and molecular basis of immune responsiveness.	Understand	Conceptual	

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Programme	Course Code	Title
B.Sc.Microbiology	20MBU06	Microbial Genetics

Preamble : To enrich the students with basic knowledge in genetic of microorganism

Expected Level of Output : Conceptual Level

Department offered : **Microbiology**

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 chemistry and molecular structure of DNA, RNA and concept of genetics in microbes	Understand	Conceptual	Class presentation
CO2	To understand the microbial DNA structurally and genetically. The mechanism of mutation and repair in DNA	Understand	Conceptual	Stimulation exercise
CO3	To understand the prokaryotic structure and the Mechanism controlling gene Expression.	Understand	Conceptual	Poster presentation
CO4	To understand the mechanism of mutation DNA repair and various DNA transformation methods	Understand	Conceptual	Self supporting assignment

Programme	Course Code	Title
B. Sc. Microbiology	20MBU07	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 identify the antigen and antibody reaction.

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	Stimulation Exercise
CO4	To gain knowledge on bacterial transformation and conjugation	Analyze	Analytical	Stimulation exercise

Programme	Course Code	Title
B. Sc BT / MB	20BSU03	rDNA Technology

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/Microbiology

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 understand the applications of different vectors in genetic engineering	Understand	Conceptual	Poster Presentation
CO3	To describe the expression of vector and its applications.	Understand	Conceptual	Stimulation Exercise
CO4	To describe the methods of gene transfers, technique involved in recombinant DNA technology and its applications.	Understand	Conceptual	Self Supporting Assignments

Programme	Course Code	Title
B. Sc BT / MB	20BSU05	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 : Basic Working Level

Department offered : Biotechnology/Microbiology

Prerequisites : Basic knowledge on Biology

Course Outcomes : After successful completion of this course, the students will be able to gain knowledge in blotting techniques.

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To isolate the DNA from various sources.	Analyze	Technical	Technical Presentation/ Demonstration
CO2	To perform PCR, restriction, digestion and ligation experiments.	Analyze	Technical	Attendance
CO3	To separate the protein mixture using SDS-PAGE.	Analyze	Technical	Stimulation Exercise
CO4	To understand about the different blotting techniques and conjugation and transformation	Understand	Technical	Stimulation Exercise

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Programme	Course Code	Title
B. Sc BT / MB	20BSU04	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 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	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 Phylogenetic	Understanding	Conceptual	Poster presentation

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Programme	Course Code	Title
B. Sc	20SEC01W	Diabetic Management

Preamble : To impart basic knowledge in diabetic management and its Control measures.

Expected Level of Output : Conceptual Level

Department offered : Bioscience

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 organs responsible for diabetes, issues types of diabetes.	Understand	Conceptual	Technical presentation
CO2	To understand the complications and family history associated with diabetes.	Understand	Conceptual	Group Assignment
CO3	To understand the different routes of diabetic management in elders.	Understand	Conceptual	Writing skills
CO4	To understand the concepts of work life balance related to diabetes and best practices to get rid of diabetes.	Understand	Conceptual	Poster presentation

Programme	Course Code	Title
B. Sc	20SEC01Y	Bio entrepreneurship

Preamble : To impart basic knowledge in entrepreneurship development and the importance of value added products.

Expected Level of Output : Conceptual Level

Department offered : Bioscience

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 activities and institutions involved in entrepreneurship development.	Understand	Conceptual	Technical Presentation
CO2	To understand the process involved in brewing and packaging industries.	Understand	Conceptual	Group Assignment
CO3	To understand the cultivation and importance of different mushrooms.	Understand	Conceptual	Writing skills
CO4	To understand the importance of Biofertilizers and its mass cultivation.	Understand	Conceptual	Poster Presentation

Programme	Course Code	Title
B. Sc	20SEC01Y	Basic Bioinformatics

Preamble : To understand biological data acquisition and analysis, Comparative and predictive analysis of DNA and protein Sequence.

Expected Level of Output : Basic Working 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 introduction and basic concepts of bioinformatics.	Understand	Conceptual	Technical Presentation
CO2	To understand the complications challenges associated with data exchange and search engines.	Understand	Conceptual	Group Assignment
CO3	To understand the biological databases and their significance.	Understand	Conceptual	Writing skills
CO4	To understand the research institutions and arenas of research in bioinformatics.	Understand	Conceptual	Poster presentation

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Programme	Course Code	Title
B.Sc Psychology	**20PSU07**	**DSC-V: Social Psychology**

Preamble : Psychology students should have an in-depth knowledge in social factors that influence human behavior.

Expected Level of Output : Conceptual Level

Department Offered : Psychology

Prerequisite : Higher Secondary Level

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To acquire knowledge about the fields of social psychology and social cognition	Understand	Conceptual	Writing skill
CO2	To understand the information used in the perception of others and self and the concept of attribution	Understand	Conceptual	Group Assignment
CO3	To understand about the formation of attitude and prejudice.	Understand	Conceptual	Group Assignment
CO4	To acquire knowledge about the process of interpersonal attraction, close relationships and understand the concept of social influence	Understand	Conceptual	Writing skill
CO5	To understand the concept Prosocial behavior, aggression and behavior in groups.	Understand	Conceptual	Poster Presentation/Flowchart/ Miniature/Protocol

Programme	Course Code	Title
B.Sc Psychology	**20PSU08**	**DSC-VI : 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 Outcome	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.	Understand	Conceptual	Writing skill
CO5	The importance of work environment and the concept of ergonomics.	Understand	Conceptual	Group Assignment

Programme	Course Code	Title
B.Sc Psychology	**20PSU09**	**DSC Practical-III: Social and Industrial Assessments**

Preamble : To disseminate the concepts in specific core areas and their practical assessment techniques

Expected Level of Output : Analytical Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn the concepts in the selection process of industrial assessment	Analyze	Analytical	Technical Presentation/ Demonstration
CO2	Learn to know the practical assessment tools applied in the industrial setup	Analyze	Analytical	Simulation exercises
CO3	Learn the symptoms of the clinical disorders with its associated assessment	Analyze	Analytical	Technical Presentation/ Demonstration
CO4	Learn to assess the behavioural pattern of the individual	Analyze	Analytical	Simulation exercises
CO5	Learn to assess the influence of physical health on mental health	Analyze	Analytical	Technical Presentation/ Demonstration

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Programme	Course Code	Title
B.Sc Psychology	20GEU79	GEC: III Research method and Statistics

Preamble : Psychology students know about the scientific approach, problems, hypothesis, sampling, research design, data collection, analyses, report writing and ethical issues in research.

Expected Level of Output : Understanding

Department Offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the meaning, process and types of research, Hypothesis. Understand the meaning and Definition Statistics	Understand	Conceptu al	Writing Skill
CO2	To understand the Measurement , the Various data collection techniques,the important criteria of report writing and ethical issues in research.	Understand	Conceptual	Group Assignment
CO3	To gain knowledge the about statistics and its importance in psychological application.To understand the concept of skewness and the Purpose of Measures of Central Tendency, concept of variability.	Understand	Analytical	Class Presentation / Technical Presentation/ Demonstratio n
CO4	To understand the purpose and assumptions of Analysis of variance and its computation.	Understand	Analytical	Model
CO5	To understanding the use of SPSS software, independent sample t-test,Oneway anova,Correlation Chisquare Test	Understand	Analytical	Demonstratio n/Model

Programme	Course Code	Title
B.Sc. Psychology	20PSU10	DSC- VII: Abnormal Psychology I

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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To 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	To analyze the views of sexual behaviours, disorders, personality disorders and its treatment	Understand	Conceptual	Poster Presentation/ Flowchart/ Miniature/Protocol

Programme	Course Code	Title
B.Sc. Psychology	**20PSU11**	**DSC – VIII - Marketing and Consumer Behaviour**

Preamble : Psychology students should have basic knowledge in concepts of Marketing and Consumer behaviour.

Expected Level of Output: Conceptual Level

Department Offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand the nature of marketing and consumer behaviour	Understand	Conceptual	Writing skills
CO2	Understand the concept of marketing environment and marketing segmentation	Understand	Conceptual	Group Assignment
CO3	Acquire knowledge Consumer needs, motives and characteristics	Understand	Conceptual	Group Assignment
CO4	Gain knowledge about the developmental strategies of products and its promotion	Apply	Application	Writing skill
CO5	Know about Consumer decision making process and the influence of opinion leaders on consumer behaviour	Apply	Application	Group Assignment

Programme	Course Code	Title
B.Sc. Psychology	20PSU12	DSC Practical - IV: Clinical and Health Assessments

Preamble : To disseminate the concepts in specific core areas and their practical assessment techniques

Expected Level of Output : Analytical Level

Department offered : Psychology

Prerequisites : Higher Secondary Level

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Learn to know the practical assessment tools applied in the industrial setup.	Analyze	Analytical	Technical Presentation/ Demonstration
CO2	Learn the concepts of motivation and job satisfaction using industrial assessment.	Analyze	Analytical	Simulation exercises
CO3	Learn to assess the behaviours that requires clinical assistance	Analyze	Analytical	Technical Presentation/ Demonstration
CO4	Learn to assess the behavioural pattern of the individual.	Analyze	Analytical	Simulation exercises
CO5	Learn to assess and categorize the different types of human personality.	Analyze	Analytical	Technical Presentation/ Demonstration

Programme	Course Code	Title
B.Sc. Psychology	20GEU80	GEC - IV: 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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To acquire knowledge about the health and its importance.	Understand	Conceptual	Writing skills
CO2	To acquire knowledge about the health belief and importance of being healthy.	Understand	Conceptual	Group Assignment
CO3	To understand the health enhancement and compromising behavior.	Understand	Conceptual	Group Assignment
CO4	To acquire knowledge about stress and pain management	Understand	Conceptual	Writing skill
CO5	To understand the methods of managing chronic Illness and its effects.	Understand	Conceptual	Poster Presentation/ Flowchart/ Miniature/ Protocol

Programme	Course Code	Title
B.Sc. (ECS)	**20ECU07**	**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 Mapping	Capstone Evaluation
CO1	Learn the basic concepts of electromagnetic wave radiation and propagations.	Remembering	Conceptual	Writing skills/SSA
CO2	Understand important and fundamental antenna engineering parameters and terminology.	Understanding	Conceptual	CIA
CO3	Understand AM and single sideband modulation techniques.	Understanding	Conceptual	Class/ Technical Presentation
CO4	Understand angle and frequency modulation techniques.	Understanding	Conceptual	DIA (Quiz)
CO5	Design and analyze performance of the Super Heterodyne receiver.	Analyzing	Analytical	Model

Programme	Course Code	Title
B.Sc. (ECS)	20ECU08	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 Mapping	Capstone Evaluation
CO1	Understand the various IC fabrication process.	Understanding	Conceptual	Writing skills/SSA
CO2	Describe the characteristics, linear and nonlinear application of operational amplifier.	Understanding	Conceptual	CIA
CO3	Develop the ability to analyze and design the Timer and PLL based linear circuits.	Analyzing	Analytical	Class/ Technical Presentation
CO4	Understand the concepts and working principles of electronic instruments.	Understanding	Conceptual	DIA (Quiz)
CO5	Understand the basic manufacturing processes related to electronic products	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Sc. (ECS)	**20ECU09**	**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 Mapping	Capstone Evaluation
CO1	Recall the different number systems.	Remembering	Conceptual	Writing skills/SSA
CO2	Understand the Boolean expressions and Logic gates.	Understanding	Conceptual	CIA
CO3	Analyze the Combinational building blocks.	Analyzing	Analytical	Class/ Technical Presentation
CO4	Gain the capability of implementing various counters, registers and flip-flop based systems.	Analyzing	Analytical	DIA (Quiz)
CO5	Describe the operation of ADC and DAC circuits.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Sc. (ECS)	20ECU10	Linear Integrated Circuits Lab

Preamble: This course provides the fundamental knowledge in the selection of integrated circuits, study its specifications, 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 Mapping	Capstone Evaluation
CO1	Demonstrate an understanding of fundamentals of integrated circuits.	Understanding	Conceptual	CIA Test
CO2	Design an application with the use of integrated circuits.	Applying	Technical	Miniatures/ Models

Programme	Course Code	Title
B.Sc. (ECS)	**20ECU11**	**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 Mapping	Capstone Evaluation
CO1	Acquire the fundamental knowledge in basic logic gates.	Understanding	Conceptual	CIA Test
CO2	Design and analyze digital electronic circuits.	Applying	Technical	Miniatures/ Models

Programme	Course Code	Title
B.Sc. (ECS)	20ECU12	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 Mapping	Capstone Evaluation
CO1	Understand the theory of microwave and fiber optic communication.	Understanding	Conceptual	Writing skills/SSA
CO2	Discuss the working of microwave amplifiers, oscillators and devices.	Understanding	Conceptual	CIA
CO3	Design and analyze the microwave amplifiers, oscillator and devices.	Analyzing	Analytical	Class/ Technical Presentation
CO4	Understand the basics of Radar technology.	Understanding	Conceptual	DIA (Quiz)
CO5	Describe the different characteristics of optical fiber.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Sc. (ECS)	20ECU13	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)	**20ECU14**	**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 basic concepts of guided and unguided medium for data communication and Enumerate the layers of the OSI and TCP/IP reference model.	Understanding	Conceptual	Writing skills/SSA
CO2	Recognize basic functions of data link layer.	Understanding	Conceptual	CIA
CO3	Understand the basic functions of Medium Access Sub layer and wireless broadband communication concepts.	Understanding	Conceptual	Poster Presentation
CO4	Understand the basic functions of network layer and the congestion control mechanism.	Understanding	Conceptual	DIA (Quiz)
CO5	Express the basic concepts of transport and application layer.	Applying	Technical	Model

Programme	Course Code	Title
B.Sc. (ECS)	20ECU15	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	CIA Test
CO2	Apply the knowledge on design techniques and study the performance behavior of communication systems.	Applying	Technical	Miniatures/ Models

Programme	Course code	Title
B.Sc. (ECS)	**20ECU16**	**8051 Microcontroller and Applications Lab**

Preambles: 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	CIA Test
CO2	Enrich their knowledge with hands on experiments and project based learning.	Applying	Technical	Technical Presentation / Demonstration

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Programme	Code	Title
B. Sc (CS)/ B.Sc (IT)/ B.Sc (CT)/ /CA/B.Sc. (CSA)/B. Sc (DS)	**20CSS07**	**DSC V- Operating System**

Preamble : This course provides students with a basic understanding in various system resources, Process management and functions operating systems. It enables students to solve operating system problems

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology / Computer Applications /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	Learn the fundamentals of operating system	Understand	Communication Skills	Class Presentation
CO2	Learn the mechanisms of operating system to handle the file system	Remember	Competitive Skills	CIA
CO3	Understand the mechanisms of operating system to handle processes and their communication	Understand	Managerial Skills	Self-Support Assignment
CO4	Study and analyze concept relating to asynchronous concurrent processes and deadlock	Analyze	Competitive Skills	DIA(Quiz)
CO5	Analyze the mechanisms of operating system to handle memory management techniques and their allocation	Analyze	Competitive Skills	Model

Programme	Code	Title
B.Sc. (CS) / B.Sc. (IT) / B.Sc. / BCA / B.Sc. (CSA) / SS	20CSS08	DSC VI- Java Programming (CT)

Preamble : This course provides students with a basic understanding on Java programming concepts and its applications. It enables students to solve applications using java.

Expected level of output : Conceptual Level

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

Prerequisites : Knowledge in Basic OOPS 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 Java programming languages.	Understand	Communication Skills	Class Presentation
CO2	Able to explore the concept of Arrays, Class Design, Advanced Class Features, Exception and Assertions,	Analyze	Competitive Skills	CIA
CO3	Able explore the concept Collection and Generics Framework, I/O Fundamentals, Console I/O, File I/O and Threads Fundamentals	Analyze	Analytical Skills	Simulation Exercises
CO4	Able to relate the concepts of Fork-Join Framework, Parallel Streams and Building Database Applications with JDBC:	Apply	Competitive Skills	DIA(Quiz)
CO5	Able to narrate the concepts of Localization and Oracle Cloud	Apply	Competitive Skills	Model

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Programme	Course Code	Title
B. Sc (IT), B.Sc. (DS)	**20CSS09**	**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 /Data Science

Prerequisites : Basic Mathematical 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	Understand how machine learning is used to solve problems in real world and what are the key libraries in Python and their purpose	Understand	Technical Skills	Poster Presentation
CO2	Understand the concept of descriptive analytics. Learn to load structured data onto Data Frame and perform exploratory data analysis	Understand	Competitive skills	CIA
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	Competitive skills	DIA(Quiz)
CO5	Learn to build logistic regression and decision tree models using the Python package stats model and sklearn APIs	Apply	Communication Skills	Model

Programme	Course Code	Title
B.Sc. (CS)/ B.Sc. (IT)/ B.Sc. (CT)/ BCA/B.Sc. (CSA)/ B.Sc. (SS)	**20CSS11**	**DSC Practical-III Practical-Programming Lab – JAVA**

Preamble: This Practical / Laboratory course is designed to provide the students with the knowledge to use Java programming. In addition, the students will learn how to use applications with Java programming

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Applications / Computer Science and Applications / 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	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Analytical Skills	Simulation Exercises
CO2	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Application Development

Programme	Course Code(s)	Title
B. Sc (IT)/B.Sc. (DS)	20CSS12	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, Data Science

Prerequisite : Knowledge in Basic Mathematical concepts

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	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	Communication Skills	Class Presentation
CO2	Understand the concept of simple and multiple linear regression. Classification and its applications in predictive analytics	Understanding	Technical Skills	Technical Presentation

Programme	Course Code	Title
B.Sc. (IT)/B.Sc. (CT)/ B.Sc. (CSA	20CSS14	DSC-VIII - Data Communication and Networks

Preamble: Students must possess knowledge about basic concepts of data communications networks. It enables the students to gain the working knowledge of data transmission, understanding the operation of all seven layers of OSI Model and the protocols used in each layer.

Expected level of output : Conceptual Level

Departments offered : Information Technology / Computer Technology / Computer Science and Application

Prerequisites : Knowledge in Basic 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	Remember the data communication networking concept, mode of Transmission	Remember	Communication Skills	Writing skills
CO2	Able to understand the Data Communication Networking and Multiplexing, Transmission Media.	Understand	Competitive Skills	CIA
CO3	Able to understand the idea on Network Topologies, Switching, Router and Routing Algorithm, OSI Model	Understand	Technical Skills	Technical presentation
CO4	Able to evaluate the concepts LAN, MAN, WAN, Internetworking Concepts, Devices	Apply	Competitive Skills	DIA(Quiz)
CO5	Able to understand the concept of Internal Architecture of an ISP, DSL, TCP/IP	Understand	Competitive Skills	Model

Programme	Course Code	Title
B. Sc (IT)	20ITU03	Social Media Mining and Analytics

Preamble : This course provides students with a basic understanding of social media, network models of social network, datamining, community analysis, recommendations in media ad behavior analysis.

Expected level of output : Conceptual Level

Department offered : Information Technology

Prerequisites : Knowledge in social media, basic network

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 basics of social media and graph essentials	Understand	Technical Skills	Technical Presentation
CO2	Understand how network and their models used in social media	Understand	Competitive skills	CIA
CO3	Apply data mining and its need in social media with algorithms	Apply	Communication Skills	Writing Skill
CO4	Apply different communities involved in social media and recommendations	Apply	Competitive skills	DIA(Quiz)
CO5	Apply and analyse different behaviours on social media	Apply	Competitive skills	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)	**20CSS17**	**DSC - X – Database Management System using Oracle**

Preamble: This course provides students with a basic understanding about Database, Oracle 12c and PL/SQL. It enables students to solve SQL Queries.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Application / Computer Science And Application / System Software

Prerequisites : Knowledge in 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	Remember the basic concepts of Database, the models used to represent database and to design the database using Normalization	Remember	Communication Skills	Class Presentation
CO2	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	Competitive Skills	CIA
CO3	Understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical Skills	Simulation Exercises
CO4	Apply and enhance the ability in program objects and PL/SQL.	Apply	Competitive Skills	DIA(Quiz)
CO5	Apply and enhance the knowledge in exceptions, stores procedures, triggers and event handling.	Apply	Competitive Skills	Model

Programme	Course Code	Title
B.Sc. (CS)/ B.Sc. (IT)/ B.Sc. (CT)/ B.C.A/ B.Sc. (CSA)/B.Sc. (SS)	20CSS18	DSC Practical V Practical - Programming Lab – Visual Basic and Oracle

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use database. In addition, the students will learn how 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 : Knowledge about 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. Recognize the use of joins and sub queries in Oracle	Understand	Communication Skills	Class Presentation
CO2	Apply the Concept of Control Structure in Procedural Language for Structure Query Language (PL/SQL).Apply the concept of Database Connection	Apply	Technical Skills	Technical Presentation

Programme	Course Code	Title
B.Sc. (CS)/B.Sc. (IT)/B.Sc. (CT) /B.C. A/B.Sc. (CSA)/B.Sc. (SS)	**20CSS19**	**DSC Practical-VI Practical-Programming Lab – Software Testing using Selenium**

Preamble **:** This Practical / Laboratory course is designed to provide the students with the knowledge to use automated web-based applications. In addition, the students will learn how to understand basics of selenium.

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 basic 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 Web driver and linking concepts	Understand	Communication Skills	Class Presentation
CO2	synchronize the test using implicit and explicit wait using parameters, pop-up windows and forms	Apply	Technical Skills	Technical Presentation

Programme	Course Code	Title
B.Com	20CUG06	Corporate Accounting

Preamble : Commerce students should have basic knowledge of corporate accounting 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 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	CIA -I
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	Case study
CO4	To Understand the concept	Understanding	Analytical	DIA-QUIZ

	of amalgamation, absorption and reconstruction and 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	Model Exam

Programme	Course Code	Title
B.Com	20CUG07	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 be able 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	Poster Presentation
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	CIA Test
CO3	Able to understand Source of finance, Classification-needs for source of finance , Capital Structure ,Importance, Optimal Capital Structure, Theories of Capital Structure,	Understanding	Conceptual	Group Assignment

	net income and operating Approach .			
CO4	Able to understand Capital budgeting Process, Methods of Capital budgeting, Traditional and Time – adjusted Methods.	Applying	Conceptual	DIA
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	Model Exam

Programme	Course Code	Title
B.Com	20CUG08	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 be able 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	Class Presentation
CO2	To know about the planning process and tools of management.	Understanding	Conceptual	CIA Test
CO3	To understand in detail about organizing process in management structure.	Understanding	Conceptual	Self Support Assignment
CO4	To know the directing and motivational techniques in management.	Understanding	Conceptual	DIA
CO5	To understand about controlling and budgetary techniques in management.	Understanding	Conceptual	Model Exam

Programme	Course Code	Title
B.Com	20CUG09	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 be able 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	Class Presentation
CO2	To understand the enterprises with share capital, size of the share capital and key managerial personnal of the company.	Remembering	Conceptual	CIA Test
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	Self-Support Assignment
CO4	To understand the corporate governance and wealth creation management with distribution. Company secretary functions and	Understanding	Conceptual	DIA

	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	Model Exam

Programme	Course Code	Title
B. Com	20CUG10	Spreadsheet - Practical

Preamble : This Practical course is designed to provide the students with the 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 : 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 prepare Income Statement	Understanding	Conceptual	Technical presentation
CO2	Able to analyse the Ratio analysis, present value and future value of cash flows through Time Value of money	Analysing	Technical	CIA
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	Class presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Class presentation
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	Model Exam

Programme	Course Code	Title
B. Com	20GEU54	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 be able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Class Presentation/ Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	CIA
CO3	Students can be familiar with production function	Understanding	Conceptual	DIA (Quiz)
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills/Self Support Assignment
CO5	Students able to take price and output decisions under different market structures	Understanding	Conceptual	Model

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Programme	Course Code	Title
B.Com	20CUG11	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 : 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 the basic concepts of cost accounting and details the Installation, Methods and Techniques of cost accounting and cost analysis	Understand	Conceptual	Poster presentation
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	CIA
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Case study
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	DIA(Quiz)
CO5	Able to learn and apply	Apply	Analytical	Model Exam

	Process costing, Joint products and by-products and Reconciliation of cost and financial accounts			

Programme	Course Code	Title
B.Com	20CUG12	Management Accounting

Preamble : This course provides students with a basic understanding of Management Accounting. It enables students to solve Management Accounting.

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 nature and scope of Management accounting and Types of Financial Statement Analysis.	Understanding	Conceptual	Poster presentation
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	CIA
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Case study
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	DIA(Quiz)
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Model

Programme	Course Code	Title
B.Com	20CUG13	Goods and Services Tax

Preamble : To provides fundamental knowledge about goods and services 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 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	CIA
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Self-support Assignment
CO4	To know the Input tax credit under GST	Understanding	Conceptual	DIA
CO5	Students able to know about E- way bill and GST portal	Understanding	Conceptual	Model Exam

Programme	Course Code	Title
B. Com	20CUG14	Computerized Accounting - Practical

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Digitized Accounting. In addition, the students will learn how to use this in practical

Expected level of output: Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Digitized accounting

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. Backup and restore of data	Apply	Understanding	Class 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	Class Presentation
CO3	To understand the godown entries for the various goods and various location of the	Apply	Understanding	CIA

	country, cost/ profit center management and preparation of Bank account statement with creditors 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	Technical presentation
CO5	To Prepare Budgets and Controls Management , payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Technical presentation
CO6	To Generate GSTR 1 , 2 , 3B and 4, Reports and TDS Report	Apply	Analytical	Model Exam

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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.ComBI/B.Com E.Com/ B.Com BA/B.Com (CS)	**20CUG06**	**Corporate Accounting**

Preamble : Commerce students should have basic knowledge of Corporate accounting 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 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	CIA -I
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	Case study
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	DIA-QUIZ
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	MODEL EXAM

Programme(s)	Course Code(s)	Title
B.Com/B.Com(AF)	20CUG07	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, 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	Poster Presentation
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	CIA Test
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	DIA
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	Model Exam

Programme	Course Code(s)	Title
B.Com/B.Com(A&F)/B.COM/CS	20CUG08	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:

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	Class Presentation
CO2	To know about the planning process and tools of management.	Understanding	Conceptual	CIA Test
CO3	To understand in detail about organizing process in management structure.	Understanding	Conceptual	Self-Support Assignment
CO4	To know the directing and motivational techniques in management.	Understanding	Conceptual	DIA
CO5	To understand about controlling and budgetary techniques in management.	Understanding	Conceptual	Model Exam

Programme	Course Code(s)	Title
B.Com /B.Com(CA)/ B.Com (A&F)/ / B.Com(BI) /B.Com BPS/B.Com CM/ B.Com(CS)	**20CUG09**	**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:

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	Class Presentation
CO2	To understand the enterprises with share capital, size of the share capital and key managerial personnal of the company.	Remembering	Conceptual	CIA Test
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	Self-Support Assignment
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	DIA
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	Model Exam

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Programme	Course Code	Title
B.Com/B.Com(PA)/B.Com (BPS)/ B.Com(A&F)	20CUG10	Spreadsheet - Practical

Preamble : This Practical course is designed to provide the students with the 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 : 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 prepare Income Statement	Understanding	Conceptual	Technical presentation
CO2	Able to analyze the Ratio analysis, present value and future value of cash flows through Time Value of money	Analyzing	Technical	CIA
CO3	Able to estimate the share price, Risk Adjusted Rate and Capital Rationing.	Remembering	Conceptual	CLASS presentation
CO4	Understanding of inventory management and credit policy	Understanding	Conceptual	Class presentation
CO5	Able to understand the Leverage and Capital structure	Understanding	Conceptual	MODEL

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)	**20GEU54**	**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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Class Presentation/ Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	CIA
CO3	Students can be familiar with production function	Understanding	Conceptual	DIA (Quiz)
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills/Self Support Assignment
CO5	Students able to take price and output decisions under different market structures	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 (CS)	20CUG11	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 : 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 the basic concepts of cost accounting and details the Installation, Methods and Techniques of cost accounting and cost analysis	Understand	Conceptual	Poster presentation
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	CIA
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Case study
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	DIA(Quiz)
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	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 (CS)	20CUG12	Management Accounting

Preamble : This course provides students with a basic understanding of **Management Accounting**. It enables students to solve **Management Accounting**

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

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	Poster presentation
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	CIA
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Case study
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	DIA(Quiz)
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Model

Programme	Course Code	Title

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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 (CS)	20CUG14	Computerized Accounting - Practical

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Digitized Accounting. In addition, the students will learn how to use this in practical.

Expected level of output : Conceptual Level

Department offered : **Commerce**

Prerequisites : Knowledge in Digitized accounting

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

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. Backup and restore of data	Apply	Understanding	Class 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	Class Presentation
CO3	To understand the godown entries for the various goods and various location of the country, cost/ profit center management and preparation of Bank account statement with creditors and debtors.	Apply	Understanding	CIA
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	Technical presentation
CO5	To Prepare Budgets and Controls Management, payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Technical presentation
CO6	To Generate GSTR 1, 2, 3B and 4, Reports and TDS Report	Apply	Analytical	MODEL

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Programme	Course Code	Title
B.Com (A&F)	**20CFU02**	**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 able to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Able to understand the basic concepts of direct taxes	**Remembering**	**Conceptual**	**Class Presentation**
CO2	Able to compute the income from salaries and house property	**Understanding**	**Applying**	**CIA**
CO3	Able to compute income under the head profit and gains of business or profession, capital gains and income from other sources	**Understanding**	**Applying**	**DIA**
CO4	Able to compute total income and tax liability	**Understanding**	**Applying**	**Class Presentation**
CO5	Able to know about the tax authorities and Assessment of tax	**Understanding**	**Applying**	**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.ComBI/B.Com E.Com/ B.Com BA/B.Com (CS)	**20CUG06**	**Corporate Accounting**

Preamble : Commerce students should have basic knowledge of Corporate accounting 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 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	CIA -I
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	Case study
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	DIA-QUIZ
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	MODEL EXAM

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Programme(s)	Course Code(s)	Title
B.ComCA/B.ComIT/ B.Com(E-Com)/B.Com CS	20CUG41	Cyber Law

Preamble :To initiate the students to learn about Cyber Law.

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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To Understand the meaning of cyber law and cyber space	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To be aware of cybercrime investigation	Remembering	Conceptual	CIA Test
CO3	To understand the concepts of jurisdiction	Understanding	Conceptual	Group Assignment
CO4	To understand e – contracts and its types	Understanding	Conceptual	Group Discussion
CO5	To understand Employment Contracts Consultant Agreements	Understanding	Conceptual	Model Exam

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Programme	Course Code(s)	Title
B.Com/B.Com(A&F)/B.COM/CS	20CUG08	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 the 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	Class Presentation
CO2	To know about the planning process and tools of management.	Understanding	Conceptual	CIA Test
CO3	To understand in detail about organizing process in management structure.	Understanding	Conceptual	Self-Support Assignment
CO4	To know the directing and motivational techniques in management.	Understanding	Conceptual	DIA
CO5	To understand about controlling and budgetary techniques in management.	Understanding	Conceptual	Model Exam

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Programme	Course Code(s)	Title
B.Com /B.Com(CA)/ B.Com (A&F)/ / B.Com(BI) /B.Com BPS/B.Com CM/ B.Com(CS)	20CUG09	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 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	Class Presentation
CO2	To understand the enterprises with share capital, size of the share capital and key managerial personnal of the company.	Remembering	Conceptual	CIA Test
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	Self-Support Assignment
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	DIA
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	Model Exam

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Programme	Course Code	Title
B.Com(CS)	20CST03	Workshop on Corporate Practice

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use communication used in the Business. In addition, the students will learn how to draft basic correspondence used in corporates.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Commerce

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 significance of Inter-department Communication and understand the format of an Office Circular, Office Orders and Notes and also understand the skill of drafting the business letters inside the organization.	Understanding	Analytical	Self Support Assignment
CO2	To understand the skill of drafting letters to the Press regarding Official Meetings and also equipping with the skill of drafting Minutes and Agenda for Office Meetings	Understanding	Analytical	Class Presentation
CO3	To understand the procedure for drafting all letters pertaining to Business Correspondence like Order Letter, Enquiry Letter, Complaint and Recovery Letters.	Understanding	Analytical	Class Presentation
CO4	To understand the procedure for drafting a Tender Quotation, Notices and drafting Rejecting Complaints	Understanding	Analytical	Self Support Assignment
CO5	To draft the procedure for the use of Social Media for advertising and brand image building	Understanding	Analytical	Self Support Assignment
CO6	To understand how to create a model for Image Creation in the websites	Understanding	Analytical	Self Support Assignment

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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)	**20GEU54**	**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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To know the managerial economics application for business decisions	Remembering	Conceptual	Class Presentation/ Technical Presentation
CO2	Capable to analysis the demand and forecasting	Understanding	Conceptual	CIA
CO3	Students can be familiar with production function	Understanding	Conceptual	DIA (Quiz)
CO4	Students can understand about Cost analysis	Understanding	Conceptual	Writing Skills/Self Support Assignment
CO5	Students able to take price and output decisions under different market structures	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 (CS)	20CUG11	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 : 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 the basic concepts of cost accounting and details the Installation, Methods and Techniques of cost accounting and cost analysis	Understand	Conceptual	Poster presentation
CO2	To Understand about the procedure for material control, Various inventory system, issue of materials and Material losses	Understand	Conceptual	CIA
CO3	Describe labour cost concepts such as treatment idle time and overtime, Calculation of Remuneration and incentives under different wage payment system.	Understand	Analytical	Case study
CO4	To Provide knowledge about various overhead classification and distribution and explain other methods of costing.	Understand	Conceptual	DIA(Quiz)
CO5	Able to learn and apply Process costing, Joint products and by-products and Reconciliation of cost and financial accounts	Apply	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 (CS)	20CUG12	Management Accounting

Preamble : This course provides students with a basic understanding of Management Accounting. It enables students to solve Management Accounting

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 nature and scope of Management accounting and Types of Financial Statement Analysis.	Understanding	Conceptual	Poster presentation
CO2	Understand different types of Ratios and its applicability in financial analysis.	Analysis	Conceptual	CIA
CO3	Familiarize the students with the concept of fund flow and cash flow statements and its preparations.	Understanding	Conceptual	Case study
CO4	Understand the application of Marginal costing technique in solving Management problems and to estimate the Working Capital Requirement.	Apply	Conceptual	DIA(Quiz)
CO5	Know the methods of preparing Different types of Budgets.	Understanding	Conceptual	Model

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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 (CS)	**20CUG14**	**Computerized Accounting - Practical**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Digitized Accounting. In addition, the students will learn how to use this in practical.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Digitized accounting

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. Backup and restore of data	Apply	Understanding	Class 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	Class Presentation
CO3	To understand the godown entries for the various goods and various location of the country, cost/ profit center management and preparation of Bank account statement with creditors and debtors.	Apply	Understanding	CIA
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	Technical presentation
CO5	To Prepare Budgets and Controls Management, payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Technical presentation
CO6	To Generate GSTR 1, 2, 3B and 4, Reports and TDS Report	Apply	Analytical	MODEL

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(BA)/B.Com(CS)	**20CUG13**	**Goods and Services Tax**

Preamble **:** To provides fundamental knowledge about goods and services tax
Expected Level of Output : Conceptual Level
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 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	CIA
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Self support Assignment
CO4	To know the Input tax credit under GST	Understanding	Conceptual	DIA
CO5	Students able to know about E- way bill and GST portal	Understanding	Conceptual	MODEL

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Programme	Course Code	Title
B.Sc.(CS)/ B.Sc.(IT)/ B.Sc.(CT)/ BCA/B.Sc.(CSA) / B.Sc.(DS)	20CSS07	DSC V- Operating System

Preamble : This course provides students with a basic understanding in various system resources, Process management and functions of operating systems. It enables students to solve operating system problems.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology/Computer Applications /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	Understand the hacking methodology	Understand	Technical Skills	Technical Presentation
CO2	Understand the foot printing concept and social engineering	Understand	Competitive skills	CIA
CO3	Understand port scanning, web application and its vulnerabilities	Understand	Analytical skills	Application Development
CO4	Analyze wireless authentication technology	Analyze	Competitive skills	DIA(Quiz)
CO5	Apply the process of hacking web services, wireless networks	Apply	Competitive skills	Model

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Programme	Course Code	Title
B.Sc DS	20DSU05	**DSC - VI:** Relational Database Management System

Preamble : This course provides students with a basic understanding About Database, SQL Queries, Normalization, Oracle 11g and PL/SQL. It also provides the students with an introduction to next generation databases NoSQL and PostgreSQL.

Expected level of output : Conceptual Level

Department offered : Data Science

Prerequisites : Basic 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	To Understand the basic concepts of Database, the Pros and Cons of DBMS and to design the database using Normalization	Remember	Communication Skills	Class Presentation
CO2	To understand about the Oracle 11g, different types of database queries such as DDL,DML,TCL and DCL.	Understand	Competitive Skills	CIA
CO3	To apply numerical and aggregate functions, joins, group by and set operators on the created set of tables.	Apply	Analytical Skills	Simulation Exercises
CO4	To apply and enhance the ability in program using PL/SQL stored procedures, functions, cursors, triggers and views	Apply	Competitive Skills	DIA(Quiz)
CO5	To understand the next generation databases such as NOSQL and Postgre SQL.	Understand	Competitive Skills	Model

Programme	Course Code	Title
B. Sc (IT), B.Sc (DS)	20CSS09	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/Data Science

Prerequisites : Basic Mathematical 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	Understand how machine learning is used to solve problems in real world and what are the key libraries in Python and their purpose	Understand	Technical Skills	Poster Presentation
CO2	Understand the concept of descriptive analytics. Learn to load structured data onto Data Frame and perform exploratory data analysis	Understand	Competitive skills	CIA
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	Competitive skills	DIA(Quiz)
CO5	Learn to build logistic regression and decision tree models using the Python package stats model and sklearn APIs	Apply	Communication Skills	Model

Programme	Course Code	Title
B.Sc DS	**20DSU06**	**DSC Practical - IV :** Practical - Programming Lab – SQL and PLSQL

Preamble : This Practical course is designed to provide the students with the knowledge to write SQL queries. In addition, the students will learn how to develop PL/SQL Blocks and Database Triggers.

Expected level of output : Conceptual Level

Department offered : Data Science

Prerequisites : Fundamental knowledge about 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 basic SQL Queries with Operators, Built in Functions, Subqueries and Joins	Understanding	Conceptual	Poster Presentation
CO2	Apply the Concept of Control Structure and Triggers in procedural Language Language(PL/SQL)	Apply	Managerial Skills	Self-Support Assignment

Programme	Course Code	Title
B.Sc DS	20CSS12	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, Data Science

Prerequisites : Knowledge in Basic Mathematical concepts

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	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	Communication Skills	Class Presentation
CO2	Understand the concept of simple and multiple linear regression. Classification and its applications in predictive analytics	Understanding	Technical Skills	Technical Presentation

Programme	Course Code	Title
B.Sc. Data Science	20SEC01K	SEC-I: Extra Departmental Course Practical – Advanced Spreadsheet for Data Scientists

Preamble : This Practical course is designed to provide the students with the knowledge to write VBA code in office calc. In addition, the students will learn how to design pivot tables, custom reports and integrate with SQL Database.

Expected level of output : Conceptual Level

Department offered : Data Science

Prerequisites : Knowledge in basics of office calc

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 method of writing VBA code in office calc.	Understanding	Conceptual	Class Presentation
CO2	Apply various steps for importing data from external databases.	Apply	Managerial Skills	Self-Support Assignment

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Programme	Course Code	*Title*
BCA / B.Sc (CS) / B.Sc (SS) / B.Sc (DS)	**20CSS15**	**Computer Networks**

Preamble : This course provides students with a basic understanding 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/ Data Science

Prerequisites : Knowledge in computer terminologies and message sharing

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 usage of computer networks, network software and network hardware and reference models.	Understand	Communication Skills	Class Presentation
CO2	Analyse the concept of Physical Layer and Data Link Layer	Analyze	Competitive Skills	CIA
CO3	Understand the concept of Network Layer and Different types of Routing Mechanism	Understand	Managerial Skills	Self Support Assignment
CO4	Analyze the concept of Transport Layers and its protocol	Remember	Competitive Skills	DIA(Quiz)
CO5	Understand the concept of Application and Presentation Layer and Apply	Apply	Competitive Skills	Model

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Programme	Course Code	Title
B.Sc(CSA)/B.Sc(DS)	20CSS16	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 Science and Applications/Data Science

Prerequisites : Basic understanding of software development process

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 concept of software engineering and process models.	Understand	Communication Skills	Class Presentation
CO2	Able to understand the concept of software testing, configuration and risks.	Understand	Competitive Skills	CIA
CO3	Able to understand the concept of agile software development approaches	Understand	Managerial Skills	Self Support Assignment
CO4	Able to apply the tools in agile software development approaches	Apply	Competitive Skills	DIA(Quiz)
CO5	Able to apply the Concept of principles and scenario of software development approaches under agile development	Apply	Competitive Skills	Model

Programme	Course Code	Title
B.Sc. Data Science	20DSU07	DSC X - R for Data Science

Preamble : This course provides students with a basic understanding of R and application of R tool for classification, clustering and data visualization techniques. It enables students to solve supervised and un-supervised techniques, regression and correlation techniques.

Expected level of output : Conceptual Level

Department offered : Data Science

Prerequisites : Knowledge in 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	Able to understand the method of working with data types and methods of importing and exporting data using R	Understand	Competitive Skills	CIA
CO2	Able to understand the working of Functions, control statements and data manipulation using R	Understand	Communication Skills	Class Presentation
CO3	Able to Apply the concepts of Reshaping data, basic statistics and data exploration in R	Apply	Managerial Skills	Technical Presentation
CO4	Able to Apply the concepts of Decision trees, time series analysis and clustering in R	Apply	Competitive Skills	DIA(Quiz)
CO5	Able to Apply the concepts of Descriptive analytics, Classification and basics of Big Data Analytics in R	Apply	Competitive Skills	Model

Programme	Course Code	Title
B.Sc. Data Science	**20DSU08**	**DSC Practical - VI :** Practical-Programming Lab : R for Data Science

Preamble : This Practical course is designed to provide the students with the knowledge to use R programming. In addition, the students will learn how to use R effectively for data analysis.

Expected level of output : Conceptual Level

Department offered : Data Science

Prerequisites : Knowledge in 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 R program with its Control structures, Vectors, Data Frames, Lists Matrices and Functions.	Understand	Conceptual	Class Presentation
CO2	Apply the concepts of Regression Model, Clustering Model, and Visualizations with the given datasets.	Apply	Analytical	Technical Presentation

Programme	Course Code	Title
B.Sc DS	**20DSU09**	**DSC Practical - VII :** Practical **-** Data Visualization Lab

Preamble **:** This Practical course is designed to provide the students with the knowledge of importing different types of data files . In addition, the students will learn how to create visualization charts and dashboards in any visualization tool.

Expected level of output **:** Conceptual Level

Department offered **:** Data Science

Prerequisites **:** Fundamental knowledge about 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 method of importing different types of data files in visualization environment	Understanding	Conceptual	Class Presentation
CO2	Apply the basic and advanced visualization tools and dashboards in any visualization tool.	Apply	Managerial Skills	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.ComBI/B.Com E.Com/ B.Com BA/B.Com (CS)	**20CUG06**	**Corporate Accounting**

Preamble : Commerce students should have basic knowledge of Corporate accounting 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 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	CIA -I
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	Case study
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	DIA-QUIZ
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	MODEL EXAM

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Programme(s)	Course Code(s)	Title
B.Com CA/B.Com IT/ B.Com(E-Com)/B.Com CS	20CUG41	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 : 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 cyber law and cyber space	Understanding	Conceptual	Class Presentation / Technical Presentation/ Demonstration
CO2	To be aware of cybercrime investigation	Remembering	Conceptual	CIA Test
CO3	To understand the concepts of jurisdiction	Understanding	Conceptual	Group Assignment
CO4	To understand e – contracts and its types	Understanding	Conceptual	Group Discussion
CO5	To understand Employment Contracts Consultant Agreements	Understanding	Conceptual	Model Exam

Programme	Course Code(s)	Title
B.Com (E-Commerce)	20CEU02	Networking Fundamentals

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 the ability to

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand network design and describe the various network topologies.	Understanding	Conceptual	Poster Presentation
CO2	To understand the network protocols, network software and local area network architectures	Understanding	Conceptual	CIA Test
CO3	To demonstrate features of Windows servers, NetWare and Linux servers and OSI Models of Networking.	Understanding	Conceptual	Writing skills/ Self Support Assignment / Report Writing
CO4	To analyse the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems.	Analyzing	Conceptual	DIA(Quiz)
CO5	Able to understand the Local Area Networks (LANs) &Wide Area Networks (WANs) and to identify the components used to expand a LAN into WAN.	Understanding	Conceptual	Model

Programme	Course Code(s)	Title
B.Com(BI)/B.Com(E-Com)/B.Com BA)	20CUG46	Cost and Management Accounting

Preamble : To familiarize the students with the Cost and Management 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

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 (E-Commerce)	20CEU03	E-Commerce Applications

Preamble : This course will assist students in developing the skills to understand the application of e-commerce in business.

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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To understand the techniques and application of E-commerce	Understanding	Conceptual	Poster Presentation
CO2	To analyse the concept of EDI and value added networks	Analyzing	Conceptual	CIA
CO3	To analyse the concept of business models and consumer oriented marketing	Analyzing	Conceptual	Case Study
CO4	To understand the concept of Electronic Payment system and web advertising	Understanding	Conceptual	DIA (QUIZ)
CO5	To understand the Legal Environment of E-Commerce	Understanding	Conceptual	MODEL

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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 (CS)	20CUG14	Computerized Accounting - Practical

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Digitized Accounting. In addition, the students will learn how to use this in practical.

Expected level of output : Conceptual Level

Department offered : Commerce

Prerequisites : Knowledge in Digitized accounting

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. Backup and restore of data	Apply	Understanding	Class 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	Class Presentation
CO3	To understand the godown entries for the various goods and various location of the country, cost/ profit center management and preparation of Bank account statement with creditors and debtors.	Apply	Understanding	CIA
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	Technical presentation
CO5	To Prepare Budgets and Controls Management, payroll statement for employees (BP, DA, HRA, PF, etc.,)	Apply	Analytical	Technical presentation
CO6	To Generate GSTR 1, 2, 3B and 4, Reports and TDS Report	Apply	Analytical	MODEL

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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(BI)/ B.Com(E.Com)/ B.Com(BA)/B.Com(CS)	20CUG13	Goods and Services Tax

Preamble : To provide fundamental knowledge about goods and service tax.

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

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	CIA
CO3	To be familiar with Composition scheme and Remission and Scope and time of supply under GST	Understanding	Conceptual	Self Support Assignment
CO4	To know the Input tax credit under GST	Understanding	Conceptual	DIA
CO5	Students able to know about E- way bill and GST portal	Understanding	Conceptual	Model

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Programme	Course Code	Course Name
B.Com (E.Com)	20GEU60	Business Law

Preamble : To develop an understanding of significant provisions of select Business laws..

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

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	Understand	Conceptual	Class Presentation/ 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	Analyze	Conceptual	CIA
CO3	To Examine Contract of Indemnity and Guarantee and its types. To illustrate Rights and duties of Surety, Bailment & Pledge.	Apply	Conceptual	DIA(Quiz)
CO4	To restate Contract of Agency creation and termination. To Outline the Limited Liability Partnership..	Understand	Conceptual	Writing Skills/Self Support 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	MODEL

Programme	Course Code	Title
B.Sc. (CS)/ B.Sc. (IT)/ B.Sc. (CT) / BCA/ B.Sc. (CSA)/ B.Sc. (DS	20CSS07	DSC V Operating System

Preamble : This course provides students with a basic understanding in various system resources, Process management and functions of operating systems. It enables students to solve operating system problems

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology/ Computer Technology / Computer Applications /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	Learn the fundamentals of operating system	Understand	Communication Skills	Class Presentation
CO2	Learn the mechanisms of operating system to handle the file system	Remember	Competitive Skills	CIA
CO3	Understand the mechanisms of operating system to handle processes and their communication	Understand	Managerial Skills	Self-Support Assignment
CO4	Study and analyze concept relating to asynchronous concurrent processes and deadlock	Analyze	Competitive Skills	DIA(Quiz)
CO5	Analyze the mechanisms of operating system to handle memory management techniques and their allocation	Analyze	Competitive Skills	Model

Programme	Course Code	Title
B.Sc. (CS)/ B.Sc. (IT)/ B.Sc. (CT) / BCA/ B.Sc. (CSA)/B.Sc. (SS)	**20CSS08**	**DSC-VI Java Programming**

Preamble : This course provides students with a basic understanding on Java programming concepts and its applications. It enables students to solve applications using java.

Expected level of output : Conceptual Level

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

Prerequisites : Knowledge in Basic OOPS 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	Understand the basics of Java programming languages.	Understand	Communication Skills	Class Presentation
CO2	Explore the concept of Arrays, Class Design, Advanced Class Features, Exception and	Analyze	Competitive Skills	CIA
CO3	Explore the concept Collection and Generics Framework, I/O Fundamentals, Console I/O, File I/O and Threads Fundamentals	Analyze	Analytical Skills	Simulation Exercises
CO4	Relate the concepts of Fork-Join Framework, Parallel Streams and Building Database Applications with JDBC:	Apply	Competitive Skills	DIA(Quiz)
CO5	Narrate the concepts of Localization and Oracle Cloud	Apply	Competitive Skills	Model

Programme	Course Code	Title
B.Sc. (CS)	20CSU01	DSC-VII 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 : 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	Case study
CO2	Able to remember the concept of String Concepts & Tuple concepts	Remember	Communication Skills	CIA
CO3	Understand the concepts of Exception Handling in Python Program	Understand	Technical Skill	Simulation Exercise
CO4	Understand Programming skills using the concept of classes & objects, Inheritance in Python Program	Understand	Technical Skill	DIA(Quiz)
CO5	Apply packages & modules in python program	Apply	Analytical Skill	Model

Programme	Course Code	Title
B.Sc. (CS)/ B.Sc. (IT)/ B.Sc. (CT)/ BCA/ B.Sc. (CSA)/ B.Sc. (SS)	20CSS11	DSC Practical-III Practical-Programming Lab – JAVA

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use Java programming. In addition, the students will learn how to use applications with Java programming

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Applications / Computer Science and Applications / 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	Understand the execution flow of the Java program using classes, objects and control structure	Understand	Analytical Skills	Simulation Exercises
CO2	Apply the concept of Threads and Exception handling in Java Programs.	Apply	Analytical Skills	Application Development

Programme	Course Code	Title
B.Sc. (CS)	20CSU02	DSC Practical-IV Practical – Programming Lab - Machine Learning for Data Analysis Using Python

Preamble : Itenables the students to do the projects and solve the applications using python programming logic.

Expected Level of Output : Conceptual Level

Department offered : Computer Science

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
CO 1	Understand the execution flow of the Python program using control structure & Branching Statements	Understand	Technical Skills	Technical Presentation
CO 2	Understand the training data samples.	Understand	Technical Skills	Demonstration

Programme	Course Code	Title
B.Sc.(CS)	20SEC01D	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 : After successful completion of this course, the students will be able to

Course Outcome	Description	Blooms Verb	Skill Mapping	Capstone
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. (CS) /BCA/ B.Sc. (SS)/B.Sc. (DS)	20CSS15	DSE VIII: Computer Networks

Preamble : This course provides students with a basic understanding 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/ Computer Applications / Software Systems / Data Science

Prerequisites : Knowledge in computer terminologies and message sharing

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 usage of computer networks, network software and network hardware and reference models.	Understand	Communication Skills	Class Presentation
CO2	Analyze the concept of Physical Layer and Data Link Layer	Analyze	Competitive Skills	CIA
CO3	Understand the concept of Network Layer and Different types of Routing Mechanism	Understand	Managerial Skills	Self-Support Assignment
CO4	Remember the concept of Transport Layers and its protocol	Remember	Competitive Skills	DIA(Quiz)
CO5	Apply the concept of Application and Presentation Layer and Apply	Apply	Competitive Skills	Model

Programme	Course Code	Title
B.Sc. (CS)	20CSU03	DSC-IX 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

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	Understand various protocols for IoT	Understand	Communication Skills	Class Presentation
CO2	Understand web services to access/control IoT devices.	Understand	Competitive Skills	CIA
CO3	Understand applications of IoT in real time scenario	Understand	Managerial Skills	Self-Support Assignment
CO4	Deploy an IoT application and connect to the cloud.	Analyze	Competitive Skills	DIA(Quiz)
CO5	Design a portable IoT using Rasperry Pi	Remember	Competitive Skills	Model

Programme	Course Code	Title
B.Sc. (CS)/ B.Sc. (IT)/ B.Sc. (CT)/ B.C.A/ B.Sc. (CSA)/B.Sc. (SS)	20CSS17	DSC - X – Database Management System using Oracle

Preamble : This course provides students with a basic understanding about Database, Oracle 12c and PL/SQL. It enables students to solve SQL Queries.

Expected level of output : Conceptual Level

Department offered : Computer Science / Information Technology / Computer Technology / Computer Application / Computer Science and Application / System Software

Prerequisites : Knowledge in 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	Remember the basic concepts of Database, The models used to represent database and to design the database using Normalization	Remember	Communication Skills	Class Presentation
CO2	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	Competitive Skills	CIA
CO3	Understand the usage of sub queries, set operators and creating schema objects.	Understand	Analytical Skills	Simulation Exercises
CO4	Apply and enhance the ability in program objects and PL/SQL.	Apply	Competitive Skills	DIA(Quiz)
CO5	Apply and enhance the knowledge in exceptions, stores procedures, triggers and event handling.	Apply	Competitive Skills	Model

Programme	Course Code	Title
B.Sc. (CS)/ B.Sc. (IT)/ B.Sc. (CT)/ B.C.A/ B.Sc. (CSA)/B.Sc. (SS)	20CSS18	DSC Practical - V Practical - Programming Lab – Visual Basic and Oracle

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use database. In addition, the students will learn how 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 : Knowledge about 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. Recognize the use of joins and sub queries in Oracle	Understand	Communication Skills	Class Presentation
CO2	Apply the Concept of Control Structure in Procedural Language for Structure Query Language (PL/SQL). Apply the concept of Database Connection	Apply	Technical Skills	Technical Presentation

Programme	Course Code	Title
B.Sc. (CS)/B.Sc. (IT)/ B.Sc. (CT) /B.C. A/ B.Sc. (CSA)/B.Sc. (SS)	**20CSS19**	**DSC Practical-VI Practical-Programming Lab – Software Testing using Selenium**

Preamble : This Practical / Laboratory course is designed to provide the students with the knowledge to use automated web-based applications. In addition, the students will learn how to understand basics of selenium

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 basic 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 basic concepts of Web driver and linking concepts	Understand	Communication Skills	Class Presentation
CO2	Synchronize the test using implicit and explicit wait using parameters, pop-up windows and forms	Apply	Technical Skills	Technical Presentation

CRITERIA II STUDENT PERFORMANCE AND LEARNING OUTCOMES

2021 Batch – I & II Semester

COURSE OUTCOME FOR I YEARS

2021 BATCH

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1	**Name of the Course**	BANKING THEORY AND PRACTICE	
2	**Course Code**	21ODC01	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Banking and its Services. It also enables the students to know the various schemes under KYC	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	Knowledge about Banking and its Operations	
8	**Assessment Strategy**		

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the role and functions of banking system (C2, PO1)	C2- Understand	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
CLO 2	**Label** the fair practices used in banking under KYC. (A2, PO4)	A2- Responding to Phenomenon	Case Study/ Project/ Tutorial/ Group Work	Presentation/ Project/ Poster Presentation
CLO 3	**Use** the digital banking system that has been widely used in the Banking networks. (C3, PO2)	C3- Apply	Lecture/Tutorial/Case study/Problem solving	Written Test/ Quiz/MCQ/ Final Exam

1	**Name of the Course**	**Financial Accounting**	
2	**Course Code**	21ODC02	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students 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.	
5	**Semester and Year Offered**	I Semester I Year	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the concept of accounting standards – Preparation of final accounts according to Ind AS 1 – Asset valuation techniques as per Ind AS 2 – Depreciation and Inventory valuation	C2 - Understand	Lecture/ Tutorial	MCQ/Quiz.
	CLO 2	Prepare the procedure of accounting for special transactions as per Ind AS 111 – Account Current and Average Due date – Consignment – Joint Venture – accounting standard Ind AS 116 and Departmental accounts and Branch accounts	C3- Apply	Lecture/ Tutorial	Critical case study Report.
	CLO 3	Illustrate the concept of limited liability partnership – Sale of firm – Dissolution of partnership firm – Insolvency of partners – Gradual realization of assets and piecemeal distribution – Amalgamation of firms.	C3- Apply	Lecture/ Tutorial	Simulation exercise test

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1	**Name of the Course**	**Fundamentals of Business Analytics**	
2	**Course Code**	21ODE07	
3	**Course Type**	Theory	Focus on :Employability
4	**Synopsis/Rationale of the Module**	This Course helps the students should be able to interpret the results of Business analytics and their implications to business administrations.	
5	**Semester and Year Offered**	I Semester; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about Commerce and Computer	
8	**Assessment Strategy (if any)**	Internal 50%, External 50%	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Recall the basic concept of Information technology, Business intelligence and Data models concepts through a systematic approach.	C1-Remember	Lecture/ Tutorial	Rapid Fire Questions Open Book Test
CLO 2	Present the Data integration and its constituents and Data modelling concepts through a presentation.	A2-Responding to Phenomenon	Case Study/Group Discussion/ Problem based learning	Presentation Assignment
CLO 3	Describe the concepts of KPI and its metrics and learn to report statistical analysis, application of analytics and data mining.	A1-Receiving Phenomenon	Case Study/Group Discussion/ Problem based learning	Data Analytics Report

1	**Name of the Course**	**Organisation and Management**	
2	**Course Code**	21ODC04	Focus on Entrepreneurial
3	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students with a basic understanding of Business System and the management concepts emphasizing on the present day shifts in the management thoughts. This Course helps to inculcate the knowledge about human behaviour towards Organisation Structure and develop the skills of gathering information for taking effective decisions	
4	**Semester and Year Offered**	II Sem; Year I	
5	**Credit Value**	3	
6	**Pre-requisite (if any)**		

7 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Illustrate** the various perspectives of Business and learn the business activities to compete in the Competitive World	C3-Apply	Lecture/ Tutorial	MCQ/Quiz/ Written Test/Exam.
CLO 2	Initiate the creation of an Enterprise by listing the functions of organization and management	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Poster Presentation
CLO 3	Discuss the human behaviours towards organizational structure	A2-Responding to Phenomenon	Case study Assignment	MCQ/Quiz/ Written Test/Exam/Case study reports.

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

1	**Name of the Course**	**Accounting for Special Business**	
2	**Course Code**	21ODC05	Focus on Employability
3	**Course Type**	**Discipline Specific Course**	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students Learn special accounting transactions and accounting aspects by providing accounting standard references. It also enables the students to solve problems.	
5	**Semester and Year Offered**	II Sem; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about basic accounting	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Recall** Single Entry System, Bill of Exchange treatment entries, Accounting treatment of Lease and Insolvency of Individuals and Partnership firms	C1- Remember- Cognitive Domain	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
	CLO 2	**Apply** the accounting entries for Insurance claim, computation of claim and accounting treatment of Voyage accounts and Royalty accounts.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Critical Case Study Assignment on Accounting
	CLO 3	Prepare financial statements of Non – Profit Organizations and Investment accounts by adopting interest calculations.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Simulation Exercises

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code(s)	Title
B. Com, B. Com (PA), B. Com (CA), B. Com (E-com), B. Com (CS), B. Com (BI), B. Com (IT), B. Com (BPS), B. Com (A&F), B. Com (CM), B. Com (BA), BBA, BBA (CA), BBA (Logistics), B.Sc. (IS)	22AEC38	**Academic Skills for Commerce and Management**

T	P	J	C
4	-	-	4

Course Objective : The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.

Transferable Skills : Critical thinking Skills, Digital Skills and Lifelong learning skills

Prerequisites : Not Applicable

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

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Produce an effective persona development plan with the use of effective learning skills	Produce	Critical thinking	Plan submission for three years
CO2	Use of IT resources effectively for academic presentation and communication	Use	Digital Skills	Technical Presentation
CO3	Demonstrate effective team work with application of effective time management skills	Demonstrate	Team work	Group Assignments

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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1	**Name of the Course**	BANKING THEORY AND PRACTICE	
2	**Course Code**	21ODC01	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Banking and its Services. It also enables the students to know the various schemes under KYC	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	Knowledge about Banking and its Operations	
8	**Assessment Strategy**		

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the role and functions of banking system (C2, PO1)	C2- Understand	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
CLO 2	**Label** the fair practices used in banking under KYC. (A2, PO4)	A2- Responding to Phenomenon	Case Study/ Project/ Tutorial/ Group Work	Presentation/ Project/ Poster Presentation
CLO 3	**Use** the digital banking system that has been widely used in the Banking networks. (C3, PO2)	C3- Apply	Lecture/Tutorial/Case study/Problem solving	Written Test/ Quiz/MCQ/ Final Exam

1	**Name of the Course**	**Financial Accounting**	
2	**Course Code**	21ODC02	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students 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.	
5	**Semester and Year Offered**	I Semester I Year	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the concept of accounting standards – Preparation of final accounts according to Ind AS 1 – Asset valuation techniques as per Ind AS 2 – Depreciation and Inventory valuation	C2 - Understand	Lecture/ Tutorial	MCQ/Quiz.
	CLO 2	Prepare the procedure of accounting for special transactions as per Ind AS 111 – Account Current and Average Due date – Consignment – Joint Venture – accounting standard Ind AS 116 and Departmental accounts and Branch accounts	C3- Apply	Lecture/ Tutorial	Critical case study Report.
	CLO 3	Illustrate the concept of limited liability partnership – Sale of firm – Dissolution of partnership firm – Insolvency of partners – Gradual realization of assets and piecemeal distribution – Amalgamation of firms.	C3- Apply	Lecture/ Tutorial	Simulation exercise test

1	**Name of the Course**	**Introduction to Information Technology**	
2	**Course Code**	21ODE02	
3	**Course Type**	**Theory**	Focus on : Skill Development/Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students the basic knowledge of Information Technology and its Impact of Business	
5	**Semester and Year Offered**	I Semester; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about Information Technology	
8	**Assessment Strategy**	Internal 50%, External 50%	

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the ICT in detail, scope of E-world, various concepts and terminologies used in computer networks and web page creation	C2-Understand	Lecture/ Tutorial	MCQ Written Test
	CLO 2	**Justify** the importance of business process management, its improvement, transformation, automation, reengineering and business process modelling to an organization through a presentation.	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Poster Presentation Group Assignments
	CLO 3	**Demonstrate** the internet concepts and the concepts of ERP, CRM, and Multi Media in detail using mobile technologies and wireless network categories with respect to the benefits and challenges of business mobility.	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Digital analytical Report

1	**Name of the Course**	**Organisation and Management**	
2	**Course Code**	21ODC04	Focus on Entrepreneurial
3	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students with a basic understanding of Business System and the management concepts emphasizing on the present day shifts in the management thoughts. This Course helps to inculcate the knowledge about human behaviour towards Organisation Structure and develop the skills of gathering information for taking effective decisions	
4	**Semester and Year Offered**	II Sem; Year I	
5	**Credit Value**	3	
6	**Pre-requisite (if any)**		

7 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Illustrate** the various perspectives of Business and learn the business activities to compete in the Competitive World	C3-Apply	Lecture/ Tutorial	MCQ/Quiz/ Written Test/Exam.
CLO 2	Initiate the creation of an Enterprise by listing the functions of organization and management	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Poster Presentation
CLO 3	Discuss the human behaviours towards organizational structure	A2-Responding to Phenomenon	Case study Assignment	MCQ/Quiz/ Written Test/Exam/Case study reports.

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1	**Name of the Course**	**Accounting for Special Business**	
2	**Course Code**	21ODC05	Focus on Employability
3	**Course Type**	**Discipline Specific Course**	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students Learn special accounting transactions and accounting aspects by providing accounting standard references. It also enables the students to solve problems.	
5	**Semester and Year Offered**	II Sem; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about basic accounting	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Recall** Single Entry System, Bill of Exchange treatment entries, Accounting treatment of Lease and Insolvency of Individuals and Partnership firms	C1- Remember- Cognitive Domain	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
	CLO 2	**Apply** the accounting entries for Insurance claim, computation of claim and accounting treatment of Voyage accounts and Royalty accounts.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Critical Case Study Assignment on Accounting
	CLO 3	Prepare financial statements of Non – Profit Organizations and Investment accounts by adopting interest calculations.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Simulation Exercises

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code(s)	Title
B. Com, B. Com (PA), B. Com (CA), B. Com (E-com), B. Com (CS), B. Com (BI), B. Com (IT), B. Com (BPS), B. Com (A&F), B. Com (CM), B. Com (BA), BBA, BBA (CA), BBA (Logistics), B.Sc. (IS)	22AEC38	**Academic Skills for Commerce and Management**

T	P	J	C
4	-	-	4

Course Objective : The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.

Transferable Skills : Critical thinking Skills, Digital Skills and Lifelong learning skills

Prerequisites : Not Applicable

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

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Produce an effective persona development plan with the use of effective learning skills	Produce	Critical thinking	Plan submission for three years
CO2	Use of IT resources effectively for academic presentation and communication	Use	Digital Skills	Technical Presentation
CO3	Demonstrate effective team work with application of effective time management skills	Demonstrate	Team work	Group Assignments

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Kuniamuthur, Coimbatore – 641 008.

1	**Name of the Course**	BANKING THEORY AND PRACTICE	
2	**Course Code**	21ODC01	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Banking and its Services. It also enables the students to know the various schemes under KYC	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	Knowledge about Banking and its Operations	
8	**Assessment Strategy**		

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the role and functions of banking system (C2, PO1)	C2- Understand	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
CLO 2	**Label** the fair practices used in banking under KYC. (A2, PO4)	A2- Responding to Phenomenon	Case Study/ Project/ Tutorial/ Group Work	Presentation/ Project/ Poster Presentation
CLO 3	**Use** the digital banking system that has been widely used in the Banking networks. (C3, PO2)	C3- Apply	Lecture/Tutorial/Case study/Problem solving	Written Test/ Quiz/MCQ/ Final Exam

1	**Name of the Course**	**Financial Accounting**	
2	**Course Code**	21ODC02	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students 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.	
5	**Semester and Year Offered**	I Semester I Year	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the concept of accounting standards – Preparation of final accounts according to Ind AS 1 – Asset valuation techniques as per Ind AS 2 – Depreciation and Inventory valuation	C2 - Understand	Lecture/ Tutorial	MCQ/Quiz.
	CLO 2	Prepare the procedure of accounting for special transactions as per Ind AS 111 – Account Current and Average Due date – Consignment – Joint Venture – accounting standard Ind AS 116 and Departmental accounts and Branch accounts	C3- Apply	Lecture/ Tutorial	Critical case study Report.
	CLO 3	Illustrate the concept of limited liability partnership – Sale of firm – Dissolution of partnership firm – Insolvency of partners – Gradual realization of assets and piecemeal distribution – Amalgamation of firms.	C3- Apply	Lecture/ Tutorial	Simulation exercise test

1	**Name of the Course**	**Introduction to Information Technology**	
2	**Course Code**	21ODE02	
3	**Course Type**	**Theory**	Focus on : Skill Development/Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students the basic knowledge of Information Technology and its Impact of Business	
5	**Semester and Year Offered**	I Semester; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about Information Technology	
8	**Assessment Strategy**	Internal 50%, External 50%	

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the ICT in detail, scope of E-world, various concepts and terminologies used in computer networks and web page creation	C2-Understand	Lecture/ Tutorial	MCQ Written Test
	CLO 2	**Justify** the importance of business process management, its improvement, transformation, automation, reengineering and business process modelling to an organization through a presentation.	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Poster Presentation Group Assignments
	CLO 3	**Demonstrate** the internet concepts and the concepts of ERP, CRM, and Multi Media in detail using mobile technologies and wireless network categories with respect to the benefits and challenges of business mobility.	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Digital analytical Report

1	**Name of the Course**	**Organisation and Management**	
2	**Course Code**	21ODC04	Focus on Entrepreneurial
3	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students with a basic understanding of Business System and the management concepts emphasizing on the present day shifts in the management thoughts. This Course helps to inculcate the knowledge about human behaviour towards Organisation Structure and develop the skills of gathering information for taking effective decisions	
4	**Semester and Year Offered**	II Sem; Year I	
5	**Credit Value**	3	
6	**Pre-requisite (if any)**		

7 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Illustrate** the various perspectives of Business and learn the business activities to compete in the Competitive World	C3-Apply	Lecture/ Tutorial	MCQ/Quiz/ Written Test/Exam.
CLO 2	Initiate the creation of an Enterprise by listing the functions of organization and management	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Poster Presentation
CLO 3	Discuss the human behaviours towards organizational structure	A2-Responding to Phenomenon	Case study Assignment	MCQ/Quiz/ Written Test/Exam/Case study reports.

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1	**Name of the Course**	**Accounting for Special Business**	
2	**Course Code**	21ODC05	Focus on Employability
3	**Course Type**	**Discipline Specific Course**	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students Learn special accounting transactions and accounting aspects by providing accounting standard references. It also enables the students to solve problems.	
5	**Semester and Year Offered**	II Sem; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about basic accounting	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Recall** Single Entry System, Bill of Exchange treatment entries, Accounting treatment of Lease and Insolvency of Individuals and Partnership firms	C1- Remember- Cognitive Domain	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
	CLO 2	**Apply** the accounting entries for Insurance claim, computation of claim and accounting treatment of Voyage accounts and Royalty accounts.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Critical Case Study Assignment on Accounting
	CLO 3	Prepare financial statements of Non – Profit Organizations and Investment accounts by adopting interest calculations.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Simulation Exercises

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Programme	Course Code(s)	Title
B. Com, B. Com (PA), B. Com (CA), B. Com (E-com), B. Com (CS), B. Com (BI), B. Com (IT), B. Com (BPS), B. Com (A&F), B. Com (CM), B. Com (BA), BBA, BBA (CA), BBA (Logistics), B.Sc. (IS)	22AEC38	**Academic Skills for Commerce and Management**

T	P	J	C
4	-	-	4

Course Objective : The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.

Transferable Skills : Critical thinking Skills, Digital Skills and Lifelong learning skills

Prerequisites : Not Applicable

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

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Produce an effective persona development plan with the use of effective learning skills	Produce	Critical thinking	Plan submission for three years
CO2	Use of IT resources effectively for academic presentation and communication	Use	Digital Skills	Technical Presentation
CO3	Demonstrate effective team work with application of effective time management skills	Demonstrate	Team work	Group Assignments

1	**Name of the Course**	**DIGITAL COMPUTER FUNDAMENTALS**
2	**Course Code**	**21CDC01**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of digital and binary systems, Boolean algebra, Combinational and Sequential Circuits. It enables students to solve the problems relating to various types of business.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Computer Basics
8	**Assessment Strategy**	50% External and 50% Internal

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the architecture and functionality of central processing unit	C2 **(Cognitive)** Understand	Lecture/ Tutorial	Rapid Fire and Assignment
CLO 2	**Apply** the impacts of the design issues in terms of speed, technology, cost, performance	C3 **(Cognitive)** Apply	Lecture/ Tutorial	Online Test
CLO 3	**Discuss** in groups the combinational Circuits using MSI components	A2 **(Affective)** Responding	Group Discussion	Group Assignment and Simulation

1	**Name of the Course**	**Programming in C & Practical: C Programming**
2	**Course Code**	**21CDC02A & 21CDC02B**
3	**Course Type**	Theory and Practical – Embedded
4	**Synopsis/Rationale of the Module**	• This course has four credits that provide students with knowledge of developing an application and strong foundation on programming concepts. • It enables students to solve the problems with programmable logic.
5	**Semester and Year Offered**	I Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in basics of computers.
8	**Assessment Strategy**	50 % Theory (25 %Internal & 25% External) and 50 % Practical (25%Internal and 25 % External)

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the fundamental concepts of procedure-oriented programming such as tokens, datatypes, operators and control structures in solving simple mathematical Problems.	C2 **(Cognitive)** Understand	Lecture/ Tutorial	Quiz
CLO 2	**Apply** the concept of Arrays and Functions in simple applications for handling homogenous data and achieve code	C3 **(Cognitive)** Apply	Lecture/ Tutorial	Problem Based Learning-Debugging
CLO 3	**Adopt** the concept of Structures, Unions, Pointers and Files for working with heterogeneous data, memory address access and permanent data	A3 **(Affective)** Valuing	Group Discussion	Assignment
CLO 4	**Practice** the method of using the fundamental concepts, control flow statements, user defined and derived data types and permanent data storage concepts in	P3 **(Psychomotor),** Guided Response	Practical Demonstration	Simulation and Mind Map

		simple to complex real-time problems.			

1	**Name of the Course**	**Practical: Excel Macro Lab**
2	**Course Code**	**21CDE01**
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To enable the students to develop macros for implementing real world applications using various built in functions available in spread sheet.
5	**Semester and Year Offered**	I Semester , Year I
6	**Credit Value**	2
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Internal and 50% External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Display** simple operational Macros with the support of basic tools.	P2 (**Psychomotor)** Set	Practical/ Demonstration	Simulation I
CLO 2	**Build** advanced operational Macros with the support of basic Tools.	P3 **(Psychomotor)** Guided Response	Practical/ Demonstration	Simulation II

1	**Name of the Course**	**Data Structures and Algorithms**
2	**Course Code**	**21CDC03**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a strong foundation on fundamental concept of data structures and to emphasize the importance of data structures in developing and implementing efficient algorithms.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the various types of data structures and understand the importance of its invariants	C2 **(Cognitive)** Understand	Lecture/ Tutorial	Assignment and Online Test
CLO 2	**Demonstrate** appropriate data structure and algorithmic design method for a Tree traversal and obtain a feasible solution using critical thinking.	C3 **(Cognitive)** Apply	Lecture/ Tutorial/ Problem solving	Simulation and Problem based Learning
CLO 3	**Apply** various graph theoretical techniques to test and validate intuition and independent mathematical thinking in real time problems	C3 **(Cognitive)** Apply	Lecture/ Tutorial/ Problem solving	Case Study

1	**Name of the Course**	**Object Oriented Programming using C++ & Practical: C++ Programming**
2	**Course Code**	**21CDC04A & 21CDC04B**
3	**Course Type**	Theory and Practical – **Embedded**
4	**Synopsis/Rationale of the Module**	This course enables the students to develop industrial strength software applications using powerful general purpose programming concepts. The course also highlights the way to attain efficient management of memory and enhanced performance through developing optimized C++ code. The Course also supports to view the real world applications in terms of manageable objects that leads to design quality software.
5	**Semester and Year Offered**	II Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Theory (25 %Internal & 25% External) and 50 % Practical (25%Internal and 25 % External)

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Illustrate** the features of object oriented programming approach and basic constructs of C++ with classes and objects using functions.	C2 **(Cognitive)** Understand	Lecture/ Tutorial	Online Test
CLO 2	**Demonstrate** the concepts that supports code reusability, dynamic initialization and efficient memory management for complex real time applications with optimized code.	C3 **(Cognitive)** Apply	Lecture/ Tutorial	Problem Based Learning I - Debugging
CLO 3	**Experiment** the concepts of streams, generic programming, exceptions emerged in real time applications and string manipulations.	C4 **(Cognitive)** Analyze	Lecture/ Tutorial/ Case study/ Proble	Problem Based Learning II- Debugging
CLO 4	**Build** a software solution with effective storage strategies and handling exceptions that emerged dynamically with problem solving ability.	P3 **(Psychomotor)** Guided Response	Practical/ Demonstration	Simulation I and Simulation II

1	**Name of the Course**	**Academic Skill for Computer Studies**
2	**Course Code**	**21AEC33**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Not Applicable
8	**Assessment Strategy**	100 % Theory (50 %Internal & 50% External)

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Produce** an effective personal development plan with the use of effective learning skills	C3 **(Cognitive)** Apply	Lecture/ Tutorial	Plan submission for three years
CLO 2	**Use** of IT resources effectively for academic presentation and communication	A3 **(Affective)** Valuing	Group Discussion	Technical Presentation
CLO 3	**Show** continual desire to demonstrate effective team work with application of effective time management skills	A3 **(Affective)** Valuing	Group Discussion	Group Assignments

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1	**Name of the Course**	Cell Biology
2	**Course Code**	21BDC01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course provides the students to understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, membranes and organelles.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on Biology
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the structure and components of prokaryotic and eukaryotic cells especially membranes and organelles and the importance of specialized cells	A1 Receiving Phenomena - Affective Domain	Flip Class Room	Technical Presentation Poster Presentation
CLO 2	**Discuss** about the cellular transport, importance of cell adhesion and process of cell cycles	C2- Understand - Cognitive Domain	Lecture	MCQ Written Test
CLO 3	**Explain** the concepts of developmental biology and fertilization	A3 - Valuing – Affective Domain	Group Discussion	Assignment

1	**Name of the Course**	Biochemistry
2	**Course Code**	21BDC02 / 21RDC02
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course delivers the students with a rudimentary understanding on the structure and function of Biomolecules. It enables students to solve significance in biomolecules and their basic knowledge and its significances.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on Basic Biology
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the bioenergetics in biological science and structural elements of Carbohydrates in the biological system	A1 Receiving Phenomena - Affective Domain	Flip Class Room	Technical Presentation Poster Presentation
CLO 2	**Illustrate** the functional groups and associated lipids in the biological system and structural features of amino acids and proteins	C2- Understand - Cognitive Domain	Lecture	MCQ Written Test
CLO 3	**Explain** the basic structural features and the role of vitamins and minerals.	A3- Valuing - Affective Domain	Group Discussion	Assignment

1	**Name of the Course**	Lab in Cell Biology and Biochemistry
2	**Course Code**	21BDC03
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This Practical / Laboratory course is designed to provide the students with the acquaintance to use microscope and visualization of different types of cells. In addition, the students will learn how to qualify and quantify the number of biomolecules present in the given sample.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge in Basic working Level in Biology
8	**Assessment Strategy**	25% External and 25% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Identify the methods for measuring volume and weight using various measures and instrument and also the types of cells and it cell division stages	P1- Perception Psychomotor Domain	Practical	Practical Test
CLO 2	Measure the carbohydrate and protein molecules by qualitative and quantitative methods.	P1- Perception Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Biophysics and Bioinstrumentation
2	**Course Code**	21BDE01 / 21RDE01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course offers the students with a basic understanding the principles and applications of basic instruments in biological sciences and also It enables the students to get instrumentation knowledge.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge in Science
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Analyse the principle of biophysics and types of pH meter and Centrifuge and analyse the technique of chromatography	C4 Analyse - Cognitive Domain	Lecture	MCQs Quiz
CLO 2	Explain the basic principles and types of Electrophoresis and the basic principles, working and types of spectroscopies	A3- Valuing - Affective Domain	Flip Class Room	Group Assignment Group Report
CLO 3	Generalise the working and applications of radioactivity, Microarray, Fluorescent activated cell sorting	A4- Organizing values - Affective Domain	Flip Class Room	Assignment

1	**Name of the Course**	Microbiology
2	**Course Code**	21BDC04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course delivers the students with a basic understanding of the scope of microbiology and its techniques
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on Basic Biology
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the history of microbiology, biography of eminent scientists and the different types of Microscopy and the Microbial staining methods.	C2- Understand - Cognitive Domain	Lecture	MCQs Exam
CLO 2	**Describe** the basic principles of various methods of sterilization and principles of various nutrient media and its isolation procedures	A1- Receiving Phenomena - Affective Domain	Flip Class Room	Group Assignment Group Report
CLO 3	**Differentiate** the taxonomy and classification of microbes.	A3- Valuing - Affective Domain	Group Discussion	Technical Presentation

1	**Name of the Course**	Genetics
2	**Course Code**	21BDC05
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is dedicated to provide knowledge on the Mendelian Genetics, genome organization, causes of mutation and population genetics
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on Basic Biology
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the basic laws governing the pattern of inheritance familiarize the students with the basic concepts and the genome organization	C2- Understand - Cognitive Domain	Lecture	MCQs Written Test
CLO 2	**Explain** about linkage and crossing over and familiarize with cytogenetic mapping, extra nuclear inheritance and mutational analysis.	A3- Valuing - Affective Domain	Flip Class Room	Technical Presentation Poster Presentation
CLO 3	**Practice** the calculation for genetic transformation, genetic counselling and importance of Human Genome Project.	A2- Responding to Phenomena - Affective Domain	Group Discussion	Group Assignment

1	**Name of the Course**	Lab in Microbiology and Genetics
2	**Course Code**	21BDC06
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To comprehend the isolation, culturing, metabolic characterization, genetic aspects and application of microorganisms
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Basic knowledge on Cell and Chromosome
8	**Assessment Strategy**	25% External and 25% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Distinguish** the parts of microscope and methods involved in sterilization.	P1 – Perception - Psychomotor Domain	Demonstration	Practical Test
CLO 2	**Perform** the suitable staining techniques to differentiate microorganisms	P3 - Guided Response - Psychomotor Domain	Practical	Practical Test
CLO 3	**Detect** the auxotrophic mutant by physical and chemical methods and barr body identification the basics of Genetics	P1 - Perception Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Academic Skill for Biosciences
2	**Course Code**	21AEC35
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Not Applicable
8	**Assessment Strategy**	100 % Theory (100% Internal)

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Produce** an effective personal development plan with the use of effective learning skills	C3 - Apply-Cognitive Domain	Lecture	Assignment
CLO 2	**Use** of Bioresources effectively for academic presentation and communication	A1 - Receiving Phenomena - Affective Domain	Tutorial	Report writing
CLO 3	**Assist** in continual desire to validate effective team work with application of effective time management skills	A3 – Valuing-Affective Domain	Tutorial	Group work

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1	**Name of the Course**	ACADEMIC SKILLS FOR COSTUME DESIGN AND FASHION
2	**Course Code**	21AEC36
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Fashion concepts and Basics of textiles. It also enables the students to know the field of fashion and textiles
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge about apparel and fashion accessories
8	**Assessment Strategy**	50% internal - 50% external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Identify** inspirations and develop sketches of various designs	A1 – Receiving Phenomena – Affective Domain	Tutorial	Presentation & Portfolio
CLO 2	**Present** a poster on top professionals of the fashion industry and style done on peer classmates.	A2 – Responding to Phenomena – Affective Domain	Case Study/ Project/ Tutorial	Presentation & Role play
CLO 3	**Work** on new cases and patterns in the fashion industry.	A3 – Valuing – Affective Domain	Case Study/ Project/ Group Work/PBL	Case study assignment

1	**Name of the Course**	PATTERN MAKING AND APPAREL CONSTRUCTION (T&P)	
2	**Course Code**	Theory - 21DDC01A	Practical - 21DDC01B
3	**Course Type**	Embedded	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students with concepts and techniques of pattern making and construction.	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	Theory - 2	Practical –2
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% internal - 50% external	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Understand** the process, do's and don'ts of pattern making and garment construction method. (C2)	C2- Understand-Cognitive Domain	Lecture/Tutorial	Written Tests
CLO 2	**Discuss** the methods of pattern making and garment construction and develop paper and digitized patterns.(A2)	A2- Responding to phenomenon – Affective Domain	Tutorial	Portfolio & Digital Projects
CLO 3	**Construct** different garment components by creating patterns and with the help of basic sewing skills. (P3)	P3- Guided Response - Psychomotor Domain	Demonstration	Craft work & Practical Tests

1	**Name of the Course**	BASICS OF FASHION (T&P)	
2	**Course Code**	Theory - 21DDC02A	Practical - 21DDC02B
3	**Course Type**	Embedded	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students with a basic knowledge about principles and elements of fashion.	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	Theory –2	Practical –2
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% internal - 50% external	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the basic concepts of principles of design	C1- Remember-Cognitive Domain	Lecture/Tutorial	MCQ's, Rapid Fire
CLO 2	**Form** designs with the elements of design along with colour theory.	A2- Responding to Phenomena–Affective Domain	Project/ Tutorial	Group project
CLO 3	**Display** types of light falling on a garment	P2- Guided Response - Psychomotor Domain	Practical/ Demonstration	Sketch work, Practical test

1	**Name of the Course**	FASHION SKETCHING PRACTICAL
2	**Course Code**	21DDC03
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	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.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	50%internal - 50%external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Begin** sketching the basic head theories and body features. (P2)	P2- Set - Psychomotor Domain	Practical/ Demonstration	Practical Tests
CLO 2	**Sketch** the basic concepts of fullness and designs into an innovative garment.(P4)	P4 - Mechanism - Psychomotor Domain	Practical/ Demonstration	Practical Tests

1	**Name of the Course**	TEXTILE SCIENCE
2	**Course Code**	21DDC04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course provides the students a strong foundation on textile science concepts and its application. It also enables the students to understand the different types of fibre, yarn and its properties.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on fibres and different fabric types
8	**Assessment Strategy**	50%internal - 50% external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the different types of fibres and explore its manufacturing process. (C1)	C1- Remember-Cognitive Domain	Lecture/Tutorial	Written Tests, online test
CLO 2	**Form** a fibre yarn dictionary with different types of yarns, its measuring methods and its properties. (A2)	A2- Responding to Phenomena – Affective Domain	Tutorial/ Group Work	Group Project
CLO 3	**Discuss** the basic technical textiles and its applications. (A2)	A2- Responding to Phenomena – Affective Domain	Tutorial	Presentation, viva voce

1	**Name of the Course**	HISTORY OF COSTUMES (T&P)	
2	**Course Code**	Theory - 21DDC05A	Practical - 21DDC05B
3	**Course Type**	Embedded	
4	**Synopsis/Rationale of the Module**	This course provides the students a strong foundation on History and varieties of costumes, from ancient times to till date.	
5	**Semester and Year Offered**	II Sem; Year I	
6	**Credit Value**	Theory - 2	Practical - 2
7	**Pre-requisite (if any)**	Knowledge on fibres and different fabric types	
8	**Assessment Strategy**	50%internal - 50%external	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** ancient clothing, early culture and traditional costumes of modern countries across globe	C1 – Remember – Cognitive Domain	Lecture/Tutorial	Quiz, Exam
CLO 2	**Explain** traditional costumes and textiles of India	A3 – Valuing – Affective Domain	Tutorial/ Group Work	Group Assignment
CLO 3	**Sketch** Costumes, rendering the traditional fabrics and print replicas	P4 – Mechanism - Psychomotor Domain	Practical/ Demonstration	Sketchwork, Practical Tests

1	**Name of the Course**	CHILDREN'S APPAREL PRACTICAL
2	**Course Code**	21DDC06
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This course enables the students to construct the Children's garment with details.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Completion of Pattern Making and Apparel Construction course
8	**Assessment Strategy**	50%internal - 50%external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Construct** different kinds of children's apparel with an inspiration and theme	P3-Guided Response - Psychomotor Domain	Practical/ Demonstration	Practical Tests
CLO 3	**Assemble** the constructed apparel products like a baby brand store, with brand identities.	P4-Mechanism - Psychomotor Domain	Practical/ Demonstration	Practical Tests

1	**Name of the Course**	VISUAL MERCHANDISING
2	**Course Code**	21DDC07
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course enables the students to know about a retail store setup
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Completion of basics of fashion
8	**Assessment Strategy**	50%inernal - 50%external

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the basic terms in visual merchandising	C2-Understand - Cognitive Domain	Lecture/Tutorial	Written Tests, MCQ
CLO 2	**Build** a store display using visual merchandising techniques	P3- guided response- Psychomotor Domain	Practical/ Demonstration	Practical Tests
CLO 3	**Explain** how any fashion brand has a store setup according to visual merchandising techniques.	A3- Valuing - Affective Domain	Discussion	Industrial Attachment, Project

Programme	Course Code	Title
ALL UG (Except CSHM)	**20TLU01**	**jkpo; I**

Preamble : எழுச்சிமிகு எண்ணங்களைக் கொண்ட மாணவர்களிடத்து லட்சியக் கனவுகளை உருவாக்கி பல்வேறு சீர்திருத்தக் கொள்கைகளை முன்வைத்து நம்பிக்கை ஊட்டும் கருத்துக்களை விதைத்து வாழ்வின் அம்சங்களை உணர வைத்தல்

Expected level of output : பன்முக அறிவு
Prerequisites : மொழித்துறை

Course Outcomes : நம்பிக்கை ஊட்டும் கருத்துக்களை விதைத்து வாழ்வின் அம்சங்களை உணர வைத்தல்

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	**அலகு 1 :** புதுக்கவிதைகள் - சீர்திருத்தக் கொள்கைகளை முன்வைத்தல், மனிதத் தன்மையைப் போற்றுவதோடு பழமையை புதுமையோடு பொருத்திப் பார்த்தல்	புரிதல் (Understanding)	கருத்தியல் திறன் (Analytical)	Component 1
CO2	**அலகு 2 :** சிற்றிலக்கியம் - பழங்கால மக்களின் போர்த்திறமை, நாட்டு வளம் போன்றவற்றை அறியச் செய்து வாழ்வின் பெருமையை உணரச் செய்தல்	நினைவுபடுத்தல் (Remembering)	கருத்தியல் திறன் (Conceptual)	CIA
CO3	**அலகு 3 :** நீதி இலக்கியம் – அறத் தத்துவங்களை வலியுறுத்தி உலகியல் அனுபவத்தை அறிந்து வாழ்வினைப் புரிந்து கொள்ள வைத்தல்	நினைவுபடுத்தல் (Remembering)	பகுத்தறிதல் திறன் (Conceptual)	Component 2
CO4	**அலகு** 4 : உரைநடை – நூல் இன்பத்தை நுகர்ந்து கற்றல் திறனை மேம்படுத்தி செம்மொழித்தமிழின்	புரிதல் (Understanding)	கருத்தியல் திறன் (Conceptual)	DIA(Quiz)

	செழுமையை உணரவைத்தல்			
CO5	**அலகு** 5 : பயன்பாட்டுக்கல்வி மொழித்திறன் படைப்பாக்கத்திறனை ஊக்குவித்து கவிதை படைக்கும் திறனை வளரச் செய்தல் சுயசிந்தனை அறிவாற்றலை வளர்த்தல்	படைத்தல் (Creating)	(Competitive)	Model

Programme	Course Code	Title
ALL UG (Except CSHM)	**20TLU02**	**jkpo; II**

Preamble : வாழ்வியல் முறைமைகளை இலக்கியங்களின் வழியாக உணரச்செய்வதோடு முன்னோர்களின் பண்பாட்டு விழுமியங்களை அறிமுகம் செய்தல் சித்தர்களின் வாழ்வியல் முறையோடு சமூக அக்கறையினை நினைவுறுத்தல் காலந்தோறும் தமிழர் நிலம் கடந்து வரும் பாதையினைச் சுட்டிக்காட்டுவதோடு மாணவர்களின் தனித்திறனை வளர்க்க வழிவகைச் செய்தல்.

Expected level of output : **பன்முக அறிவு**
Prerequisites : **மொழித்துறை**

Course Outcomes : **மாணவர்களின் தனித்திறனை வளர்க்க வழிவகைச் செய்தல்**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	அலகு -1 : மரபுக்கவிதைகளின் வழியாக பெண்மை மெய்யன்பு மற்றும் உண்மை நிலையினை உணர்த்துதல்,	புரிதல் (Understanding)	கருத்தியல் திறன் (Analytical)	Component 1
CO2	அலகு-2: சங்க இலக்கியங்களின் வழியாக தமிழர்களின் வாழ்வியல் சார் பண்பாடுகளை எடுத்துரைத்தல்	நினைவுபடுத்தல் (Remembering)	கருத்தியல் திறன் (Conceptual)	CIA
CO3	அலகு-3: சித்தர்களின் பாடல்களின் வழியாக நிலையாமை மற்றும் சமூக நிலைப்பாட்டினை விளக்குதல்	நினைவுபடுத்தல் (Remembering)	பகுத்தறிதல் திறன் (Conceptual)	Component 2
CO4	அலகு-4: தமிழக வரலாறும். பண்பாட்டின் மூலமாக காலந்தோறும் மக்களின் வளர்ச்சி நிலைகள் மற்றும் பிற இனத்தவரின் ஆட்சி முறைகள் பற்றியும் அறிந்து கொள்ளுதல்	புரிதல் (Understanding)	கருத்தியல் திறன் (Conceptual)	DIA(Quiz)

CO5	அலகு-5: மாணவர்களின் தனித்திறன்கள் வெளிக்கொணர்தலோடு தொழில் நுட்பத்தில் தமிழ் மொழியின் நிலையை அறியச்செய்தல்.	படைத்தல் (Creating)	செயல் திறன் (Competitive)	Model

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

Programme	CourseCode	Title
All UG	20HLU01	HINDI I

Preamble: To develop the communication skill of Hindi language to the Students.

Expected level of output : Conceptual Level

Department offered : Languages(Hindi)

Prerequisites : The second language should be Hindi in 12th standard.

Course Outcomes : To make students know the Hindi literature

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge of Hindi stories, Hindi writers their writing style. To understand story language, Figurative language and, Derive aesthetic pleasure.	Understanding	Conceptual	Class presentation
CO2	To understand the conversational language, style of story writing, nuances and methodologies in Writing an essay. To understand The techniques of Hindi language And grammar	Remembering	Conceptual	Group discussion
CO3	To savor and relish the taste Essay writing world. To understand the way to write an essay in Hindi.	Analyzing	Analytical	Class Presentation
CO4	To learn to do translation in Hindi language. To get well versed in the language.	Understanding	Analytical	Writing skill
CO5	To develop writing skills like comprehension passage, proverb writing and story writing for the given proverb in the students.	Analyzing	Analytical	Poster presentation

Programme	CourseCode	Title
All UG	20HLU02	HINDI II

Preamble : **To develop the writing and spoken skill of Hindi language to the Students.**

Expected Level of Output : **Conceptual Level**

Department offered : **Languages (Hindi)**

Prerequisites : **The second language of the students in 12th standard should be Hindi.**

Course Outcomes : **To make students know the Hindi literature.**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To gain knowledge in old hindi literature especially Ramayan.The different khands in Ramayana.	Understanding	Conceptual	Quiz
CO2	To understand the conversational language, style of new poems, nuances and methodologies in writing an poem.	Applying	Conceptual	Quiz
CO3	To savour and relish the taste of the letter writing world. To understand the making of letter,personal letters, government letters and different types of letters.	Analyzing	Analytical	Class Presentation
CO4	To understand the techniques of Hindi language and grammer. To get well trained in translating hindi passages to English passages	Understanding	Analytical	Class Presentation
CO5	To develop writing skills like comprehension passage, hints development ,spoken hindi and dialogue writing in hindi.	Analyzing	Analytical	Writing Skill

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	CourseCode	Title
I Years (Except CSHM)	20FLU01	French I

Preamble : French I aims at the acquisition of the French language competences described in A1. 1st level of the *Common European Framework of Reference for Languages*(CEFR).

Expected Level of Output : Conceptual Level

Department : Language

Prerequisites : Second Language French at HSS, TN

Course Outcomes :

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To capture the essence of simple and clear announcements and messages. To introduce oneself and demand introduction from a second person.	Remembering Understanding	Conceptual	Quiz
CO2	To find predictable information in everyday documents such as sign boards and maps,To write the addresses on the postal cards.	Understanding Applying	Conceptual	Writing skills
CO3	To order food at the restaurant and cafeteria. To express one's likes, dislikes and hates.	Understanding Analyzing	Analytical	Class Presentation
CO4	To understand brief advertisements: and short texts very well. To describe one's point of view.	Remembering Applying	Analytical	Quiz
CO5	To use simple phrases and expressions to describe his hobbies. To write about one's daily activities.	Remembering Applying	Conceptual	Writing skills

Programme	CourseCode	Title
All I UG (Except CSHM)	**20FLU02**	**French II**

Preamble : Aims at the acquisition of the French language competences described in A1. 1st level of the Common European Framework of Reference for Languages (CEFR).

Expected Level of Output : Conceptual Level

Department offered: : Language

Prerequisites : French paper I level

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CO1	To introduce one's family. To talk about festivals in France.	Remembering	Conceptual	Class Presentation
CO2	To describe a problem in one's area. Describe a problem in one's area. Describe apartments, lodgement and furnitures.	Understanding	Conceptual	Class Presentation
CO3	To express the routes. To express one's preference: sensation and surprise.	Analyzing	Analytical	Group Discussion
CO4	To express a negative emotion and to give advices.	Remembering	Analytical	Writing Skills
CO5	To understand the programs in the university. To ask the details of the programs in the university.	Applying	Conceptual	Poster Presentation/Flow Charts/Miniatures Protocols

Programme	Course Code	Title
I Year CSHM	20FHU01	French for Hotel Management I

Preamble : **Aims at the acquisition of the French language competences described in A1. 1st level of the Common European Framework of Reference for Languages (CEFR).Expected level of output: Knowledge in verbs, vocabularies and culture**

Department offered : **I Year CSHM**

Prerequisites : **Second Language French at HSS, TN**

Course Outcomes : **Conceptual level**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CLO1	To apprehend to greet, introduce, spell, communicate in class, to promote strategies, understand the text in French.	C1 Remember	Knowledge	MCQ / Written Test
CLO2	To anticipate of asking and giving personal information expressing goals and informing about nationality and enquiring objectives	A2 Responding Phenomena	Communication Skills	Presentation / Role Play
CLO3	To narrate about the sights Neighbourhood or cities	A3 Valuing	Life long learning	Assignment
CLO4	To enhance taste and interest to talk about the first impression the generates someone's character	Remembering	Applying	Quiz
CLO5	To prepare a note on preparation of cassoulet in French.the university. To ask the details of the programs in the university.	Remembering	Applying	Writing Skills

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Kuniamuthur, Coimbatore – 641 008.

Programme	Course Code	Title
I Year CSHM	20FHU02	French for Hotel Management II

Preamble : **Aims at the acquisition of the French language competences described in A1. 1st level of the Common European Framework of Reference for Languages (CEFR).**

Department offered : **I Year CSHM**

Prerequisites : **Knowledge in French for Hotel Management I**

Course Outcomes : **Conceptual level**

Course Outcome	Description	Bloom's Taxonomy Level	Skill Mapping	Capstone Evaluation
CLO1	To declare habits to express frequency of times to enunciate the sequence of action	C1 Remember	Knowledge	MCQ / Written Test
CLO2	To upgrade the information of a product involving buying and selling, how one sets dressed gives an opinion on how to dress up the time he has done	A2 Responding Phenomena	Communication Skills	Presentation / Role Play
CLO3	To develop discussions for information about a dish, order in a French restaurant, express quantity and of actions in future	A3 Valuing	Life long learning	Assignment
CLO4	It recalls to speak of experiences of what we know to do and past facts	Remembering	Applying	Quiz
CLO5	To construct to write a list of French wines and cheese	Remembering	Applying	Writing Skills

1	**Name of the Course**	Fundamentals of Biological Sciences
2	**Course Code**	21BIP01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of structural and functional accepts of the cell and the molecular mechanisms regulating cellular function.
5	**Semester and Year Offered**	Ist Sem.; Year: I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on cell biology, molecular biology and immunology.
8	**Assessment Strategy**	50 % External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the basic principles of the Central Dogma of biology and understanding of biological process	C5 -Evaluate- Cognitive Domain	Tutorial	Essay Written Test
CLO 2	**Describe** the application of immunology, genomics and biochemistry in understanding the mechanism of molecular signaling. **Generalize** the basics of Immunity and overview of immune system.	A4- Organizing values Affective Domain A5 - Internalizing values Affective Domain	Flip classroom Group Discussion	Poster presentation Assignments
CLO 3	**Generalize** the basics of Immunity and overview of immune system.	A5 - Internalizing values Affective Domain	Group Discussion	Portfolio

1	**Name of the Course**	Biological Data Analytics.
2	**Course Code**	21BIP02
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a brief knowledge on Bioinformatics data bases and Sequence analysis methods.
5	**Semester and Year Offered**	Ist Sem.; Year: I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Biological database and its applications.
8	**Assessment Strategy**	50 % External and 50% Internal

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the basic methodologies of biological sequence and structure analysis and make the students familiarize with the understanding of the application of dynamic programming.	C5 – Evaluate Cognitive Domain	Tutorial	Essay Written Test
	CLO 2	**Explain** the applications of biological databases to enhance the discovery of biomarkers.	A4 - Organizing values - Affective Domain	Group Discussion Tutorial	Group Assignment Project Based Learning
	CLO 3	**Determine** the understanding of pattern matching algorithms and application of Machine Learning Methods.	C5 – Evaluate - Cognitive Domain	Tutorial	Simulation Exercise

1	**Name of the Course**	Sequencing Technologies
2	**Course Code**	21BIP04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students knowledge on Sequencing and gene structure prediction.
5	**Semester and Year Offered**	I Sem.; Year: I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Biological sequencing and mapping.
8	**Assessment Strategy**	50 % External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the basic methodologies of physical and genetic mapping and make the students familiarize with the understanding of the specific biomarkers to enhance gene therapy.	C5 – Evaluate - Cognitive Domain	Tutorial	Essay Written Test
CLO 2	**Explain** the applications of recent technologies in Sequencing.	A4 – Organizing values - Affective Domain	Flip classroom	Technical Presentation Portfolio
CLO 3	**Verify** the understanding of identifying the differences between second and third generation.	A5 - Affective Domain	Fishbowl Techniques	Assignments

1	**Name of the Course**	Lab in Biological Techniques
2	**Course Code**	21BIP05
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To understand the Microbiome, Biomolecules and their reactions by performing the different experiments.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge on Biology
8	**Assessment Strategy**	50% External and 50% Internal

9	**Course Learning Outcomes (write the statement of the course learning outcomes)** At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Perform** the enumeration and pure culture techniques	P5 - Perception Psychomotor Domain	Practical	Practical Test
	CLO 2	**Perform** the isolation of various types of DNA and detect the biomolecules and their reactions	P5- Perception - Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Perl Programming
2	**Course Code**	21BIP07
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To students to understand work on scripting and object-oriented concepts with flexibility and more Readily modules to develop applications in Bioinformatics.
5	**Semester and Year Offered**	II Sem; Year: I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	knowledge on Object Oriented Programming
8	**Assessment Strategy**	50 % External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the modules of programming and make the students familiarize with the understanding of the specific module to perform a specific task.	C5 - Evaluate - Cognitive Domain	Tutorial	Essay Written Test
CLO 2	**Explain** the applications of CPAN based module and File Handling. .	C6 - Create - Cognitive Domain	Tutorial	Technical Presentation Portfolio
CLO 3	**Identify** the various control statements in programming	A4 - Organizing values - Affective Domain	Flip classroom	Assignments

1	**Name of the Course**	Biomolecular Structure and Interaction
2	**Course Code**	21BIP08
3	**Course Type**	This course has five credits dedicated to Students to understand the bonding and non-bonding association of Biomolecular Interaction
4	**Synopsis/Rationale of the Module**	II Sem; Year: I
5	**Semester and Year Offered**	5
6	**Credit Value**	Knowledge on chemistry and understanding the mechanism of a biophysical process.
7	**Pre-requisite (if any)**	50 % External and 50% Internal
8	**Assessment Strategy**	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the biophysical process and make the students familiarize with the understanding of various types of possible interactions in bio molecules.	C5 – Evaluate - Cognitive Domain	Tutorial	Essay Written test
CLO 2	**Explain** the applications of recent technologies in understanding the mechanism that trigger the biological process on the basis of biophysics.	A4 - Organizing values - Affective Domain	Flip classroom	Poster Presentation Assignments
CLO 3	**Explain** the concepts of identifying differences between bonding and no bonding interactions.	A5 - Internalizing values - Affective Domain	Group Discussion	Portfolio

1	**Name of the Course**	Lab in Biological Data Analytics
2	**Course Code**	21BIP11
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This course provides the knowledge on the various techniques involved in the Biological Software and Tools.
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic understanding of Biological Database and Tools
8	**Assessment Strategy**	50 % Internal and 50 % External

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Perform** the enumeration and pure culture techniques	P5 - Perception Psychomotor Domain	Practical Practical	Practical Test
	CLO 2	**Perform** the various types of DNA isolation and detect the biomolecules and their reactions	P5 - Perception Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	rDNA Technology
2	**Course Code**	21BIP12
3	**Course Type**	This course has five credits dedicated to Students to understand the application of recombinant DNA technology in Pharmaceutics.
4	**Synopsis/Rationale of the Module**	II Sem; Year: I
5	**Semester and Year Offered**	4
6	**Credit Value**	Knowledge on biomedical genetics and understanding the mechanism of a biochemical process.
7	**Pre-requisite (if any)**	Knowledge on metabolic process.
8	**Assessment Strategy**	50 % External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the impact of genetic recombinants and make the students familiarize with the understanding of technologies associated in making a recombinant bio molecule.	C5 – Evaluate - Cognitive Domain	Tutorial	Essay Written test
CLO 2	**Explain** the applications of recent technologies in understanding the mechanism that trigger the biological process on rDNA vaccines.	A4 - Organizing values - Affective Domain	Flip classroom	Poster Presentation Assignment
CLO 3	**Verify** the differences between synthetic constructs and biological products.	A5- Internalizing values Affective Domain	Group Discussion	Portfolio

1	**Name of the Course**	Metabolomics
2	**Course Code**	21BIP13
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has five credits dedicated to Students should be able to understand the metabolism pathway
5	**Semester and Year Offered**	II Sem.; Year: I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on metabolic process.
8	**Assessment Strategy**	50 % External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the metabolic process and make the students familiarize with the understanding of enzyme kinetics.	C6 – Create - Cognitive Domain	Tutorial	Essay Written test
CLO 2	**Explain** the applications of recent technologies in understanding the mechanism that trigger the biological process.	A4 - Organizing values - Affective Domain	Flip classroom	Poster Presentation Assignment
CLO 3	**Verify** the concepts of enzyme database. lock and key and induced fit model.	A5 - Internalizing values-Affective Domain	Group Discussion	Portfolio

1	**Name of the Course**	Integral Microbiology
2	**Course Code**	21RDC01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course delivers the students with a basic input on the scope of microbiology and microbial techniques
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on Basic Biology
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the history of Microbiology and different types of Microscopy and the Microbial staining methods.	C2–Understand Cognitive Domain	Lecture	MCQs Written Test
CLO 2	**Present** the various methods used for Sterilization, enumeration of microbes and microbial culturing techniques	C3 - Apply - Cognitive Domain	Tutorial	PBL Simulation exercise
CLO 3	**Generalise** the various techniques used for the Maintenance and Preservation of culture.	A4 - Organizing values - Affective Domain	Flip Class room	Assignment

1	**Name of the Course**	Biochemistry
2	**Course Code**	21BDC02 / 21RDC02
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course delivers the students with a rudimentary understanding on the structure and function of Biomolecules. It enables students to solve significance in biomolecules and their basic knowledge and its significances.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on Basic Biology
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the bioenergetics in biological science and structural elements of Carbohydrates in the biological system	A1 Receiving Phenomena - Affective Domain	Flip Class Room	Technical Presentation Poster Presentation
CLO 2	**Illustrate** the functional groups and associated lipids in the biological system and structural features of amino acids and proteins	C2- Understand - Cognitive Domain	Lecture	MCQ Written Test
CLO 3	**Explain** the basic structural features and the role of vitamins and minerals.	A3- Valuing - Affective Domain	Group Discussion	Assignment

1	**Name of the Course**	Lab in Microbiology and Biochemistry
2	**Course Code**	21RDC03
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This Practical / Laboratory course is designed to provide the students with the knowledge to use Microscope and visualizing the cells.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Basic knowledge in biology
8	**Assessment Strategy**	25% External and 25% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Identify** the suitable staining techniques to differentiate microorganisms	P3 - Guided Response- Psychomotor Domain	Practical	Practical Test
CLO 2	**Measure** the levels of macromolecules by using appropriate technique and analyzing the amino presence by using chromatography	P4 – Mechanism- Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Biophysics and Bioinstrumentation
2	**Course Code**	21BDE01 / 21RDE01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course offers the students with a basic understanding the principles and applications of basic instruments in biological sciences and also It enables the students to get instrumentation knowledge.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge in Science
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Analyse the principle of biophysics and types of pH meter and Centrifuge and analyse the technique of chromatography	C4 Analyse - Cognitive Domain	Lecture	MCQs Quiz
CLO 2	Explain the basic principles and types of Electrophoresis and the basic principles, working and types of spectroscopies	A3- Valuing - Affective Domain	Flip Class Room	Group Assignment Group Report
CLO 3	Generalise the working and applications of radioactivity, Microarray, Fluorescent activated cell sorting	A4- Organizing values - Affective Domain	Flip Class Room	Assignment

1	**Name of the Course**	Microbial Diversity
2	**Course Code**	21RDC04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course delivers the students with a basic understanding on classification systems of bacteria, fungi, algae, protozoan and viruses
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge on Biology, Prokaryotes and Eukaryotes.
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the taxonomy and its methods in Microbial Classification system.	C2 – Understand – Cognitive domain	Lecture	MCQs Written test
CLO 2	**Discuss** the major divisions of Bergey"s Manual of Systematic Bacteriology	A2 – Responding to Phenomena – Affective Domain	Flip Class Room	Technical Presentation Poster Presentation
CLO 3	**Explain** thegeneral structure, classification, growth**,** reproduction of fungi, algae, protozoa and virus.	A4 – Organizing Values – Affective Domain	Group Discussion	Assignment

1	**Name of the Course**	Microbial Physiology and Metabolism
2	**Course Code**	21RDC05
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course provides the students to get detailed about the dynamic of bacterial growth and physiological adaptation of bacteria to various environmental factors. Bacterial metabolism and diversity of energy production pathways used by various microorganisms.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Basic knowledge about micro-organisms and its cellular functions
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the nutritional requirements of microbes and the effect of environmental factors on the growth of microorganism and Classify the various transport mechanisms in microbes	C2-Understand-Cognitive Domain	Lecture	MCQs Written test
CLO 2	**Explain** the metabolic pathways and fermentation mechanisms in microbes	A3 – Valuing – Affective Domain	Flip Class Room	Group Assignment Group Report
CLO 3	**Interpret** about enzymes, its kinetics and phototropic metabolism.	A5 – Internalizing Values – Affective domain	Group Discussion	Poster Presentation

1	**Name of the Course**	Lab in Microbial Physiology and Metabolism
2	**Course Code**	21RDC06
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To provide basic practical skills on microbial physiology and metabolism
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Basic working Level in microbiology
8	**Assessment Strategy**	25% External and 25% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Perform** the experiment to measure the microbial growth and factors influencing the microbial growth.	P3- Guided Response - Psychomotor Domain	Practical	Practical Test
CLO 2	**Identify** the various mechanisms of bacterial metabolism by detecting the secretion of metabolites and the DNA from bacteria and microscopic examination of algae	P6 - Adaption Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Academic Skill for Biosciences
2	**Course Code**	21AEC35
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Not Applicable
8	**Assessment Strategy**	100 % Theory (100% Internal)

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Produce** an effective personal development plan with the use of effective learning skills	C3 - Apply-Cognitive Domain	Lecture	Assignment
CLO 2	**Use** of Bioresources effectively for academic presentation and communication	A1 - Receiving Phenomena - Affective Domain	Tutorial	Report writing
CLO 3	**Assist** in continual desire to validate effective team work with application of effective time management skills	A3 – Valuing-Affective Domain	Tutorial	Group work

1	**Name of the Course**	Advances in Cell Biology
2	**Course Code**	21BTP01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To make the students to understand the organization of various cellular components, cytoskeletal structure and the amazing physiology of cellular interactions and communication both with the matrix and the genetic components.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Aggrandize on Cell its structure and mechanisms of cellular interactions
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** about the cell origin and its components, tools in cell biology and structure and function of cell components	C6-Create-Cognitive Domain	Lecture	MCQs Written Exam
CLO 2	**Generalize** about the cytoskeleton and transport of molecules in the cells.	A4-Organising Values-Affective Domain	Tutorial	Group Report
CLO 3	**Explain** the process of signaling, cycle death of cells and cancer.	A4-Organising Values-Affective Domain	Group Discussion	Portfolio Group Assignment

1	**Name of the Course**	Advanced Biochemistry
2	**Course Code**	21BTP02
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course provides the students to understand the knowledge on fundamentals of biophysics, biomolecules and metabolic pathways of the living system It enables students to solve significance in biomolecules.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge on Biomolecules.
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the bioenergetics in biological science	A4-Organising values- Affective Domain	Group Discussion	Poster Presentation
CLO 2	**Summarize** the functional groups and associated with carbohydrates, lipids, amino acids and proteins in the biological system	C5- Evaluate - Cognitive Domain	Lecture	Written test Essay
CLO 3	**Defend** the basic structural features and the role of nucleic acids, vitamins and minerals.	A5- Internalizing values - Affective Domain	Flip Classroom	Assignment Report

1	**Name of the Course**	Microbial Biotechnology
2	**Course Code**	21BTP03
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course provides students with an advanced technical knowledge of biotechnological applications in microbiology
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Basic Microbiology.
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Assess** the history of microbiology, biography of eminent scientists and the different types of Microscopies and the Microbial staining methods.	C5-Evaluate-Cognitive Domain	Lecture	Essay
CLO 2	**Explain** the basic principles of various methods of sterilization and principles of various nutrient media and its isolation procedures and also the antimicrobial chemotherapy	A4-Organizing Values-Affective domain	Flip Classroom	Technical Presentation Journal Review
CLO 3	**Formulate** the production of products through microbes.	A4- Organizing Values- Affective Domain	Group discussion	Group Assignment Group Report

1	**Name of the Course**	Inheritance Biology
2	**Course Code**	21BTP04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is dedicated to provide knowledge on Mendelian Genetics, Extrachromosomal Inheritance, Molecular Genetics, causes of mutation and population genetics
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Basic Biology
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the basic laws governing the pattern of inheritance familiarize the students with the basic concepts of extrachromosomal inheritance.	A4-Organizing values - Affective Domain	Flip Classroom	Technical Presentation Journal Review
CLO 2	**Summarize** about replication, transcription, translation gene regulation in both prokaryotes and eukaryotes along with the importance of mutation and their analysis.	C5- Evaluate - Cognitive Domain	Tutorial	Essay Written Test
CLO 3	**Practice** the calculation for genetic transformation, genetic counselling and importance of Human Genome Project.	A4- Internalizing values - Affective Domain	Case study	Portfolio

1	**Name of the Course**	Immunotechnology
2	**Course Code**	21BTP05
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is dedicated to provide knowledge on immune system, immune responses, immunogenetics, antigen -antibody reactions, vaccines and clinical immunology.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge on immune system
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the components of innate and acquired immunity, MHC molecules, immunoglobulins and antigens.	A4 Organizing values - Affective Domain	Flip Classroom	Technical Presentation Portfolio
CLO 2	**Interpret** the antigen – antibody interactions, immunological techniques, types of vaccination and vaccines.	A5- Internalizing values - Affective Domain	Group Discussion	Group Assignment Group Project
CLO 3	**Categorize** the infection immunity, hypersensitivity, immunodeficiency, transplantation and tumor immunology	C6-Create-Cognitive Domain	Lecture	Essay

1	**Name of the Course**	Lab in Cell Biology and Microbial Biotechnology
2	**Course Code**	21BTP06
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To understand the Biochemical and immunological reactions by performing the different experiments.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Rudimentary knowledge on cell biological and microbial technologies
8	**Assessment Strategy**	50% External and 50 % Internal

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**
At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Make** the investigation on types of cells and studying the cell cycle using the different cells and to study the staining and growth of microbes	P7 - Organization Psychomotor Domain	Practical	Practical Test
CLO 2	**Build** the microbes from various sources such as water and food, also analyzing the antimicrobial and isolation the mutant strains	P7 - Organization Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Lab in Biochemistry and Immunotechnology
2	**Course Code**	21BTP07
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To understand the Biochemical and immunological reactions by performing the different experiments.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge on biochemical and immunological analysis.
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Initiate** the estimation of biomolecules and amylase to know about their optimized levels and to find the the thin layer chromatographic technique to know the separation of biomolecules.	P7 - Organization Psychomotor Domain	Practical	Practical Test
CLO 2	**Reorganize** the pathogens of immune system and to know the diagnosis of immunological disorders.	P7 - Organization Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Environmental Biotechnology
2	**Course Code**	21BTP08
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To provide knowledge in the natural environment, and the associated Environmental Pollution issues and treatment strategies
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge on Environmental studies
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the Biodiversity conservation, Industrial waste water treatment and management	A4 Organizing values - Affective Domain	Flip Classroom	Technical Presentation Portfolio
CLO 2	**Explain** about the Solid waste Management, Energy Production, Bioremediation and Biodegradation	A5- Internalizing values - Affective Domain	Group Discussion	Group Assignment Group Project
CLO 3	**Interpret** the metal, genetic and pesticide toxicology	C6-Create-Cognitive Domain	Lecture	Essay

1	**Name of the Course**	Bioprocess Engineering and Technology
2	**Course Code**	21BTP09
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is dedicated to provide knowledge on industrial biotechnology, design and operation of fermenters, industrial production, upstream processing and downstream processing
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on microbial technology
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the basics of industrial fermentation process, its types, applications and rheological properties	A5- Internalizing Values- Affective domain	Flip Classroom	Technical Presentation Poster Presentation
CLO 2	**Relate** the design and operation of different reactors and apply them in upstream process of industrial production	A4- Organizing values- Affective domain	Group Discussion	Assignment Portfolio
CLO 3	**Interpret** the downstream processing techniques in industrial production	A5- Internalizing values- Affective domain	Fishbowl Techniques	Industrial Attachment

1	**Name of the Course**	Genetic Engineering and Bioethics
2	**Course Code**	21BTP10
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	Expose the students to the recent tools and techniques in genetic engineering and to introduce them the bioethical principles
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge in recombinant DNA technology
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Derive** the foundations of genetic engineering - the enzymes and different types of vectors used.	C6-Create-Cognitive domain	Tutorial	Essay Written Test
CLO 2	**Identify** methods of DNA insertion into host cells- library and microarray construction-protein-DNA and protein-protein interactions.	A4- Organizing values- Affective domain	Flip Classroom	Technical Presentation Portfolio
CLO 3	**Discriminate** the principles of bioethics - IPR - patents - copyrights - trademarks	A5- Internalizing values- Affective domain	Group Discussion	Assignment

1	**Name of the Course**	Lab in Bioprocess technology and Environmental Biotechnology
2	**Course Code**	21BTP11
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To understand the production and treatment methods by using various techniques.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Fundamental acquaintance on microbial technology and environmental biotechnology.
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Construct** the parts of fermentor and to perform the production of alcohols, acids and enzymes using the microbes.	P7-Organizaition-Psychomotor Domain	Practical	Practical Test
CLO 2	**Revise** the level of oxygen and solids in the water and sewage samples and analysing the xenobiotic organism	P6-Adaptation-Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Lab in Genetics and Genetics Engineering
2	**Course Code**	21BTP12
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To understand and analyses the cell transformation and genetic linkages through various experimentation.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Fundamental information on genetics and genetic engineering
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Initiate** the analysis of experimental design of genetic studies	P7-Organizaition-Psychomotor Domain	Practical	Practical Test
CLO 2	**Revise** the quantity of plasmid DNA and analyses its digestion using restriction enzyme and to find the transformed cells using Xgal and blotting methods	P6-Adaptation-Psychomotor Domain	Practical	Practical Test

1	**Name of the Course**	Enzyme and Enzyme Technology
2	**Course Code**	21BTP13
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is dedicated to provide knowledge on enzymes, enzyme kinetics and mechanism of action of enzymes, and its application
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge on Biochemistry
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the Classification, nomenclature and general properties of enzymes	C6-Create-Cognitive domain	Tutorial	Essay
CLO 2	**Defend** about the role of co-enzyme in enzyme catalysis.	A4- Organizing values- Affective domain	Flip Classroom	Technical Presentation Portfolio
CLO 3	**Interpret** practical aspects of large - scale protein purification, use of soluble enzymes.	A5- Internalizing values- Affective domain	Group Discussion	Assignment Business Simulation

1	**Name of the Course**	Bionanotechnology
2	**Course Code**	21BTP14
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To provide knowledge in the current field of Bionanotechnology and latest trends in Nano level application of Bio nanoparticles in the medical.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge on Nanotechnology
8	**Assessment Strategy**	50% External and 50 % Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the nanomaterials, nanotubes, the challenges in nanotoxicology and drug targeting.	A4-Organinizg Values-Affective domain	Flip classroom	Technical Presentation Journal Review
CLO 2	**Interpret** the interaction of nanoparticles, disposition and nanotech market place.	A5-Internalising Values-Affective domain	Group Discussion	Assignment Portfolio
CLO 3	**Categorize** the types of nanomaterial hazards	C6- Create-Cognitive Domain	Tutorial	Written test

1	**Name of the Course**	**Academic Skills for Psychology**	
2	**Course Code**	22AEC39	
3	**Course Type**	Skill Based	Focus On- **Skill Development**
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Psychology. It also enables the students to know necessary skills in the field of psychology	
5	**Semester and Year Offered**	I Semester I Year	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	Internal 50%; External 50%	

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	Present the need and importance of academic and Psychological skills	A2-Responding to Phenomena – Affective Domain	Tutorial	1.Poster presentation
	CLO 2	Propose a case study based on the basic and advanced level of skills	A3 – Valuing – Affective Domain	Case Study/ Project/ Tutorial	2. Role Play 3. Case Study
	CLO 3	Formulate a learning model for enhancement and development of skills	A4 – Organizing Values – Affective Domain	Case Study/ Project/ Group Work/PBL	4. Field Work 5.Final Portfolio

10	**Mapping CLO's with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 5 etc.,)**											
	CLO	**PLO 1**	**PLO 2**	**PLO 3**	**PLO 4**	**PLO 5**	**PLO 6**	**PLO 7**	**PLO 8**	**PLO 9**	**PLO 10**	**PLO 11**
	CLO 1					3						
	CLO 2									3		
	CLO 3				**2**							3

1	**Name of the Course**	Fundamentals of Psychology	Fundamentals of Psychology - Practical
2	**Course Code**	THEORY - 22PSU01A	PRACTICAL - 22PSU01B
3	**Course Type**	Theory and Practical – **Embedded**	Focus On – **Employability/ Skill Development**
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of different subfields of psychology and also the basic concepts of learning & memory.	
5	**Semester and Year Offered**	I Semester; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	Internal 50%; External 50%	

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**
At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Understand** the basic concepts of psychology(C2)	C2-Understand-Cognitive Domain	Lecture	**CIA & ESE**
CLO 2	**Discuss** the classification of the schools of psychology (A2)	A2-Responding to Phenomena	Case study Assignments/ Group Discussion	1. Group Assignment
CLO 3	**Sketch** the use and concepts of various theories relating to practical life situations (C3).	C3- Apply-Cognitive Domain	Lecture	**CIA & ESE**
CLO 4	**Explain** the various principles of learning(A3)	A3-Value-Affective Domain	Group Discussion	2. Presentation 3. Assignment
CLO 5	**Show** the procedure for each apparatus & administer the assessment tool. (P2)	P2- Set-Psychomotor Domain	Practical/ Demonstration	4.Practical Tests 1 5.Practical Tests 2

10 **Mapping CLO's with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 4 etc.,)**

CLO	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CLO 1	2	3									
CLO 2				3							
CLO 3	2	3									
CLO 4					3				2		
CLO 5			3								

1	**Name of the Course**	Child Psychology	
2	**Course Code**	22PSU02	
3	**Course Type**	Theory	Focus On – **Employability**
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a basic understanding of developmental stages from infancy to childhood. It enables students to understand the psychological States at different growth levels.	
5	**Semester and Year Offered**	I Semester; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% Internal 50% External	

9	**Course Learning Outcomes (write the statement of the course learning outcomes)** At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Explain** the different stages of lifespan of an individual (C2)	C2-Understand-Cognitive Domain	Lecture/Tutorial	**CIA & ESE**
	CLO 2	**Label** the developmental tasks of the various stages of development. (A2)	A2-Respond – Affective Domain	Group Discussion	1. Group Assignment 2. Presentation 3.Role Play
	CLO 3	**Classify** the characteristics of child development from babyhood to early childhood (C3)	C3-Understand-Cognitive Domain	Lecture/Tutorial	**CIA & ESE**
	CLO4	**Assist** each other & work in harmony to showcase the period of Child development in detail. (A3)	A3-Value – Affective Domain	Group discussion/ Group work	4.Movie Review 5.Socratic Seminar

10 **Mapping CLO's with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 4 etc.,)**

CLO	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CLO 1	2	3									
CLO 2				3	2						
CLO 3	2	3									
CLO 4					3				1		

1	**Name of the Course**	Biopsychology	
2	**Course Code**	22PSU03	
3	**Course Type**	Theory	Focus On – **Employability**
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of the Brain, nervous system and its functions.	
5	**Semester and Year Offered**	I Semester; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% Internal, 50% External	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Reproduce** the different parts of the brain along with its mechanism and the various glands, its functions & its role in psychological aspects. (C1)	C1-Remember-Cognitive Domain	Lecture/Tutorial	**CIA & ESE**
CLO 2	**Present** the various brain parts and associated behaviour / Hormones and associated Behaviour(A2)	A2-Respond to Phenomena – Affective Domain	Case study Assignments / Group Discussion	1. Group Assignments 2. Group Reports 3. Case Study Assignment
CLO 3	**Demonstrate** the nervous system and the transmission of nerve impulses stressing the role of neurotransmitters(C3)	C3-Apply-Cognitive Domain	Lecture/Tutorial	**CIA & ESE**
CLO 4	**Explain** the nerve connection, neural impulses & its relationship with the nervous system. (A3)	A3-Valuing – Affective Domain	Group discussion/ Group work	4. Technical Presentation 5. Poster Presentation

10	Mapping CLO's with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 4 etc.,)											
	CLO	**PLO 1**	**PLO 2**	**PLO 3**	**PLO 4**	**PLO 5**	**PLO 6**	**PLO 7**	**PLO 8**	**PLO9**	**PLO 10**	**PLO 11**
	CLO 1	3										
	CLO 2				3							
	CLO 3	2	3									
	CLO 4					3				2		

1	**Name of the Course**	Principles of General Psychology	Principles of General Psychology –Practical
2	**Course Code**	THEORY - 22PSU04A	PRACTICAL - 22PSU04B
3	**Course Type**	Theory and Practical – **Embedded**	Focus On – **Employability/ SkillDevelopment**
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of different subfields of psychology and alsothe basic concepts of learning & memory.	
5	**Semester and Year Offered**	II Semester; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	Internal 50%; External 50%	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the basic concepts of psychology and the various basic psychological theories of emotions, cognition and motivation(C2)	C2-Understand-Cognitive Domain	Lecture	**CIA & ESE**
CLO 2	**Discuss** the theoretical classification of the motivation in various sectors (A2)	A2-Responding to Phenomena	Case study Assignments/ Group Discussion	1.Assignment 2. Article Review
CLO 3	**Demonstrate** the various basic psychological theories. (C3)	C3-Apply-Cognitive Domain	Lecture	**CIA & ESE**
CLO 4	**Explain** the various theories of Personality(A3)	A3-Value-Affective Domain	Group Discussion	3.Case Study Assignment
CLO 5	**Show** the procedure for each apparatus & assessment tool. (P2)	P2- Set-Psychomotor Domain	Group discussion/ Group work	4.Practical Tests 1 5.Practical Tests 2

10 **Mapping CLO's with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 4 etc.,)**

CLO	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CLO 1	3	2									
CLO 2				3							
CLO 3		2							3		
CLO 4				3							
CLO 5			3								

1	**Name of the Course**	Adolescent & Adult Psychology	
2	**Course Code**	22PSU05	
3	**Course Type**	Theory	Focus On – **Employability**
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of developmental stages from adolescent to adult. It enables students to understand the psychological states at different growth levels.	
5	**Semester and Year Offered**	II Semester; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% Internal, 50% External	

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the different development from late childhood to Adult. (C2)	C2-Understand-Cognitive Domain	Lecture/Tutorial	**CIA & ESE**
CLO 2	**Discuss** the various areas of development during adolescence stressing Physical & Psychological Hazards of Adolescence (A2)	A2-Respond - Affective Domain	Group discussion	1. Group Reports 2.Assignment 3.Technical Presentation
CLO 3	**Demonstrate** the developmental changes during middle and old age of a human life.(C3)	C3-Apply-Cognitive Domain	Lecture/Tutorial	**CIA & ESE**
CLO 4	**Explain** the hazards in each stage of lifespan development. (A3)	A3-Value – Affective Domain	Group discussion/ Group work	4. Assignment 5. Poster Presentation

10 **Mapping CLO's with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 4 etc.,)**

CLO	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CLO 1	3	1									
CLO 2				3	2						
CLO 3		3							2		
CLO 4					2				3		

1	**Name of the Course**	Biology of Behaviour	
2	**Course Code**	22PSU06	
3	**Course Type**	Theory	Focus On – **Employability**
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a basic understanding of physiological process of behaviour	
5	**Semester and Year Offered**	II Semester; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% Internal 50% External	

9	**Course Learning Outcomes (write the statement of the course learning outcomes)** At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the different types of reflexes, states of sleep along with its mechanisms. (C2)	C2- Understand - Cognitive Domain	Lecture	**CIA & ESE**
	CLO 2	**Present** the various sleep patterns and associated behaviour related to different brain damages, (A2)	A2- Respond to Phenomena – Affective Domain	Case study Assignments/ Group Discussion	1. Group Reports 2. Case Study Assignment
	CLO 3	**Demonstrate** somesthesis and the different sensory modalities and its functions(C3)	C3- Apply - Cognitive Domain	Lecture	**CIA & ESE**
	CLO 4	**Explain** the different sensory organs in the human body & its impact in an individual's behaviour. (A3)	A3- Valuing – Affective Domain	Group discussion/ Group work	3.Assignment 4.Technical Presentation 5. Model making

10	Mapping CLO's with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 4 etc.,)											
	CLO	**PLO 1**	**PLO 2**	**PLO 3**	**PLO 4**	**PLO 5**	**PLO 6**	**PLO 7**	**PLO 8**	**PLO 9**	**PLO 10**	**PLO 11**
	CLO 1	3										
	CLO 2				3				2			
	CLO 3	3	2									
	CLO 4				2	3				1		

1	**Name of the Course**	Experimental Psychology- I	
2	**Course Code**	22PSU07	
3	**Course Type**	PRACTICAL	Focus On –**Skill Development**
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a basic understanding of physiological process of behavior	
5	**Semester and Year Offered**	II Semester; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**	50% Internal 50% External	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Begin** to use the apparatus and tools in Psychology (P2)	P2 - Set - Psychomotor Domain	Practical/ Demonstration	Practical Tests
CLO 2	**Explain** the sensory abilities in relations to the behaviour (P2)	P2 - Set - Psychomotor Domain	Practical/ Demonstration	Practical Tests
CLO 3	**Show** the psychomotor abilities in relations to the behaviour. (P2)	P2 - Set - Psychomotor Domain	Practical/ Demonstration	Practical Tests

10 Mapping CLOs with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 4 etc.,)

CLO	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CLO 1			**3**			1					
CLO 2			**3**			2					
CLO 3			**3**			1					

1	**Name of the Course**	Yoga for Human Excellence
2	**Course Code**	22ANC04
3	**Course Type**	Skill Based
4	**Synopsis/Rationale of the Module**	This course has too completed by the students. It also enables the students to know necessary Yoga skills For Human Excellence
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	100% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Define** the basic concepts of Yogasanas, types and its benefits. (C1)	C2-Understand-Cognitive Domain	Lecture	MCQ
CLO 2	**Discuss** the art of nurturing the life force and mind and able to focuses on Purpose and Philosophy of life (C2)	C2- Guided response-Cognitive Domain	Lecture	Quiz
CLO 3	**Assist** each other & work in harmony and apply human resources development (A3)	A3-Value – Affective Domain	Group discussion/ Group work	Technical Presentation

10 Mapping CLO's with PLO's (select the learning domain for each CLO's and map it with PLO's; for example, CLO 1- Knowledge- PLO 1; CLO 2- Communication skills; PLO 4 etc.,)

CLO	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CLO 1	√										
CLO 2		√									
CLO 3									√		

1	**Name of the Course**	Capstone Project
2	**Course Code**	21AEC50
3	**Course Type**	Project
4	**Synopsis/Rationale of the Module**	"Learning to Learn" is an important Graduate Attribute. It is required to develop this skill in students so that they continue to acquire on their new knowledge and skills from different 'on the job experiences' during their career in industry. An education 'project' just does that and may be defined as 'a purposeful student activity, planned, designed and performed by a student or group of students to solve/ complete the identified problem/task which require students to integrate the various skills acquired over a period to accomplish higher level cognitive and affective domain outcomes and sometimes the psychomotor domain outcomes as well".
5	**Semester and Year Offered**	II Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Not Applicable
8	**Assessment Strategy**	100 Practical (50 %Internal & 50% External)

9. Learning outcomes and assessment:

The following could be some of the major course outcome depending on the nature of projects undertaken.

- Formulate specific psychological problem statements with reasonable assumptions and constraints based on the chosen domain or Industry.
- Perform extensive literature search to explore the state-of-the-art development occurred in the recent past.
- Logically choose relevant possible solution or Design novel solutions by conducting experiments in an iterative manner and document the results.
- Consider a clear understanding of professional and ethical responsibility and Confidentiality.
- Synthesize the results and arrive at scientific conclusions and assess its impact on the society.
- Document the results in the form of technical report followed by presentation.
- Communicate effective as a member of the team as well as leader of the team.

1	**Name of the Course**	**Basic Electronics And Network Analysis**
2	**Course Code**	21EDC01
3	**Course Type**	Theory
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course aims to equip the students with an understanding of the fundamental principles of electronics and its components. This course covers the topics related to the analysis of AC and DC circuits, applications of network theorems, and two-port networks.
6	**Semester and Year Offered**	I Semester & I Year
7	**Credit Value**	3
8	**Pre-requisite**	Basic Physics
9	**Assessment Strategy**	50% External &50% Internal

10 Course Learning Outcomes

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

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Understand** the electronic components used for different electronic functions.	C2 (Understand)	Lecture/ Tutorial	Aptitude/ MCQ/Quiz
CLO 2	**Demonstrate** problem-solving skills and proficiency in AC and DC circuit analysis.	C3 (Apply)	Lecture/ Tutorial/ Case Study	Assignment/ Case studyAssignments/ Essay
CLO 3	**Analyse** electric circuits using network theorems and two-port parameters.	C4 (Analyse)	Lecture/ Tutorial/ Case Study	Case study Assignment/ Simulation Exercise

1	**Name of the Course**	**Basic Electronics And Network Analysis Lab**
2	**Course Code**	21EDC02
3	**Course Type**	Practical
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course aims to enable the students to understand the basic concepts of simple AC & DC circuits and analyse the networks by applying various network laws and theorems practically.
6	**Semester and Year Offered**	I Semester & I Year
7	**Credit Value**	2
8	**Pre-requisite**	Basic Physics
9	**Assessment Strategy**	50% External & 50% Internal

10 Course Learning Outcomes

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

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Identify** the electronic components and explore the output of their series and parallel combinations in a network.	P1 (Perception)	Practical Demonstration	Practical Test/ Computer Simulation
CLO 2	**Construct** AC and DC circuits using network laws and theorems, and perform measurements with electronic test equipment.	P3 (Guided Response)	Practical Demonstration	Practical Test/ Computer Simulation

1	**Name of the Course**	**Semiconductor Devices**
2	**Course Code**	21EDC03
3	**Course Type**	Theory
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students to understand the basic physics governing the semiconductors, to acquaint with analysing semiconductor devices and to inculcate the knowledge to analyse Diodes, BJT, FET, MOSFET and Thyristors and other Opto-electronic devices for their comparative analysis.
6	**Semester and Year Offered**	I Semester & I Year
7	**Credit Value**	3
8	**Pre-requisite**	Basic Electronics
9	**Assessment Strategy**	50% External & 50% Internal

10 Course Learning Outcomes

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

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Know** the basic structure, properties and working principles of P-N junction circuit elements.	C1 (Remember)	Lecture/ Tutorial	Aptitude/ MCQ/ Quiz
CLO 2	**Comprehend** the construction, theory and characteristics of the transistors, FET and Thyristors.	C2 (Understand)	Lecture/ Tutorial/ Case Study	Assignment/ Case study Assignments/ Essay
CLO 3	**Interpret** the basic working mechanism and applications of the opto-electronic devices.	C3 (Apply)	Lecture/ Tutorial/ Case Study	Case Study Assignment/ Simulation Exercise

1	**Name of the Course**	**Semiconductor Devices Lab**
2	**Course Code**	21EDC04
3	**Course Type**	Practical
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course has two credits providing the students to evaluate the operational characteristics of semiconductor devices.
6	**Semester and Year Offered**	I Semester & I Year
7	**Credit Value**	2
8	**Pre-requisite**	Electronic Devices
9	**Assessment Strategy**	50% External & 50% Internal

10 Course Learning Outcomes

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

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Show** the working and operational characteristics of Semiconductor devices and to verify the response of various electronic devices.	P2 (Set)	Practical Demonstration	Practical Test/ Computer Simulation
CLO 2	**Construct** a circuit and determine the right semiconductor device for the selected application.	P3 (Guided Response)	Practical Demonstration	Practical Test/ Computer Simulation

1	**Name of the Course**	**Academic Skills For Electronic Science**
2	**Course Code**	21AEC34
3	**Course Type**	Theory
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course is designed to enhance the employability and maximize the potential of the students by introducing them to the principles that underly personal and professional success, and help them acquire the skills needed to apply these principles in their lives and careers.
6	**Semester and Year Offered**	II Semester & I Year
7	**Credit Value**	3
8	**Pre-requisite**	-
9	**Assessment Strategy**	50% External & 50% Internal

10 Course Learning Outcomes

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

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Use** the communication, listening, report writing and presentation skill which will help to face interviews.	A1 (Receiving Phenomena)	Tutorial/Group Work	Presentation/ Group Discussion
CLO 2	**Practice** the critical & creative thinking ability to solve problems and to understand team dynamics & effectiveness.	A2 (Responding to Phenomena)	Tutorial/ Group Work	Report Writing/ Group Work Assignment/ Presentation
CLO 3	**Explain** about the skill required for electronic product designing and recycling and to create an awareness on effective time & stress management skill for successful life and carrier.	A3 (Valuing)	Case Study/ Project/ PBL	Poster Presentation/ Technical Skills/ Time Constrained Assessment

1	**Name of the Course**	**Electronic Circuits**
2	**Course Code**	21EDC06
3	**Course Type**	Theory
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course has four credits dedicated to cater the knowledge base for understanding and analysing the Electronic circuits and their operation. The main objective of the course is to cater and equip students with knowledge on the concepts of Transistor biasing, Amplifiers and Oscillators. The course also provides knowledge about the basic circuit analysis to design Electronic circuits
6	**Semester and Year Offered**	II Semester & I Year
7	**Credit Value**	4
8	**Pre-requisite**	Basic Electronics and Network Theorems
9	**Assessment Strategy**	50% External & 50% Internal

10 Course Learning Outcomes

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

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Understand** the working principle of power supply circuits.	C2 (Understand)	Lecture/ Tutorial	Aptitude/ MCQ/ Quiz
CLO 2	**Understand** the methods of biasing transistors and amplifier circuits.	C2 (Understand)	Lecture/ Tutorial/ Case Study	Assignment/ Case study Assignments/ Essay
CLO 3	**Analyse** the functions of feedback amplifiers and oscillators.	C4 (Analyse)	Lecture/ Tutorial/ Case Study	Case Study Assignment/ Simulation Exercise

1	**Name of the Course**	**Electronic Circuits Lab**
2	**Course Code**	21EDC07
3	**Course Type**	Practical
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course has two credits to provide an experience in design, construct and test the basic electronic circuits.
6	**Semester and Year Offered**	II Semester & I Year
7	**Credit Value**	2
8	**Pre-requisite**	Basic Electronics and Network Analysis
9	**Assessment Strategy**	50% External & 50% Internal
10	**Course Learning Outcomes** After successful completion of this course, the students will be able to	

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the biasing characteristics of Transistors and Diodes.	P1 (Perception)	Practical Demonstration	Practical Test/ Computer Simulation
CLO 2	**Construct** the various amplifiers and Oscillators, and study its output response over the input variations.	P3 (Guided Response)	Practical Demonstration	Practical Test/ Computer Simulation

1	**Name of the Course**	**Circuit Simulation Lab**
2	**Course Code**	21EDE01
3	**Course Type**	Practical
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course provide the students a strong foundation in Electronic circuits designing and debugging using various software simulation tools.
6	**Semester and Year Offered**	II Semester & I Year
7	**Credit Value**	2
8	**Pre-requisite**	Electronic Devices and Network Analysis
9	**Assessment Strategy**	50% External & 50% Internal

10 Course Learning Outcomes

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

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Show** the operation of multivibrator and filter circuits using software simulation tools.	P2 (Set)	Practical Demonstration	Practical Test/ Computer Simulation
CLO 2	**Construct** the Amplifier and oscillator circuits to familiarize with the operation using software simulation tools.	P3 (Guided Response)	Practical Demonstration	Practical Test/ Computer Simulation

1	**Name of the Course**	**PCB Design Lab**
2	**Course Code**	21EDE02
3	**Course Type**	Practical
4	**Programme**	B.Sc. ECS
5	**Synopsis/Rationale of the Module**	This course aims to enable the students to understand the need for PCB design, the steps involved in PCB design, and the fabrication process. This course also familiarizes schematic and layout design flow using Electronic Design Automation (EDA) Tools.
6	**Semester and Year Offered**	II Semester & I Year
7	**Credit Value**	2
8	**Pre-requisite**	Electronic Circuits
9	**Assessment Strategy**	50% External & 50% Internal

10 Course Learning Outcomes

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

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the steps involved in the schematic, layout, fabrication, and assembly process of PCB design.	P2 (Set)	Practical Demonstration	Practical Test/ Computer Simulation
CLO 2	**Design** (schematic and layout) PCB for analog circuits, digital circuits, and mixed circuits.	P7 (Organization)	Practical Demonstration	Practical Test/ Computer Simulation

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1	**Name of the Course**	DIGITAL COMPUTER FUNDAMENTALS
2	**Course Code**	21CDC01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of digital and binary systems, Boolean algebra, Combinational and Sequential Circuits. It enables students to solve the problems relating to various types of business.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Computer Basics
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the architecture and functionality of central processing unit	C2-Understand - Cognitive Domain	Lecture/Tutorial	Exam / Written Tests/ Quiz /MCQ/
CLO 2	**Analyse** the impacts of the design issues in terms of speed, technology, cost, performance	C4 - Analysis - Cognitive Domain	Lecture/Tutorial	Exam /Written Test/ Quiz / MCQ
CLO 3	**Discuss** in groups the combinational circuits using MSI components.	A2-Responding - Affective Domain	Group Discussion	Group Assignment

1	**Name of the Course**	**Programming in C & Practical - Programming Lab - C Programming**
2	**Course Code**	21CDC02A & 21CDC02B
3	**Course Type**	Theory and Practical - Embedded
4	**Synopsis/Rationale of the Module**	• This course has four credits that provides students with knowledge of developing an application and strong foundation on programming concepts. • It enables students to solve the problems with programmable logic.
5	**Semester and Year Offered**	I Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in basics of computers.
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Describe the fundamental concepts of procedure-oriented programming such as tokens, datatypes, operators and control structures in solving simple mathematical problems.	C2 (Cognitive), Comprehension	Lecture	Quiz
CLO 2	Apply the concept of Arrays and Functions in simple applications for handling homogenous data and achieve code reusability	C3 (Cognitive), Application	Lecture	Exam
CLO 3	Adopt the concept of Structures, Unions, Pointers and Files for working with heterogeneous data, memory address access and permanent data storage in medium scale applications.	A3 (Affective), Valuing	Case Study	Poster Presentation
CLO 4	Practice the method of using the fundamental concepts, control flow statements, user defined and derived data types and permanent data storage concepts in simple to complex real-time problems.	P3(Psychomotor), Guided Response	Practical	Practical Tests

1	**Name of the Course**	**Practical: Excel Macro Lab**
2	**Course Code**	**21CDE01**
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To enable the students to develop macros for implementing real world applications using various built in functions available in spread sheet.
5	**Semester and Year Offered**	I Semester , Year I
6	**Credit Value**	2
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Internal and 50% External

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Display** a simple operational Macros with the support of basic tools.	P2 (**Psychomotor)** Set	Practical/ Demonstration	Simulation I
	CLO 2	**Build** an advanced operational Macros with the support of basic Tools.	P3 **(Psychomotor)** Guided Response	Practical/ Demonstration	Simulation II

1	**Name of the Course**	Data Structures and Algorithms
2	**Course Code**	21CDC03
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a strong foundation on fundamental concept of data structures and to emphasize the importance of data structures in developing and implementing efficient algorithms.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the various types of data structures and understand the importance of its invariants	C2-Cognitive-Understand	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam
CLO 2	**Demonstrate** appropriate data structure and algorithmic design method for a Tree traversal and obtain a feasible solution using critical thinking.	C3-Cognitive-Apply	Lecture/Tutorial/ Problem solving	Exam/Written Tests
CLO 3	**APPLY** various graph theoretical techniques to test and validate intuition and independent mathematical thinking in real time problems	C3-Cognitive-Apply	Lecture/Tutorial/ Problem solving	Exam/Written Tests

1	**Name of the Course**	Object Oriented Programming with C++& Practical - Programming Lab – C++ with Data Structures
2	**Course Code**	21CDC04A & 21CDC04B
3	**Course Type**	Theory and Practical - **Embedded**
4	**Synopsis/Rationale of the Module**	This course enables the students to develop industrial strength software applications using powerful general purpose programming concepts. The course also highlights the way to attain efficient management of memory and enhanced performance through developing optimized C++ code. The Course also supports to view the real world applications in terms of manageable objects that leads to design quality software.
5	**Semester and Year Offered**	II Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Theory (20 %Internal & 30% External) and 50 % Practical (20% Internal and 30 % External)

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Demonstrate** the features of object-oriented programming approach and basic constructs of C++ with classes and objects using functions (C3, PO1).	C3 Apply (Cognitive)	Lecture/ Tutorial	Exam/Written Test
CLO 2	**Integrate** the concepts that supports code reusability, dynamic initialization and efficient memory management for complex real time applications with optimized code (A1, PO2).	A4 Organization (Affective)	Lecture/ Tutorial / Case study / Problem based learning (PBL)	Case study – Software Requirement Specification
CLO 3	**Experiment** the concepts of streams, generic programming, exceptions emerged in real time applications and string manipulations (C4, PO2).	C4 Analyze	Lecture/Tutorial/Case study/Problem solving	Exam/Written Tests
CLO 4	**Build** a software solution with effective storage strategies and handling exceptions that emerged dynamically with problem solving ability (P4 , PO3).	P4 Mechanism (Psychomotor)	Practical/ Demonstration	Practical Tests

1	**Name of the Course**	Academic Skill for Computer Studies
2	**Course Code**	21AEC33
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.
5	**Semester and Year Offered**	II Semester , Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Not Applicable
8	**Assessment Strategy**	100 % Theory (50 %Internal & 50% External)

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Produce an effective personal development plan with the use of effective learning skills	Cognitive Domain (C3)	Lecture/ Tutorial	Plan submission for three years
CLO 2	Use of IT resources effectively for academic presentation and communication	Affective Domain (A3)	Group Discussion	Technical Presentation
CLO 3	Show continual desire to demonstrate effective team work with application of effective time management skills	Affective Domain (A3)	Group Discussion	Group Assignments

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1	**Name of the Course**	**BANKING THEORY AND PRACTICE**
2	**Course Code**	21ODC01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Banking and its Services. It also enables the students to know the various schemes under KYC
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge about Banking and its Operations
8	**Assessment Strategy**	

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the role and functions of banking system (C2, PO1)	C2- Understand	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
	CLO 2	**Label** the fair practices used in banking under KYC. (A2, PO4)	A2- Responding to Phenomenon	Case Study/ Project/ Tutorial/ Group Work	Presentation/ Project/ Poster Presentation
	CLO 3	**Use** the digital banking system that has been widely used in the Banking networks. (C3, PO2)	C3- Apply	Lecture/Tutorial/Case study/Problem solving	Written Test/ Quiz/MCQ/ Final Exam

1	**Name of the Course**	**Financial Accounting**
2	**Course Code**	21ODC02
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students 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.
5	**Semester and Year Offered**	I Semester I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the concept of accounting standards – Preparation of final accounts according to Ind AS 1 – Asset valuation techniques as per Ind AS 2 – Depreciation and Inventory valuation	C2 - Understand	Lecture/ Tutorial	MCQ Quiz
CLO 2	Prepare the procedure of accounting for special transactions as per Ind AS 111 – Account Current and Average Due date – Consignment – Joint Venture – accounting standard Ind AS 116 and Departmental accounts and Branch accounts	C3- Apply	Lecture/ Tutorial	Critical case study Report.
CLO 3	Illustrate the concept of limited liability partnership – Sale of firm – Dissolution of partnership firm – Insolvency of partners – Gradual realization of assets and piecemeal distribution – Amalgamation of firms.	C3- Apply	Lecture/ Tutorial	Simulation exercise test – 1 Simulation exercise test – 2

1	**Name of the Course**	**Business Environment**
2	**Course Code**	21ODE01

1	**Name of the Course**	**CONSUMER PROTECTION**
2	**Course Code**	21ANC06
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the knowledge base for understanding and analysing the impact of external environment on business organisation. The main objective of the course is to familiarize and equip students with the knowledge on the concepts and elements under Economical, Legal, Natural, Technological, Political, Socio-Cultural and Global Environment. The Course also provides through knowledge about the techniques of environment analysis as a foundation to corporate strategy. And, as a prerequisite the students must know the basic environmental factors affecting the business and knowledge about business management
5	**Semester and Year Offered**	I Semester I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NIL
8	**Assessment Strategy**	

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Assess** the various conceptual framework and techniques applied in evaluating the business environment.	C3- Apply- Cognitive Domain	Lecture/ Tutorial	Critical case study assignment.
	CLO 2	**Discuss** the economic, legal and technological environmental factors pertaining to Business through a **presentation**.	A2- Responding to Phenomenon	Group Discussion	Poster Presentations
	CLO 3	**Present** the various factors pertaining to Political and socio-cultural environment as well as global environment through a **group work**.	A2- Responding to Phenomenon	Group Discussion	Group Assignments

3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is dedicated to provide the students a strong foundation on Consumer Protection Act. It also enables the students to know about the objectives of Consumer Protection Council.
5	**Semester and Year Offered**	I Semester and I Year
6	**Credit Value**	3
7	**Pre-requisite (if any)**	NIL
8	**Assessment Strategy**	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Explain the preliminaries related to consumer protection act and consumer redressal agencies, the objectives of Consumer Protection Council and about the State Forum and National Commission (C2,PLO1)	C2 Understand	Lecture/Tutorial	Written Test
CLO 2	Describe the concept of Consumer Protection Bill and the problems with new consumer protection act. (CLO3,PLO11)	A2 (Receiving Phenomenon)	Case study	Case study Assignment

SRI KRISHNA ARTS AND SCIENCE COLLEGE

(An Autonomous Institution affiliated to Bharathiar University)

Kuniamuthur, Coimbatore – 641 008.

1	**Name of the Course**	Academic Skills for Commerce and Management
2	**Course Code**	21AEC38
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on effective use of learning resources and todevelop their personal skill.
5	**Semester and Year Offered**	II Semester; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO1	Demonstrate an effective personal development plan with the use of effective learning skills. (C2, PO2)	C3 Apply	Lecture/ Tutorial	Portfolio
CLO2	Use of IT resources effectively for academic presentation and communication (A1,PO6)	A1 - Receiving Phenomena	Case Study/ Group Discussion	Portfolio
CLO3	Demonstrate effective team work with application of effective time management skills	C3- Apply	Case study	Portfolio

1	**Name of the Course**	**Organization and Management**
2	**Course Code**	21ODC04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students with a basic understanding of Business System and the management concepts emphasizing on the present day shifts in the management thoughts. This Course helps to inculcate the knowledge about human behavior towards Organization Structure and develop the skills of gathering information for taking effective decisions
5	**Semester and Year Offered**	II Semester; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO1	**Illustrate** the variousperspectives of Business and learn the business activities to compete in the Competitive World	C3-Apply	Lecture / Tutorial	Case Study report – 1 Case Study report – 2
CLO2	Initiate the creation of an Enterprise by listing the functions of organization and management	A3-Valuing	Case Study / Group Discussion / Problem based learning	Poster Presentation
CLO3	Discuss the human behaviors towards organizational structure	A2-Responding to Phenomenon	Case study Assignment	Assignment – 1 Assignment – 2

1	**Name of the Course**	**Accounting for Special Business**
2	**Course Code**	21ODC05
3	**Course Type**	**Discipline Specific Course**
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students Learn special accounting transactions and accounting aspects by providing accounting standard references. It also enables the students to solve problems.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge about basic accounting
8	**Assessment Strategy**	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Recall** Single Entry System, Bill of Exchange treatment entries, Accounting treatment of Lease and Insolvency of Individuals and Partnership firms	C1- Remember- Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ FinalExam
CLO 2	**Apply** the accounting entries for Insurance claim, computation of claim and accounting treatment of Voyage accounts and Royalty accounts.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Critical Case Study Assignment on Accounting
CLO 3	Prepare financial statements of Non – Profit Organizations and Investment accounts by adopting interest calculations.	C3- Apply – Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Simulation Exercises

1	**Name of the Course**	Waste Management
2	**Course Code**	21ANC08
3	**Course type**	Theory
4	**Synopsis/Rationale of the Module**	This course provides students with a basic understanding of Environmental hygiene, Sanitation and waste management.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Basic knowledge in Biology
8	**Assignment's strategies**	Completed

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Describe the Environmental Hygiene and Sanitation	C1- Remember Cognitive domain	Lecture	Written Test
CLO 2	Explain the waste audit and solid waste management	A3- Valuing Cognitive Domain	Tutorial	Presentation
CLO 3	Perform the Management and Administration of waste programme	A5- Internalising Values Affective Domain	Group discussion methodology	Assignment

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1	**Name of the Course**	**Managerial Economics**
2	**Course Code**	**21COP01**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course dedicated to provide the students a strong foundation on managerial Economics. It also enables the students to know about the volatility in the changes in business world..
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NIL
8	**Assessment Strategy**	Internal 50% & External 50%

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Conceive** the managerial Economic concept for decision making and forward planning.(CLO1,PLO2)	(C6) Create	Lecture/Tutorial	Written Test - 1
CLO 2	**Determine** the law of demand & supply & their elasticity's, evaluate & analyse these concepts and apply them in various changing Situations in industry and techniques to forecast demand for better utilization of resources. (CLO2,PLO7)[	A4 – Organising values-Affective Domain	Case Study	Poster presentation
CLO 3	**Interpret** the production concept and how the production output changes with the inputs and evaluate the different market structure and various pricing strategies.(CLO3,PLO5).	(A5) Internalizing values	Case Study	Poster Presentation

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1	**Name of the Course**	**Corporate Accounting**
2	**Course Code**	**21COP02**
3	**Course Type**	80% Problems 20% Theory
4	**Synopsis/Rationale of the Module**	This course enables the students to gain thorough knowledge about Corporate Accounting in conformity with the provisions of Companies Act
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	Internal 50% ; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Interpret** Financial Statements in Schedule VI including that of Amalgamation, Absorption and reconstruction of Companies (CLO1,PLO2)	C5 – Evaluate	Lecture/Tutorial	Written Test - 1
CLO 2	**Construct** Reports on Merger and Acquisition. Holding and Subsidiary Companies.(CLO2,PLO7)	(C6) Create	Lecture/Tutorial	Case Study Assignment
CLO 3	**Solve** Insurance and Banking Company Accounts problems. Determine Various Branches of Accounting and its need.(CLO3,PLO9)	(A5) Internalizing Values	Group Discussion	Group Assignment

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1	**Name of the Course**	**Financial Management**
2	**Course Code**	**21COP03**
3	**Course Type**	50% Problem and 50% Theory
4	**Synopsis/Rationale of the Module**	The objective of this course is to help students to understand the conceptual framework of financial management and its application under various environmental constraints.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NIL
8	**Assessment Strategy**	Internal 50% & External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the role and functions of Financial Management (CLO1,PLO2)	C5 – Evaluate– Cognitive Domain	Lecture/Tutorial	Written Test
CLO 2	**Elaborate** the a Financial Management and its application (CLO2,PLO7)	(C6) Create	Lecture/ Tutorial	Poster presentation
CLO 3	**Demonstrate** the importance of overall wellbeing of individual, group and community as well as in complying with the accepted professional ethics and values **through a group work.**	(A4) Organizing value	Case Study	Group Assignment

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1	**Name of the Course**	**Marketing Management**
2	**Course Code**	**21COP04**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	Objective of this course is to facilitate understanding of the conceptual framework of marketing and its applications in decision making under various environmental constraints.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic Knowledge about the Marketing concepts and market analysis
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Elucidate** the strong conceptual knowledge in the functional area of marketing management. (C4, PO2)	C4 ANALYSE	Lecture/Tutorial	Written Test - 1
CLO 2	**Formulate** the models of social work, various methods of social work and its forms through a **presentation.**	C5 EVALUATE	Lecture/Tutorial	Poster presentation
CLO 3	**Demonstrate** the importance of overall wellbeing of individual, group and community as well as in complying with the accepted professional ethics and values **through a group work.**	A4 Organizing values	Lecture/Tutorial	Group Assignment

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1	**Name of the Course**	**Financial Markets and Institutions**
2	**Course Code**	**21COP05**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The course is designed to enable students to fit into the current knowledge on the financial markets of India
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Summarize** on the participants and working of money markets and capital markets (CLO1,PLO2)	C5 – Evaluate– Cognitive Domain	Lecture/Tutorial	Case Study - 1
CLO 2	**Illustrate** on the foreign exchange market and derivative instruments (CLO2,PLO4)	(A5) Internalizing values	Problem Solving	Group Assignment
CLO 3	**Review** the significant role played by the credit rating, financial institutions in India (CLO3,PLO5)	(C6) Create	Tutorial	Presentation

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1	**Name of the Course**	**Practical - Financial Journalism**
2	**Course Code**	**21COP06 / 21IBP06**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This subject enables the students to develop skills in interpreting and using financial Information. A practical paper aiding in enriching the numeracy skills and digital skills in the interpretation of Corporate Data.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Demonstrate the problems pertaining to the Financial Statement Analysis and Funds flow and Cash Flow in the organization	P4 - Psychomotor	Demonstration	Practical Test
CLO 2	Revise the Capital structure by analysing the Cost of Capital and Design the skills required in interpreting the financial statements by evaluating Credit Policy and Portfolio Analysis.	P6 - Psychomotor	Demonstration	Practical Test

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1	**Name of the Course**	**Business Policy and Strategies**
2	**Course Code**	**21COP07**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is dedicated to provide the students with a strong foundation on Business policy and strategies..It also enables the students to know about the framework for analyzing International Environment and Trade strategy of India.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NIL
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the current Business Phenomenon and to evaluate the global business environment in terms of economic, social and legal aspects.(A4,PLO11)	A4 (Organizing Value)	Case study	Assignment
CLO 2	**Describe** the principle of international business and strategies adopted by firms to for exporting products globally.(C5,PLO2	C5 (Evaluate)	Lecture/Tutorial	Written test - 1
CLO 3	**Discriminate** the effective management of technological innovation requires the integration of people, processes and technology to technical change in enterprise of national level economic performance.(A5,PLO9)	A5 (Internalising Values)	Group Discussion	Assignment

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1	**Name of the Course**	**Applied Cost Accounting**
2	**Course Code**	**21COP08**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the student to identify the methods and techniques of Cost Accounting for applying them in different types of Industries during the decision making process. The objective of the course also covers to exercise appropriate judgment in selecting and presenting information using various methods relevant to cost accounting.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NIL
8	**Assessment Strategy**	Internal 50% & External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Estimate** the cost of Production of different products under different costing system	C5 – Evaluate– Cognitive Domain	Lecture/Tutorial	Written Test
CLO 2	**Compile** Standard Costing Variances using Formulae and suggest the corrective measures	C6- Create	Lecture / Tutorial	Case Study Assignment
CLO 3	**Formulate** Cost Control Techniques with different techniques	A4 – Organizing Values	Problem Solving	Assignment

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1	**Name of the Course**	**Management Information System**
2	**Course Code**	**21COP09**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	MIS professionals help firms realize maximum benefit from investment in personnel, equipment, and business processes.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** Fundamental Roles of Information System in business (C5, PO1)	C2- Understand	Lecture/Tutorial	Written Test
CLO 2	**Explain** a E-Business System: Cross-Functional Enterprise Applications and Transaction Processing System. (A4, PO9)	A4 - Organising values	Case Study	Assignment
CLO 3	**Expand** the Enterprise and Global Management of Information Technology and Global System Development (C6, PO2)	C6- Create	Lecture/Tutorial	Written Test

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1	**Name of the Course**	**Practical - Computerized Accounting**
2	**Course Code**	**21COP10**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The subjects enable the students to develop skills to enter the business related accounting, taxation, inventory based data etc., into the tally software. Data manipulation will become an easy way while handling Tally accounting software. Inventory operations and processes related to Taxes, GST, and other calculations are easy using Tally accounting software
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Accounting Knowledge required
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Demonstrate** the procedures and techniques to grasp the creation and alteration of a company, preparation of trial balance and stock maintenance	P4- Psychomotor	Demonstration	Practical test -1
CLO 2	**Demonstrate** the procedures and techniques to excel the Bank account statement with creditors and debtors and the statement for expired goods. Demonstrate the procedures and techniques to apply bill wise statement for the sundry debtors, Rectification of errors in the bank ledger and cash book, Preparing pay roll statement for employees and Tax deduction at source, Generate TDS Report.	P4- Psychomotor	Demonstration	Practical test -2

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1	**Name of the Course**	**Brand Management**
2	**Course Code**	**21COP11**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the students to establish brand strategies and give them exposure to contemporary branding applications in business
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NIL
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** a strong conceptual knowledge in the functional area of Branding and Branding Techniques, Brand Equity Concepts, Brand Positioning and Repositioning. (C5, PO2)	C5 Evaluate	Lecture/Tutorial	TCA-Time Constrained Assessment
CLO 2	**Explain** effective understanding of relevant functional areas of Integrating Marketing Communication and its application, Overview Of Marketing Communication. (A4, PO9	A4 Organizing values	Case Study	Group Assignment
CLO 3	**Interpret** for analytical skills in Measuring And Interpreting Brand Performance, Introducing And Naming New Product And Brand Extensions, Managing Brands Over Geographic Boundaries And Market Segments (A5, PO10)	A5 Internalizing values	Case Study	Presentation

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1	**Name of the Course**	**Portfolio Management**
2	**Course Code**	**21COP12**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The course is designed to enable students to build and manage portfolios under various economic constraints
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NIL
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Conceive** and build a portfolio (CLO1,PLO2)	(C5) Interpret	Lecture	Written Test
CLO 2	**Explain** the fundamental, technical and economic analysis (CLO2,PLO4)	A4 – Organising values	Tutorial	Group Assignment
CLO 3	**Choose** the portfolio theories for portfolio revision and evaluation (CLO3,PLO9)	(A1) Receiving Phenomena	Case Study	Assignment

1	**Name of the Course**	DSC- I: Global Business Environment
2	**Course Code**	2IIBP01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is dedicated in providing students with various concepts under Global Business Environment. It will Familiarize the macro, the microenvironment and trade theories and impact knowledge on global perspective in conducting business
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Business Environment
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Manifest** the different types of Environment and cultural practice to analyze international standards and certifying bodies of business environment (C3, PO2)	C3 - Apply	Lecture/ Tutorial	ESE & CIA
CLO 2	**Describe** the models of operating business systems across different economic and financial environments. (A1, PO4)	A1- Receiving Phenomena	Group Discussion	1. Group Assignment 2. Industrial Attachment
CLO 3	**Identify** issues relating to aviation safety and the ICAO security manual along with Aviation industry and Tourism (C5, PO2)	C5 – Evaluate	Lecture/ Tutorial	ESE & CIA
CLO 4	**Use** the concepts and models of international business to interpret and analyse real problems in global business environment (A5, PO9)	A5– Internalizing values	Case study assignment	3.Publications 4.Portfolio 5.Project Report

1	**Name of the Course**	DSC - II: International Trade–Policy Framework and Documentation
2	**Course Code**	21IBP02
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The paper aims at acquainting the students with the theoretical foundations of international trade and enabling them to learn the pattern, structure and policy framework of India's foreign trade Emphasizing on the documentation process.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on International Business
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Explain** the regulations fixed by the Government time to time on the policies relevant to Foreign Trade and various subsidies (C2, PO2)	C2-Understand	Lecture/ Tutorial	**ESE & CIA**
CLO 2	**Discuss** the various subsidies and incentives granted for exports and imports. (A2, PO5)	A2 - Responding Phenomena	Group Discussion	1. Technical Presentation. 2. Poster presentation
CLO 3	**Summarise** ISO, Marine Insurance – Shipping and CustomsFormalities related to Foreign Trade (C5, PO2)	C5-Evaluate	Lecture/ Tutorial	**ESE & CIA**
CLO 4	**Prepare** a full set EXIM Documentation under the MEIS(Merchandise Exports from IndiaScheme) (A4, PO10)	A4 – Organising Values	Case Study	3.Group Assignment 4.Project Report 5. Role Play

1	**Name of the Course**	DSC - III: Accounting for Decision Making
2	**Course Code**	21IBP03
3	**Course Type**	Problem
4	**Synopsis/Rationale of the Module**	To acquaint students with Concepts of Financial, Cost and Management Accounting and their application in managerial decisionmaking. The course is aimed to make the students to understand and interpret the corporate's financial statements for effective decision making
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Accounts in business
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Operate** financialstatements as per the accounting principles andstandards by having a clear understanding of the subject related concepts and of contemporary issues (C3,PO2)	C3 -Apply	Lecture/Tutorial	ESE & CIA
CLO 2	**Integrate** decisions using the accounting tools and analyze the financial statements as per the requirement of stakeholders (A2, PO5)	A2-Responding to Phenomena	Group Discussion	1.Technical Presentation 2.Poster Presentation
CLO 3	**Illustrate** the financial dataplan in setting goal to attain competitive advantage by conceptualizing and ability to use techniques, skills and modern managerial tools necessary for business practice (C4, PO7)	C4 - Analyse	Lecture/ Tutorial	ESE & CIA
CLO 4	Perform an analysis ofprocess costing and construct a theoretical framework that provides meaningful analysis (A5, PO9)	A5 – Internalising Values	Case study assignment	3.Journal Review 4.Business Simulation 5.Project Report

1	**Name of the Course**	DSC – IV : Global Business Management
2	**Course Code**	21IBP04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide students with various concepts under Global Business. It will examine the strategies and structures of international business and assess the special roles of an international business functions. It will also prepare students to formulate and execute strategies, plans, and tactics to succeed in the Global Business Context.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Business Basics
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Demonstrate** the distinctions of International Business and implement effective decisions ethically by analysing an Indian Multinational Company's decision. (C3, PO2)	C3 – Apply	Lecture/Tutorial	ESE & CIA
CLO 2	**Compare** the decisions taken by the competitor companies globally by undergoing an Industry Analysis of the selected MNC. (A4, PO4)	A4 – Organising Values	Group Discussion	1.Group assignment 2. Group Report
CLO 3	**Determine** the strategies to conduct business with diverse populations using culturally appropriate methods in compliance with relevant national and international law, legislation, policies, and regulations. (C5, PO2)	C5 – Evaluate	Lecture/Tutorial	ESE & CIA
CLO 4	**Modify** suitable International Management Structures by creating models of effective Organisation Structures emphasizing ethical HR Policies.(A5, PO9)	A5 – Internalising Values	Group Discussion	3.Industrial Attachments 4.Assignment 5. Project report

1	**Name of the Course**	DSC - V: Integrated Logistics Management
2	**Course Code**	2IBP05
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to providing students withvarious concepts under Integrated Logistics Management. This course will refresh student's knowledge of the fundamentals of logistics and explain the sophisticated strategy and managementmethods that can be applied to establish and maintain competitive advantage. The design and management of movement, storage and flow of goods, services and related information is critical to success of businesses across industries. Integrated Logistics covers topics designed to help you make improvements that candrive competitive advantage.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	Internal 50%; External 50%

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Discover** and Design a concrete structure of effective logistics networkfor the export business by analysing the best model. (C2, PO2)	C2 - Understand	Lecture/ Tutorial	ESE & CIA
CLO 2	**Discuss** the best route to trade among various countries of the World.(A2, PO5)	A2 – Responding to Phenomena	Group Discussion	1. Technical Presentation 2.Poster presentation
CLO 3	**Evaluate** and examine the role ofCONCOR and Customs Authorities in the Transport forInternational Business.(C5, PO2)	C5 - Evaluate	Lecture / Tutorial	ESE & CIA
CLO 4	**Identify** the design and managementof movement, storage and flow of goods, services and related information is critical to success of businesses across industries (A4,PO10)	A4 – Organising Value	Case Study	3. Group Assignment 4. Project report 5. Role Play

1	**Name of the Course**	DSC – VI: Practical - Financial Journalism
2	**Course Code**	21IBP06/21COP6
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This subject enables the students to develop skills in interpreting andusing financial Information. A practical paper aiding in enriching the numeracy skills and digital skills in the interpretation of Corporate Data.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	Internal 50%; External 50%

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Demonstrate** the problems pertaining to the Financial Statement Analysis and Funds flow and Cash Flow in the organization (P4, PO2)	P4 – Mechanism	Demonstration	Practical Test -1
CLO 2	**Revise** the Capital structure by analysing the Cost of Capitaland design the skills required in interpreting the financial statements by evaluating Credit Policy and Portfolio Analysis. (P6, PO2)	P6 – Organization	Demonstration	Practical Test -2

1	**Name of the Course**	DSC- VII : Global Financial Management
2	**Course Code**	21IBP07
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to providing students with various concepts under Global Financial Management. It will equip students to understand and appreciate the international financial issues that companies face when they operate in several separate countries.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Evaluate** the role o the International Financial Mana gement, International Cash Management and International Monetary Fund and Identify the various Instruments used in the International Market. (C5, PO2)	C5- Evaluate	Lecture/ Tutorial	CIA/ESE Exam
CLO 2	**Identify** international economic linkages, international monetary systems and parity conditions by understanding the Foreign Exchange Market Instruments. (A4, PO5)	A4- Organising Values	Group Discussion	1.Presentation 2.Group Work Assignment
CLO 3	**Elaborate** the best financial methods and tools used to conduct International Business Transactions successfully.(C6, PO2)	C6 – Create	Lecture/ Tutorial	CIA/ESE Exam
CLO 4	**Interpret** Foreign exchange transactions, Exchange rate risk and the skill employed in derivate market. (A5, PO9)	A5- Internalising Values	Flip Class room	3.Project Report 4.Case study 5. Team work

1	**Name of the Course**	DSC- VIII : Marine Logistics
2	**Course Code**	21IBP08
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The course is aimed at to provide an understanding about International Transport & Shipping including basic logistics environment along with the Shipping Procedures in Indian ports and containerization. It also helps to understand the current challengesfaced by Freight managers and to provide a basis for thinking through these challenges.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Discover** the key concepts and thestrategic role of sea logistics in creating and enhancing a firm's competitive advantages	C2 - Understand	Lecture / Tutorial	ESE & CIA
CLO 2	**Discuss** and Integrate a logistics plan aligned with product, market, and identify the problems related tologistics at Ports	A2 – Responding toPhenomena	Group Discussion	1.Project 2.Group Assignment
CLO 3	**Evaluate** the different problems atdifferent stages of logistics.	C5 - Evaluate	Lecture / Tutorial	ESE & CIA
CLO 4	**Identify** Quantitative design with the product/ service solutions applying all the relevant International standards.	A4 – Organising Value	Case Study	3.Group Assignment 4.Project report 5.Role Play

1	**Name of the Course**	DSC- IX: Global Marketing
2	**Course Code**	21IBP09
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course Provides the comprehensive knowledge, expertise and skills which help student to build a successful career in international business and make a positive impact on the world around them.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on International Marketing
8	**Assessment Strategy**	Internal 50%; External 50%

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Examine** the challenges that organisations face in the contemporary global B2B and B2C marketplace and explores strategic options internationally (C3, PO2)	C3 – Apply	Lecture/Tutorial	ESE & CIA
CLO 2	**Practice** a marketing plan and mix for a given target market through appropriate market research data and methods (A2, PO5)	A2 – Responding Phenomena	Case study assignment	1.Presentation 2.Poster Presentation
CLO 3	**Interpret** the methods of measuring effectiveness of marketing strategies, and review current thinking on global marketing management through contemporary technologies of 21st century for managing a new venture (C5, PO2)	C5 – Evaluate	Lecture/Tutorial	ESE & CIA
CLO 4	**Propose** the fundamentals of digital and social media marketing to engage with customers, reach new audiences and create exceptional digital content. (A5, PO10)	A5 – Internalising Values		3.Movie Review 4.Case Study 5.SWOT Analysis

1	**Name of the Course**	DSC Practical – X: Practical– EXIM Documentation
2	**Course Code**	21IBP10
3	**Course Type**	Practical's
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to providing studentswith various concepts under Global Business. It will examine the strategies and structures of international business and assess the specialroles of an international business's various functions. It will alsoprepare students to formulate and execute strategies, plans, and Tactics to succeed in international business.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Basics on International Business
8	**Assessment Strategy**	Internal50%; External50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Construct** documents pertaining to the approval from the government for initiating International Business (P3, PO3)	P3- Guided Response	Demonstration	Practical Test
CLO 2	**Trace** documents and alteration in the Ice-Gate for documentation and **Design** the skills required in interpreting the documents for **evaluating** International Trade Operations. (P3, PO3)	P3 – Guided Response	Demonstration	Practical Test

1	**Name of the Course**	DSE - I: Option I : Entrepreneurship and New Venture Planning
2	**Course Code**	21IBP11
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course aims at developing confidence to venture in tochallenging career of entrepreneurship by understanding intricacies of starting a new venture, business opportunity and allocation of resources into a viable business proposition and in developing a business plan for funding and face the constraints in the process of launching and managing an enterprise.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Entrepreneurship
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Ascertain** a small business idea from the existing gaps in the market by evaluating the opportunity of the idea, on feasibility studies in various micro and macro aspects of small business development select a type of ownership (C4, PO2)	C4 – Analyse	Lecture/Tutorial	ESE & CIA
CLO 2	**Propose** a project and ensure a business, thereby culminating in the preparation of a business plan which can raise funds. (A3–PO8)	A3 – Valuing	Flip Classroom	1.Industrial attachment 2.Case study assignment
CLO 3	**Explain** how to utilize the facilities and resources provided by the central and state levelinstitutions in small business development (A4, PO10)	A4 – OrganisingValue	Group Discussion	3.Business plans 4.Strategic plan 5.Designing project

1	**Name of the Course**	DSE - I: Option I - Supply Chain Management
2	**Course Code**	21IBP12
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To understand the concepts of supply chain management and tomake the students learn the end-to-end business activities carried out in any business.
5	**Semester and Year Offered**	Semester II Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on International Business Basics
8	**Assessment Strategy**	Internal 50%; External 50%

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Discover the** individual processes ofsupply chain management and their interrelationships within individual companies and across the supply chain. (C2, PO2)	C2 - Understand	Lecture/ Tutorial	ESE & CIA
CLO 2	**Discuss** the roles and value of service providers in a supply chain strategy, order processing, inventorymanagement. (A2, PO5)	A2 – Responding to Phenomena	Group Discussion	1. Technical Presentation 2.Poster presentation
CLO 3	**Evaluate** how to use and apply computer-based supply chain optimization tools including the use ofselected state of the art supply chain software suites currently used in business (C5, PO2)	C5 - Evaluate	Lecture / Tutorial	ESE & CIA
CLO 4	**Identify** the best supply chain network model for a product. (A4,PO10)	A4 – Organising Value	Case Study	3. Group Assignment 4. Project report 5. Role Play

1	**Name of the Course**	BANKING THEORY AND PRACTICE	
2	**Course Code**	21ODC01	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Banking and its Services. It also enables the students to know the various schemes under KYC	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	Knowledge about Banking and its Operations	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the role and functions of banking system (C2, PO1)	C2- Understand	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
	CLO 2	**Label** the fair practices used in banking under KYC. (A2, PO4)	A2- Responding to Phenomenon	Case Study/ Project/ Tutorial/ Group Work	Presentation/ Project/ Poster Presentation
	CLO 3	**Use** the digital banking system that has been widely used in the Banking networks. (C3, PO2)	C3- Apply	Lecture/Tutorial/Case study/Problem solving	Written Test/ Quiz/MCQ/ Final Exam

1	**Name of the Course**	**Financial Accounting**	
2	**Course Code**	21ODC02	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of accounting principles and practices of various types of business othe than companies. It enables students to solve the problems relating to various types of business.	
5	**Semester and Year Offered**	I Semester I Year	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the concept of accounting standards – Preparation of final accounts according to Ind AS 1 – Asset valuation techniques as per Ind AS 2 – Depreciation and Inventory valuation	C2 - Understand	Lecture/ Tutorial	MCQ/Quiz.
	CLO 2	Prepare the procedure of accounting for special transactions as per Ind AS 111 – Account Current and Average Due date – Consignment – Joint Venture – accounting standard Ind AS 116 and Departmental accounts and Branch accounts	C3- Apply	Lecture/ Tutorial	Critical case study Report.
	CLO 3	Illustrate the concept of limited liability partnership – Sale of firm – Dissolution of partnership firm – Insolvency of partners – Gradual realization of assets and piecemeal distribution – Amalgamation of firms.	C3- Apply	Lecture/ Tutorial	Simulation exercise test

1	**Name of the Course**	**Investment and Securities market**	
2	**Course Code**	21ODE05	
3	**Course Type**	Theory	Focus on :
4	**Synopsis/Rationale of the Module**	To familiarize the students with different investment alternatives, introduce them to the framework of their analysis and valuation and highlight the role of investor protection	
5	**Semester and Year Offered**	I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	_	
8	**Assessment Strategy**	Internal 50%; External 50%	

	Course Learning Outcomes (write the statement of the course learning outcomes)				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
9	**CLO 1**	**Identify** the various avenues of Investment.	C1-Remember	Lecture/ Tutorial	MCQ Written Test
	CLO 2	**Interpret critically** the techniques of analysing the operations of capital market and financial markets.	C3-Apply	Lecture/ Tutorial	Case Study Assignment 1 Case Study Assignment 2
	CLO 3	**Discuss** the various theories of portfolio management and its application in the real time situations.	A2-Responding to Phenomenon	Group Discussion	Assignment

SRI KRISHNA ARTS AND SCIENCE COLLEGE

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Programme	Course Code(s)	Title
B. Com, B. Com (PA), B. Com (CA), B. Com (E-com), B. Com (CS), B. Com (BI), B. Com (IT), B. Com (BPS), B. Com (A&F), B. Com (CM), B. Com (BA), BBA, BBA (CA), BBA (Logistics), B.Sc. (IS)	21AEC38	**Academic Skills for Commerce and Management**

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4	-	-	4

Course Objective : The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.

Transferable Skills : Critical thinking Skills, Digital Skills and Lifelong learning skills

Prerequisites : Not Applicable

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

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Produce an effective persona development plan with the use of effective learning skills	Produce	Critical thinking	Plan submission for three years
CO2	Use of IT resources effectively for academic presentation and communication	Use	Digital Skills	Technical Presentation
CO3	Demonstrate effective team work with application of effective time management skills	Demonstrate	Team work	Group Assignments

1	**Name of the Course**	**Organisation and Management**	
2	**Course Code**	21ODC04	Focus on Entrepreneurial
3	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students with a basic understanding of Business System and the management concepts emphasizing on the present day shifts in the management thoughts. This Course helps to inculcate the knowledge about human behaviour towards Organisation Structure and develop the skills of gathering information for taking effective decisions	
4	**Semester and Year Offered**	II Sem; Year I	
5	**Credit Value**	3	
6	**Pre-requisite (if any)**		

7	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Illustrate** the various perspectives of Business and learn the business activities to compete in the Competitive World	C3-Apply	Lecture/ Tutorial	MCQ/Quiz/ Written Test/Exam.
	CLO 2	Initiate the creation of an Enterprise by listing the functions of organization and management	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Poster Presentation
	CLO 3	Discuss the human behaviours towards organizational structure	A2-Responding to Phenomenon	Case study Assignment	MCQ/Quiz/ Written Test/Exam/Case study reports.

1	**Name of the Course**	**Accounting for Special Business**	
2	**Course Code**	21ODC05	Focus on Employability
3	**Course Type**	**Discipline Specific Course**	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students Learn special accounting transactions and accounting aspects by providing accounting standard references. It also enables the students to solve problems.	
5	**Semester and Year Offered**	II Sem; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about basic accounting	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Recall** Single Entry System, Bill of Exchange treatment entries, Accounting treatment of Lease and Insolvency of Individuals and Partnership firms	C1- Remember- Cognitive Domain	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
	CLO 2	**Apply** the accounting entries for Insurance claim, computation of claim and accounting treatment of Voyage accounts and Royalty accounts.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Critical Case Study Assignment on Accounting
	CLO 3	Prepare financial statements of Non – Profit Organizations and Investment accounts by adopting interest calculations.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Simulation Exercises

1	**Name of the Course**	BANKING THEORY AND PRACTICE	
2	**Course Code**	21ODC01	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Banking and its Services. It also enables the students to know the various schemes under KYC	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	Knowledge about Banking and its Operations	
8	**Assessment Strategy**		

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the role and functions of banking system (C2, PO1)	C2- Understand	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
CLO 2	**Label** the fair practices used in banking under KYC. (A2, PO4)	A2- Responding to Phenomenon	Case Study/ Project/ Tutorial/ Group Work	Presentation/ Project/ Poster Presentation
CLO 3	**Use** the digital banking system that has been widely used in the Banking networks. (C3, PO2)	C3- Apply	Lecture/Tutorial/Case study/Problem solving	Written Test/ Quiz/MCQ/ Final Exam

1	**Name of the Course**	**Financial Accounting**	
2	**Course Code**	21ODC02	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students 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.	
5	**Semester and Year Offered**	I Semester I Year	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**		

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe**the concept of accounting standards – Preparation of final accounts according to Ind AS 1 – Asset valuation techniques as per Ind AS 2 – Depreciation and Inventory valuation	C2 - Understand	Lecture/ Tutorial	MCQ/Quiz.
CLO 2	**Prepare** the procedure of accounting for special transactions as per Ind AS 111 – Account Current and Average Due date – Consignment – Joint Venture – accounting standard Ind AS 116 and Departmental accounts and Branch accounts	C3- Apply	Lecture/ Tutorial	Critical case study Report.
CLO 3	**Illustrate** the concept of limited liability partnership – Sale of firm – Dissolution of partnership firm – Insolvency of partners – Gradual realization of assets and piecemeal distribution – Amalgamation of firms.	C3- Apply	Lecture/ Tutorial	Simulation exercise test

1	**Name of the Course**	Labour Law and Practice	
2	**Course Code**	21ODE08	
3	**Course Type**	Theory	Focus on :Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to providing students with various concepts under Labour Law, its history, developments, and the legislations that regulate Industrial Disputes. The course strives to develop a deep understanding of the very nature and purpose of labour law, embedded with rights and duties.	
5	**Semester and Year Offered**	III Sem; Year II	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge on Labour Law Basics	
8	**Assessment Strategy**	Internal 50%; External 50%	

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the legal framework relating to the creation of labour and Industrial law and its organisational framework.	C1-Remember	Lecture/ Tutorial	CIA & ESE
CLO 2	**Identify** the judicial setup of the labour laws in India through various governing labour laws	A1 – Receiving Phenomena	Lecture/ Tutorial	.Paper Presentation Poster presentation Project report
CLO 3	**Explain** the regulation of Industrial Disputes and International Conventions	C2-Understand	Group Discussion	CIA & ESE
CLO4	**Discuss** the significance and contemporary developments in the field of payment of wages and other perks	A2-Responding to Phenomenon	Case study Assignment	.Group Assignments Reports

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Programme	Course Code(s)	Title
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T	P	J	C
4	-	-	4

Course Objective : The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.

Transferable Skills : Critical thinking Skills, Digital Skills and Lifelong learning skills

Prerequisites : Not Applicable

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

CO	Description	Bloom's Verb	Skill	CIA-Capstone
CO1	Produce an effective persona development plan with the use of effective learning skills	Produce	Critical thinking	Plan submission for three years
CO2	Use of IT resources effectively for academic presentation and communication	Use	Digital Skills	Technical Presentation
CO3	Demonstrate effective team work with application of effective time management skills	Demonstrate	Team work	Group Assignments

1	**Name of the Course**	**Organisation and Management**	
2	**Course Code**	21ODC04	Focus on Entrepreneurial
3	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students with a basic understanding of Business System and the management concepts emphasizing on the present day shifts in the management thoughts. This Course helps to inculcate the knowledge about human behaviour towards Organisation Structure and develop the skills of gathering information for taking effective decisions	
4	**Semester and Year Offered**	II Sem; Year I	
5	**Credit Value**	3	
6	**Pre-requisite (if any)**		

7	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Illustrate** the various perspectives of Business and learn the business activities to compete in the Competitive World	C3-Apply	Lecture/ Tutorial	MCQ/Quiz/ Written Test/Exam.
	CLO 2	**Initiate** the creation of an Enterprise by listing the functions of organization and management	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Poster Presentation
	CLO 3	**Discuss** the human behaviours towards organizational structure	A2-Responding to Phenomenon	Case study Assignment	MCQ/Quiz/ Written Test/Exam/Case study reports.

1	**Name of the Course**	**Accounting for Special Business**	
2	**Course Code**	21ODC05	Focus on Employability
3	**Course Type**	**Discipline Specific Course**	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students Learn special accounting transactions and accounting aspects by providing accounting standard references. It also enables the students to solve problems.	
5	**Semester and Year Offered**	II Sem; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about basic accounting	
8	**Assessment Strategy**		

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Recall** Single Entry System, Bill of Exchange treatment entries, Accounting treatment of Lease and Insolvency of Individuals and Partnership firms	C1- Remember- Cognitive Domain	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
CLO 2	**Apply** the accounting entries for Insurance claim, computation of claim and accounting treatment of Voyage accounts and Royalty accounts.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Critical Case Study Assignment on Accounting
CLO 3	**Prepare** financial statements of Non – Profit Organizations and Investment accounts by adopting interest calculations.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Simulation Exercises

1	**Name of the Course**	**DIGITAL COMPUTER FUNDAMENTALS**
2	**Course Code**	21CDC01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of digital and binary systems, Boolean algebra, Combinational and Sequential Circuits. It enables students to solve the problems relating to various types of business.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Computer Basics
8	**Assessment Strategy**	50% External and 50% Internal

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the architecture and functionality of central processing unit	C2- Understand - Cognitive Domain	Lecture/ Tutorial	Rapid Fire and Assignment
CLO 2	**Apply** the impacts of the design issues in terms of speed, technology, cost, performance	C3 - Apply - Cognitive Domain	Lecture/ Tutorial	Online Test
CLO 3	**Discuss** in groups the combinational circuits using MSI components.	A2- Responding – Affective Domain	Group Discussion	Group Assignment and Simulation

1	**Name of the Course**	**Programming in C & Practical - Programming Lab - C Programming**
2	**Course Code**	21CDC02A & 21CDC02B
3	**Course Type**	Theory and Practical - Embedded
4	**Synopsis/Rationale of the Module**	• This course has four credits that provides students with knowledge of developing an application and strong foundation on programming concepts. • It enables students to solve the problems with programmable logic.
5	**Semester and Year Offered**	I Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in basics of computers.
8	**Assessment Strategy**	50% Theory (25% Internal & 25% External) and 50% Practical (25% Internal & 25% External)

9 Course Learning Outcomes (Write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the fundamental concepts of procedure-oriented programming such as tokens, data types, operators and control structures in solving simple mathematical problems.	C2 (Cognitive) Understand	Lecture/ Tutorial	Quiz
CLO 2	**Apply** the concept of Arrays and Functions in simple applications for handling homogenous data and achieve code reusability	C3 (Cognitive), Apply	Lecture/ Tutorial	Problem Based Learning - Debugging
CLO 3	**Adopt** the concept of Structures, Unions, Pointers and Files for working with heterogeneous data, memory address access and permanent data storage in medium scale applications.	A3 (Affective), Valuing	Group discussion	Assignment
CLO 4	**Practice** the method of using the fundamental concepts, control flow statements, user defined and derived data types and permanent data storage concepts in simple to complex real-time problems.	P3 (Psychomotor) Guided Response	Practical/ Demonstration	Simulation and Mind Map

1	**Name of the Course**	**Practical - Spreadsheet for Data Scientists**
2	**Course Code**	21CDE02
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This Practical course is designed to provide the students with the basic knowledge in using spreadsheet and VBA Constructs.To perform various macro functions available in spread sheet.
5	**Semester and Year Offered**	I Semester , Year I
6	**Credit Value**	2
7	**Pre-requisite (if any)**	Knowledge in basics of Office Packages
8	**Assessment Strategy**	50 % Internal and 50 % External

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	Practice basic formulas and excel macro objects on different types of data in a spreadsheet.	P3-Guided Response Psychomotor	Practical/ Demonstration	Practical Tests

1	**Name of the Course**	**Data Structures and Algorithms**
2	**Course Code**	21CDC03
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a strong foundation on fundamental concept of data structures and to emphasize the importance of data structures in developing and implementing efficient algorithms.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the various types of data structures and understand the importance of its invariants	C2-Cognitive-Understand	Lecture/Tutorial	Assignment and Online Test
CLO 2	**Demonstrate** appropriate data structure and algorithmic design method for a Tree traversal and obtain a feasible solution using critical thinking.	C3-Cognitive-Apply	Lecture/Tutorial/ Problem solving	Simulation and Problem based Learning
CLO 3	**Apply** various graph theoretical techniques to test and validate intuition and independent mathematical thinking in real time problems	C3-Cognitive-Apply	Lecture/Tutorial/ Problem solving	Case Study

1	**Name of the Course**	**Object Oriented Programming with C++ & Practical - ProgrammingLab – C++ with Data Structures**
2	**Course Code**	21CDC04A & 21CDC04B
3	**Course Type**	Theory and Practical - **Embedded**
4	**Synopsis/Rationale of the Module**	This course enables the students to develop industrial strength software applications using powerful general purpose programming concepts. The course also highlights the way to attain efficient management of memory and enhanced performance through developing optimized C++ code. The Course also supports to view the real world applications in terms of manageable objects that leads to design quality software.
5	**Semester and Year**	II Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Theory (25 %Internal & 25% External) and 50 % Practical (25% Internal and 25 % External)

9 Course Learning Outcomes (Write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Illustrate** the features of object oriented programming approach and basic constructs of C++ with classes and objects using functions	C2 (Cognitive) Understand	Lecture/ Tutorial	Online Test
CLO 2	**Demonstrate** the concepts that supports code reusability, dynamic initialization and efficient memory management for complex real time applications with optimized code	C3 (Cognitive) Apply	Lecture/ Tutorial	Problem Based Learning I - Debugging
CLO 3	**Experiment** the concepts of streams, generic programming, exceptions emerged in real time applications and string manipulations	C4 (Cognitive) Analyze	Lecture/ Tutorial/ Case study/Problem solving	Problem Based Learning I - Debugging
CLO 4	**Build** a software solution with effective storage strategies and handling exceptions that emerged dynamically with problem solving ability	P3 Guided Response (Psychomotor)	Practical/ Demonstration	Simulation I and Simulation II

1	**Name of the Course**	**Academic Skill for Computer Studies**
2	**Course Code**	21AEC33
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.
5	**Semester and Year Offered**	II Semester , Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Not Applicable
8	**Assessment Strategy**	100 % Theory (50 %Internal & 50% External)

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Produce** an effective personal development plan with the use of effective learning skills	C3 (Cognitive) Apply	Lecture/ Tutorial	Plan submission for three years
	CLO 2	**Use** of IT resources effectively for academic presentation and communication	A3 (Affective) Valuing	Group Discussion	Technical Presentation
	CLO 3	**Show** continual desire to demonstrate effective team work with application of effective time management skills	A3 (Affective) Valuing	Group Discussion	Group Assignments

1	**Name of the Course**	BANKING THEORY AND PRACTICE	
2	**Course Code**	21ODC01	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on Banking and its Services. It also enables the students to know the various schemes under KYC	
5	**Semester and Year Offered**	I Sem; Year I	
6	**Credit Value**	3	
7	**Pre-requisite (if any)**	Knowledge about Banking and its Operations	
8	**Assessment Strategy**		

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the role and functions of banking system (C2, PO1)	C2- Understand	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
CLO 2	**Label** the fair practices used in banking under KYC. (A2, PO4)	A2- Responding to Phenomenon	Case Study/ Project/ Tutorial/ Group Work	Presentation/ Project/ Poster Presentation
CLO 3	**Use** the digital banking system that has been widely used in the Banking networks. (C3, PO2)	C3- Apply	Lecture/Tutorial/Case study/Problem solving	Written Test/ Quiz/MCQ/ Final Exam

1	**Name of the Course**	**Financial Accounting**	
2	**Course Code**	21ODC02	
3	**Course Type**	Theory	Focus on Employability
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students 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.	
5	**Semester and Year Offered**	I Semester I Year	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	NA	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the concept of accounting standards – Preparation of final accounts according to Ind AS 1 – Asset valuation techniques as per Ind AS 2 – Depreciation and Inventory valuation	C2 - Understand	Lecture/ Tutorial	MCQ/Quiz.
	CLO 2	Prepare the procedure of accounting for special transactions as per Ind AS 111 – Account Current and Average Due date – Consignment – Joint Venture – accounting standard Ind AS 116 and Departmental accounts and Branch accounts	C3- Apply	Lecture/ Tutorial	Critical case study Report.
	CLO 3	Illustrate the concept of limited liability partnership – Sale of firm – Dissolution of partnership firm – Insolvency of partners – Gradual realization of assets and piecemeal distribution – Amalgamation of firms.	C3- Apply	Lecture/ Tutorial	Simulation exercise test

1	**Name of the Course**	**Introduction to Information Technology**	
2	**Course Code**	21ODE02	
3	**Course Type**	Theory	Focus on :
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students the basic knowledge of Information Technology and its Impact of Business	
5	**Semester and Year Offered**	I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about Information Technology	
8	**Assessment Strategy**	Internal 50%; External 50%	

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the ICT in detail, scope of E-world, various concepts and terminologies used in computer networks and web page creation	C2-Understand	Lecture/ Tutorial	MCQ/ Quiz Written Test
	CLO 2	**Justify** the importance of business process management, its improvement, transformation, automation, reengineering and business process modelling to an organization through a presentation.	C3-Apply	Case Study/Group Discussion/ Problem based learning	Poster Presentation
	CLO 3	**Demonstrate** the internet concepts and the concepts of ERP, CRM, and Multi Media in detail using mobile technologies and wireless network categories with respect to the benefits and challenges of business mobility.	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Digital analytical Report

1	**Name of the Course**	**Organisation and Management**	
2	**Course Code**	21ODC04	Focus on Entrepreneurial
3	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students with a basic understanding of Business System and the management concepts emphasizing on the present day shifts in the management thoughts. This Course helps to inculcate the knowledge about human behaviour towards Organisation Structure and develop the skills of gathering information for taking effective decisions	
4	**Semester and Year Offered**	II Sem; Year I	
5	**Credit Value**	3	
6	**Pre-requisite (if any)**		

7	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Illustrate** the various perspectives of Business and learn the business activities to compete in the Competitive World	C3-Apply	Lecture/ Tutorial	MCQ/Quiz/ Written Test/Exam.
	CLO 2	Initiate the creation of an Enterprise by listing the functions of organization and management	A3-Valuing	Case Study/Group Discussion/ Problem based learning	Poster Presentation
	CLO 3	Discuss the human behaviours towards organizational structure	A2-Responding to Phenomenon	Case study Assignment	MCQ/Quiz/ Written Test/Exam/Case study reports.

1	**Name of the Course**	**Accounting for Special Business**	
2	**Course Code**	21ODC05	Focus on Employability
3	**Course Type**	**Discipline Specific Course**	
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students Learn special accounting transactions and accounting aspects by providing accounting standard references. It also enables the students to solve problems.	
5	**Semester and Year Offered**	II Sem; Year I	
6	**Credit Value**	4	
7	**Pre-requisite (if any)**	Knowledge about basic accounting	
8	**Assessment Strategy**		

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Recall** Single Entry System, Bill of Exchange treatment entries, Accounting treatment of Lease and Insolvency of Individuals and Partnership firms	C1- Remember- Cognitive Domain	Lecture/ Tutorial	Written Test/ Quiz/MCQ/ Final Exam
	CLO 2	**Apply** the accounting entries for Insurance claim, computation of claim and accounting treatment of Voyage accounts and Royalty accounts.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Critical Case Study Assignment on Accounting
	CLO 3	Prepare financial statements of Non – Profit Organizations and Investment accounts by adopting interest calculations.	C3- Apply - Cognitive Domain	Lecture/Tutorial	Written Test/ Quiz/MCQ/ Final Exam/ Simulation Exercises

1	**Name of the Course**	Introduction to Public Administration
2	**Course Code**	21PAP01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To understand the basic concepts of public administration, its evolution, and recent developments.
5	**Semester and Year offered**	I Semester, I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50 % Internal; 50% External

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**
At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Analyse the concepts and theories of State, Society and its related perspectives. (C4)	C 4- Analyze Cognitive Domain	Lecture/Tutorial	Quiz / Written Test
CLO 2	Explain the concepts of constitution, government and public administration, their significance and evolution. (A 3)	A 3- Valuing Affective Domain	Flip Classroom, Group Discussion	Presentation
CLO 3	Explain the changing paradigm of public administration (A4)	A 4- Organising Values Affective Domain	Group Discussion/Flip Classroom	Report / Assignment

1	**Name of the Course**	Political Science: Concepts and Principles
2	**Course Code**	21PAP02
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the students to understand the concepts, approaches and theories in political science.
5	**Semester and Year Offered**	I Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% Internal ; 50% External

9	**Course Learning Outcomes (write the statement of the course learning outcomes)** At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	Evaluate the concept of political science, state, nation, sovereignty, government, its function and approaches. (C5)	C5 – Evaluate Cognitive Domain	Lecture, Tutorial	Written Test Assignment
	CLO 2	Discuss the concept of political socialisation and political parties. (A2)	A 2- Responding to phenomena Affective Domain	Case Study Assignment, Group Discussion	Case Study Assignment
	CLO 3	Explain the concepts of law, liberty, equality, justice, duties, rights, powers and ideologies. (A3)	A 3- Valuing Affective Domain	Case Study Assignments, Group Discussion	Assignment Report

1	**Name of the Course**	Indian Constitution and Administrative System
2	**Course Code**	21PAP03
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The paper attempts to make the students understand the system of Indian Administration and Governance. Students will be able to understand the basic Structure, Function and Behavior of Indian Administration.
5	**Semester and Year Offered**	I Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% Internal ; 50% External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Analyze the cause and impact of British Colonial Administration in India. Understand the evolution of constitution in India along with its salient features (C4)	C 4- Analyze Cognitive Domain	Lecture, Tutorial Case Study	Written Test Case Study Assignment TCA
CLO 2	Acquaint and analyse the structure and functioning of the Indian Administration at Union, State and District level. (A1)	A 1- Receiving Phenomeno n Affective Domain	Group Discussion	Group Assignment
CLO 3	Understand the structures and functions of the constitutional bodies created to maintain central state relations. (A3)	A 3 – Valuing Affective Domain	Flip Classroom	Assignment

1	**Name of the Course**	Administrative Thinkers
2	**Course Code**	21PAP04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To understand the various theories of administrative thinkers. Make the learner to understand the administrative theories. To understand the thoughts of most influential thinkers and contributors of Public Administration.
5	**Semester and Year Offered**	I Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% Internal ; 50% External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Acquire and analyse the contribution of Kautilya, Thrivalluvar, Woodrow wilson, Weber, Fayol, Taylor, Mayo, Argyris, Gullick and Urwick in administration of organisation. **(A 2)**	A 2-Responding to Phenomenon Affective Domain	Case Study, Flip Classroom, Group Discussion	Group Assignment Group Reports
CLO 2	Acquire and analyse the contribution of Riggs, Drucker, Dror and Public Choice Theory. (A3)	A3 - Valuing Affective Domain	Flip Classroom, Group Discussion	Case Study Assignment
CLO 3	Explain the contribution of Simon, Bernard, Follet, Maslow, Herzberg and Likert. (A4)	A 4-Organising Value Affective Domain	Flip Classroom, Group Discussion	Poster Presentation Field Assignment

1	**Name of the Course**	Principles of Management
2	**Course Code**	21PAP05
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To make the student understand the organisation principles to manage any organisation.
5	**Semester and Year Offered**	I Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% Internal ; 50% External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Describe the concept, meaning, and evolution of management(A1)	A 1– Receiving Phenomenon Affective Domain	Flip Classroom, Group Discussion	Group Assignment
CLO 2	Discuss the importance of planning, objective setting and decision making. (A2)	A 2 – Responding to Phenomenon Affective Domain	Flip Classroom, Group Discussion	Case Study Assignment Field Assignment
CLO 3	Explain the various forms of organisational structure, the concept of Staffing, control techniques (A4)	A 4 – Organising Values Affective Domain	Flip Classroom, Group Discussion	Report Assignment

1	**Name of the Course**	Organisation Behaviour
2	**Course Code**	21PAP06
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To provide an overview of theories and practices in organizational behavior in individual, group and organizational level.
5	**Semester and Year Offered**	I Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% Internal ; 50 % External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Explain the concept of organizational behavior and related concepts such as personality, attitude, perception and motivation. (A3)	A 3- Valuing Affective Domain	Fish bowl Technique, Group discussion	Group Assignment
CLO 2	To interpret the interpersonal and behavior processes for team building and leadership development. (A4)	A4- Organising Values Affective domain	Flip Classroom, Group Discussion	Case study assignment Field Assignment
CLO3	To evaluate the culture and people cope up with the cultural change and stress related issues (A5)	A5- Internalizing Valuing Affective domain	Flip Classroom, Group Discussion	Assignment Field Work

1	**Name of the Course**	Comparative Public Administration
2	**Course Code**	21PAP07
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To familiarise the students with the basic concepts, methods, and scope of comparative public administration, structure and functions of various governments.
5	**Semester and Year Offered**	II Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% Internal ; 50 % External

9	**Course Learning Outcomes (write the statement of the course learning outcomes)** At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	Analyse the concept, approaches, indicies, and models of comparative public administration. (C4)	C 4- Analyze Cognitive Domain	Lecture, Tutorial	MCQ
	CLO 2	Evaluate the administrative systems of USA and UK (A 3)	A 3– Valuing Affective Domain	Flip Classroom	Group Assignment Group Report
	CLO 3	Explain the administrative systems of France and China. (A 4)	A 4- Organising Value Affective Domain	Flip Classroom	Presentation Poster Presentation

1	**Name of the Course**	Administrative Law
2	**Course Code**	21PAP08
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To make the students to understand the law that governs the bureaucracy
5	**Semester and Year Offered**	II Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50 % Internal ; 50 % External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Analyse the concepts of administrative law, its sources, rule of law, separation of powers , checks and balances, administrative actions, delegations and controls (C 4)	C 4- Analyse Cognitive Domain	Lecture, Tutorial, Case Study	MCQ Assignment
CLO 2	Explain the concepts of Natural Justice, administrative tribunals, administrative discretion and judicial review (A3)	A 3– Valuing Affective Domain	Flip Class Room, Group Discussion, Case Study	Field Assignment Case Study Assignment
CLO3	Grasping the genesis, growth and concept of ombudsman, lokpal and lokayukta, central vigilance commission, and Writs (A4)	A 4- Organising Values Affective Domain	Flip Class Room, Case Study	Case Study Assignment

1	**Name of the Course**	Human Resource Management
2	**Course Code**	21PAP09
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To make the student to understand the management of human in an organisation
5	**Semester and Year offered**	I Semester, I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50 % Internal; 50% External

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
CLO 1	Analyse the concept of Human Resource Management and its role in an organization. (C 4)	C 4- Analyse Cognitive Domain	Lecture, Tutorial	MCQ Written Test
CLO 2	Describe the human resource planning, job analysis, job design, recruitment, training, job evaluation and appraisal (A3)	A 3- Valuing Affective Domain	Flip Classroom, Group Discussion	Field Assignment Case Study Assignment
CLO 3	Describe the compensation management, industrial relations and trade union (A4)	A 4- Organising Value Affective Domain	Flip Classroom, Group Discussion	Case Study Assignment

1	**Name of the Course**	**Public Financial Administration**
2	**Course Code**	21PAP10
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To make the students to understand the management of finance in government
5	**Semester and Year Offered**	II Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% Internal ; 50% External

9	**Course Learning Outcomes (write the statement of the course learning outcomes)** At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	Analyse the various aspects of Public Financial Administration in general and in the Indian context in particular. (C 4)	C 4- Analyse Cognitive Domain	Lecture, Tutorial	MCQ Assignment
	CLO 2	Discuss the public budgeting in India, deficit financing, debt and legislative control over budget in India (A 2)	A 2 – Responding to Phenomenon Affective Domain	Flip Classroom, Group Discussion	Presentation Poster Presentation
	CLO3	Explain the accounting and auditing institutions of government and finance in rural and urban area. (A 3)	A 3- Valuing Affective Domain	Flip Classroom, Group Discussion	Assignment

1	**Name of the Course**	**Decentralisation and Local Self Government**
2	**Course Code**	21PAP11
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To make the students to understand the decnetralisation and local self government in India.
5	**Semester and Year Offered**	II Semester; I Year
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% Internal ; 50% External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Appraise the evolution of local self government in India (C 4)	C 4- Analyse Cognitive Domain	Lecture, Tutorial	MCQ Assignment
CLO 2	Explain the structure and functions of local self government in India (A 3)	A 3- Valuing Cognitive Domain	Fish bowl Technique, Flip Classroom,	Group Assignment Group Report
CLO3	Explain the working of local self government in select areas in India (A 4)	A 4- Organising Values Affective Domain	Flip Classroom, Group Discussion	Field Assignment

1	**Name of the Course**	Professional Social Work
2	**Course Code**	21SWP01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To acquire an understanding and knowledge of the history and philosophy of social work and its emergence as a profession.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic understanding about Social Work and Social Service
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Evaluate the different types of social work and the role of social workers and understand the role and functions of social work as a profession.	C5 – Evaluate– Cognitive Domain	Lecture/Tutorial	TCA-Time Constrained Assessment
CLO 2	Formulate the models of social work, various methods of social work and its forms through a presentation.	A4 – Organising values-Affective Domain	Case Study	Poster presentation
CLO 3	Demonstrate the importance of overall wellbeing of individual, group and community as well as in complying with the accepted professional ethics and values through a group work.	A3 – Valuing – Affective Domain	Case Study	Group Assignment

1	**Name of the Course**	Contemporary Indian Society
2	**Course Code**	21SWP02
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the students to understand the importance of sociology and the primary concepts in the same and the effect it has on individuals
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Understanding about Indian Society
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
CLO 1	Critically Interpret the society and its functions, the types of community, the social groups and different agencies of social control	C5 – Evaluate – Cognitive Domain	Lecture	Critical Case study Essay/Assignment
CLO 2	Integratethe Marriage, Family system and its importance as well as the process of social changes.	A4-Organizing values – Affective Domain	Group Discussion	Written Assignment
CLO 3	Propose solutions to social problems in the society and its causes and effects in order to propagate the ethics and professionalism.	A5 – Internalizing the values – Affective Domain	Group Discussion	Written Assignment

1	**Name of the Course**	Human Behaviour in Social Environment
2	**Course Code**	21SWP03
3	**Course Type**	
4	**Synopsis/Rationale of the Module**	To enable the students to understand the fundamental components of human behavior, developments and the basic idea about psyche.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Understanding on the basics of Psychology
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Extrapolate the knowledge on psychosocial aspects of individual, family and community.	C4- Experiment – Cognitive Domain	Lecture	Critical Case study /Assignment
CLO 2	Determine the basics of Psychology while practicing Social Work	A4- Formulate – Affective Domain	Project	Presentation
CLO 3	Effectively identify the Psychology functions in human. Evaluate the different problems at different stages of life effectively	A5- Use evidence - Affective Domain	Group Discussion	Written Assignment

1	**Name of the Course**	Social Work With Individuals
2	**Course Code**	21SWP04
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	Basically to impart a thorough knowledge of methods of social case work to the social work students.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	The student should know about Social Work Concept and Methods
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Apply the values and work principles of the case while working with people	C5-Evaluate–Cognitive Domain	Lecture	Critical Casestudy Essay/Assignment
CLO 2	Identify various settings and practice based on the social contexts of the country.	A4-Organizing values–Affective Domain	Group Discussion	Written Assignment
CLO 3	Predict the social contexts effectively and apply social case work techniques.	A5–Internalizing the values–Affective Domain	Group Discussion	Written Assignment

1	**Name of the Course**	Social Work With Groups
2	**Course Code**	21SWP05
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the students to know the social group work process
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	The Student should know about Social Work Concept and Methods
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Relinquish the values and principles of group work at their workplace.	A4– Accommodate– Affective Domain	Lecture	TCA-Time Constrained Assessment
CLO 2	Organise the individual resources/strengths of the group members and design the intervention process effectively	A4–Organising values-Affective Domain	Case Study	Presentation
CLO 3	Practice, Plan and design each group work session based on the different social work setting.	A5 – Use evidence– Affective Domain	Discussion	Role play

1	**Name of the Course**	DSC- VI: Concurrent Field Practicum – I(Including Rural Camp)
2	**Course Code**	21SWP06
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	In the first semester the students are introduced to basic concepts of field work with an orientation about the types of setting where the students can undergo fieldwork.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	5
7	**Pre-requisite (if any)**	Basic Understanding about Social Work Profession
8	**Assessment Strategy**	40% Internal and 60% External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
CLO 1	Identify the problems of marginalization and vulnerabilities various sections of the society	P1- Guided Response - Psychomotor Domain	Demonstration	Practical Tests
CLO 2	Enchanted with interact and intervene with clients/ groups/ community	A2- Responding to Phenomena– Affective Domain	Tutorial	Presentation
CLO 3	Acquire skills in planning, organizing, implementing and evaluating the camp.	A3 – Valuing – Affective Domain	Case Study/ Project	Group Presentation

1	**Name of the Course**	Community Organization and Social Action
2	**Course Code**	21SWP07
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the students to know the methods of Community organization.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic Understanding about Primary and Secondary Methods of Social Work -Community Organization and Social Action and applying these methods in various fields.
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
CLO 1	Understand the basic concept of Community Organization	A1- Responding to Phenomena – Affective Domain	Lecture	Critical Case study Essay/Assignment
CLO 2	Focus on different phases of Community Organization, Understand the skills required to perform as a community organizer and PRA	A2- Responding to Phenomena – Affective Domain	Group Discussion	Written Assignment
CLO 3	Justify on social action and advocacy	A3 – Valuing – Affective Domain	Group Discussion	Written Assignment

1	**Name of the Course**	Social Welfare Administration and Social Legislations
2	**Course Code**	21SWP08
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the students to acquire the knowledge in social welfare administration and social legislation, social policy and social development.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Any UG Degree
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Apply basic knowledge about social policy and the administration of Human service	A3 (Valuing)– Affective Domain	Lecture/Tutorial	TCA-Time Constrained Assessment
CLO 2	Generalise the rights of Socially disadvantaged groups.	A4- Synthesis– Affective Domain	Discussion	Role play
CLO 3	Revise the constitutional safeguards to vulnerable sections organizations and Child Protection	A5 – Use evidence – Affective Domain	Case Study	Group Presentation

1	**Name of the Course**	Corporate Social Responsibility
2	**Course Code**	21SWP09
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the students acquire the knowledge on corporate social responsibility.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge aboutIndustry and Non-Governmental Organizations
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
CLO 1	Understanding on Corporate Social Responsibility	C5 – Evaluate – Cognitive Domain	Lecture/Tutorial	TCA-Time Constrained Assessment
CLO 2	Knowledge on Social Work Practice in the Field of Corporate Social Responsibility	A4 – Organising values-Affective Domain	Case Study	Poster presentation
CLO 3	Knowledge on Project Management in CSR initiatives	A3 – Valuing – Affective Domain	Case Study	Group Assignment

1	**Name of the Course**	Employee Welfare
2	**Course Code**	21SWP10
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To know the concepts of labour welfare and legislations.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic knowledge on Industry and IndustrialLabour
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Critically Interpret the fundamentals of Labour legislations	C5 – Evaluate – Cognitive Domain	Lecture/Tutorial	TCA-Time Constrained Assessment
CLO 2	Formulate the constitution and its relevance to Labour Legislations.	A4 – Organising values-Affective Domain	Case Study	Poster presentation
CLO 3	Propose the legislations concerning to Labour in India	A3 – Valuing – Affective Domain	Case Study	Group Assignment

1	**Name of the Course**	Mental Health – I
2	**Course Code**	21SWP11
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To enable the students to understand mental health and basic knowledge about psychotic and neurotic disorders (according to ICD 10).
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic Understanding on Abnormal psychology
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
CLO 1	Determine into different types of mental disorders, their causes, manifestations and management	C5 – Evaluate – Cognitive Domain	Lecture/Tutorial	TCA-Time Constrained Assessment
CLO 2	Develop sensitivity, awareness and understanding of policy and practice issues in the field of mental health	A4 – Organising values-Affective Domain	Case Study	Poster presentation
CLO 3	Analyze the effect of class, culture and gender on mental health and well being	A3 – Valuing – Affective Domain	Case Study	Group Assignment

1	**Name of the Course**	Tribal Problems and Tribal Development Schemes
2	**Course Code**	21SWP12
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	To understand the impact of bureaucratic approaches in the implementation of tribal development schemes.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic Understanding about TribalCommunity
8	**Assessment Strategy**	60% External and 40% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
CLO 1	Understand the concepts of Tribal Community, socio-economic aspects & leadership and understand various problems of tribal population and Apply major tribal development programmes.	A1- Responding to Phenomena – Affective Domain	Tutorial	Presentation
CLO 2	Analyze various interventions like rural development policies and programmes and the importance of local self-governance and constitutional binding	A2- Responding to Phenomena – Affective Domain	Case Study/ Project/ Group Work/ Discussion/PBL	Role play
CLO 3	Understand the various tribal problems and their professional roles community development worker	A3 – Valuing –Affective Domain	Case Study	Group Presentation

1	**Name of the Course**	DSC- VI: Concurrent Field Practicum – I(Including Rural Camp)
2	**Course Code**	21SWP06
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	Having gained knowledge and understanding from the previous semester fieldwork, the students are expected to improve their practice skills in different settings.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	This course aims to place every student in different agencies to undergo field work training twice in a week throughout the semester
8	**Assessment Strategy**	40% Internal and 60% External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
CLO 1	Opportunity to work with children, women adults, or elderly in the community.	P3- Guided Response– Affective Domain	Mini Project	Presentation
CLO 2	Involved in planning and developing programmes in the field.	A2- Responding to Phenomena– Affective Domain	Group Work	Role Play
CLO 3	Intervention with client to solve the problems	A3– Valuing– Affective Domain	CaseStudy / Mini Project	Group Presentation

1	**Name of the Course**	**Advanced Java Programming**
2	**Course Code**	**21CSP01 /21ITP01 / 21CTP01**
3	**Course Type**	**Theory**
4	**Synopsis/Rationale of the Module**	This course has four credits to inculcate the knowledge on advanced JAVA concepts such as Java utility package features, Networking, Swing, JDBC, Beans, Servlets and JSP. The students canable to develop standard applications and web-based applications
5	**Semester and Year Offered**	I semester, Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Java basics, Object Oriented Programming concepts
8	**Assessment Strategy**	50% External and 50% Internal

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Discover** the OOPs concepts and new features of Java SE8 version	C3- Apply (Cognitive)	Lecture / ProblemSolving	Written Test
CLO 2	**Adhere** the packages and methods of Swing, networking, JDBC and beans.	A4 - Organizing values (Affective)	Tutorial/ Group work / Problem Based Learning (PBL)	Digital reports
				Assignment 1
CLO 3	**Practice** web applications using Servlets and JSP	A5 - Internalising values (Affective)	Group work / PBL	Project Report 1
				Project Report 2

1	**Name of the Course**	**Distributed Operating System**
2	**Course Code**	**21CSP02**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits to articulatethe working principles of the distributed operating system. The students can get knowledge on hardware and software concepts, synchronization, deadlock, consistency and replication, fault tolerance. The students can also understand how distributed shared memory is managed.
5	**Semester and Year Offered**	I Semester, Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Operating system
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the design issues of distributed systems and remote procedure call.	C2-Understand-(Cognitive)	Lecture/ Tutorial	Written Test 1
CLO 2	**Elucidate** thesynchronization algorithms,processes scheduling, deadlocks and shared memory	C4- Analyse (Cognitive)	Lecture/ Tutorial	MCQ Case study Assignment 1
CLO 3	**Discriminate**the working principles of Linux and Windows10	A5 -Internalizing values (Affective)	Group Discussion	Assignment 2 Portal Reviews

1	**Name of the Course**	**Design and Analysis of Algorithms**
2	**Course Code**	**21CSP03 / 21ITP03 / 21CTP03**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to analyze various techniques for efficient algorithm design (divide and conquer, greedy, and Dynamic programming algorithms) and able to apply them for real world problems.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Summarize** the different types of programming paradigm and explain when an algorithmic design situation calls for it, and recite algorithms that employ this paradigm.	C5 - Cognitive-Evaluate	Lecture / Tutorial / Case study	Written Test Case study Assignments
CLO 2	**Organize** different computational models, order notations () and various complexity measures to choose the appropriate data structure and algorithm design method for a specified application.	A4 - Affective - Organization	Case study / Flip Classroom	Assignment Journal Writing
CLO 3	**Compile** the relationship between the running time of an algorithm and the size of its input in various bounds, which decide the importance and optimality of an algorithm.	C6 - Cognitive-Create	Case Study / Flip classroom	PBL

1	**Name of the Course**	**Practical – Advanced Java Lab**
2	**Course Code**	**21CSP04 / 21ITP04 / 21CTP04**
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This course is designed to equip the students with the advanced JAVAfeatures and Componentssuch as Beans, Swing, Networking, JDBC, Servletsand JSP that demonstrates OOPs concepts and emphasis reusability and portability. Students can able to develop Java based networking, data base and web-basedapplications.
5	**Semester and Year Offered**	I Semester, Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Java basics, OOPs concepts
8	**Assessment Strategy**	50 % Internal and 50 % External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Demonstrate**the console applications that uses advanced features, networking concepts and a**dopt** the concepts of Swing, JDBC and beans	P5-Complex Over Response **(Psychomotor)**	Practical/ Demonstration	Computer Simulations
CLO 2	**Create** web-based applications using Servlet and JSP	P6-Adaption **(Psychomotor)**	Practical/ Demonstration	Computer Simulations

1	**Name of the Course**	**DataMining**
2	**Course Code**	**21CSP05 / 21ITP05/ 21CTP05**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to ascertain raw input data and apply data pre-processing, generalization techniques and data characterization to provide suitable input for a range of data mining algorithms.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Interpret** the nature of real-world data and the issues faced in developing intelligent learning systems.	C5 - Cognitive-Evaluate	Lecture/Tutorial/ Case study	Written Test Case study Assignments
CLO 2	**Organize** how data mining techniques can be applied to complex data objects, and communicate their technical issues coherently and precisely.	A4 - Affective - Organization	Tutorial/ Flip Classroom	Assignment Project Report
CLO 3	**Construct** feasible techniques to gain practical intuition about how to apply on datasets of realistic sizes using modern data mining frameworks.	C6 - Cognitive-Create	Lecture/Tutorial/ Case study	Simulation Exercise

1	**Name of the Course**	**Cryptography and Network Security**
2	**Course Code**	**21CSP06/21ITP06/21CTP06**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a strong foundation on computer security concepts and to analyze and interpret various encryption techniques, block cipher, Data Encryption Standard, key exchange, hash algorithms, digital signature, email security and firewalls.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Determine** computer security concepts, block cipher and Data Encryption Standard by application of various cryptographic and encryption techniques	C5-Cognitive-Evaluation	Lecture/ Tutorial/ Case study	Case study Assignment Simulation Exercise
CLO 2	**Organize** key exchange, hash algorithms and digital signature for the establishment of secure communication between information sender and receiver	A4-Affective-Organization	Case study Assignments/ Fishbowl Techniques/FlipClass room/ Group Discussion	Reports Assignment 1
CLO 3	**Construct** email security and firewalls to have the authenticated and trusted exchange of data between nodes	C6-Cognitive-Create	Lecture/ Tutorial/ Case study	Assignment2

1	**Name of the Course**	**Internet of Things**
2	**Course Code**	**21CSP07/21ITP07/21CTP07**
3	**Course Type**	**Theory**
4	**Synopsis/Rationale of the Module**	This course has four credits that students can understand the significance of the Internet of Things, Architecture and design, protocols, analytical methods tools and benefits of IOT solutions.The students can able to design some IOT based prototypes.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Illustrate** the concepts of IOT, IOT Network Architecture and design and smart objects	C4-Analyse **(Cognitive)**	Lecture/Tutorial	Written Test 1 MCQ
CLO 2	**Describe**the application protocols used for IOT	C5-Evaluate- **(Cognitive)**	Lecture/ Problem solving	Exam
CLO 3	**Identify** the business benefits, opportunities and the technologies involved with the IOT.	A4 – Organizing values **(Affective)**	Group Discussion	Presentation 1 Presentation 2

1	**Name of the Course**	**Compiler Design**
2	**Course Code**	**21CSP08 / 21ITP08**
3	**Course Type**	**Theory**
4	**Synopsis/Rationale of the Module**	This course describes the theory and practice of compilation, in particular, the lexical analysis, parsing and code generation and optimization phases of compilation, and design a compiler for a concise programming language
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Basic Compiler and Programming Skills.
8	**Assessment Strategy**	50% External and 50% Internal

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**
At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Interpret** thephases of compiler and Lex tool	C5- Evaluate (Cognitive)	Lecture/ Tutorial	Written Test 1
CLO 2	**Formulate** how the syntax analysis phase works and classify the parsers.	C6-Create (Cognitive)	Lecture / Tutorial / Problem solving	Quiz
				Written Test 2
CLO 3	**Explain** the intermediate code representations, Code generation and Code Optimization based on given code patterns	A4 – Organizing values (Affective)	Tutorial / Group work / Problem Based Learning PBL	Digital Reports 1
				Digital Reports 2

1	**Name of the Course**	**Practical - Cryptography and Network Security Using NS3**
2	**Course Code**	**21CSP09 / 21ITP09 / 21CTP09**
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	This practical course is designed to provide the students with the knowledge of building applications with the implementation of substitution techniques, transposition techniques and encryption algorithm, where it provides the students with the knowledge of simulation through communication of nodes in the network.
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO1	**Build** applications using substitution techniques, transposition techniques and encryption algorithms	P3 – Psychomotor - Guided Response	Practical Demonstration	Practical Test
CLO2	**Adopt** simulation through communication of nodes in the network	P3 – Psychomotor - Adaption	Practical Demonstration	Computer Simulations

1	**Name of the Course**	**Artificial Intelligence**
2	**Course Code**	**21CSP21**
3	**Course Type**	**Theory**
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a strong foundation on artificial intelligence, intelligent agents, search strategies,heuristic functions, constraint satisfaction problems, backward chaining and planning with blocks world planning application and to describe the concepts Robotics and Robotic software Architectures
5	**Semester and Year Offered**	II Semester & Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the principles of intelligence and its applications or a multi-disciplinary approach.	C5-Evaluate(Cognitive)	Lecture/ Tutorial	MCQ 1
CLO 2	**Elaborate**the online search agents and Heuristic functions	C6-Create (Cognitive)	Lecture/Tutorial/ Problem solving	Simulation Exercise Case Study Assignment
CLO 3	**Identify** the concepts of forward chaining, backward chaining and planning with blocks world planning Application. Illustrate Robotic Perception.	A4 – Organizing values (Affective)	Tutorial / Group work / Problem Based Learning PBL	Portal Reviews Project Report

1	**Name of the Course**	**PC Software Lab**
2	**Course Code**	**21GEP07**
3	**Course Type**	**Practical**
4	**Synopsis/Rationale of the Module**	This course provides hands-on use ofMicrosoft Office applications such as word documents, excel spread sheets, power point presentations and access databases. The students can also learn the efficient internet search and use e-mail services. The students can use this application software to solve business problems and increase efficiency in the workplace.
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	-
8	**Assessment Strategy**	50 % Internal and 50 % External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Construct**theprofessional word documents and excel spreadsheets to perform calculations and display charts and **design** thepresentations	P5-Complex Over Response **(Psychomotor)**	Practical/ Demonstration	Computer Simulations
CLO 2	**Adopt** the concepts of database and the internet search mechanism and e-mail service	P6 -Adaption **(Psychomotor)**	Practical/ Demonstration	Practical test

1	**Name of the Course**	**RDBMS using Oracle**
2	**Course Code**	**21GEP08**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course is designed to give the student maximum exposure to Oracle SQL and PL/SQL. The students will learn the data basedesign, relational database model, normalization, SQL queries to define, manipulate the data on tables. The students can design simple database system and develop PL/SQL programs to access Oracle databases.
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	2
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Elucidate** thedatabase concepts, design, relational database model, normalization, Oracle 9i and SQL queries to create tables and to manipulate the data on the tables	C4-Analyse **(Cognitive)**	Lecture/ Tutorial / Problem Solving	TCA Written Test 1
CLO 2	**Propose** solutions by applying functions, grouping, join and set operations, sub queries and advanced features such as views and transactions	A3-Valuing **(Affective)**	Tutorial/ PBL	Digital Reports
CLO 3	**Perform** PL/SQL programming using Cursor Management, Error handling, composite data types and named blocks	A5-Internalising values **(Affective)**	PBL	Reports Business Simulations

1	**Name of the Course**	**Practical - RDBMS using Oracle Lab**
2	**Course Code**	**21GEP09**
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To enable the students to inculcate the knowledge on the structure of database, SQL queries to define, manipulate the data and demonstrate the key concepts of PL/SQL procedures. The students can design simple database.
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	2
7	**Pre-requisite (if any)**	Knowledge in Structural Query language and its Concepts.
8	**Assessment Strategy**	50 % Internal and 50 % External

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Build** table, inserting records into the table and alter the table structure and display the records using built-in functions	P5-Complex Over Response **(Psychomotor)**	Practical/ Demonstration	Computer Simulations 1
CLO 2	**Adopt** the concepts of view and report using various SQL queries PL/SQL programs to achieve business logics	P6 -Adaption **(Psychomotor)**	Practical/ Demonstration	Computer Simulations 2

1	**Name of the Course**	**DSC 1: ENGLISH**
2	**Course Code**	21SSI01
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has three credits dedicated to provide the students a strong foundation on communicative English. It also enables the students to excel in all facets of communication.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	NA
8	**Assessment Strategy**	50% External and 50% Internal

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	Interpret poetic diction and literary devices that can modify creative writing. (C3, PLO2)	C3 – Apply	Lecture/Tutorial	Written Test Essay
	CLO 2	Show continual desire to learn necessary strategies to overcome barriers in communication and learn about communication network. (A3,PLO5)	A3 - Valuing	Group Discussion	ster Presentation Video Presentation
	CLO 3	Preferthe given tips and practice group discussion and interview skills. (A3,PO11)	A3- Valuing	Flip Classroom	Assignment

1	**Name of the Course**	**C Programming**
2	**Course Code**	**21SSI02**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	•This course has four credits that provides students with knowledge of developing an application and strong foundation on programming concepts in C Language •It enables students to solve the problems with programmable logic.
5	**Semester and Year Offered**	I Semester, Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in basics of computers.
8	**Assessment Strategy**	50% External and 50% Internal

9	**Course Learning Outcomes (Write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the fundamental concepts of procedure-oriented programming such as tokens, data types, operators and control structures.	C2 (Cognitive), Comprehension	Lecture/ Tutorial	Written Test MCQ
	CLO 2	**Apply** the concept of arrays, pointers, Function and Files for working with heterogeneous data.	C3 (Cognitive), Application	Lecture/ Tutorial	Written Test Assignment
	CLO 3	**Adopt** the concept of Process, thread creation and also about database programming using ODBC.	A3 (Affective) Valuing	Case study Assignments/ Group Work	Simulation

1	**Name of the Course**	**Algebra for Software System**
2	**Course Code**	**21SSI03**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course provides students with a basic understanding of Matrices with Series and Equations. It enables students to develop the strong background on recognizing technical terms and understand uses of Algebra.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge in Matrices, relations and functions
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Use the basic concepts of Matrices , Rank of Matrices of solve Linear Equations and its special types.	C3 Apply	Lecture/ Tutorial	Simulation Exercise
CLO 2	Apply the knowledge in solving problems in Linear Transformations	C3 Apply	Lecture/ Tutorial	Written Test & Case Study Assignment
CLO 3	Perform the concept of exponential and logarithmic series and construct examples.	A2 Responding to phenomena	Case Study Assignment/ Group Discussion	Project Report & Assignment

1	**Name of the Course**	**COMPUTER ORGANIZATION AND ARCHITECTURE**
2	**Course Code**	**21SSI04**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of computer architecture. The course highlights on register transfer logic, input-output, memory organization, arithmetic operations and pipeline processing. It enables students to understand the working of central processing unit and architecture of a computer
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Computer Basics
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the architecture, register transfer logic and functions of central processing unit	C2-Understand-Cognitive Domain	Lecture/Tutorial	Written Test MCQ
CLO 2	**Analyze** the performance of computer arithmetic operations, pipelining and organization of input-output organization	C4- Analysis-Cognitive Domain	Lecture/Tutorial	Written Test Quiz
CLO 3	**Discuss** the importance of memory organization and inter processer communication	A2-Responding - Affective Domain	Group Discussion	Group Assignment

1	**Name of the Course**	**Practical – Programming Lab – C**
2	**Course Code**	**21SSI05**
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	Enable the students to solve the problems with programmable logic.
5	**Semester and Year Offered**	I Semester, Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Internal and 50 % External

	Course Learning Outcomes (write the statement of the course learning outcomes)				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
9	**CLO 1**	**Build** programs using operators, conditional statements and looping statements	P3-Guided Response **Psychomotor**	Practical/ Demonstration	Simulation
	CLO 2	**Construct** programs to explore the concepts of arrays, pointers, structure, union, functions ,preprocessor directive, files and command line arguments	P3-Guided Response **Psychomotor**	Practical/ Demonstration	Simulation

1	**Name of the Course**	**Self Study Paper – PC Software Lab**
2	**Course Code**	**21SSI06**
	Course Type	Practical
4	**Synopsis/Rationale of the Module**	To enable the students to acquire basic knowledge in LibreOffice / MS-Office
5	**Semester and Year Offered**	I Semester, Year I
6	**Credit Value**	1
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	100 % External

	Course Learning Outcomes (write the statement of the course learning outcomes)				
9	**CLO**	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Build** documents, sheets to perform various operations and also acquire knowledge to create presentation and poster design.	P3-Guided Response **Psychomotor**	Practical/ Demonstration	Practical Test

1	**Name of the Course**	**Calculus and its Applications**
2	**Course Code**	**21SSI07**
3	**Course Type**	Theory and Problems
4	**Synopsis/Rationale of the Module**	This course offers students to be familiar with the concept of differential and integral calculus to explore the relationship between moving objects are encountered.
5	**Semester and Year Offered**	II Sem ; Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge in basic mathematics
8	**Assessment Strategy**	50% External, and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	Prepare the basic theory, techniques and methodology with the problem.	C3 (Apply)	Lecture/ Tutorial	Written Test & Assignment
CLO 2	Explain the mathematical theory concepts and scientific arguments needed to communicate the results with a model.	A3 (Valuing)	Group Work	Digital Report
CLO 3	Propose method of solution, formulation with constraints and qualitative behavior of solution for a real life problems.	C5 (Evaluate)	Lecture/ Problem Solving	Simulation Exercise& Case Study Assignment

1	**Name of the Course**	**OBJECT ORIENTED PROGRAMMING USING C++**
2	**Course Code**	**21SSI08**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course enables the students to develop industrial strength software applications using powerful general purpose programming concepts. The course also highlights the way to attain efficient management of memory and enhanced performance through developing optimized C++ code.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Illustrate** the features of object oriented programming approach and basic constructs of C++ with classes and objects using functions.	C2 (Cognitive), Understand	Lecture/ Tutorial	Written Test MCQ
CLO 2	**Demonstrate** the concepts that supports code reusability, dynamic initialization and efficient memory management for complex real time applications with optimized code.	C3 (Cognitive) (Apply)	Lecture/ Tutorial	Written Test Assignment
CLO 3	**Experiment** the concepts of streams, generic programming, exceptions emerged in real time applications and string	C4 (Cognitive) (Analyze)	Lecture/Tutorial/Case study/Problem solving	Simulation

1	**Name of the Course**	**Data Structures and Algorithm**
2	**Course Code**	**21SSI09**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a strong foundation on fundamental concept of data structures and to get knowledge in various data structures like arrays, stack, queue, trees, problem solving techniques and applications .
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

		manipulations.			

9	**Course Learning Outcomes (write the statement of the course learning outcomes)** At the end of the course the students will be able to:				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the various types of data structures and understand the importance of its applications	C2-Cognitive-Understand	Lecture/Tutorial	Written Test MCQ
	CLO 2	**Demonstrate** appropriate data structure and algorithmic design method for a Tree traversal and obtain a feasible solution using critical thinking.	C3-Cognitive-Apply	Lecture/Tutorial	Simulation Assignment
	CLO 3	**APPLY** various graph theoretical techniques to test and validate intuition and independent mathematical thinking in real time problems	C3-Cognitive-Apply	Lecture/Tutorial/ Case Study	Case Study

1	**Name of the Course**	**Practical – C++ with Data Structures Lab**
2	**Course Code**	**21SSI10**
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To enable the students programming skills in C++ programming language and understand the concepts of Data Structures with its practical applications.
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Internal and 50 % External

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Build** programs to implement object oriented concepts.	P3-Guided Response **Psychomotor**	Practical/ Demonstration	Simulation
	CLO 2	**Construct** programs to explore the concepts of stack, queue,binary tree, sorting and searching techniques	P3-Guided Response **Psychomotor**	Practical/ Demonstration	Simulation

1	**Name of the Course**	**DIGITAL COMPUTER FUNDAMENTALS**
2	**Course Code**	**21CDC01**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a basic understanding of digital and binary systems, Boolean algebra, Combinational and Sequential Circuits. It enables students to solve the problems relating to various types of business.
5	**Semester and Year Offered**	I Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge on Computer Basics
8	**Assessment Strategy**	50% External and 50% Internal

9 Course Learning Outcomes (write the statement of the course learning outcomes)

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the architecture and functionality of central processing unit	C2- Understand - Cognitive Domain	Lecture/ Tutorial	Rapid Fire and Assignment
CLO 2	**Apply** the impacts of the design issues in terms of speed, technology, cost, performance	C3 - Apply - Cognitive Domain	Lecture/ Tutorial	Online Test
CLO 3	**Discuss** in groups the combinational circuits using MSI components.	A2- Responding – Affective Domain	Group Discussion	Group Assignment and Simulation

1	**Name of the Course**	**Programming in C & Practical - Programming Lab - C Programming**
2	**Course Code**	**21CDC02A & 21CDC02B**
3	**Course Type**	Theory and Practical - Embedded
4	**Synopsis/Rationale of the Module**	This course has four credits that provides students with knowledge of developing an application and strong foundation on programming concepts. It enables students to solve the problems with programmable logic.
5	**Semester and Year Offered**	I Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in basics of computers.
8	**Assessment Strategy**	50% Theory (25% Internal & 25% External) and 50% Practical (25% Internal & 25% External)

9	**Course Learning Outcomes (Write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Describe** the fundamental concepts of procedure-oriented programming such as tokens, data types, operators and control structures in solving simple mathematical problems.	C2 (Cognitive) Understand	Lecture/ Tutorial	Quiz
	CLO 2	**Apply** the concept of Arrays and Functions in simple applications for handling homogenous data and achieve code reusability	C3 (Cognitive), Apply	Lecture/ Tutorial	Problem Based Learning - Debugging
	CLO 3	**Adopt** the concept of Structures, Unions, Pointers and Files for working with heterogeneous data, memory address access and permanent data storage in medium scale applications.	A3 (Affective), Valuing	Group discussion	Assignment
	CLO 4	**Practice** the method of using the fundamental concepts, control flow statements, user defined and derived data types and permanent data storage concepts in simple to complex real-time problems.	P3 (Psychomotor) Guided Response	Practical/ Demonstration	Simulation and Mind Map

1	**Name of the Course**	**Practical – Excel Macro Lab**
2	**Course Code**	**21CDE01**
3	**Course Type**	Practical
4	**Synopsis/Rationale of the Module**	To enable the students to develop macros for implementing real world applications using various built in functions available in spread sheet.
5	**Semester and Year Offered**	I Semester, Year I
6	**Credit Value**	2
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Internal and 50 % External

9	**Course Learning Outcomes (write the statement of the course learning outcomes)**				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Display** a simple operational Macros with the support of basic tools.	P3-Guided Response **Psychomotor**	Practical/ Demonstration	Simulation I
	CLO 2	**Build** an advanced operational Macros with the support of basic tools	P3-Guided Response **Psychomotor**	Practical/ Demonstration	Simulation II

1	**Name of the Course**	**Data Structures and Algorithms**
2	**Course Code**	**21CDC03**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	This course has four credits dedicated to provide the students a strong foundation on fundamental concept of data structures and to emphasize the importance of data structures in developing and implementing efficient algorithms.
5	**Semester and Year Offered**	II Sem; Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Nil
8	**Assessment Strategy**	50% External and 50% Internal

9 **Course Learning Outcomes (write the statement of the course learning outcomes)**

At the end of the course the students will be able to:

CLO	Statements	Level of Taxonomy	Teaching Method	Mode of Assessments
CLO 1	**Describe** the various types of data structures and understand the importance of its invariants	C2-Cognitive-Understand	Lecture/Tutorial	Assignment and Online Test
CLO 2	**Demonstrate** appropriate data structure and algorithmic design method for a Tree traversal and obtain a feasible solution using critical thinking.	C3-Cognitive-Apply	Lecture/Tutorial/ Problem solving	Simulation and Problem based Learning
CLO 3	**Apply** various graph theoretical techniques to test and validate intuition and independent mathematical thinking in real time problems	C3-Cognitive-Apply	Lecture/Tutorial/ Problem solving	Case Study

1	**Name of the Course**	**Object Oriented Programming using C++ & Practical: C++ Programming**
2	**Course Code**	**21CDC04A & 21CDC04B**
3	**Course Type**	Theory and Practical - **Embedded**
4	**Synopsis/Rationale of the Module**	This course enables the students to develop industrial strength software applications using powerful general purpose programming concepts. The course also highlights the way to attain efficient management of memory and enhanced performance through developing optimized C++ code. The Course also supports to view the real world applications in terms of manageable objects that leads to design quality software.
5	**Semester and Year Offered**	II Semester , Year I
6	**Credit Value**	4
7	**Pre-requisite (if any)**	Knowledge in Fundamental Programming and Computing Concepts.
8	**Assessment Strategy**	50 % Theory (25 %Internal & 25% External) and 50 % Practical (25% Internal and 25 % External)

	Course Learning Outcomes (Write the statement of the course learning outcomes)				
	CLO	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
9	**CLO 1**	**Illustrate** the features of object oriented programming approach and basic constructs of C++ with classes and objects using functions	C2 (Cognitive) Understand	Lecture/ Tutorial	Online Test
	CLO 2	**Demonstrate** the concepts that supports code reusability, dynamic initialization and efficient memory management for complex real time applications with optimized code	C3 (Cognitive) Apply	Lecture/ Tutorial	Problem Based Learning I - Debugging
	CLO 3	**Experiment** the concepts of streams, generic programming, exceptions emerged in real time applications and string manipulations	C4 (Cognitive) Analyze	Lecture/ Tutorial/ Case study/Problem solving	Problem Based Learning I - Debugging
	CLO 4	**Build** a software solution with effective storage strategies and handling exceptions that emerged dynamically with problem solving ability	P3 Guided Response (Psychomotor)	Practical/ Demonstration	Simulation I and Simulation II

1	**Name of the Course**	**Academic Skill for Computer Studies**
2	**Course Code**	**21AEC33**
3	**Course Type**	Theory
4	**Synopsis/Rationale of the Module**	The primary objective of the course is to develop a range of academic skills and to provide opportunities for practice Higher education level. Particular attention is given to the facilitation of skills transfer for further study and career development. Additionally, this course helps the students to enhance their skills in higher education system to have smooth progress at the undergraduate level.
5	**Semester and Year Offered**	II Semester, Year I
6	**Credit Value**	3
7	**Pre-requisite (if any)**	Not Applicable
8	**Assessment Strategy**	100 % Theory (50 %Internal &50% External)

	Course Learning Outcomes (write the statement of the course learning outcomes)				
9	**CLO**	**Statements**	**Level of Taxonomy**	**Teaching Method**	**Mode of Assessments**
	CLO 1	**Produce** an effective personal development plan with the use of effective learning skills	C3 (Cognitive) Apply	Lecture/ Tutorial	Plan submission for three years
	CLO 2	**Use** of IT resources effectively for academic presentation and communication	A3 (Affective) Valuing	Group Discussion	Technical Presentation
	CLO 3	**Show** continual desire to demonstrate effective team work with application of effective time management skills	A3 (Affective) Valuing	Group Discussion	Group Assignments