Name of Program: BCA

PROGRAM OUTCOMES

Program **: BCA**	A.Y**: 2019-2020**

On completion of this program, the students will able to achieve the following Program outcomes and course outcomes

PO's	Program Outcomes
PO1	Apply knowledge of mathematics, science and algorithm in solving Computer problems and applied use of banks
PO2	Learn various custom software
PO3	Design component, or processes to meet the needs within realistic constraints.
PO4	Identify, formulate, and solve problems using computational temperaments.
PO5	Comprehend professional and ethical responsibility in computing profession.
PO6	Express effective communication skills.
PO7	Recognize the need for interdisciplinary, and an ability to engage in life-long learning.
PO8	Actual hands on technology to understand its working.
PO9	Knowledge of contemporary issues and emerging developments in computing profession.
PO10	Utilize the techniques, skills and modern tools, for actual development process
PO11	Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings in actual development work
PO12	Research insights and conduct research in computing environment.

COURSE OUTCOMES

Program **: BCA**	Course **: Fundamentals of Computer Science and Information Technology**	
Class **: BCA I Sem**	Course Code : **BCA-101**	A.Y**: 2019-20**

Course Objectives:	Through this paper Student should learn basic principles of computer. The paper is designed to aim at importing basic level of Computer.
CO's	**Course Outcomes**
CO1	To learn Basic Function of Devices like I/O, HDD etc
CO2	To Understand the Fundamental of Software and Hardware.
CO3	Understand the Concept of Operating System and Network.
CO4	Understanding the concept of input and output devices of Computers
CO5	Learn basic word processing, Spreadsheet and Presentation Graphics Software skills.
CO6	Study to use the Internet safely, legally, and responsibly

COURSE OUTCOMES

Program : **BCA**	Course : **Office Automation**	
Class : **BCA I Sem**	Course Code : **BCA-102**	A.Y : **2019-20**

Course Objectives:	The main objective of Office Automation is to enhance and upgrade the existing system by increasing its efficiency and effectiveness. It will simplify the task and reduce the paper work means the software improves the working methods by replacing the existing manual system with the computer-based system.
CO's	**Course Outcomes**
CO1	Understand and apply the basic concepts of a word processing package.
CO2	Understand and apply the basic concepts of electronic spreadsheet software.
CO3	Understand and apply the basic concepts of database management system
CO4	To perform accounting operations
CO5	To perform presentation skills
CO6	To perform documentation

COURSE OUTCOMES

Program : **BCA**	Course : **Programming in C**	
Class : **BCA I Sem**	Course Code : **BCA-103**	A.Y: **2019-20**

Course Objectives:	It is general purpose and procedure oriented programming language. In which we are able to develop OS and MAC operating system, application software and Programming languages. Programming Language are also used to build students Logic for programming.
CO's	**Course Outcomes**
CO1	To study of structure of programming languages, structure of c program.
CO2	To study different keyword for making program.
CO3	To develop programs using operators and control statement.
CO4	To describe an array, structure, union, string and functions.
CO5	Student are able to develop application software.
CO6	Understand the basics of file handling mechanisms

COURSE OUTCOMES

Program **: BCA**	Course **: Elective: Element of Statistics Subject Code**	
Class **: BCA I Sem**	Course Code : **BCA-104 A**	A.Y**: 2019-20**

Course Objectives:	Interact ideas of random variable, frequency distribution, calculate and interact various measures in statistics.
CO's	**Course Outcomes**
CO1	Explain the use of data collection & statistics.
CO2	Recognize, examine & interact the basic principles of describing and presenting data.
CO3	Concepts of statistical population and sample, variables and attributes
CO4	Moments and their use in studying various characteristics of data.
CO5	Different approaches to the theory of probability
CO6	Tabular and graphical representation of data based onvariables

COURSE OUTCOMES

Program **: BCA**	Course **: Elective: Mathematical Technique in Computer Science (MTCS)**	
Class **: BCA I Sem**	Course Code : **BCA-104 B**	A.Y**: 2019-20**

Course Objectives:	Knowledge, skill & understanding develop understanding & fluency in mathematics through inquiry, exploring & connecting mathematical concept choosing & applying problem solving skills.
CO's	**Course Outcomes**
CO1	Able to use standard mathematical techniques to solve elementary problem.
CO2	Understand the nature of mathematical proof & be able to write clear & concise proof.
CO3	Evaluate the validity of logical arguments and construct mathematical proofs
CO4	Analyze whether given graphs are isomorphic and apply different algorithms to find the shortest path.
CO5	Learn and apply multivariate analysis necessary for Principal Component Analysis.
CO6	Apply the concept of two dimensional random variables to correlation, regression and Central limit theorem

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses**	
Class **: BCA I Sem**	Course Code : **BCA-105 A**	A.Y**: 2019-20**

Course Objectives:	1. To make a comprehensive use of English in day-to-day life. 2. To help Students develop the ability to learn and contribute critically. 3. To develop the writing skills of the students. 4. To help the students to understand the basic usages of English.
CO's	**Course Outcomes**
CO1	Understand and demonstrate Basic English usages for their different purposes.
CO2	Clear entrance examination and aptitude tests.
CO3	Write various letters, reports required for professional life.

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: Business Communication**	
Class **: BCA I Sem**	Course Code : **BCA-105 B**	A.Y**: 2019-20**

Course Objectives:	1. To make a comprehensive use of English in day-to-day life. 2. To help Students develop the ability to learn and contribute critically. 3. To develop the writing skills of the students. 4. To help the students to understand the basic usages of English.
CO's	**Course Outcomes**
CO1	Understand and demonstrate Basic English usages for their different purposes.
CO2	Clear entrance examination and aptitude tests.
CO3	Write various letters, reports required for professional life.
CO4	To provide an overview of Prerequisites to Business Communication.
CO5	To put in use the basic mechanics of Grammar.
CO6	To provide an outline to effective Organizational Communication.

COURSE OUTCOMES

Program **: BCA**	Course **: Lab-Course : C Programming**	
Class **: BCA I Sem**	Course Code : **BCA-106**	A.Y **: 2019-20**

Course Objectives:	The purpose of this course is to introduce to students to the field of programming using C language. The students will be able to enhance their analyzing and problem solving skills and use the same for writing programs in C.
CO's	**Course Outcomes**
CO1	Read, understand and trace the execution of programs written in C language.
CO2	Write the C code for a given algorithm.
CO3	Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.
CO4	Write programs that perform operations using derived data types.
CO5	Know concepts in problem solving
CO6	To do programming in C language

COURSE OUTCOMES

Program **: BCA**	Course **: Lab-Course : Office Automation**	
Class **: BCA I Sem**	Course Code : **BCA-107**	A.Y**: 2019-20**

Course Objectives:	To make students familiar with general purpose office automation tools. The students would be able to do office work smoothly with the help of computers.
CO's	**Course Outcomes**
CO1	To perform documentation
CO2	To perform accounting operations
CO3	To perform presentation skills
CO4	Translate raw data into a meaningful information by creating charts and pivot tables.
CO5	Construct formulas, including the use of built-in functions, and relative and absolute references.
CO6	Understand the features and functionalities of most commonly used office automation tools.

COURSE OUTCOMES

Program **: BCA**	Course **: Business Accounting with Tally**	
Class **: BCA II Sem**	Course Code : **BCA-201**	A.Y**: 2019-20**

Course Objectives:	1. To impart basic accounting knowledge 2. To understand the concept, process and importance of financial accounting. 3. To gain knowledge of business accounting 4. To help students to acquaint with application of Tally in the business world.
CO's	**Course Outcomes**
CO1	Students will able to do Accounting Using Tally
CO2	Understand the Principles of Accounting, branches of Accounting and its Application.
CO3	Ascertain Profit / Loss earned by the business and its financial position
CO4	Prepare cost sheet and maintaining stores ledger.
CO5	Assess the financial Performance of the business by applying Management Accounting Concepts
CO6	Prepare various budgets for managerial decision making and policy framing.

COURSE OUTCOMES

Program : **BCA**	Course : **Organizational Behavior**	
Class : **BCA II Sem**	Course Code : **BCA-202**	A.Y: **2019-20**

Course Objectives:	To familiarize students with students with the basic concepts of organizational behavior and to enhance their understanding the interaction of individual in the organization.
CO's	**Course Outcomes**
CO1	Students will become more self-aware and will have identifies areas of development for long term effectiveness.
CO2	Students will understand the role individuals play collectively to perform in the organization.
CO3	Students will be able to explain the concept of Organization Design and determine the factors that affect Organization Design.
CO4	Students will be able to identify the components of Individual Behavior and apply the concept of Learning, Perception, Attitudes and values.
CO5	The student will be able to distinguish between the various theories of motivation and their application in organizations and also be able to apply these theories to practical problems in organizations. They will also be able to distinguish between a number of different leadership theories & styles and contribute to the effective performance of a team as the team leader or a group member.
CO6	The future managers/ students will be able to analyses the behavior of individuals and groups in organizations in terms of the key factors that influence organizational behavior and demonstrate skills required for working in groups (team building).

COURSE OUTCOMES

Program **: BCA**	Course **: Web Technology**	
Class **: BCA II Sem**	Course Code : **BCA-203**	A.Y**: 2019-20**

Course Objectives:	1. To improve the skill to create the static web page. 2. To develop the ability to create the dynamic web pages. 3. To enhance the ability of Insert a graphic within a web page. 4. To improve the skills to Create, validate and publish a web page.
CO's	**Course Outcomes**
CO1	Be able to use HTML programming
CO2	Analyze given assignment to select sustainable web development and design methodology
CO3	develop web based application using suitable client side and server side web technologies
CO4	develop solution to complex problems using appropriate method, technologies, frameworks, web services and content management
CO5	Prepare, Plan and Create a Web Site.
CO6	Demonstrate a clear knowledge of Microsoft FrontPage and the features it offers.

COURSE OUTCOMES

Program : **BCA**	Course **: Elective : E-Commerce**	
Class **: BCA II Sem**	Course Code : **BCA-204 A**	A.Y**: 2019-20**

Course Objectives:	The objective of this course is to provide students with an overview and understanding of ecommerce with a specific emphasis on Internet Marketing. Specifically, students will: 1. Examine the ways that marketing can be done, and is being done, using the Internet. 2. Gain an understanding of networked computers and the Internet. Students will learn to use the several Internet services such as the World Wide Web, Email. Use of these services for marketing purposes.
CO's	**Course Outcomes**
CO1	Understand the basic concepts and technologies used in the field of management information systems
CO2	Have the knowledge of the different types of management information systems
CO3	Understand the processes of developing and implementing information systems
CO4	Be aware of the ethical, social, and security issues of information systems
CO5	Understand the basic concepts of E-commerce
CO6	Demonstrate an retailing in E-commerce by using the effectiveness of market research

COURSE OUTCOMES

Program **: BCA**	Course **: Elective : Desktop Publishing (DTP)**	
Class **: BCA II Sem**	Course Code : **BCA-204 B**	A.Y**: 2019-20**

Course Objectives:	This course will provide students the opportunity to learn to use basic features of desktop publishing software to create all types of publications: flyers, brochures, Newsletters, and advertisements. Included in the course will be basic page layout and design principles and integrating text and graphics to create attractive business Publications. The course will be taught with Adobe InDesign.
CO's	**Course Outcomes**
CO1	Create personal documents such as business cards and resumes.
CO2	Create business documents such as flyers and advertisements.
CO3	Create a newsletter with graphics and draw objects.
CO4	Create a course project illustrating Desktop Publishing techniques.
CO5	Incorporates tools or techniques that will help students to plan and execute their time effectively in order to follow a deadline
CO6	Utilize traditional studio techniques interactively with computer design software to prepare the final product for publication

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses**	
Class **: BCA II Sem**	Course Code : **BCA-205 A**	A.Y **: 2019-20**

Course Objectives:	The objective of NPTEL is to provide quality education to the students.
CO's	**Course Outcomes**
CO1	NPTEL aims to partner with organizations in a mutually beneficial manner by offering courses to train the fresher's in the companies and to cross-skill and up-skill the existing workforce.

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: Functional English**	
Class **: BCA II Sem**	Course Code : **BCA-205 B**	A.Y**: 2019-20**

Course Objectives:	1. A comprehensive use of English in day-to-day life. 2. To help Students develop the ability to learn and contribute critically. 3. To develop the writing skills of the students. 4. To help the students to understand the basic usages of English.
CO's	**Course Outcomes**
CO1	Understand and demonstrate Basic English usages for their different purposes.
CO2	Clear entrance examination and aptitude tests.
CO3	Write various letters, reports required for professional life.
CO4	Understand the function of grammatical items used in spoken / written language
CO5	Understand language rules, structure and usage
CO6	Understand the relationship between the form and function of grammatical categories

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: Corporate English**	
Class **: BCA II Sem**	Course Code : **BCA-205 B**	A.Y **: 2019-20**

Course Objectives:	1. A comprehensive use of English in day-to-day life. 2. To help Students develop the ability to learn and contribute critically. 3. To develop the writing skills of the students. 4. To help the students to understand the basic usages of English.
CO's	**Course Outcomes**
CO1	Understand and demonstrate Basic English usages for their different purposes.
CO2	Clear entrance examination and aptitude tests.
CO3	Write various letters, reports required for professional life.
CO4	Students will improve their speaking ability in English both in terms of fluency and comprehensibility
CO5	Students will give oral presentations and receive feedback on their performance
CO6	Students will increase their reading speed and comprehension of academic articles

COURSE OUTCOMES

Program **: BCA**	Course **: Lab-Course : Tally.ERP 9**	
Class **: BCA II Sem**	Course Code : **BCA-206**	A.Y**: 2019-20**

Course Objectives:	To introduce the students to the Basic of Accounts and the usage of Tally for accounting purpose.
CO's	**Course Outcomes**
CO1	Student should be able to perform accounting, inventory and GST in Tally.ERP 9
CO2	Enter the accounting transactions in computerized format and find the financial result of a concern
CO3	Acquire the skill of financial decision making in a systemized manner.
CO4	Interpret financial statements as well as evaluation of stock at the end.
CO5	Describe the basic accounting concept and principals
CO6	Prepare the cash flow and fund flow statements using tally

COURSE OUTCOMES

Program **: BCA**	Course **: Lab-Course : Web Technology**	
Class **: BCA II Sem**	Course Code : **BCA-207**	A.Y**: 2019-20**

Course Objectives:	The objective of this lab is to To develop an ability to design and implement static and dynamic website
CO's	**Course Outcomes**
CO1	Analyze a web page and identify its elements and attributes.
CO2	Create web pages using HTML and Cascading Style Sheets.
CO3	Build dynamic web pages using JavaScript (Client side programming).
CO4	Create XML documents and Schemas.
CO5	develop solution to complex problems using appropriate method, technologies, frameworks, web services and content management
CO6	develop web based application using suitable client side and server side web technologies

COURSE OUTCOMES

Program : **BCA**	Course : **Programming in C++**	
Class **: BCA III Sem**	Course Code : **BCA-301**	A.Y**: 2019-20**

Course Objectives:	The primary purpose of C++ programming was to add object orientation to the C programming language, which is one of the most powerful programming languages. The heart of the pure object-oriented programming is to create an object, which has Properties and methods.
CO's	**Course Outcomes**
CO1	Students are able to define objects which the core part of object oriented programming languages.
CO2	It helps to develop and build logic for programming among the learners.
CO3	Students are able to develop application software using C++.
CO4	Describe OOPs concepts
CO5	Use functions and pointers in your C++ program
CO6	Understand tokens, expressions, and control structures

COURSE OUTCOMES

Program **: BCA**	Course **: Operating System Concepts**	
Class **: BCA III Sem**	Course Code : **BCA-302**	A.Y **: 2019-20**

Course Objectives:	Through this paper Student should learn fundamentals of OS design, including memory, processor, device, and data management with lots of discussion on the pros and cons of design choices and problem/question sets to make the reader think through design alternatives
CO's	**Course Outcomes**
CO1	To understand the different Concept of Operating System.
CO2	Identify the role of Operating System. To understand the design of control unit.
CO3	Understanding CPU Scheduling, Synchronization, Deadlock Handling and Comparing CPU Scheduling Algorithms. Solve Deadlock Detection Problems
CO4	Describe the role of paging, segmentation and virtual memory in operating systems.
CO5	Description of protection and security and also the Comparison of UNIX and Windows based OS.
CO6	Defining I/O systems, Device Management Policies and Secondary Storage Structure and Evaluation of various Disk Scheduling Algorithms.

COURSE OUTCOMES

Program **: BCA**	Course **: Database Management System**	
Class **: BCA III Sem**	Course Code : **BCA-303**	A.Y**: 2019-20**

Course Objectives:	The objective of the course is to enable students to understand and use the concepts of Data, Database Systems, DBMS, and Applications of DBMS. Understand the structure of DBMS, various Data Models, designing relational database systems, using relational algebra and Normalization.
CO's	**Course Outcomes**
CO1	Able to master the basic concepts and understand the applications of database systems.
CO2	Able to construct an Entity-Relationship (E-R) model from specifications and to transform to relational model.
CO3	Able to construct unary/binary/set/aggregate queries in Relational Algebra.
CO4	Understand and apply database normalization principles.
CO5	Basic of Database protection & Distributed databases.
CO6	Criticize a database and improve the design by normalization.

COURSE OUTCOMES

Program : **BCA**	Course : **Elective : Business Application and ERP**	
Class **: BCA III Sem**	Course Code : **BCA-304 A**	A.Y**: 2019-20**

Course Objectives:	1. To provide a contemporary and forward-looking on the theory and practice of Enterprise Resource Planning Technology. 2. To focus on a strong emphasis upon practice of theory in Applications and Practical Oriented approach. 3. To train the students to develop the basic understanding of how ERP enriches the business organizations in achieving a multidimensional growth. 4. To aim at preparing the students technological competitive and make them ready to self-upgrade with the higher technical skills.
CO's	**Course Outcomes**
CO1	Make basic use of Enterprise software, and its role in integrating business functions
CO2	Analyze the strategic options for ERP identification and adoption.
CO3	Design the ERP implementation strategies.
CO4	Create reengineered business processes for successful ERP implementation.
CO5	Understanding the importance of integrating data from different sources
CO6	Being able to analyze the basic features of ERP systems

COURSE OUTCOMES

Program **: BCA**	Course **: Elective - Introduction to Multimedia**	
Class **: BCA III Sem**	Course Code : **BCA-304 B**	A.Y**: 2019-20**

Course Objectives:	Multimedia is content that uses a combination of different content forms such as text, audio, images, animations, video and interactive content. Multimedia contrasts with media that use only rudimentary computer displays such as text-only or traditional forms of printed or hand produced material.
CO's	**Course Outcomes**
CO1	Student will learn the different content forms of Multimedia such as text, audio, images, animations, video and interactive content.
CO2	Explain and apply basic techniques for gathering and editing audio and visual material.
CO3	Demonstrate use of multi-media equipment and software.
CO4	To learn the basics and Fundamentals of Multimedia
CO5	To introduce Multimedia components and Tools.
CO6	To understand how Multimedia can be incorporated

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: University recognized MOOC (NPTEL /SWAYAM / others) OR Intra / Inter Departmental courses**	
Class **: BCA III Sem**	Course Code : **BCA-305 A**	A.Y**: 2019-20**

Course Objectives:	The objective of NPTEL is to provide quality education to the students.
CO's	**Course Outcomes**
CO1	NPTEL aims to partner with organizations in a mutually beneficial manner by offering courses to train the fresher's in the companies and to cross-skill and up-skill the existing workforce.

COURSE OUTCOMES

Program : **BCA**	Course : **Numerical Aptitude**	
Class **: BCA III Sem**	Course Code : **BCA-305 B**	A.Y**: 2019-20**

Course Objectives:	The main objective of numerical aptitude is to test the speed of the student along with his or her accuracy and competent to understand a question and then apply his or her knowledge base to get it solved.
CO's	**Course Outcomes**
CO1	On successful completion of the course the students will be able to understand the basic Concepts of numerical ability.
CO2	Understand the basic concepts of quantitative ability
CO3	Understand the basic concepts of logical reasoning Skills
CO4	Acquire satisfactory competency in use of reasoning
CO5	Solve campus placements aptitude papers covering Quantitative Ability, Logical Reasoning Ability
CO6	Compete in various competitive exams like CAT, CMAT, GATE, GRE, GATE, UPSC, GPSC etc.

COURSE OUTCOMES

Program : **BCA**	Course : **Lab-Course : C++ Programming**	
Class **: BCA III Sem**	Course Code : **BCA-306**	A.Y **: 2019-20**

Course Objectives:	1. The students should be able to explain fundamental properties of c++ language. 2. The students should be able to combine the elements of c++ language in developing structured programs. 3. The students should be able to demonstrate the skills necessary to correctly compile, debug, and test programs in c++.
CO's	**Course Outcomes**
CO1	Describe OOPs concepts
CO2	Use functions and pointers in your C++ program
CO3	Understand tokens, expressions, and control structures
CO4	Explain arrays and strings and create programs using them
CO5	Describe and use constructors and destructors
CO6	Understand and employ file management
CO7	Demonstrate how to control errors with exception handling

COURSE OUTCOMES

Program **: BCA**	Course **: Lab Course : DBMS**	
Class **: BCA III Sem**	Course Code : **BCA-307**	A.Y**: 2019-20**

Course Objectives:	1. This lab enables the students to practice the concepts learnt in the subject DBMS by developing a database. 2. The student is expected to practice the designing, developing and querying a database. 3. Students are expected to use "Mysql/Oracle" database.
CO's	**Course Outcomes**
CO1	Understand, appreciate and effectively explain the underlying concepts of database technologies
CO2	Design and implement a database schema for a given problem-domain
CO3	Populate and query a database using SQL DML/DDL commands.
CO4	Understand, appreciate and effectively explain the underlying concepts of database technologies.
CO5	Design& implement a database schema for given problem domain.
CO6	Normalize a database.
CO7	Programming PL/SQL including stored procedures, stored functions, cursors, packages.

COURSE OUTCOMES

Program **: BCA**	Course **: Programming in JAVA**	
Class **: BCA IV Sem**	Course Code : **BCA-401**	A.Y**: 2019-20**

Course Objectives:	1. To learn Java for the design of desktop and web applications. 2. To learn how to implement object-oriented designs with Java. 3. To learn different concepts in Java language 4. To design and program stand-alone Java applications.
CO's	**Course Outcomes**
CO1	Students learn about the concepts like interface, packages etc.
CO2	Students are able to develop stand-alone Java applications and web applications.
CO3	Understand the concept of OOPs as well as the purpose and usage principles of Inheritance, polymorphism, encapsulation etc.
CO4	Understand the basic concepts of classes and objects.
CO5	Understand JVM Concept , Data types and Operators, Strings
CO6	Understand Internet Programming Using Java Applets & Graphic Programming & Make use of array, constructors, Inheritance, Packages and Interfaces.

COURSE OUTCOMES

Program **: BCA**	Course **: Data Structure and Algorithm**	
Class **: BCA IV Sem**	Course Code : **BCA-402**	A.Y**: 2019-20**

Course Objectives:	The data structures paper helps the students to have the practical understanding of the subject.
CO's	**Course Outcomes**
CO1	Students are able to create and use various data structures like Strings, Arrays, Linked Lists, and Trees.
CO2	Implement abstract data types using arrays and linked list.
CO3	Apply the different linear data structures like stack and queue to various computing problems.
CO4	Implement different types of trees and apply them to problem solutions.
CO5	Discuss graph structure and understand various operations on graphs and their applicability
CO6	Analyze the various sorting and searching algorithms

COURSE OUTCOMES

Program : **BCA**	Course : **RDBMS**	
Class **: BCA IV Sem**	Course Code : **BCA-403**	A.Y**: 2019-20**

Course Objectives:	The objective of this course is to expose the students to the fundamentals & basic concepts in relational Data Base Management Systems. This course discusses architecture of Database Systems with concept of relational model & ER model. The course discusses the SQL statements, functions and views. Concepts of PL/SQL also discussed.
CO's	**Course Outcomes**
CO1	The course will demonstrate an understanding of the basic & advanced features of RDBMS.
CO2	The course will demonstrate the various database tables and joins them using SQL commands, able to develop structured query language (SQL) queries to create, read, update, and delete relational database data.
CO3	Discuss the fundamental concepts of relational database and SQL
CO4	Use ER model for Relational model mapping to perform database design effectively
CO5	Summarize the properties of transactions and concurrency control mechanisms
CO6	Outline the various storage and optimization techniques

COURSE OUTCOMES

Program : **BCA**	Course : **Operational Research**	
Class **: BCA IV Sem**	Course Code : **BCA-404 A**	A.Y**: 2019-20**

Course Objectives:	Objectives of Operational Research is to learn about management to develop more Effective approaches to the programming and administration of socio-cultural behavior and economic factors that exist as bottleneck to effective implementation and to develop more effective approaches to the programming.
CO's	**Course Outcomes**
CO1	Recognize and develop operational research models from the verbal description of the real system and know the mathematical tools that are needed to solve optimization problems.
CO2	recognize the importance and value of Operations Research and linear programming in solving practical problems in industry
CO3	Interpret the transportation models' solutions and infer solutions to the real-world problems.
CO4	Recognize and solve game theory and assignment problems.
CO5	gain knowledge of drawing project networks for quantitative analysis of projects
CO6	know when simulation and dynamic programming can be applied in real world problems

COURSE OUTCOMES

Program : **BCA**	Course : **Computer Graphics**	
Class **: BCA IV Sem**	Course Code : **BCA-404 B**	A.Y**: 2019-20**

Course Objectives:	1. To understand the basics of computer graphics, different display devices and applications of computer graphics. 2. To learn about algorithmic development of graphics primitives like: point, line, polygon etc. 3. To impart knowledge of 2D transformations on graphics objects. 4. To familiarize with 2D Viewing and different clipping methods. 5. To understand rules for graphics software design.
CO's	**Course Outcomes**
CO1	Knowledge of working of display systems.
CO2	Skill to execute various Scan Conversion algorithms in laboratory so as to draw Graphics primitives.
CO3	Familiarization with 2D graphics.
CO4	Skill to execute various 2D transformations on graphics.
CO5	Use of various graphics packages/functions on graphic.
CO6	Demonstrate the overview of graphics system and make use of various drawing algorithms of output primitives

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: University recognized MOOC (NPTEL /SWAYAM / others) OR Intra / Inter Departmental courses**	
Class **: BCA IV Sem**	Course Code : **BCA-405 A**	A.Y **: 2019-20**

Course Objectives:	The objective of NPTEL is to provide quality education to the students.
CO's	**Course Outcomes**
CO1	NPTEL aims to partner with organizations in a mutually beneficial manner by offering courses to train the fresher's in the companies and to cross-skill and up-skill the existing workforce.

COURSE OUTCOMES

Program : **BCA**	Course : **Logical Reasoning**	
Class : **BCA IV Sem**	Course Code :**BCA-405 B**	A.Y: **2019-20**

Course Objectives:	The objectives of studying Logical Reasoning, students will acknowledge the adequate Problem solving and analytical skills needed. The person have enough problem solving skills will be able to understand the problem and immediately recognize the correct solution.
CO's	**Course Outcomes**
CO1	Understand the basic concepts of logical reasoning skills.
CO2	Solve campus placements aptitude papers and various competitive exams
CO3	Explore and apply key concepts in logical thinking to business problems.
CO4	Enable students to critically analyze material (information) to order to evaluate evidence, construct reasoned arguments, and communicate inferences and conclusions.
CO5	Solve and devise solutions to a range of elementary real-world problems in mathematics
CO6	comprehend the nature and scope of Logic

COURSE OUTCOMES

Program : **BCA**	Course : **Lab-Course : JAVA Programming**	
Class **: BCA IV Sem**	Course Code **: BCA-406**	A.Y**: 2019-20**

Course Objectives:	1. To write programs using abstract classes. 2. To write programs for solving real world problems using java collection frame work. 3. To write multithreaded programs. 4. To write GUI programs using swing controls in Java. 5. To introduce java compiler and eclipse platform. 6. To impart hands on experience with java programming.
CO's	**Course Outcomes**
CO1	Able to write programs for solving real world problems using java.
CO2	Able to write programs using abstract classes.
CO3	Able to develop applets.
CO4	Able to develop standalone applications.
CO5	Able to write multithreaded programs
CO6	Able to write GUI programs using swing controls in Java.

COURSE OUTCOMES

Program : **BCA**	Course : **Lab-Course : RDBMS**	
Class : **BCA IV Sem**	Course Code : **BCA-407**	A.Y: **2019-20**

Course Objectives:	1.To give a good formal foundation on the relational model of data 2.To present SQL and procedural interfaces to SQL comprehensively 3.To give an introduction to systematic database design approaches covering conceptual design, logical design and an overview of physical design
CO's	**Course Outcomes**
CO1	Understand, appreciate and effectively explain the underlying concepts of database technologies.
CO2	Design and implement a database schema for a given problem-domain
CO3	Populate and query a database using SQL DML/DDL commands.
CO4	Declare and enforce integrity constraints on a database using a state-of-the-art RDBMS.
CO5	Programming PL/SQL including stored procedures, stored functions, cursors, packages.
CO6	Translate an information model into a relational database schema and to implement the schema using RDBMS

COURSE OUTCOMES

Program : **BCA**	Course : **System Analysis and Design(SAAD)**	
Class : **BCA V Sem**	Course Code : **BCA-501**	A.Y: **2019-20**

Course Objectives:	Develop and evaluate system requirements. Work effectively in a team environment as well as explain the need for and value of a formalized step-by-step approach to the analysis, design, and implementation of computer information systems. Use tools and techniques for process and data modeling.
CO's	**Course Outcomes**
CO1	Able to gather data to analyze and specify the requirements of a system.
CO2	Design system components and environments & build general and detailed models that assist programmers in implementing a system
CO3	Design a database for storing data, a user interface for data input and output, and controls to protect the system and its data.
CO4	Understand the principles and tools of systems analysis and design
CO5	Solve a wide range of problems related to the analysis, design and construction of information systems
CO6	Understand the application of computing in different context

COURSE OUTCOMES

Program **: BCA**	Course **: Web Development and PHP Programming**	
Class **: BCA V Sem**	Course Code **: BCA-502**	A.Y**: 2019-20**

Course Objectives:	1. Learn Core-PHP, Server Side Scripting Language. 2. Learn to design dynamic and interactive Web pages. 3. Learn PHP-Database handling.
CO's	**Course Outcomes**
CO1	Able to design dynamic and interactive web pages, websites.
CO2	Able to run PHP scripts on server and retrieve results.
CO3	Able to handle databases like MySQL using PHP in web sites.
CO4	Develop program using control statement
CO5	Perform database operation in PHP
CO6	Use form controls with validation to collect user's input

COURSE OUTCOMES

Program **: BCA**	Course **: Mobile Application Development**	
Class **: BCA V Sem**	Course Code **: BCA-503**	A.Y**: 2019-20**

Course Objectives:	1. To gain an understanding of the processes that are involved in an Android developed application 2. To become familiar with Android development tools and user interface. 3. To understand Activity and Intends 4. To understand SQLite Database. 5. Ability to build Many simple apps 6. To understand the basic operating system command.
CO's	**Course Outcomes**
CO1	Install and use appropriate tools for Android development, including IDE, device emulator, and profiling tools.
CO2	Understand the Android OS architecture.
CO3	Understand the Android application architecture, including the roles of the task stack, activities, & services.
CO4	Design and develop user Interfaces for the Android platform.
CO5	Save state information across important operating system events.
CO6	Save state information across important operating system events.

COURSE OUTCOMES

Program **: BCA**	Course **: Computer Network**	
Class **: BCA V Sem**	Course Code **: BCA-504 A**	A.Y**: 2019-20**

Course Objectives:	1. To develop an understanding of computer networking basics. 2. To develop an understanding of different components of computer networks, various protocols, modern technologies and their applications.
CO's	**Course Outcomes**
CO1	Recognize the technological trends of Computer Networking.
CO2	Discuss the key technological components of the Network.
CO3	Evaluate the challenges in building networks.
CO4	Understanding network models.
CO5	Understand different network technologies.
CO6	Understand the effects of using different networking topologies.

COURSE OUTCOMES

Program : **BCA**	Course : **Cloud Computing**	
Class **: BCA V Sem**	Course Code **: BCA-504 B**	A.Y**: 2019-20**

Course Objectives:	1. To Study basics of cloud computing, and comprehend the terminology, tools and technologies associated with today's top cloud platforms. 2. To provide the programmer's perspective of working of Cloud Computing. 3. Implement Simple Cloud programs to solve simple problems.
CO's	**Course Outcomes**
CO1	Awareness of existing demanding trends for Clouds and Virtualizations in the IT industry in order to get placement as well as in research
CO2	To understand the basic concepts Cloud Computing & its Services
CO3	To understand the taxonomy and types of Cloud Computing.
CO4	To understand different hypervisors of Clouds for the Virtualization
CO5	To understand how to secure the Cloud & how to Demystify the Cloud
CO6	To Analyze the components of cloud computing.

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: University recognized MOOC (NPTEL /SWAYAM / others) OR Intra / Inter Departmental courses**	
Class **: BCA V Sem**	Course Code : **BCA-505 A**	A.Y**: 2019-20**

Course Objectives:	The objective of NPTEL is to provide quality education to the students.
CO's	**Course Outcomes**
CO1	NPTEL aims to partner with organizations in a mutually beneficial manner by offering courses to train the fresher's in the companies and to cross-skill and up-skill the existing workforce.

COURSE OUTCOMES

Program **: BCA**	Course **: Linux Operating System**	
Class **: BCA V Sem**	Course Code : **BCA-505 B**	A.Y **: 2019-20**

Course Objectives:	1. This course shall build a platform for students to start their own enterprise
	2. For Making Student Job Ready
	3. To become familiar with open source software and user interface.
	4. To securely handle OS without any viruses and malwares.
	5. For easily use free software available on internet.
	6. To understand the basic operating system command.
CO's	**Course Outcomes**
CO1	Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.
CO2	Understand the Linux OS architecture.
CO3	Install and use different types of distributions available in market.
CO4	Understand the basic commands of linux operating system and can write shell scripts.
CO5	Create file systems and directories and operate those using programs.
CO6	Understand the processes background and fore ground by process and signals system calls.

COURSE OUTCOMES

Program : **BCA**	Course : **Lab / Practical : PHP Programming**	
Class : **BCA V Sem**	Course Code : **BCA-506**	A.Y: **2019-20**

Course Objectives:	1. To introduce the importance of PHP in web page design. 2. To understand the features like functions, forms in PHP. 3. To understand Files, OOPs concepts, Cookies, Sessions and Data base.
CO's	**Course Outcomes**
CO1	Develop program using control statement
CO2	Perform operation based on arrays and graphics
CO3	Develop programs by applying various object oriented concepts.
CO4	Use form controls with validation to collect user's input.
CO5	Perform database operations in PHP.
CO6	Construct PHP documents by using string, arrays, methods and also database access through PHP

COURSE OUTCOMES

Program **: BCA**	Course **: Lab / Practical Lab -MOBILE APPLICATION DEVELOPMENT**	
Class **: BCA V Sem**	Course Code : **BCA-507**	A.Y **: 2019-20**

Course Objectives:	1. To understand the components and structure of mobile application development frameworks for Android and windows OS based mobiles. 2. Learn the basic and important design concepts and issues of development of mobile applications.
CO's	**Course Outcomes**
CO1	Download and install Android Studio, Android SDK, etc.
CO2	Create, test, and debug simple Android programs.
CO3	Develop robust mobile applications integrating them with other services.
CO4	Design and Implement various mobile applications using emulators
CO5	Deploy applications to hand-held devices
CO6	Develop user interface for mobile Application using widgets with event handling.

COURSE OUTCOMES

Program : **BCA**	Course : **Software Engineering**	
Class **: BCA VI Sem**	Course Code : **BCA-601**	A.Y**: 2019-20**

Course Objectives:	1. To know about software engineering and its application in Software development. 2. To identify, formulate, and solve software engineering problems, including the specification, design, and implementation. 3. To Learn testing of software systems that meet specification, performance, maintenance and quality requirements	
CO's	**Course Outcomes**	
CO1	How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.	
CO2	An ability to work in one or more significant application domains. Work as an individual and as part of a multidisciplinary team to develop and deliver quality software.	
CO3	Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle.	
CO4	Demonstrate an ability to use the techniques and tools necessary for engineering practice.	
CO5	Demonstrate an ability to use the techniques and tools necessary for engineering practice	
CO6	Understand the process to be followed in SDLC	

COURSE OUTCOMES

Program **: BCA**	Course **: Python**	
Class **: BCA VI Sem**	Course Code **: BCA-602**	A.Y**: 2019-20**

Course Objectives:	1. To acquire programming skills in core Python. 2. To acquire Object Oriented Skills in Python. 3. To develop the skill of designing Graphical user Interfaces in Python. 4. To develop the ability to write database applications in Python
CO's	**Course Outcomes**
CO1	Explain basic principles of Python programming language
CO2	Implement object oriented concepts
CO3	Implement database and GUI applications
CO4	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.
CO5	Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets
CO6	Identify the commonly used operations involving file systems and regular expressions

COURSE OUTCOMES

Program **: BCA**	Course **: Project Development Activity and Seminar**	
Class **: BCA VI Sem**	Course Code **: BCA-603**	A.Y **: 2019-20**

Course Objectives:	The goal of the course is to give you the tools to initiate a project plan, manage both stakeholders and relationships, organize their team, develop a project charter, and build a business case for a project.
CO's	**Course Outcomes**
CO1	Demonstrate a sound technical knowledge of their selected project topic.
CO2	Undertake problem identification, formulation and solution.
CO3	Design engineering solutions to complex problems utilizing a systems approach.
CO4	Conduct an engineering project.
CO5	Communicate with engineers and the community at large in written an oral forms.
CO6	Demonstrate the knowledge, skills and attitudes of a professional engineer.

COURSE OUTCOMES

Program **: BCA**	Course **: Windows Programming**	
Class **: BCA VI Sem**	Course Code **: BCA-604 A**	A.Y**: 2019-20**

Course Objectives:	1. To outline the various characteristics of c#.
	2. To provide the familiarity in the concept of developing window application.
	3. To earn an idea of creating application using ADO.Net.
	4. To study the idea of CLR and .Net framework.
CO's	**Course Outcomes**
CO1	To develop background knowledge as well as core expertise in C#.
CO2	To develop background knowledge as well as core expertise in C#.
CO3	To learn the object oriented concepts.
CO4	Analyze program requirements
CO5	Design/develop programs with GUI interfaces
CO6	Perform tests, resolve defects, and revise existing code

COURSE OUTCOMES

Program **: BCA**	Course **: Digital Image Processing**	
Class **: BCA VI Sem**	Course Code **: BCA-604 B**	A.Y**: 2019-20**

Course Objectives:	1.To learn fundamental concepts of Digital Image Processing
	2.To study basic image processing operations
	3.To understand image analysis algorithms
	4.To expose students to current applications in the field of digital image processing
CO's	**Course Outcomes**
CO1	Review the fundamental concepts of a digital image processing system.
CO2	Analyze images in the frequency domain using various transforms.
CO3	Evaluate the techniques for image enhancement and image restoration.
CO4	Categorize various compression techniques.
CO5	Interpret Image compression standards.
CO6	Interpret image segmentation and representation techniques.

COURSE OUTCOMES

Program **: BCA**	Course **: Open Elective: University recognized MOOC (NPTEL /SWAYAM / others) OR Intra / Inter Departmental courses**	
Class **: BCA VI Sem**	Course Code : **BCA-605 A**	A.Y **: 2019-20**

Course Objectives:	The objective of NPTEL is to provide quality education to the students.
CO's	**Course Outcomes**
CO1	NPTEL aims to partner with organizations in a mutually beneficial manner by offering courses to train the fresher's in the companies and to cross-skill and up-skill the existing workforce.

COURSE OUTCOMES

Program **: BCA**	Course **: Cyber Security**	
Class **: BCA VI Sem**	Course Code **: BCA-605 B**	A.Y **: 2019-20**

Course Objectives:	1. Exhibit knowledge to secure corrupted systems, protect personal data, and secure computer networks in an Organization.
	2. Practice with an expertise in academics to design and implement security solutions.
	3. Understand key terms and concepts in Cryptography, Governance and Compliance.
	4. Develop cyber security strategies and policies
	5. Understand principles of web security and to guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.
CO's	**Course Outcomes**
CO1	Analyze and evaluate the cyber security needs of an organization.
CO2	Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
CO3	Measure the performance and troubleshoot cyber security systems.
CO4	Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.
CO5	Understand the conceptual foundation of information security awareness.
CO6	Understand the privacy lifecycle principles and risk management

COURSE OUTCOMES

Program **: BCA**	Course **: Lab Course: Python**	
Class **: BCA VI Sem**	Course Code **: BCA-606**	A.Y **: 2019-20**

Course Objectives:	1. To be able to introduce core programming basics and program design with functions using Python programming language. 2. To understand a range of Object-Oriented Programming, as well as in-depth data and information processing techniques. 3.To understand the high-performance programs designed to strengthen the practical expertise
CO's	**Course Outcomes**
CO1	Write, test, and debug simple Python programs.
CO2	Implement Python programs with conditionals and loops.
CO3	Develop Python programs step-wise by defining functions and calling them.
CO4	Use Python lists, tuples, dictionaries for representing compound data.
CO5	Student should be able to understand the basic concepts scripting and the contributions of scripting language
CO6	Ability to explore python especially the object oriented concepts, and the built in objects of Python

COURSE OUTCOMES

Program : **BCA**	Course : **Windows Programming and DIP**	
Class **: BCA VI Sem**	Course Code **: BCA-607**	A.Y**: 2019-20**

Course Objectives:	1. To study the image fundamentals and mathematical transforms necessary for image processing. 2.To study the image enhancement techniques 3. To study image restoration procedures. 4. To study the image compression procedures.
CO's	**Course Outcomes**
CO1	Upon completion of the course, students will be able to develop applications
CO2	Database applications using Client Server model.
CO3	Graphical Applications.
CO4	Web designing Applications.
CO5	Applications involving Windows Programming using Visual Studio tools.
CO6	Analyze images in the frequency domain using various transforms.

Name of Program: MCA

PROGRAM OUTCOMES

Program **: MCA**	A.Y**: 2021-2022**

On completion of MCA program, the students are able to

PO's	Program Outcomes
PO1	Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
PO2	Identify, formulate, research literature, and solve complex computing problem searching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.
PO3	Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
PO6	Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.
PO7	Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.
PO8	Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO9	Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
PO10	Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.
PO11	Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.
PO12	Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.

COURSE OUTCOMES

Program **: MCA**	Course **: Programming Logic Concept**	
Class **: MCA I Sem**	Course Code **: MCA-R101**	A.Y**: 2021-22**

Course Objectives:	This course provides a complete introduction to programming in C, including both ANSI C and Kernighan & Ritchie C. In addition to covering basic syntax and semantics, the course emphasizes problem solving methodology and modular programming techniques.
CO's	**Course Outcomes**
CO1	Describe the reason why different constructs are available for iteration, such as "for" loops, "do ...while" loops
CO2	Demonstrate the difference between iteration and recursion in terms of C programming
CO3	Develop C programs for arrays and linked lists
CO4	Develop C programs for Data structure concept with functions
CO5	Summarize the Hardware interaction using Port I/O
CO6	Develop C programs for File Management concept

COURSE OUTCOMES

Program **: MCA**	Course **: Data Structures using C**	
Class **: MCA I Sem**	Course Code **: MCA-R102**	A.Y**: 2021-22**

Course Objectives:	1. It will demonstrate familiarity with major algorithms and data structures. 2. Analyze performance of algorithms. 3. Choose the appropriate data structure and algorithm design method for a specified application. 4. Demonstrate understanding of the abstract properties of various data structures such as stacks, queues, lists, trees and graphs. 5. Use various data structures effectively in application programs. 6. Demonstrate understanding of various sorting algorithms, including bubble sort, insertion sort, selection sort, merge sort, quick sort and heap sort. 7. Understand and apply fundamental algorithmic problems including Tree traversals, Graph traversals, and shortest paths. 8. Demonstrate understanding of various searching algorithms. 9. Compare different implementations of data structures and to recognize the advantages and disadvantages of the different implementations.
CO's	**Course Outcomes**
CO1	Explain the organization and operations of data structures Stack, Queues, Trees, Graphs, Heaps and Hash tables.
CO2	Compare and contrast the functionalities and applications of different data structures
CO3	Demonstrate specific search and sort algorithms using data structures given specific user requirements.
CO4	Apply the operations of data structures in designing software procedures based on specific requirements.
CO5	Assess the applicability of given data structures and associated operations to real time computer applications.
CO6	Identify suitable algorithms with appropriate data structures for real time software requirements.
CO7	Modify the existing operations of data structures for changing needs of the software requirements.

COURSE OUTCOMES

Program : **MCA**	Course **: Computer Organizations and Architecture**	
Class **: MCA I Sem**	Course Code **: MCA-R103**	A.Y**: 2021-22**

Course Objectives:	This is hardware knowledge course with a view to have a thorough understanding of the basic structure and operation of a digital computer. Similarly to study the different ways of communicating with I/O devices and standard I/O interfaces.
CO's	**Course Outcomes**
CO1	Explain about computer architecture
CO2	Understanding Logic gates, flip flops and counter
CO3	Pipeline processing
CO4	Compute simple arithmetic operations for fixed-point and Apply floating- point addition, subtraction, multiplication & division.
CO5	Develop a base for advance micro-processors
CO6	Learn the concepts of parallel processing, pipelining and inter processor communication.
CO7	Exemplify in a better way the I/O and memory organization.
CO8	Define different number systems, binary addition and subtraction, 2's complement representation and operations with this representation.

COURSE OUTCOMES

Program : **MCA**	Course : **Introduction to Management Functions**	
Class : **MCA I Sem**	Course Code : **MCA-R104**	A.Y: **2021-22**

Course Objectives:	This is a Management side course intentionally planned so that students will get basics of administrative level management of the companies where they will get placed. This course overviews all functional areas of management namely, HRD, Marketing, Finance, Manufacturing, and Strategy.
CO's	**Course Outcomes**
CO1	Understanding of various management concepts and contribution of various management gurus.
CO2	Understanding the importance of planning and controlling and how to implement it.
CO3	Study the motivation theories and use it in real world problems.
CO4	Understanding the quality concepts and social responsibility of Business.
CO5	Understand the complexities associated with management of human resources in the organizations and integrate the learning in handling these complexities.
CO6	Demonstrate the roles, skills and functions of management.

COURSE OUTCOMES

Program : **MCA**	Course : **Mathematical Foundations for Computer Science**	
Class : **MCA I Sem**	Course Code : **MCA-R105**	A.Y: **2021-22**

Course Objectives:	Mathematical skills are extremely necessary developing clear thinking and creative problem solving. For developing analytical mind, we need to thoroughly train students in the construction and understanding of mathematical proofs as well as exercise common mathematical arguments and proof strategies.
CO's	**Course Outcomes**
CO1	Prove implication problems using truth table method, replacement process, Analyze method, truth table, technique, rules of inference method
CO2	Obtain PCNF and PDNF of given logical expression
CO3	Check the validity of the verbal or symbolic arguments using rules of inference
CO4	Construct verbal arguments with predicates in symbolic form and also to validate them
CO5	Represent the given relation in matrix, digraph and vice versa.
CO6	Verify a given function is objective or not, and also to find composition of functions
CO7	Design Karnaugh map to get simplified form of a Boolean function
CO8	Check whether the given grammar is regular or not using pumping lemma

COURSE OUTCOMES

Program : MCA	Course : **Lab -1 C Programming Lab covering topics in MCA-R101 and MCA-R102**	
Class : **MCA I Sem**	Course Code : **MCA-R106**	A.Y: **2021-22**

Course Objectives:	1. To make the student learn a programming language. 2. To learn problem solving techniques. 3. To teach the student to write programs in C and to solve the problems. 4. Understand various data representation techniques in the real world. 5. Analyze various algorithms based on their time and space complexity.
CO's	**Course Outcomes**
CO1	At the end of the course student will be able to understand the notion of programming for solving a problem
CO2	They will be conversant with writing elementary programs in C.
CO3	They will be able to apply their skills in programming to implement data structures as well as to implement logics of the algorithms.
CO4	Read, understand and trace the execution of programs written in C language.
CO5	Write the C code for a given algorithm.
CO6	Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.

COURSE OUTCOMES

Program : **MCA**	Course : **Lab -2 H/W – S/W lab covering topics in Computer Organizations and Architecture**	
Class : **MCA I Sem**	Course Code : **MCA-R107**	A.Y: **2021-22**

Course Objectives:	This Laboratory course will enable students to learn various logic gates / logic circuits and perform the logical operations like flip-flops; Encoder, Decoder, etc. The course serves as a foundation laboratory for improving the logic building and performs electronic operations.
CO's	**Course Outcomes**
CO1	This course concentrates on the practical part of Computer Organization by using Assembly language
CO2	This course allows students to practice writing programs based on the concepts the will learn through the course by giving the students different types of problems to be solved using an emulator.
CO3	Analyze the behavior of logic gates
CO4	Design combinational circuits for basic components of computer system and applications
CO5	Analyze the operational behavior and applications of various flip-flop
CO6	Design Arithmetic logic units and different types of memory blocks.

COURSE OUTCOMES

Program **: MCA**	Course **: C Programming Lab**	
Class **: MCA I Sem**	Course Code **: MCA-R108**	A.Y**: 2021-22**

Course Objectives:	This Lab oratory course will enable students to learn various ways to program for mathematical equations and for proving some mathematical theorems computationally.
CO's	**Course Outcomes**
CO1	Design algorithms for the given problem specifications.
CO2	Write C programs for the designed algorithm specification.
CO3	Write C programs to implement linear data structures: Stack and Queue using arrays and linked list in an application context.
CO4	Implement Nonlinear data structures: Graph, Trees, Hash table in an application context
CO5	Implement specific sort algorithms in application context.
CO6	Generate different test cases for testing the validity of the developed programs
CO7	Write technical report on the observations from the experiments

COURSE OUTCOMES

Program **: MCA**	Course **: Survey : Survey on Emerging Technologies in Computer Science and Information Technology**	
Class **: MCA I Sem**	Course Code **: MCA-R109**	A.Y**: 2021-22**

Course Objectives:	A summary of the objectives of this course includes: 1. Have knowledge of the concept of management information system and how it evolved. 2. Know the transition points of the information system triad. 3. Identify the various applications of speech and speaker recognition. 4. Trace the history and the development of the concept of video conferencing. 5. Know the basic features of web conference. 6. Define and know the different types of electronic systems.
CO's	**Course Outcomes**
CO1	Utilize best practices and other concepts in the evaluation of emerging technologies,
CO2	Explain the importance of emerging technology as it applies to your business or company,
CO3	Evaluate competitiveness of similar or competing emerging technologies
CO4	Demonstrate knowledge of emerging technology evaluations and recommendations
CO5	Explain the differences and benefits of emerging technologies and their impact on businesses and individuals
CO6	Explain the significance of emerging technologies and their possible disruptive impact

COURSE OUTCOMES

Program **: MCA**	Course **: Understanding of Operating System**	
Class **: MCA II Sem**	Course Code **: MCA-R201**	A.Y **: 2021-22**

Course Objectives:	1. To learn the fundamentals of Operating Systems. 2. To learn the mechanisms of OS to handle processes and threads and their communication 3. To learn the mechanisms involved in memory management in contemporary OS 4. To gain knowledge on distributed operating system concepts that includes architecture, Mutual exclusion algorithms, deadlock detection algorithms and agreement protocols. 5. To know the components and management aspects of concurrency management. 6. To learn programmatically to implement simple OS mechanisms
CO's	**Course Outcomes**
CO1	Analyze the structure of OS and basic architectural components involved in OS design
CO2	Analyze and design the applications to run in parallel either using process or thread models of different OS
CO3	Analyze the various device and resource management techniques for timesharing and distributed system
CO4	Understand the Mutual exclusion, Deadlock detection and agreement protocols of Distributed Operating System
CO5	Interpret the mechanisms adopted for file sharing in distributed Applications
CO6	Conceptualize the components involved in designing a contemporary OS

COURSE OUTCOMES

Program : **MCA**	Course : **Introduction to Theory of Computations**	
Class **: MCA II Sem**	Course Code **: MCA-R202**	A.Y**: 2021-22**

Course Objectives:	The learning objectives of this course are to introduce students to the mathematical foundations of computation including automata theory, the theory of formal languages and grammars , the notions of algorithm, decidability, complexity, and computability, enhance/ develop students' ability to understand and conduct mathematical proofs for computation and algorithms.
CO's	**Course Outcomes**
CO1	Ability to prove results using proof by induction, proof by contradiction, proof by proof by construction on case exhaustion
CO2	Understanding of regular and context-free languages.
CO3	Ability to describe and transform regular expressions and grammars
CO4	Understanding of the key results in algorithmic complexity, computability and solvability of problems.
CO5	Using the Prolog language as an experimental tool for testing properties of basic computational structures.
CO6	Construct the grammar for any given finite automata, pushdown automata or Turing machines

COURSE OUTCOMES

Program **: MCA**	Course **: Software Engineering and Software Testing**	
Class **: MCA II Sem**	Course Code **: MCA-R203**	A.Y **: 2021-22**

Course Objectives:	1. To explain the basic terminologies and implement systems effectively using various system models. 2. To comprehend the testing Process and software evolution in order to meet dynamic changing requirements. 3. To develop understanding of advanced concepts and methods required for construction of large software systems. 4. To apply project management strategies for effective software development.
CO's	**Course Outcomes**
CO1	Students will be able to decompose the given project in various phases of a lifecycle
CO2	Students will be able to choose appropriate process model depending on the user requirements.
CO3	Students will be able perform various life cycle activities like Analysis, Design, Implementation, Testing and Maintenance.
CO4	Understand and describe the basic concepts of functional (black box) software testing.
CO5	Identify a number of test styles and techniques and assess their usefulness in your context.
CO6	Understand the basic application of techniques used to identify useful ideas for tests.

COURSE OUTCOMES

Program **: MCA**	Course **: OOPs with Java**	
Class **: MCA II Sem**	Course Code **: MCA-R204**	A.Y **: 2021-22**

Course Objectives:	The course should enable the students to: 1. Understand the basic object oriented programming concepts and apply them in problem solving. 2. Illustrate inheritance concepts for reusing the program. 3. Demonstrate on the multi-tasking by using multiple threads. 4. Develop data-centric applications using JDBC. V. Understand the basics of java console and GUI based programming.
CO's	**Course Outcomes**
CO1	Use the syntax and semantics of java programming language and basic concepts of OOP.
CO2	Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
CO3	Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.
CO4	Design event driven GUI and web related applications which mimic the real word scenarios.
CO5	Build the internet-based dynamic applications using the concept of applets.
CO6	Demonstrate the user defined exceptions by exception handling keywords (try, catch, throw, throws and finally).

COURSE OUTCOMES

Program **: MCA**	Course **: Design and Analysis of Algorithms**	
Class **: MCA II Sem**	Course Code **: MCA-R205 A**	A.Y **: 2021-22**

Course Objectives:	1. Reinforce basic design concepts (e.g., pseudo code, specifications, top-down design) 2. Knowledge of algorithm design strategies 3. Familiarity with an assortment of important algorithms 4. Ability to analyze time and space complexity
CO's	**Course Outcomes**
CO1	Describe basic organization of computer and the architecture of 8086 microprocessor.
CO2	Implement assembly language program for given task for 8086 microprocessor.
CO3	Demonstrate control unit operations and conceptualize instruction level parallelism.
CO4	Demonstrate and perform computer arithmetic operations on integer and real numbers
CO5	Categorize memory organization and explain the function of each element of a memory hierarchy.
CO6	Identify and compare different methods for computer I/O mechanisms

COURSE OUTCOMES

Program : **MCA**	Course : **Advanced Database Management System**	
Class **: MCA II Sem**	Course Code **: MCA-R205 B**	A.Y**: 2021-22**

Course Objectives:	1. To understand the features of Relational database. 2. To describe data models and schemas in DBMS. 3. To use SQL- the standard language of relational databases for database Operations. 4. To understand the functional dependencies and design of the databases.
CO's	**Course Outcomes**
CO1	To study the basic concepts of relational databases
CO2	Learn and practice data modeling using the entity-relationship and developing database designs.
CO3	Explain and evaluate the fundamental theories for advanced database architectures and query operators.
CO4	Design and implement parallel database systems with evaluating different methods of storing, managing of parallel database.
CO5	Assess and apply database functions of distributed database
CO6	Evaluate different database designs and architecture.

COURSE OUTCOMES

Program : **MCA**	Course : **Lab 4- Based on Software Engineering and Software Testing**	
Class : **MCA II Sem**	Course Code : **MCA-R206**	A.Y: **2021-22**

Course Objectives:	1. To explain the basic terminologies and implement systems effectively using various system models. 2. To comprehend the testing Process and software evolution in order to meet dynamic changing requirements. 3. To develop understanding of advanced concepts and methods required for construction of large software systems. 4. To apply project management strategies for effective software development.
CO's	**Course Outcomes**
CO1	Capable to acquire the generic software development skill through various stages of software life cycle.
CO2	Able to ensure the quality of software through software development with various protocol based environment. Able to generate test cases for software testing.
CO3	Able to handle software development models through rational method
CO4	Discuss about the functional and system testing methods.
CO5	Demonstrate various issues for object oriented testing.
CO6	Demonstrate the integration testing which aims to uncover interaction and compatibility problems as early as possible.

COURSE OUTCOMES

Program **: MCA**	Course **: Lab 5- Based on OOPs with Java**	
Class **: MCA II Sem**	Course Code **: MCA-R207**	A.Y**: 2021-22**

Course Objectives:	1. To write programs using abstract classes. 2. To write programs for solving real world problems using java collection frame work. 3. To write multithreaded programs. 4. To write GUI programs using swing controls in Java. 5. To introduce java compiler and eclipse platform. 6. To impart hands on experience with java programming.
CO's	**Course Outcomes**
CO1	Able to write programs for solving real world problems using java.
CO2	Able to write programs using abstract classes.
CO3	Able to develop applets.
CO4	Able to develop standalone applications.
CO5	Able to write programs for solving real world problems using java collection frame work
CO6	Able to write GUI programs using swing controls in Java.

COURSE OUTCOMES

Program : MCA	Course : **Lab 6- Based on Elective Course 205 A** (Design and Analysis of Algorithms Lab)	
Class : **MCA II Sem**	Course Code : **MCA-R208**	A.Y: **2021-22**

Course Objectives:	The course should enable the students to: Learn how to analyze a problem and design the solution for the problem. 1. Design and implement efficient algorithms for a specified application. 2. Strengthen the ability to identify and apply the suitable algorithm for the given real world problem.
CO's	**Course Outcomes**
CO1	Able to develop programs for computing and real-life applications using basic elements like control statements, arrays, functions, pointers and strings, and data structures like stacks, queues and linked lists.
CO2	Able to Implement searching and sorting algorithms
CO3	Design algorithms using divide and conquer, greedy and dynamic programming.
CO4	Execute sorting algorithms such as sorting, graph related and combinatorial algorithm in a high level language
CO5	Analyze the performance of merge sort and quick sort algorithms using divide and conquer technique.
CO6	Apply the dynamic programming technique to solve real world problems such as knapsack and TSP

COURSE OUTCOMES

Program : MCA	Course : **Lab 6- Based on Elective Course 206 B** (Advanced Database Management System Lab)	
Class : **MCA II Sem**	Course Code : **MCA-R208**	A.Y: **2021-22**

Course Objectives:	1. This lab enables the students to practice the concepts learnt in the subject DBMS by developing a database. 2. The student is expected to practice the designing, developing and querying a database. 3. Students are expected to use "Mysql/Oracle" database.
CO's	**Course Outcomes**
CO1	Get practical knowledge on designing and creating relational database systems.
CO2	Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL.
CO3	Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems.
CO4	Able to design and implement database applications on their own
CO5	Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL.
CO6	Students get practical knowledge on designing and creating relational database systems.

COURSE OUTCOMES

Program **: MCA**	Course **: Open Elective :** University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses	
Class **: MCA II Sem**	Course Code **: MCA-R209 A**	A.Y **: 2021-22**

Course Objectives:	The objective of NPTEL is to deliver quality education to the students.
CO's	**Course Outcomes**
CO1	NPTEL aims to partner with organizations in a mutually beneficial manner by offering courses to train the fresher's in the companies and to cross-skill and up-skill the existing workforce

COURSE OUTCOMES

Program **: MCA**	Course **: Professional Communication Skills** (In-house Open Elective)	
Class **: MCA II Sem**	Course Code **: MCA-R209 B**	A.Y **: 2021-22**

Course Objectives:	1. To make the students confident of speaking in English impeccably and with utmost enthusiasm. 2. To familiarize the students with different styles of communication. 3. To enlighten the students with the seven concepts of communication. 4. To make the students understand the nuances of communication. 5. To train the students and make them comprehend various aspects of Interview skills.
CO's	**Course Outcomes**
CO1	Identify Common Errors and Rectify Them
CO2	Develop and Expand Writing Skills through Controlled and Guided Activities
CO3	To Develop Coherence, Cohesion and Competence in Oral Discourse through Intelligible Pronunciation.
CO4	The students should be able to : Apply Verbal and Non-Verbal Communication Techniques in the Professional Environment
CO5	Understand and practice different techniques of communication.
CO6	Develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others.

COURSE OUTCOMES

Program **: MCA**	Course **: Visual Programming Tools**	
Class **: MCA III Sem**	Course Code **: MCA-R301**	A.Y **: 2021-22**

Course Objectives:	1. Design and Develop professional console and window based .NET application. 2. Construct classes, methods and assessors and instantiate objects. 3. Create and manipulate GUI components in VB. 4. Design and Implement database connectivity using ADO.NET in window based application. 5. Identify industry defined problem and suggesting solution(s) using .NET applications
CO's	**Course Outcomes**
CO1	This course will cover the practical aspects of multi-tier application development using the .NET framework.
CO2	This course is to introduce the basics of distributed application development.
CO3	Technologies covered include the Common Language Runtime (CLR), .NET framework classes, VB, ASP.NET, and ADO.NET.
CO4	It cover service oriented architecture, design, performance, security, content managements and deployment issues building multi-tier applications.
CO5	Use the different elements of a visual programming language as building blocks to develop correct, coherent programs.
CO6	Program using the fundamental software development process, including design, coding, documentation, testing, and debugging.
CO7	Analyze problems, develop conceptual designs that solve those problems, and transform those designs to Visual Programs with VB.Net

COURSE OUTCOMES

Program **: MCA**	Course **: Mobile Application Development**	
Class **: MCA III Sem**	Course Code **: MCA-R302**	A.Y **: 2021-22**

Course Objectives:	1. To understand the recent trends in the field of Mobile programming and identify its applications. 2. To appreciate the need for Android Programming. 3. To expose the students to the real world problems related to mobile device 4. To understand the various concepts of android programming 5. To develop and implement android development projects.
CO's	**Course Outcomes**
CO1	Learn and understand the terminology related to mobile application development and the need for mobile web presence
CO2	Understand designing of Android user interfaces and types of mobile websites
CO3	Understand the tools needed for android installation and to manage screen orientations
CO4	Learn the various user interface views and to handle user preferences through content Providers.
CO5	Learn to use Android's communication APIs for SMS and mail and to learn basics of networking
CO6	Learn to use the Location-based services offered by Android Applications

COURSE OUTCOMES

Program : **MCA**	Course : **Python Programming**	
Class : **MCA III Sem**	Course Code : **MCA-R303**	A.Y: **2021-22**

Course Objectives:	1. Basic concept of python programming language. 2. Handling string manipulations. 3. Developing Basic application using the python. 4. Understand the OOPS concepts in python
CO's	**Course Outcomes**
CO1	Use and manipulate several core data structures: Lists, Dictionaries, Tuples, and Strings
CO2	Apply object-oriented programming concepts to develop dynamic interactive Python applications.
CO3	Apply python exception handling model to develop robust programs
CO4	Create and apply regular expression for data verification.
CO5	Construct simple graphical user interfaces using Tkinter.
CO6	Build a web application using Django framework.

COURSE OUTCOMES

Program **: MCA**	Course **: Object Oriented Analysis and Design**	
Class **: MCA III Sem**	Course Code **: MCA-R304 A**	A.Y**: 2021-22**

Course Objectives:	After successfully completing this course, students will understand concepts of Analysis and Designing Information Systems. Students will understand writing system proposals, system development scheduling, and cost-benefits analysis etc. also dealing with quality assurance.
CO's	**Course Outcomes**
CO1	To learn basic things of systems, System development Life cycle, and System Analyst.
CO2	To determine specific needs of system.
CO3	Discuss approaches and tasks of system. Planning for developing system CO4: Evaluate tools and techniques.
CO4	Use appropriate methods and techniques to design software.
CO5	Implementation of Developed System, Evaluation and Testing of system.
CO6	Ability to analyze and model software specifications.

COURSE OUTCOMES

Program **: MCA**	Course **: Management Information System**	
Class **: MCA III Sem**	Course Code **: MCA-R304 B**	A.Y **: 2021-22**

Course Objectives:	This is an active learning-oriented course designed to provide a managerial understanding and approach to the technical subject of Information System and Technology Management. The course will illustrate the important role that information systems play in an organization; and provide the student with a background to understand the subject and a foundation upon which to build his or her management decisions. Topics include Managing Information Assets, IT Technology and Strategy and IT Technology and Organization. This course is the capstone course for acquiring knowledge in Management Information System (MIS). It focuses on issues of real world application faced by the IT managerial professional in modern or generations.
CO's	**Course Outcomes**
CO1	De scribe the changing organizational environment and the use of information technology to manage contemporary organizations
CO2	Identify the business impacts of business and social networking, as well as ways the IT Managerial professional can leverage the new reality of human connectivity on the Internet
CO3	Learn IT Managerial Professional leadership responsibilities and opportunities
CO4	Apply MIS to current enterprise systems best practices in terms of the relationship between customer preferences and shareholder wealth
CO5	Apply the technological foundations of information systems, i.e., hardware, software and telecommunications.
CO6	Evaluate the organizational context of information systems, including decision making and information processing concepts.
CO7	Identify best practices for one of the Internet's newest and most revolutionary technologies: cloud computing and ways it is shaping the new economics of business.

COURSE OUTCOMES

Program **: MCA**	Course **: Software Project Management**	
Class **: MCA III Sem**	Course Code **: MCA-R304 C**	A.Y**: 2021-22**

Course Objectives:	1. Understand the five process groups and nine knowledge areas of the PMI Book. 2. Understand approaches for managing and optimizing the software development process. 3. Understand efficient techniques for managing each phase of the systems development lifecycle, Use and application of tools to facilitate the software project management process.
CO's	**Course Outcomes**
CO1	Software Project Management covers details about handling the project activities.
CO2	To study about the principals and modern software project management practices.
CO3	TO understand the five process groups and nine knowledge areas of the Project Management Institute Body of Knowledge (PMI BOK) are examined in the context of the systems development lifecycle.
CO4	Portfolio management and the use and application of software project management tools are a IOS discussed
CO5	Understand the specific roles within a software organization as related to project and process management
CO6	Understand the basic infrastructure competences (e.g., process modelling and measurement)
CO7	Understand the basic steps of project planning, project management, quality assurance, and process management and their relationships

COURSE OUTCOMES

Program **: MCA**	Course **: Linux Administration**	
Class **: MCA III Sem**	Course Code **: MCA-R304 D**	A.Y **: 2021-22**

Course Objectives:	1. Familiarize students with the Linux environment, and able to run commands on a standard Linux operating system. 2. Provide the skills needed to develop and customize Linux shell programs and to make effective use of a wide range of standard Linux programming and development tools. 3. Design Able to write moderate C programs utilizing common system calls. 4. Develop the skills necessary for system programming and inter and intra process communication
CO's	**Course Outcomes**
CO1	Implement and administer a Linux Server
CO2	Install and administer server services
CO3	Manage Users and Groups
CO4	Setup and manage policies
CO5	Implement File Services
CO6	Secure a Linux Server
CO7	Understand Virtualization

COURSE OUTCOMES

Program : **MCA**	Course : **Digital Image Processing**	
Class **: MCA III Sem**	Course Code **: MCA-R305 A**	A.Y **: 2021-22**

Course Objectives:	1. To understand the recent trends in the field of Digital Image processing and identify its applications. 2. To appreciate the need for Digital Image processing. 3. To expose the students to the problems related to Image processing - To understand the different concepts as Image processing in spatial and frequency domain. 4. To understand the concepts of image segmentation. 5. To understand concepts of morphological image processing.
CO's	**Course Outcomes**
CO1	Understand the basic concepts in digital image processing.
CO2	Analyze the histogram and filtering techniques for image enhancement.
CO3	Analyze the image Degradation/Restoration process.
CO4	Synthesize the various image compression and segmentation methods
CO5	Analyze the knowledge of representation and description of images.
CO6	Analyze and interpret objects through pattern classes.

COURSE OUTCOMES

Program : **MCA**	Course : **Virtualization and Cloud Computing**	
Class : **MCA III Sem**	Course Code : **MCA-R305 B**	A.Y: **2021-22**

Course Objectives:	1. To provide students with the fundamentals and essentials of Cloud Computing. 2. To provide students a sound foundation of the Cloud Computing so that they are able to start using and adopting Cloud Computing services and tools in their real life scenarios. 3. To enable students exploring some important cloud computing driven commercial systems and applications. 4. To expose the students to frontier areas of Cloud Computing and information systems, while providing sufficient foundations to enable further study and research.
CO's	**Course Outcomes**
CO1	To understand the principles and paradigm of Cloud Computing
CO2	Ability to design and deploy Cloud Infrastructure
CO3	Understand cloud security issues and solutions
CO4	Ability to understand role of Virtualization Technologies
CO5	Design & develop backup strategies for cloud data based on features
CO6	Analyze various cloud programming models and apply them to solve problems on the cloud.

COURSE OUTCOMES

Program **: MCA**	Course **: Data Sciences**	
Class **: MCA III Sem**	Course Code **: MCA-R305 C**	A.Y**: 2021-22**

Course Objectives:	1. Building the fundamentals of data science.
	2. Imparting design thinking capability to build big-data
	3. Developing design skills of models for big data problems
	4. Gaining practical experience in programming tools for data sciences
	5. Empowering students with tools and techniques used in data science
CO's	**Course Outcomes**
CO1	Students will develop relevant programming abilities.
CO2	Students will demonstrate proficiency with statistical analysis of data.
CO3	Students will develop the ability to build and assess data-based models.
CO4	Students will execute statistical analyses with professional statistical software.
CO5	Students will demonstrate skill in data management.
CO6	Students will apply data science concepts and methods to solve problems in real-world contexts and will communicate these solutions effectively.

COURSE OUTCOMES

Program **: MCA**	Course **: Internet of Things (IOT)**	
Class **: MCA III Sem**	Course Code **: MCA-R305 D**	A.Y **: 2021-22**

Course Objectives:	Students will understand the concepts of Internet of Things and can able to build IoT applications.
CO's	**Course Outcomes**
CO1	Able to understand the application areas of IOT
CO2	Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
CO3	Able to understand building blocks of Internet of Things and characteristics
CO4	Describe what IoT is and how it works today
CO5	Recognize the factors that contributed to the emergence of IoT
CO6	Design and program IoT devices

COURSE OUTCOMES

Program **: MCA**	Course **: Lab on Visual Programming Tools**	
Class **: MCA III Sem**	Course Code **: MCA-R306**	A.Y**: 2021-22**

Course Objectives:	
CO's	**Course Outcomes**
CO1	Design, create, build, and debug applications.
CO2	Apply arithmetic operations for displaying numeric output.
CO3	Write and apply decision structures for determining different operations.
CO4	Write and apply loop structures to perform repetitive tasks.
CO5	Write and apply procedures, sub-procedures, and functions to create manageable code.
CO6	Write programs using object-oriented programming techniques including classes, objects, methods, instance variables, composition, and inheritance, and polymorphism.
CO7	Write Windows applications using forms, controls, and events

COURSE OUTCOMES

Program **: MCA**	Course **: Lab on Mobile Application Development**	
Class **: MCA III Sem**	Course Code **: MCA-R307**	A.Y **: 2021-22**

Course Objectives:	Mobile Application Development course is designed to quickly get you up to write applications for Android devices. The student will learn the basics of Android platform, get to understand the application frontiers and able to design his own applications
CO's	**Course Outcomes**
CO1	Download and install Android Studio, Android SDK, etc.
CO2	Create, test, and debug simple B4A programs.
CO3	Develop robust mobile applications integrating them with other services.
CO4	Deploy applications to the Android marketplace for distribution.
CO5	Design push notifications for incoming messages
CO6	Develop user interface for mobile Application using widgets with event handling.
CO7	Apply Layout Management and Multi layout definition techniques to create adaptable User Interface

COURSE OUTCOMES

Program : **MCA**	Course : **Lab on Python Programming**	
Class **: MCA III Sem**	Course Code **: MCA-R308**	A.Y**: 2021-22**

Course Objectives:	1. To be able to introduce core programming basics and program design with functions using Python programming language. 2. To understand a range of Object-Oriented Programming, as well as in-depth data and information processing techniques. 3. To understand the high-performance programs designed to strengthen the practical
CO's	**Course Outcomes**
CO1	Write, test, and debug simple Python programs.
CO2	Implement Python programs with conditionals and loops.
CO3	Develop Python programs step-wise by defining functions and calling them.
CO4	Use Python lists, tuples, dictionaries for representing compound data.
CO5	Ability to create practical and contemporary applications such as TCP/IP network programming, Web applications, discrete event simulations
CO6	Ability to explore python especially the object oriented concepts, and the built in objects of Python
CO7	Student should be able to understand the basic concepts scripting and the contributions of scripting language

COURSE OUTCOMES

Program **: MCA**	Course **: Open Elective (University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses)**	
Class **: MCA III Sem**	Course Code **: MCA-R309 A**	A.Y**: 2021-22**

Course Objectives:	The Objective of NPTEL is to provide quality education to the students.
CO's	**Course Outcomes**
CO	NPTEL aims to partner with organizations in a mutually beneficial manner by offering courses to train the fresher's in the companies and to cross-skill and up-skill the existing workforce

COURSE OUTCOMES

Program : **MCA**	Course : **Cyber Security**	
Class : **MCA III Sem**	Course Code : **MCA-R309 B**	A.Y: **2021-22**

Course Objectives:	To understand the basics of cyber law, its related issues and ethical laws of computer for different countries.
CO's	**Course Outcomes**
CO1	Understanding about Cybercrime and cyber offenses
CO2	Understanding about security challenges of mobile devices
CO3	Analyzing on Tools and Methods Used in Cybercrime
CO4	Understanding about Cyber Law and Cyber security
CO5	Understanding about strengths and weaknesses of Indian IT Act
CO6	Understanding about Cyber Forensics

COURSE OUTCOMES

Program : **MCA**	Course : **Cyber Security and Digital Forensics**	
Class **: MCA IV Sem**	Course Code **: MCA-R401 A**	A.Y**: 2021-22**

Course Objectives:	1.Understand basics of cyber security 2 Acquire the knowledge of various tools and methods used in cyber crime 3 Learn the fundamentals of digital forensic 4 Apply appropriate skills and knowledge for solving digital forensic problems	
CO's	**Course Outcomes**	
CO1	Demonstrate understanding of basic concepts in cyber security	
CO2	Make use of various tools and methods used in cybercrime	
CO3	Adapt fundamental knowledge of digital forensics	
CO4	Determine skills and knowledge for solving digital forensics Problems	
CO5	Design operational and strategic cyber security strategies and policies	
CO6	Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.	

COURSE OUTCOMES

Program : MCA	Course : **Crypto currency and Block chain Technologies**	
Class **: MCA IV Sem**	Course Code **: MCA-R401 B**	A.Y**: 2021-22**

Course Objectives:	1. Understand basic crypto currency concepts. 2. Understand the working and transactions of bit coin. 3. To analyze the function of Block chain technique.
CO's	**Course Outcomes**
CO1	Understand crypto currency concepts
CO2	Should be able to understand the working and transactions of bit coin
CO3	Should know the different advanced transactions and scripting techniques
CO4	Knowledge on analyzing the function of Block chain
CO5	Explain the fundamental characteristics of block chain using bit coin.
CO6	Demonstrate the application of hashing and public key cryptography in protecting the block chain

COURSE OUTCOMES

Program : **MCA**	Course : **Deep Learning**	
Class **: MCA IV Sem**	Course Code **: MCA-R401 C**	A.Y**: 2021-22**

Course Objectives:	1. To understand dataset and pre-processing to build neural network models. 2. To apply appropriate learning rules for each of the architectures and build several neural network models. 3. To learn different regularization and optimization techniques used in deep learning 4. To identify the problems, choose relevant deep learning algorithms and analyze the results for respective applications.
CO's	**Course Outcomes**
CO1	Demonstrate Tensor flow/Keras deep-learning workstations.
CO2	Choose appropriate data preprocessing techniques to build neural network models.
CO3	Analyze different regularization and optimization techniques used in deep learning.
CO4	Build neural network models using deep learning algorithms-CNN and RNN to Solve real world problems.
CO5	Discuss feed forward networks and their training issues
CO6	Design Feed Forward Neural Network architecture for research problems

COURSE OUTCOMES

Program : **MCA**	Course : **Game Development**	
Class : **MCA IV Sem**	Course Code : **MCA-R401 D**	A.Y: **2021-22**

Course Objectives:	1. Learn Unity framework for Game Development 2. Implement object oriented programming concepts in Game Development 3. Demonstrate use of Game development components 4. Use gaming assets for designing 3D games
CO's	**Course Outcomes**
CO1	Build Games using Object Oriented Programming Concepts.
CO2	Simplify Game Development Process using Unity Framework.
CO3	Develop state of art 2D games
CO4	Plan creation of 3D games and Test them.
CO5	create multiple gaming applications, utilizing industry-standard tools and software
CO6	engage himself with gaming industry best practices to enable an entrepreneurial position in the gaming marketplace

COURSE OUTCOMES

Program **: MCA**	Course **: Advanced Web Technology**	
Class **: MCA IV Sem**	Course Code **: MCA-R402 A**	A.Y **: 2021-22**

Course Objectives:	1. Focuses on building interactive web sites and web applications. 2. Advanced Web Technologies are based on ASP.Net technology with VB. 3. To learn creating interactive web applications using server controls, Database and Ajax.
CO's	**Course Outcomes**
CO1	Apply the concept of Client Server architecture.
CO2	Develop web applications using standard ASP.Net control and validation control.
CO3	Design and develop interactive web applications using master page and theme.
CO4	Develop asynchronous web application using database programming and Ajax.
CO5	Develop reusable component for Graphical User Interface applications
CO6	Apply the concepts of server side technologies for dynamic web applications

COURSE OUTCOMES

Program **: MCA**	Course **: Artificial Intelligence and machine learning**	
Class **: MCA IV Sem**	Course Code **: MCA-R402 B**	A.Y **: 2021-22**

Course Objectives:	1.Understand different AI concepts 2 Elucidate knowledge of Artificial Intelligence techniques for problem solving 3 Understand Artificial intelligence search strategies and neural networks 4 Provide an insight into the fundamentals of Machine Learning Techniques
CO's	**Course Outcomes**
CO1	Interpret Artificial Intelligence concepts intelligence concepts
CO2	Apply Artificial intelligence techniques for problem solving.
CO3	Analyze the fundamentals of machine learning, the learning algorithms and the paradigms of supervised and un-supervised learning
CO4	Identify methods to improve machine learning results for better Predictive performance.
CO5	Understand the features of machine learning to apply on real world problems
CO6	Characterize the machine learning algorithms as supervised learning and unsupervised learning and Apply and analyze the various algorithms of supervised and unsupervised learning

COURSE OUTCOMES

Program : **MCA**	Course : **Quantum Computing**	
Class **: MCA IV Sem**	Course Code **: MCA-R402 C**	A.Y**: 2021-22**

Course Objectives:	1. Impart the basic concepts of the emerging field of Quantum Computing 2 Learn and use various Quantum Computing algorithms 3 Demonstrate the working of basic quantum computing operations 4 Identify the basic requirements for implementing Quantum Computers
CO's	**Course Outcomes**
CO1	Understand basic principles and components of Quantum Computing
CO2	Analyze Quantum Computing algorithms
CO3	Design programs to perform basic Quantum Computing operations
CO4	Identify classes of problems that can be solved using Quantum Computing
CO5	Implement simple quantum algorithms and information channels in the quantum circuit model
CO6	Simulate a simple quantum error-correcting code

COURSE OUTCOMES

Program **: MCA**	Course **: Digital Marketing and Business Analytics**	
Class **: MCA IV Sem**	Course Code **: MCA-R402 D**	A.Y**: 2021-22**

Course Objectives:	1. Examine and explore the role and importance Digital Marketing in the current business scenario. 2. Familiarize with the various Digital Marketing Tools. 3. Apply Digital Marketing tools for formulating a Digital Marketing Strategy. 4. Understand Digital Marketing Campaigns using various Tools and measure their effectiveness.
CO's	**Course Outcomes**
CO1	Understand the role of Digital Marketing
CO2	Demonstrate use of various Digital Marketing Tools.
CO3	Discuss key element of Digital Marketing Strategy.
CO4	Understand use of Digital Marketing Tools for Digital Marketing Campaigns
CO5	Assess / Measure the effectiveness of the Digital Marketing Campaigns.
CO6	Demonstrate practical skills using common digital marketing tools like SEO, SEM,Content Marketing

COURSE OUTCOMES

Program **: MCA**	Course **: Lab-10: Based on Elective Course-3** (Cyber Security and Digital Forensics Lab)	
Class **: MCA IV Sem**	Course Code **: MCA-R405**	A.Y **: 2021-22**

Course Objectives:	The course is designed in a way that a candidate can identify, analyze and remediate computer security breaches by learning and implementing the real-world scenarios in Cyber Investigations Laboratory, Network Security Laboratory and in Security and Penetration Testing Laboratory.
CO's	**Course Outcomes**
CO1	Work collaboratively with clients, management, and/or law enforcement to advance digital investigations or protect the security of digital resources.
CO2	Access and critically evaluate relevant technical and legal information and emerging industry trends
CO3	Communicate effectively the results of a computer, network, and/or data forensic analysis verbally, in writing, and in presentations to both technical and lay audiences.
CO4	Analyze and evaluate the cyber security needs of an organization.
CO5	Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
CO6	Measure the performance and troubleshoot cyber security systems.

COURSE OUTCOMES

Program **: MCA**	Course **: Lab-10: Based on Elective Course-3 (Crypto currency and Block chain Technologies Lab)**	
Class **: MCA IV Sem**	Course Code **: MCA-R405**	A.Y **: 2021-22**

Course Objectives:	To give students the understanding of emerging abstract models for Block chain Technology and to familiarize with the functional/operational aspects of crypto currency eco-system.
CO's	**Course Outcomes**
CO1	Should know the different advanced transactions and scripting techniques
CO2	Knowledge on analyzing the function of Block chain
CO3	Describe the basic concepts and technology used for block chain.
CO4	Describe the primitives of the distributed computing and cryptography related to block chain.
CO5	Apply several Cryptographic Algorithms.
CO6	Explore the basics of crypto currencies

COURSE OUTCOMES

Program **: MCA**	Course **: Lab-10: Based on Elective Course-3 (Deep Learning Lab)**	
Class **: MCA IV Sem**	Course Code **: MCA-R405**	A.Y **: 2021-22**

Course Objectives:	This laboratory course is an excellent opportunity to gain practical experience with Tensorflow and to extend your academic knowledge in deep learning.
CO's	**Course Outcomes**
CO1	Build neural network models using deep learning algorithms-CNN and RNN to solve real world problems.
CO2	Understand the mathematical and statistical prospective of machine learning algorithms through python programming.
CO3	Design and evaluate the unsupervised models through python in built functions.
CO4	Evaluate the machine learning models pre-processed through various feature engineering algorithms by python programming.
CO5	Design and apply various reinforcement algorithms to solve real time complex problems.
CO6	Design and develop the code for recommender system using Natural Language processing

COURSE OUTCOMES

Program **: MCA**	Course **: Lab-10: Based on Elective Course-3** (Game Development Lab)	
Class **: MCA IV Sem**	Course Code **: MCA-R405**	A.Y**: 2021-22**

Course Objectives:	To enable the students to, 1. Develop competence necessary for graduate students to be employed in the areas of information technology and the industry of game development. 2. Enable students to develop games individually and in teams. 3. Develop creativity and individuality in problem solving and in performing tasks. 4. Enable students to continue their studies and to introduce them to scientific work in the areas of virtual reality, computer graphics, and artificial intelligence.
CO's	**Course Outcomes**
CO1	Develop state of art 2D games.
CO2	Plan creation of 3D games and Test them.
CO3	Create multiple gaming applications, utilizing industry-standard tools and software.
CO4	Lead or participate in an interdisciplinary team-oriented game production project.
CO5	Engage himself with gaming industry best practices to enable an entrepreneurial position in the gaming marketplace.
CO6	Learn to structure and define the duties of the game development team.

COURSE OUTCOMES

Program **: MCA**	Course **: Lab-11: Based on Elective Course-4 (Advanced Web Technology Lab)**	
Class **: MCA IV Sem**	Course Code **: MCA-R406**	A.Y **: 2021-22**

Course Objectives:	On completion of this course, a student will be familiar with client server architecture and able to develop a web application using java technologies To create fully functional website/web application with MVC architecture.
CO's	**Course Outcomes**
CO1	Design and develop interactive web applications using master page and theme.
CO2	Develop asynchronous web application using database programming and Ajax.
CO3	Students are able to develop a dynamic webpage by the use of java script and DHTML.
CO4	Students will be able to connect a java program to a DBMS and perform insert, update and delete operations on DBMS table.
CO5	Students will be able to write a server side java application called JSP to catch form data sent from client and store it on database.
CO6	Students will be able to write a server side java application called Servlet to catch form data sent from client, process it and store it on database

COURSE OUTCOMES

Program **: MCA**	Course **: Lab-11: Based on Elective Course-4 (Artificial Intelligence and machine learning Lab)**	
Class **: MCA IV Sem**	Course Code **: MCA-R406**	A.Y **: 2021-22**

Course Objectives:	1. To understand the basic theory underlying machine learning. 2. To be able to formulate machine learning problems corresponding to different applications. 3. To understand a range of machine learning algorithms along with their strengths and weaknesses. 4. To be able to apply machine learning algorithms to solve problems of moderate complexity. 5. To apply the algorithms to a real-world problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.
CO's	**Course Outcomes**
CO1	Identify methods to improve machine learning results for better predictive performance
CO2	Apply various pre-processing techniques on different datasets
CO3	Construct Machine learning programs for Supervised, Unsupervised and Semi supervised learning models.
CO4	Develop Deep learning programs for Supervised & Unsupervised learning models
CO5	Identify and Apply Artificial Intelligence concepts to solve real world problems
CO6	Understand the basic concepts of deep neural network model and design the same.

COURSE OUTCOMES

Program : **MCA**	Course : **Lab-11: Based on Elective Course-4 (Quantum Computing Lab)**	
Class : **MCA IV Sem**	Course Code : **MCA-R406**	A.Y: **2021-22**

Course Objectives:	1. Develop a familiarity with the ray optics and Gaussian beam. 2. Cultivate the fundamental understanding of electromagnetism. 3. Deliver the knowledge about Fourier and nonlinear optics. 4. Develop elementary problem-solving capability of quantum optics
CO's	**Course Outcomes**
CO1	Design programs to perform basic Quantum Computing operations
CO2	Identify classes of problems that can be solved using Quantum Computing.
CO3	Have deep understanding of EM wave propagation in guided medium
CO4	Demonstrate various fabrication and cabling techniques of optical fiber and its application.
CO5	Solve the problems attributed spatial frequency filtering and quantum optics.
CO6	Deliver the knowledge about the various optical nonlinear phenomena.

COURSE OUTCOMES

Program : MCA	Course : **Lab-11: Based on Elective Course-4** (**Digital Marketing and Business Analytics Lab**)	
Class **: MCA IV Sem**	Course Code **: MCA-R406**	A.Y**: 2021-22**

Course Objectives:	To understand the applications of Digital Marketing to undertake Marketing Campaigns in digital format and how to apply the tools of Digital Marketing to gain competitive advantage in the Market To analyze consumer buying behavior using Web Analytics and offer the right products or services to the right customers
CO's	**Course Outcomes**
CO1	Assess / Measure the effectiveness of the Digital Marketing Campaigns.
CO2	Demonstrate practical skills using common digital marketing tools like SEO, SEM, Content Marketing
CO3	To apply digital marketing tools to a) improve websites' rankings and optimize it in the process. b) Improve the brand's visibility c) improve brands reach which physically is relatively difficult and less effective.
CO4	To analyze relative importance of digital marketing strategies to optimize digital marketing campaign
CO5	To evaluate the performance of different social media in conjunction with overall digital marketing plan.
CO6	To design search engine optimization and search engine marketing campaigns

COURSE OUTCOMES

Program : **MCA**	Course : **Lab 12 : Project Work**	
Class : **MCA IV Sem**	Course Code : **MCA-R407**	A.Y : **2021-22**

Course Objectives:	1 Acquaint with the process of identifying the needs and converting it into the problem. 2 Adapt to a rapidly changing environment by having learned and applied new skills, new technologies and provide solutions to the problems in various application domains. 3 Conceptualize knowledge with emphasis on team work, effective communication, critical thinking and problem solving skills. 4 Inculcate the process of innovation, self-learning and research
CO's	**Course Outcomes**
CO1	Work in a team to complete the Project.
CO2	Enhance, Develop and Apply computer knowledge/Skill in Developing Project.
CO3	Imbibe Project Management Skill.
CO4	Develop Presentation Skill at conveying the Project Description.
CO5	Gaining experience in meeting deadlines.
CO6	Demonstrate the ability to produce a technical document.

COURSE OUTCOMES

Program **: MCA**	Course **: Practical / Lab:Project Viva voce**	
Class **: MCA IV Sem**	Course Code **: MCA-R408**	A.Y **: 2021-22**

Course Objectives:	This is project based practical paper to encourage the students to use their idea
CO's	**Course Outcomes**
CO1	Allow students to 'think on their feet' and express themselves meaningfully
CO2	Demonstrate students' ability to reflect and think critically in real time
CO3	Distinguish between superficial and in-depth learning (through interactive dialogue between the student and examiner)
CO4	Demonstrate knowledge in the program domain
CO5	Present his views cogently and precisely.
CO6	Exhibit professional etiquette suitable for career progression

COURSE OUTCOMES

Program : **MCA**	Course : **Seminar**	
Class : **MCA IV Sem**	Course Code : **MCA-R409**	A.Y: **2021-22**

Course Objectives:	1. Identify and compare technical and practical issues related to the area of course specialization. 2. Outline annotated bibliography of research demonstrating scholarly skills. 3. Prepare a well-organized report employing elements of technical writing and critical thinking. 4. Demonstrate the ability to describe, interpret and analyze technical issues and develop competence in presenting.
CO's	**Course Outcomes**
CO1	Develop stage courage among student.
CO2	Allows students to 'think on their feet' and express themselves meaningfully.
CO3	Students are able to express and deliver their own opinion along with the existing knowledge about a particular topic.
CO4	Establish motivation for any topic of interest and develop a thought process for technical presentation.
CO5	Organize a detailed literature survey and build a document with respect to technical publications.
CO6	Effective presentation and improve soft skills.

PLO1: Management knowledge: Acquire adequate knowledge through principles, theory and models of business management, Accounting, Marketing, Finance, IT, Operations and Human Resource.

PLO2: Communication: Demonstrate proficiency for Business Communication for effective and professional business management.

PLO3: Technical Knowledge: Acquire employability skills through practical exposure of IT and its usage in management.

PLO4: Investigation of Business Problems: Analyze and comprehend the applicability of management principles in solving complex business issues.

PLO5: Entrepreneurial Perspective: Develop entrepreneurial skills to become an entrepreneur.

PLO6: Environment and Sustainability: To build perspective about global environment including cultural, social and sustainability issues.

PLO7: Leadership Skills: Ability to develop group behavior and lead a team to achieve the individual, group and organizational goals.

PLO8: Ethics: Understand importance of ethics in business decision-making and inculcate the spirit of social responsibility.

PLO9: Global Perspective: Comprehend the applicability of management principles in the situations pertaining to global business world.

PLO10: Area Specific Expertise: Apply various concepts, theories and models in the functional areas of business like Marketing, HR and Finance in the Organizations.

PLO11: Cross-Disciplinary Integration and Strategic Perspective: Acquire and apply knowledge of economics, mathematics, statistics and production and operation management and its integration relevant to business decisions.

PLO12: Life Long Learning: Obtain legal knowledge of various business operations for effective
decision-making.

SEMISTER - I

COURSE OUTCOMES

Program **: BBA**	Course **: (**Principals of Management)
Class **: BBA I Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts and management thinker's theories in business management.

CO's	Course Outcomes
CO1	Recall the basic principles and functions of management and their relevance to different organizational settings. (Remembering)
CO2	Explain the various management styles and strategies used in organizations and their effectiveness. (Understanding)
CO3	Apply management principles to solve practical problems in organizations. (Applying)
CO4	Design and develop effective organizational structures that optimize resources and improve performance. (Creating)
CO5	Evaluate the impact of ethical and social responsibility considerations on management decisions and strategies. (Evaluating)
CO6	Analyze and synthesize information from various sources to develop a comprehensive understanding of the role of management in achieving organizational objectives. (Analyzing and Synthesizing)

COURSE OUTCOMES

Program **: BBA**	Course **: (**Financial Accounting)
Class **: BBA I Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyse, interpret and apply the basic concepts and theories of accounting in business management.

CO's	Course Outcomes
CO1	Understand the fundamental concepts and principles of financial accounting and their relevance to different business transactions. (Understanding)
CO2	Apply accounting concepts and principles to record, classify, and report financial transactions. (Applying)
CO3	Analyze and interpret financial statements to evaluate the financial performance and position of a business. (Analyzing)
CO4	Evaluate the effectiveness of accounting systems and procedures in ensuring accurate and reliable financial reporting. (Evaluating)
CO5	Develop financial reports and statements for various stakeholders in accordance with relevant accounting standards. (Creating)
CO6	Critically assess the ethical and social responsibility implications of accounting decisions and practices. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (**Business Mathematics)
Class **: BBA I Sem**	

Course Objectives: - The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts and theories of mathematics in business management.

CO's	Course Outcomes
CO1	Recall and apply mathematical concepts, such as algebra, calculus, and statistics, to solve business problems. (Remembering and Applying)
CO2	Analyze data using various mathematical techniques, including regression analysis and probability theory. (Analyzing)
CO3	. Evaluate the impact of mathematical models and tools on business decision-making. (Evaluating)
CO4	Develop mathematical models to solve practical problems in business operations. (Creating)
CO5	Communicate mathematical concepts and analysis results effectively to different stakeholders. (Communicating)
CO6	Critically assess the ethical and social responsibility implications of mathematical modeling and decision-making. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (Business Economics)**
Class **: BBA I Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts and theories of economics in managerial decision making.

CO's	Course Outcomes
CO1	Understand the basic principles of micro and macroeconomics and their relevance to business decision-making. (Understanding)
CO2	Apply economic concepts, such as supply and demand, market structures, and pricing, to analyze business operations. (Applying)
CO3	Analyze the impact of macroeconomic factors, such as inflation and economic growth, on business performance. (Analyzing)
CO4	Evaluate the effectiveness of economic policies and regulations on business operations. (Evaluating)
CO5	Develop economic models to solve practical problems in business decision-making. (Creating)
CO6	Critically assess the ethical and social responsibility implications of economic decisions and policies. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (Business Communication)**
Class **: BBA I Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts of English Language in business communication.

CO's	Course Outcomes
CO1	Recall and apply the basic principles of effective communication in different business contexts. (Remembering and Applying)
CO2	Analyze and evaluate different communication channels and strategies to communicate effectively with different stakeholders. (Analyzing and Evaluating)
CO3	Develop effective written and oral communication skills for different business situations. (Creating)
CO4	Evaluate the impact of cultural and ethical factors on business communication. (Evaluating)
CO5	Synthesize information from multiple sources to develop a comprehensive understanding of the role of communication in achieving business objectives. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of communication decisions and practices. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **:** (Business Environment)
Class **: BBA I Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts of different environmental factors that affect business & decision making.

CO's	Course Outcomes
CO1	Understand the various internal and external factors that shape the business environment. (Understanding)
CO2	Analyze the impact of economic, legal, political, social, and technological factors on business operations. (Analyzing)
CO3	Evaluate the competitive landscape and its impact on business strategies. (Evaluating)
CO4	Develop strategies to manage and adapt to changes in the business environment. (Creating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of the business environment. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of business decisions and practices in the current business environment. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (**Computer Applications in Business-I)
Class **: BBA I Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts of information & communication technology in business decision-making.

CO's	Course Outcomes
CO1	Understand the basic concepts of computer applications in business. (Understanding)
CO2	Apply software applications to perform common business tasks such as word processing, spreadsheet analysis, and data management. (Applying)
CO3	Analyze and evaluate the effectiveness of different software applications for different business tasks. (Analyzing and Evaluating)
CO4	Develop basic programming skills for automating routine business tasks. (Creating)
CO5	Communicate effectively using different computer applications. (Communicating)
CO6	Critically assess the ethical and social responsibility implications of computer applications in business. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **:** (Entrepreneurship-I)
Class **: BBA I Sem**	

Course Objectives: - The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts and theories of entrepreneurship in starting a new venture.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of entrepreneurship. (Understanding)
CO2	Analyze and evaluate the characteristics of successful entrepreneurs and entrepreneurial ventures. (Analyzing and Evaluating)
CO3	Develop skills in opportunity recognition and idea generation for new ventures. (Creating)
CO4	Evaluate the feasibility of new business ideas and opportunities. (Evaluating)
CO5	Develop a basic understanding of the legal, financial, and marketing aspects of entrepreneurship. (Understanding)
CO6	Critically assess the ethical and social responsibility implications of entrepreneurship. (Evaluating)

SEMISTER - II

COURSE OUTCOMES

Program **: BBA**	Course **:** (Organizational Behavior)
Class **: BBA II Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts of Organizational Behavior in organization.

CO's	Course Outcomes
CO1	Understand the fundamental concepts and theories of organizational behavior and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate the impact of individual differences, personality traits, and attitudes on organizational behavior. (Analyzing and Evaluating)
CO3	Develop effective leadership and communication skills to manage individuals and teams in organizations. (Creating)
CO4	Evaluate the impact of organizational culture and structure on employee behavior and performance. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of organizational behavior in different settings. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of organizational behavior and practices. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **:** (Business Accounting)
Class **: BBA II Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyse, interpret and apply the basic concepts and theories of accounting in business management.

CO's	Course Outcomes
CO1	Understand the basic principles and concepts of accounting and their relevance to different business transactions. (Understanding)
CO2	Apply accounting concepts and principles to record, classify, and report financial transactions. (Applying)
CO3	Analyze and interpret financial statements to evaluate the financial performance and position of a business. (Analyzing)
CO4	Evaluate the effectiveness of accounting systems and procedures in ensuring accurate and reliable financial reporting. (Evaluating)
CO5	Develop financial reports and statements for various stakeholders in accordance with relevant accounting standards. (Creating)
CO6	Critically assess the ethical and social responsibility implications of accounting decisions and practices. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **:** (Business Statistics)
Class **: BBA II Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyse, interpret and apply the basic concepts and theories of statistics in business management.

CO's	Course Outcomes
CO1	Understand the basic principles of statistical analysis and their relevance to different business applications. (Understanding)
CO2	Apply statistical concepts and techniques to analyze business data and make informed decisions. (Applying)
CO3	Evaluate the validity and reliability of statistical data and analysis. (Evaluating)
CO4	Develop statistical models to solve practical problems in business decision-making. (Creating)
CO5	Communicate statistical analysis results effectively to different stakeholders. (Communicating)
CO6	Critically assess the ethical and social responsibility implications of statistical modeling and decision-making. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **:** (Indian Economy)
Class **: BBA II Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyses, interpret and apply the basic concepts and theories of Indian economy in managerial decision making.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of Indian economy and their relevance to different economic sectors. (Understanding)
CO2	Analyze and evaluate the economic policies and regulations that impact the Indian economy. (Analyzing and Evaluating)
CO3	Evaluate the impact of different economic factors such as inflation, fiscal and monetary policies, and global economic events on Indian economy. (Evaluating)
CO4	Develop an understanding of the structure and functioning of different economic sectors in India. (Understanding)
CO5	Synthesize information from various sources to develop a comprehensive understanding of Indian economy. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of economic policies and practices in Indian economy. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **:** (Business Correspondence)
Class **: BBA II Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts of English Language in business communication.

CO's	Course Outcomes
CO1	Understand the principles of effective business communication and their relevance to different contexts. (Understanding)
CO2	Develop proficiency in different forms of written and oral business communication. (Applying)
CO3	Analyze and evaluate different types of business correspondence, such as memos, letters, reports, and proposals. (Analyzing and evaluating)
CO4	Apply critical thinking skills to generate effective business messages for different audiences and purposes. (Creating)
CO5	Use technology to enhance the effectiveness of business correspondence. (Applying)
CO6	Critically assess the ethical and social responsibility implications of business communication practices. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **:** (Business Ethics)
Class **: BBA II Sem**	

Course Objectives: - The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts of ethical practices that affect business & future decision making.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of business ethics and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate ethical issues and dilemmas in business decision-making. (Analyzing and evaluating)
CO3	Evaluate the impact of ethical and unethical behavior on organizational performance and reputation. (Evaluating)
CO4	Develop strategies to promote ethical behavior and practices in organizations. (Creating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of business ethics. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of business practices and decisions. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (Computer Applications in Business-II)**
Class **: BBA II Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts of information & communication technology in business decision-making

CO's	Course Outcomes
CO1	Understand the advanced features and applications of computer technology in business settings. (Understanding)
CO2	Apply computer applications to solve complex business problems and make informed decisions. (Applying)
CO3	Analyze and evaluate the effectiveness of computer applications in enhancing organizational productivity and performance. (Analyzing and Evaluating
CO4	Develop new applications using programming languages and software tools. (Creating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of computer applications in business. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of computer technology and its applications in business. (Evaluating)

COURSE OUTCOMES

Program : **BBA**	Course : (Entrepreneurship-II)
Class : **BBA II Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts and theories of entrepreneurship in starting a new venture.

CO's	Course Outcomes
CO1	Understand the different stages of the entrepreneurial process and their relevance to different types of businesses. (Understanding)
CO2	Analyze and evaluate the feasibility and viability of different business ideas and models. (Analyzing and Evaluating)
CO3	Develop business plans and strategies for successful entrepreneurship. (Creating)
CO4	Evaluate the impact of external factors, such as legal and regulatory environments, on entrepreneurship. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of entrepreneurship. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of entrepreneurial practices and decisions. (Evaluating)

SEMISTER - III

COURSE OUTCOMES

Program : **BBA**	Course : (Marketing Management)
Class : **BBA III Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts of Marketing Management.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of marketing management and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate market trends and consumer behavior to develop effective marketing strategies. (Analyzing and evaluating)
CO3	Develop marketing plans and tactics to achieve organizational goals and objectives. (Creating)
CO4	Evaluate the effectiveness of different marketing channels and tools in reaching target audiences. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of marketing management. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of marketing practices and decisions. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (Human Resource**
Class **: BBA III Sem**	**Management**)

Course Objectives: The objective of this course is to sensitize students to various facts of managing people and to create an understanding of the various policies and practices of human resource management.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of human resource management and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate different HR functions, such as recruitment, selection, training, and performance management. (Analyzing and Evaluating)
CO3	Develop HR policies and practices that align with organizational goals and objectives. (Creating)
CO4	Evaluate the effectiveness of different HR practices in enhancing employee motivation, engagement, and productivity. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of human resource management. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of HR practices and decisions. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (Financial Management - I)**
Class **: BBA III Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts of financial management.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of financial management and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate financial statements and reports to assess organizational performance and financial health. (Analyzing and Evaluating)
CO3	Develop financial plans and budgets to achieve organizational goals and objectives. (Creating)
CO4	Evaluate the effectiveness of different financial strategies and tools in enhancing organizational profitability and growth. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of financial management. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of financial practices and decisions. (Evaluating)

COURSE OUTCOMES

Program : **BBA**	Course : (**Corporate Accounting - I**)
Class : **BBA III Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the practical skills & knowledge of corporate accounting.

CO's	Course Outcomes
CO1	Understand the basic principles of corporate accounting and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate financial transactions and their impact on the financial statements of a corporation. (Analyzing and Evaluating)
CO3	Prepare financial statements in accordance with Generally Accepted Accounting Principles (GAAP). (Applying)
CO4	Evaluate the effectiveness of different accounting methods and techniques in recording and reporting financial information. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of corporate accounting. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of accounting practices and decisions. (Evaluating)

COURSE OUTCOMES

Program : **BBA**	Course : (**Production Management**)
Class : **BBA III Sem**	

Course Objectives: The objective of the course is to acquaint students with the basic management decisions with respect to production and to understand the designing aspect of production systems.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of production management and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate different production processes and techniques to improve productivity and efficiency. (Analyzing and Evaluating)
CO3	Develop production plans and schedules to meet organizational goals and objectives. (Creating)
CO4	Evaluate the effectiveness of different production strategies and tools in enhancing organizational performance and competitiveness. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of production management. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of production practices and decisions. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (Strategic Management)**
Class **: BBA III Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts and know strategic decision making process in strategic management.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of strategic management and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate the internal and external environment of organizations to develop effective strategic plans. (Analyzing and Evaluating)
CO3	Develop strategic plans that align with organizational goals and objectives. (Creating)
CO4	Evaluate the effectiveness of different strategic options and tools in achieving organizational objectives. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of strategic management. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of strategic decisions. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (International Business)**
Class **: BBA III Sem**	

Course Objectives: The objective of the course is to equip the students with the competence to evaluate global business opportunities and the skills to develop and implement appropriate strategies at all levels of the organization.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of international business and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate the global business environment, including economic, political, and cultural factors. (Analyzing and Evaluating)
CO3	Develop global business strategies that align with organizational goals and objectives. (Creating)
CO4	Evaluate the effectiveness of different international business practices and tools in achieving organizational objectives. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of international business. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of international business practices and decisions. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (Event Management**)
Class **: BBA III Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts of event management.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of event management and their relevance to different organizational contexts. (Understanding)
CO2	Analyze and evaluate different types of events, including planning, marketing, and execution. (Analyzing and Evaluating)
CO3	Develop event plans and strategies that align with organizational goals and objectives. (Creating)
CO4	Evaluate the effectiveness of different event management practices and tools in achieving organizational objectives. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of event management. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of event management practices and decisions. (Evaluating)

COURSE OUTCOMES

Program : **BBA**	Course : (**Foundation of Tally.ERP 9**)
Class : **BBA III Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to work with Tally. Utility: Student can acquire basic-level knowledge of Computerized Accounting and Tally.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of Tally.ERP 9 and its importance in accounting and financial management. (Understanding)
CO2	Analyze and evaluate the different features and functionalities of Tally.ERP 9 and how they can be used in different organizational contexts. (Analyzing and Evaluating)
CO3	Develop proficiency in using Tally.ERP 9 to manage financial transactions and generate reports. (Applying)
CO4	Evaluate the effectiveness of different Tally.ERP 9 tools in streamlining accounting and financial management processes. (Evaluating)
CO5	Synthesize information from various sources to troubleshoot common issues in using Tally.ERP 9. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of using Tally.ERP 9 in financial management. (Evaluating)

COURSE OUTCOMES

Program **: BBA**	Course **: (Soft Skills for Business)**
Class **: BBA III Sem**	

Course Objectives: The objective of the course is to equip the students to develop interpersonal skills and be an effective goal-oriented team player.

CO's	Course Outcomes
CO1	Understand the basic concepts and principles of soft skills and their importance in business contexts. (Understanding)
CO2	Analyze and evaluate different soft skills, including communication, teamwork, leadership, and problem-solving. (Analyzing and Evaluating)
CO3	Develop proficiency in using soft skills to build effective relationships with colleagues, customers, and stakeholders. (Applying)
CO4	Evaluate the effectiveness of different soft skills in achieving business objectives. (Evaluating)
CO5	Synthesize information from various sources to develop a comprehensive understanding of soft skills. (Synthesizing)
CO6	Critically assess the ethical and social responsibility implications of using soft skills in business contexts. (Evaluating)

SEMISTER - IV

COURSE OUTCOMES

Program **: BBA**	Course **: (Integrated Marketing Communication)**
Class **: BBA IV Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyse, interpret and apply the basic concepts of Integrated Marketing.

CO's	Course Outcomes
CO1	Define the nature, purpose and complex construction in the planning and execution of an effective Integrated Marketing Communication (IMC) program.
CO2	Identify various aspects of Advertising and Sales promotion and will understand the various tools of IMC and the importance of coordinating them for an effective marketing communication program.
CO3	Identify elements of IMC including Advertising, Sales Promotion, Direct Marketing, PR, Public relation, Direct marketing and digital marketing.
CO4	Analyze and evaluate marketing communication tools and beware of ethics in IM.
CO5	Describes the principles and practices of marketing communications, involving tools used by marketers to inform.
CO6	Knowledge about the nature, purpose and complex construction in the planning and execution of an effective Integrated Marketing Communication (IMC) program.

COURSE OUTCOMES

Program **: BBA**	Course **: (Customer Relationship**
Class **: BBA IV Sem**	**Management)**

Course Objectives: The objective of the course is to equip the students with the ability to understand and maintain good relations with the customers.

CO's	Course Outcomes
CO1	Demonstrate understanding of CRM evolution and perspectives.
CO2	Appraise the benefits of CRM.
CO3	Recognise the importance of managing and protecting customer data.
CO4	Formulate a successful CRM strategy.
CO5	Illustrate the impact of customer analytics in the digital age.
CO6	Examine the use of technologies in CRM.

COURSE OUTCOMES

Program **: BBA**	Course **: (Financial Management - II)**
Class **: BBA IV Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and take financial decisions.

CO's	Course Outcomes
CO1	Demonstrate an understanding of the overall role and importance of the finance function.
CO2	Demonstrate basic **finance management** knowledge. Communicate effectively using standard business terminology.
CO3	Understand basic concepts of financial management and their application in investment, financing and dividend decisions.
CO4	Understand concepts of cost of capital, leverage analysis, capital structure and dividend theories.
CO5	identify courses of action in financial environment that would result in maximization of wealth of an organization.
CO6	Understand management of working capital and estimate the same for an organization.

COURSE OUTCOMES

Program **: BBA**	Course **: (Corporate Accounting - II)**
Class **: BBA IV Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the practical skills & knowledge of corporate accounting.

CO's	Course Outcomes
CO1	Describe the different types of relationships amongst business entities and identify these relationships for financial reporting purposes.
CO2	Determine the 'reporting entities' for each inter-entity relationship, and explain the appropriate accounting policy choices.
CO3	Demonstrate a thorough knowledge of relevant accounting standards and the ability to apply them to solve practical problems that arise from inter-entity relationships.
CO4	Select the appropriate accounting techniques, as prescribed by the relevant accounting standards, and perform the accounting treatment for each type of inter-entity relationship (including preparing consolidated financial statements).
CO5	Discuss the strategic, legal, and assurance issues associated with establishing inter-entity relationships, and generate recommendations.
CO6	Communicate accounting policy choices and strategic recommendations and justify conclusions with reference to relevant laws and accounting standards.

COURSE OUTCOMES

Program **: BBA**	Course **: (Operations Management)**
Class **: BBA IV Sem**	

Course Objectives: The objective of the course is to acquaint students with the basic management decisions with respect to Operations and Quality Management.

CO's	Course Outcomes
CO1	Define 'operations' and 'operations management' and Understand Role and Importance of Operation Manager in an Organization.
CO2	identify the roles and responsibilities of operations managers in different organisational contexts and its operational and administrative processes.
CO3	apply the 'transformation model' to identify the inputs, transformation processes and outputs of an organisation.
CO4	Describe the boundaries of an operations system, and recognise its interfaces with other functional areas within the organisation and with its external environment.
CO5	Apply Analytical Techniques for Forecasting and Scheduling of jobs and services.
CO6	Understand Six Sigma Quality Standards and Statistical control Charts. Design and plan models for the firm

COURSE OUTCOMES

Program **: BBA**	Course **: (Business Laws)**
Class **: BBA IV Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to understand business laws.

CO's	Course Outcomes
CO1	Demonstrate an understanding of the Legal Environment of Business. the basics of Laws governing commercial contracts and nuances of competency to contract, rules of Consideration and Objects of Contracts with case laws and illustrations.
CO2	Apply basic legal knowledge to business transactions. Communicate effectively using standard business and legal terminology.
CO3	Understand the concept of Consent & Free Consent, different types of Agreements and Contracts, Sale of Goods Act 1930 and its Formation of contracts of sale, Goods and their classification.
CO4	Describes Foreign Exchange Management Act (FEMA)2000 and its main main provisions.
CO5	Describes Consumer Protection Act 1986, Grievance redressal machinery.
CO6	Analyze various provisions related to The Negotiable Instrument Act, 1881 with Amendment Act, 2015. Rules related to Bills of Exchange, Promissory Note and Cheque. Legal process on Dishonor of Cheque and Penalties.

COURSE OUTCOMES

Program **: BBA**	Course **: (Export-Import Management)**
Class **: BBA IV Sem**	

Course Objectives: The objective of the course is to familiarize the student with export and import policy of Government of India and to understand various export promotions organization and export import procedure and document required to conducting foreign trade.

CO's	Course Outcomes
CO1	Understand the Foreign Trade Policies and Export Promotion. concepts and basics of Export-Import business-related terms.
CO2	Knowledge the International Trading Environment and its Factor influencing international trade also the Problem in international trade.
CO3	Analyze procedures and strategies in **export import** business. Export Product Planning, Product planning strategies, Pricing strategies, Product mix, Product branding.
CO4	Identify the strategies and cases of **export** import business and import -Export Procedure and Documentation
CO5	Defines the Stages in import procedure, Import document-letter of credit, documentary bill, bill of exchange and bill of lading.
CO6	Know how to target and find foreign buyers for their Exports business and its Export procedure: Registration , pre-shipment, post shipment procedure.

COURSE OUTCOMES

Program : **BBA**	Course : **(Social Entrepreneurship)**
Class : **BBA IV Sem**	

Course Objectives: The objective of the course is to equip the students with the ability to analyze, interpret and apply the basic concepts and management thinker's theories in social entrepreneurship.

CO's	Course Outcomes
CO1	Understand the basics of social entrepreneurship and venture creation, factors impacting transformation into social entrepreneur.
CO2	Analyze current and emerging trends in the field of social entrepreneurship, locally, nationally and globally
CO3	Learn key tools of managing a business and Profit and non-profit Proprietorships.
CO4	Defines Concept of Sustainable Development and its importance, Factors affecting sustainable development.
CO5	Describes Methods of sensing opportunities and fields of opportunities.
CO6	Study of successful models like Grameen Bank – Aravind Eye Care System.

COURSE OUTCOMES

Program **: BBA**	Course **: (Tally. ERP 9 with GST)**
Class **: BBA IV Sem**	

Course Objectives: The objective of the course is to equip the students with knowledge of important provisions of the GST acts.

CO's	Course Outcomes
CO1	Understand Overview of Goods and Services and Tax Knowledge of GST, TDS, and inventory.
CO2	Techniques of making voucher and ledger entries
CO3	Defines the Levy and Exemption from Tax.
CO4	Define the Composition Scheme and its Conditions and restrictions.
CO5	Understands the Returns in GST. GSTR – 2
CO6	Analyze the Accounting of any Company with GST Independently.

COURSE OUTCOMES

Program **: BBA**	Course **: (E-Business)**
Class **: BBA IV Sem**	

Course Objectives: The objective of the course is to equip the students with the online business. Student can acquire knowledge of online transactions.

CO's	Course Outcomes
CO1	Introducing E-business and various E-business value chain and E-business models. And its Functions & Scope of Electronic Business, e-commerce V/S e-business
CO2	Understanding the legal environment Intellectual property rights and its protection.
CO3	Applying E-business and m-commerce service and applications and Electronic Business & Electronic Commerce.
CO4	Analyzing the wireless and satellite communications and understanding Mobile communication standards. Types of Electronic payment system and online banking - meaning concept, Importance.
CO5	Applying the mobile banking business models and privacy and security issues.
CO6	Knowledge the e-Business Transactions, E- Commerce application in various industries.

COURSE OUTCOMES

Program : **BBA**	Course : **(Business Tax-I)**
Class : **BBA V Sem**	

Course Objectives: The objective of the course is to understand the basic principles underlying the Income Tax Act.

CO's	Course Outcomes
CO1	Define the Basic concepts of Direct Tax, its History, Direct & Indirect Tax, Basic principles of charging Income, Residential Status.
CO2	Defines the Heads of Income- Salary, House property, Capital Gain, Income from Business or Profession, Income from Other Source.
CO3	Understands income Under the Head Salaries, and the concepts of Standard Deduction, Tax on employment or professional tax, Numerical problems.
CO4	Understands the Income Under the Head House Property, Chargeability, Exempted properties, Let out property, Computation of Income Taxes levied by local authority (Municipal Tax).
CO5	Analyze Income Under the Head Profit and Gains of Business or Profession, Meaning of Business & Profession, Income chargeable under the head Profits & gains of business or profession [Sec. 28],
CO6	Analyze the income Under the Head Capital Gain & Other Sources.

COURSE OUTCOMES

| Program **: BBA** | Course **: (Research Methodology)** |
| Class **: BBA V Sem** | |

Course Objectives: The objective of the course is to enable to student to understand and work methods and concepts related research and develop research project.

CO's	Course Outcomes
CO1	Understands the Concepts of Research, meaning, definition and characteristics of research.
CO2	Defines the Process of Selection and formulation of Research problem.
CO3	Describes the Evaluation of Research Design, Essential steps in preparation of Research Design.
CO4	Knowing the process of Data Collection, Analysis and Interpretation.
CO5	Define the Methods of data Collection and Statistical tools and analysis
CO6	Describes Steps in Organization of Research Report, Significance of Report Writing. Drafting of Report, Contents of a report.

COURSE OUTCOMES

Program **: BBA**	Course **: (Cost Accounting)**
Class **: BBA V Sem**	

Course Objectives: The objective of the course is to understand the knowledge about Cost Accounting. Utility: Student can acquire basic-level knowledge Cost Accounting.

CO's	Course Outcomes
CO1	Familiarize the concept of cost accounting and analysis material cost by various methods of pricing material issues.
CO2	Develop the knowledge about remuneration and incentives of labour with calculations of overheads.
CO3	Gather knowledge on preparation of cost sheet in organization practical point of view
CO4	Facilitate the idea and meaning of process costing with accounting procedure of costing and analysis the treatment of normal and abnormal losses & gains.
CO5	Impart the knowledge of operating costing with various methods and techniques of operating costing.
CO6	Analyze the Reconciliation of Cost and Financial Account.

COURSE OUTCOMES

Program : **BBA**	Course : (**Rural Marketing**)
Class : **BBA V Sem**	

Course Objectives: The objective of the course is to understand the knowledge about Rural Marketing environment so that they can understand consumer's and marketing characteristics of the same.

CO's	Course Outcomes
CO1	Understand the opportunities and challenges in rural and green marketing. Concept & scope of rural market, Rural development as a core area.
CO2	Identify and assess rural market potential for products and services Market Strategies, Segmentation, Targeting & Positioning for rural market.
CO3	Evaluate different marketing strategies used in rural and green marketing.
CO4	Understanding Agricultural Markets, Nature & scope, Objectives of Agriculture Marketing.
CO5	Defines Export Potential of Agri-Products. Measures of Government and Non-Govt
CO6	Analyze Agencies in the development of Rural and Agricultural Sector, Marketing Strategies for Seed; Fertilizers; Pesticides; Farm equipment.

COURSE OUTCOMES

Program **: BBA**	Course **: (Product and Brand**
Class **: BBA V Sem**	**Management)**

Course Objectives: The objective of the course is to understand the knowledge about how a company can build & manage its products so that they are profitable to the company.

CO's	Course Outcomes
CO1	Defines the Components and level of Products, Functions of Product manage, overview of Product Management.
CO2	Understands Strategic Product Management, Product Life cycle, Product Differentiation & its positioning.
CO3	Understand needs and importance of advertising, models of advertising and required planning framework for promotional strategy
CO4	Analyze A Brand Equity Measurement & Management system, Measuring Sources of Brand Equity & outcome of Brand Equity
CO5	Growing & sustaining Brand Equity. Learn about the media planning, scheduling and media decisions.
CO6	Demonstrate how to do brand management and strategies. Strategic Brand Management Process: Introduction & Phases.

COURSE OUTCOMES

Program **: BBA**	Course **: (Banking)**
Class **: BBA V Sem**	

Course Objectives: The objective of the course is to understand the structure and working of Banking & Financial Institution in India.

CO's	Course Outcomes
CO1	Understands the Structure of Indian Banking System Meaning, Function, Features of Bank, Types of Bank.
CO2	Understands the Functions of Banking, accepting Deposits, Granting Loans, Promissory Notes, Acting as trustee, General Utility function.
CO3	Describes the different types of Banks and functions of Commercial Bank, EXIM Bank, Cooperative Bank, RBI, NABARD, State Bank of India
CO4	Understands the Banking sector Reforms in India.
CO5	Understands the Management of NPA (Non-Performing Asset), Capital Adequacy Norms.
CO6	Analyze the Reserve Bank of India & Monetary Management.

COURSE OUTCOMES

Program **: BBA**	Course **: (Introduction to Financial**
Class **: BBA V Sem**	**Markets)**

Course Objectives: The objective of the course is to understand to concept of Financial Market and its functioning.

CO's	Course Outcomes
CO1	Understands the Financial Market, Classification of Market (on the basis of maturity of securities, Organization structure basis).
CO2	Defines the Functions of Financial Market.
CO3	Understands the Financial Instruments and Types of Instrument issued in Money market and Capital market.
CO4	Describes the Financial Intermediaries and the Structure of Financial Intermediaries (RBI, SEBI, IRDA).
CO5	Describes the money market and Role of Function of Money market, Instrument related to Money market.
CO6	Analyze the Capital Market and instruments related in Capital market.

COURSE OUTCOMES

Program **: BBA**	Course **: DSE-3A (Training and**
Class **: BBA V Sem**	**Development)**

Course Objectives: The objective of the course is to understand the Importance of Training & Development of Employee in Modern Organization.

CO's	Course Outcomes
CO1	Understands the concept of Training and Need Assessment of Training.
CO2	Defines the Training Process & Methods - On-the-Job, Off-the-Job. Computer based Training and Types of Computer based Training.
CO3	Describes the training evaluation process, Evaluation Techniques and Evaluation Instruments.
CO4	Describes the Principles of Learning, learning Cycle, and Learning Curve.
CO5	Understands the Executive Development process.
CO6	EvaluateTraining for Executive Level Management

COURSE OUTCOMES

Program **: BBA**	Course **: (Industrial Relations)**
Class **: BBA V Sem**	

Course Objectives: The objective of the course is to understand and importance of Industrial Relations.

CO's	Course Outcomes
CO1	Understand the concepts of Industrial Relations. Approaches to Industrial Relations & Parties to Industrial Relations.
CO2	Define the Forms of Trade Union, Functions, Evolution of Trade Union Practices in India.
CO3	Describes Forms of Collective Bargaining, Process of Collective Bargaining.
CO4	Defines Forms of Collective Bargaining, Process of Collective Bargaining. Importance & Forms of Workers Participation in Management.
CO5	Analyze the Industrial Disputes.
CO6	Analyze the Causes of Industrial Disputes, Industrial Dispute Settlement Machinery.

Program **: BBA**	Course **: (Start-Up Project**
Class **: BBA V Sem**	**Management)**

Course Objectives: The objective of the course is to understand and importance of Industrial Relations.

CO's	Course Outcomes
CO1	Understands the concept of Start-up and Characteristics of Start-ups.
CO2	Defines the Designing of Business Processes, Selection of Location and Layout.
CO3	Describes Startup initiative, Accommodation and utilities, Contracts with the Vendors.
CO4	Understands the concepts of Creativity & Innovation, sources of business ideas, criteria for selection of a business opportunity.
CO5	Understands the concept of Entrepreneurship and Development of Entrepreneurship, Entrepreneurial Process.
CO6	Analyze the New Government Initiatives. Startup India Standup India, Atal Innovation Mission, Make in India, Ease of Doing Business in India.

COURSE OUTCOMES

Program **: BBA**	Course **: (NGO Management)**
Class **: BBA V Sem**	

Course Objectives: The objective of the course is to understand and importance of NGO.

CO's	Course Outcomes
CO1	Understands the concept of NGOs. Govt. recognition of NGO
CO2	Defines the Working of NGO in India.
CO3	Understands the NGO Environment and its Environmental Threats and Opportunities.
CO4	Discuss the issues in NGO management. Understanding the Context, Aid to Development
CO5	Understands legal procedures. A Trust, Memorandum of Association and Rules and Regulations of a Society, Tax Reliefs for NGOs
CO6	Analyze the Registration under Indian Registration Act, Documents Required to Form a Society, Contents of the Memorandum of Association.

COURSE OUTCOMES

Program **: BBA**	Course **: (Financial Literacy Skills)**
Class **: BBA V Sem**	

Course Objectives: To encourage the college students to obtain basic financial skills which are essential for their full participation in society and life time of well-being.

CO's	Course Outcomes
CO1	Define the concept of Money Matters and Budgeting. Money as medium of exchange and as medium of storage
CO2	Understands the Cash-flow Statement. The structure, items, purpose, the different heads, the essence of Budget-Meaning, purpose and different heads
CO3	Understanding insurance and risk management. "pure risk" and "investment risks", Ways to manage risk: Avoid, Reduce, Retain, Share & Transfer, spreading the risks and sharing of losses, insurance premium an expense, insurance products and terminology.
CO4	Describes the importance of Investment, diversification as a risk mitigation tool and Liquidity.
CO5	Defines short term and long-term impact of inflation on personal finances.
CO6	Analyze the Equity Stocks -face value, shares at a premium and at a discount, dividend, the market value of each share and how is it determined, Earnings per share (EPS), Price to Earnings Ratio (P/E ratio) and Bonds and debentures-types of bonds / debentures.

COURSE OUTCOMES

Program : BBA	Course : (Leadership & Negotiation
Class : BBA V Sem	Skills)

Course Objectives: To encourage the college students to obtain Leadership & Negotiation Skills which are essential for their full participation in society and life time of well-being.

CO's	Course Outcomes
CO1	Understands the concept of Theories of Leadership, Leadership Styles and Leadership skills.
CO2	Defines the Interpersonal skills, Conversation, Feedback, Feed Forward.
CO3	Describes the Conflict Management and its types and styles. Coping strategies and Conflict Management.
CO4	Analyze the Positive thinking – Martin Seligman's theory of Learned Helplessness.
CO5	Understands the concepts of Negotiations its types and
CO6	Analyze the Negotiation Strategies.

SEMISTER - VI

COURSE OUTCOMES

Program **: BBA**	Course **: (Business Tax-II)**
Class **: BBA VI Sem**	

Course Objectives: The objective of the course is to understand the Assessment Procedure of Income Tax Act.

CO's	Course Outcomes
CO1	Understand the basic concepts and Gross Total Income, Deductions U/s 80C, 80D, 80DD, 80G, 80U,80TTA, 80TTB.
CO2	Knowledge about Computation of Income under different heads of Income of Income Tax Act, 1961. Numerical Problems on Assessment of individual's Total Taxable Income.
CO3	Describes the Numerical Problems on Computation of Tax Liability of Individual about the Tax Liability of Individual.
CO4	Understands the Assessment of Firm. Partnership Firm, Types of partnership firm, Chargeability, Deductions • Tax Rates, Total income of Firm.
CO5	Understands the Partnership Firm, Types of partnership firm, Chargeability, Deductions • Tax Rates, Total income of Firm.
CO6	Analyze Goods and Service Tax, Implementation of GST Council and their Functions, Benefits of GST.

COURSE OUTCOMES

Program : **BBA**	Course : **(Industrial Laws)**
Class : **BBA VI Sem**	

Course Objectives: The objective of the course is to understand the basic principles underlying the Industrial and Labor relation Act.

CO's	Course Outcomes
CO1	Understands the Trade Union Law, Trade Union Movement, Aims and Objectives of Trade Union Movement.
CO2	Understands the Industrial Dispute Act and Authorities for prevention of Industrial dispute, Concept of Strike, lockout, layoff, retrenchment, closure.
CO3	Understands the Factories Act 1948. Provisions of Safety, health and Welfare relating labors.
CO4	Defines the international Labor Organization. Preamble to Constitution, Organization Structure, Measure Activities of International Labor Organization.
CO5	Defines the Concept of Collective bargaining and its Process of Bargaining, Merits and Demerits of bargaining.
CO6	Analyze the industrial law. And Authorities for prevention of Industrial dispute, Concept of Strike, lockout, layoff, retrenchment, closure.

Program **: BBA**	Course **: (Management Accounting)**
Class **: BBA VI Sem**	

Course Objectives: The Objectives of this paper is to equip the students with the ability to analysis, interpret and use accounting information in Management accounting information in managerial decision making.

CO's	Course Outcomes
CO1	Understands the basic knowledge of Management Accounting. And Role of Management Accounting in Decision Making.
CO2	Defines the Financial Statement Analysis. Cash Flow Statement and Fund Flow Statement.
CO3	Describes the Marginal Costing and Break Even Analysis. Advantages and Disadvantages of Marginal Costing, Break Even Analysis.
CO4	Defines the Margin of Safety and Maintaining the Desire Level of Profit & Estimated Sales.
CO5	Analyze Standard Costing & Variance Analysis. Variances, Actual & Standard variance, Material & Labour Variance.
CO6	Analyze the Budget and Budgetary Control. Cash Budget, Flexible Budget, Production Budget, Sales Budget.

COURSE OUTCOMES

Program **: BBA**	Course **: (Retail Management)**
Class **: BBA VI Sem**	

Course Objectives: The objective of the course is to understand the knowledge about Retail Management.

CO's	Course Outcomes
CO1	Defines the concept of Retail Management. Functional activities of retailing and development of retail in India.
CO2	Defines Retailers and Classification based on legal form, Operational structure, Range of merchandise, Degree of service.
CO3	Understands the Store Design and Layout. exterior and interior design decision.
CO4	Understands Product and Merchandise Management. The concept of Merchandise planning and forecasting, inventory planning.
CO5	Describes the concept of pricing, pricing strategy, Factors affecting retail pricing strategy.
CO6	Analyze Methods of communicating with the customers, Advertising, Design of Shop windows, Sales Promotion methods.

COURSE OUTCOMES

Program **: BBA**	Course **: (Digital Marketing)**
Class **: BBA VI Sem**	

Course Objectives: The objective of the course is to understand the knowledge about Digital Marketing tools.

CO's	Course Outcomes
CO1	Defines the concept of Digital marketing. And difference between digital marketing and traditional marketing.
CO2	Knowledge of E marketing. History and Limitations of E-marketing.
CO3	Describes the concept of Social Media Marketing and advantages of social media and uses to business.
CO4	Defines the Methods and Techniques of E-Marketing. Also Online Seminar Techniques, Word-of-Mouth Marketing Techniques.
CO5	Understand the Legal and Ethical Issues in E-Marketing.
CO6	Analyze the egal and Ethical Issues in E-Marketing, Privacy, Digital Property, Online Expression, Emerging Issues.

COURSE OUTCOMES

Program : **BBA**	Course : **(International Finance)**
Class : **BBA VI Sem**	

Course Objectives: - The objective of the course is to concepts of International Finance and International financial System.

CO's	Course Outcomes
CO1	Understands the concept International Finance. Scope and factors influencing on International Finance, International monetary fund
CO2	Defines the International Monetary System.
CO3	Describes the Role & Function of International Monetary Fund & World bank in International trade.
CO4	Understands the International Financial Market & Instrument.
CO5	Understands the Meaning & management of Foreign Exchange Exposure
CO6	Analyze the Exchange Market & Exchange Mechanism.

COURSE OUTCOMES

Program **: BBA**	Course **: (Introduction to Financial**
Class **: BBA VI Sem**	**Services)**

Course Objectives: The objective of the course is to understand concepts of Financial Services to acquaint the students with Fundamentals to develop the capability of students.

CO's	Course Outcomes
CO1	Understands the Indian Financial System. Development since 1991.
CO2	Describes the Role of Financial Intermediaries, Various Financial Intermediaries
CO3	Explains the Secondary Market. Bombay Stock Exchange, National Stock Exchange.
CO4	Defines Portfolio Management Services. Role of Portfolio Manager, Types of Strategy passive & active.
CO5	Understands the Role & Function of RBI, SEBI, Provision of Companies Act, FEMA.
CO6	Analyze the process and Functions of Merchant banking, Legal & Regulatory Framework, Role in issue Management, Issue pricing.

COURSE OUTCOMES

Program **: BBA**	Course **: (Employee Welfare and Social**
Class **: BBA VI Sem**	**Security)**

Course Objectives: The objective of the course is to understand concepts of Employee Welfare and Social Security.

CO's	Course Outcomes
CO1	Defines the concept and Principles of Labour Welfare, Philosophy of Labour Welfare.
CO2	Describes thesocial securities. social Assistance & Social Insurance.
CO3	Understands the Labour Welfare Programmes. Statutory Welfare Provision and Voluntary Welfare Provision.
CO4	Understands the Labour Administration in India.
CO5	Describes the Industrial Health & Safety.
CO6	Analyze the Causes, Provisions of Industrial Safety Concept.

COURSE OUTCOMES

Program **: BBA**	Course **: (Performance Management**
Class **: BBA VI Sem**	**System)**

Course Objectives: The objective of the course is to understand concepts of Performance Management.

CO's	Course Outcomes
CO1	Defines the concept of performance Management and its Performance Management Process.
CO2	Describes Performance Planning.
CO3	Defines Performance Appraisal. Performance Management Techniques.
CO4	Understands the Performance Feedback & Counseling.
CO5	Understands the concept of Company Mapping.
CO6	Analyze the Performance Feedback & Counseling. Performance based compensation & Reward types.

COURSE OUTCOMES

Program **: BBA**	Course **: (Agri-Business Management)**
Class **: BBA VI Sem**	

Course Objectives: - The objective of the course is to learn about Agricultural markets, NAFED, warehose & material handling system in India.

CO's	Course Outcomes
CO1	Defines the agricultural /Marketing Institutions & Organization.
CO2	Understands the Agricultural produce Market committee (APMC) Act.
CO3	Describes the Agri Supply Chain Management.
CO4	Defines the Agricultural and Processed Food Products Export Development Authority (APEDA).
CO5	Understands The national agricultural co-operative marketing federation of India(NAFED).
CO6	Analyze the Commodity Markets and Hedging.

COURSE OUTCOMES

Program **: BBA**	Course **: (Intellectual Property Rights)**
Class **: BBA VI Sem**	

Course Objectives: - The objective of the course is to understand the basic principles underlying the Intellectual Property Rights.

CO's	Course Outcomes
CO1	Define the concept of f Intellectual Property.
CO2	Understands the World Intellectual Property Rights Organization(WIPO) and UNESCO.
CO3	Describes the Copyrights in India. Features of Copyright and Ownership of Copyright.
CO4	Understands the concept of Historical Development of Trademark and Procedure for Registration.
CO5	Defines the meaning of Patent and Procedure for registration.
CO6	Analyze the Geographical Indications of Goods(Registration and Protection) Act 1999.

COURSE OUTCOMES

Program **: BBA**	Course **: (Excel Lab)**
Class **: BBA VI Sem**	

Course Objectives: To encourage the college students to obtain get knowledge about Excel Lab which are essential for their full participation in society and life time of well-being.

CO's	Course Outcomes
CO1	Define and understands the MS-Excel 2010. Ribbon, Title Bar, Quick Access Toolbar, Help, Zoom Control, View Buttons.
CO2	Defines Formula & Functions in MS-Excel 2010.
CO3	Understand the Date & Time Functions, Logical Functions & Text Functions, Auto Sum, Auto Fill, ascending & descending sort.
CO4	Defines the Tables & Chart, Table, Pivot Table etc.
CO5	Describes the Setting Worksheet.
CO6	Understands the concept of Data Validation & Protection.

COURSE OUTCOMES

Program **: BBA**	Course **: (E-Filling of Returns)**
Class **: BBA VI Sem**	

Course Objectives: To encourage the college students to obtain E- Filing of Returns skills which are essential for their full participation in society and life time of well-being.

CO's	Course Outcomes
CO1	Defines the concept of E-Filing of Returns.
CO2	Defines Difference between E-Filing and Regular Filing of Returns.
CO3	Describes the Income Tax & E-Filing of Income Tax Returns.
CO4	Understands the process of TDS & E-Filing of TDS Returns. TDS & E-Filing of TDS Returns.
CO5	acknowledge Basic Concepts of GST and Rates of GST, Composition Scheme, Small Suppliers
CO6	Analyze the Forms of GST Returns. Understands the Practical Workshop on E-Filing of GST Returns.

MBA Programme Outcomes

Program Outcomes	
PO1	Generic and Domain Knowledge - Ability to articulate, illustrate, analyze, synthesize and apply the knowledge of principles and frameworks of management and allied domains to the solutions of real-world complex business issues
PO2	Problem Solving & Innovation - Ability to Identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
PO3	Critical Thinking - Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions
PO4	Effective Communication - Ability to effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large
PO5	Leadership and Team Work - Ability to collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all stakeholders.
PO6	Global Orientation and Cross-Cultural Appreciation: Ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management.
PO7	Entrepreneurship - Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills for founding, leading & managing startups as well as professionalizing and growing family businesses.
PO8	Environment and Sustainability - Ability to demonstrate knowledge of and need for sustainable development and assess the impact of managerial decisions and business priorities on the societal, economic and environmental aspects
PO9	**Project management and finance:** Demonstrate knowledge and understanding of the business and management principles and apply those to one's own work, as a member and leader in a team, and to manage projects in multidisciplinary environments.
PO10	**Communication:** Communicate effectively on complex business management activities with the industry and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. Construct and communicate a logical, relevant, and professional quantitative assessment of business information in an effective manner

PO11	Social Responsiveness and Ethics - Ability to exhibit a broad appreciation of the ethical and value underpinnings of managerial choices in a political, cross-cultural, globalized, digitized, socio-economic environment and distinguish between ethical and unethical behaviors & act with integrity.
PO12	Life Long Learning – Ability to operate independently in new environment, acquire new knowledge and skills and assimilate them into the internalized knowledge and skills.

MBA Programme Specific Outcomes (PSOs)

PSOs for Marketing Management

PSO1. Ability to integrate concepts like product life cycle, adoption, and segmentation, branding, pricing, distribution, and market communication and use it for effective marketing decisions

PSO2. Ability to exhibit Sales professionalism

PSO3. Ability to assess how Technology & connectivity has changed human life and business in the context of real-world commodities, products & services.

PSOs for Financial Management

PSO1. Ability to use financial data to make knowledgeable decisions about the Working performance, resources apportionment and financial position of a company.

PSO2. Ability to remain updated with respect to economic reforms and financial markets

PSO3. Ability to demonstrate knowledge of the legal framework of International Financial reporting standards, Goods and Services tax, income tax and filing of the returns

PSOs for HR Management

PSO1. To enable students to become proficient in the key functions of Human Resource Management viz: Human resource planning, Recruitment and selection, Performance management, Learning and development, Career planning, Function evaluation, Rewards and Recognition, Industrial relations, Employee participation and communication, Health and safety, Personal wellbeing and Administrative responsibilities

PSO2. To familiarize students with the technological interventions in Human Resource Management and the Current trends and Cases in HRM.

PSO3. To acquaint students with real time problems and their probable solutions in the areas of Organizational Behavior, Development and Diagnosis.

PSOs for Operations Management

PSO1. Ability to gain a robust perspective on Six Sigma, lean operations management, innovation, and operational leadership

PSO2. Ability to be expert in economic order quantity, inventory classification and other inventory management techniques

PSO3. Ability to understand and process internal and external customer needs within the quality framework

SEMISTER - I

COURSE OUTCOMES

Program **: MBA**	Course **: (Management Accounting)**
Class **: MBA I Sem**	

Course Objective: The objective of learning this course is to understand the concepts, applications of management accounting, costing and Budgetary Control & Standard Costing.

CO's	Course Outcomes
CO1	Understand the basic Concept and Conventions of Account management and their importance of accounting in business organizations.
CO2	Explain the Financial Statements and Preparation of Final accounts of sole proprietary.
CO3	Describes cost accounting. Classification and analysis of cost for preparation of cost sheet.
CO4	Knowledge on various short term business decision techniques.
CO5	Distinguish Exercising control- budgetary control and standard costing.
CO6	Analyze the information from various sources to develop a comprehensive understanding of the functional budgets, standard costing and budgetary control.

COURSE OUTCOMES

Program **: MBA**	Course **: (Organizational Behavior)**
Class **: MBA I Sem**	

Course Objective: To familiarize students with the behavioral patterns of human beings at individual and group levels in organizational context.

CO's	Course Outcomes
CO1	**Understand** the concept of Organizational behavior, its assumptions, significance, historical evaluation and emerging challenges of managing diversity in behavior.
CO2	**Focuses on group behavior.** Understand various theories applies in organizational behavior.
CO3	**Describe** the different aspects of the human behavior to the individual, group & organizational perspectives of the workplace
CO4	**Knowledge** on different types on conflicts and stress management which focuses on its process and functional and dysfunctional conflicts.
CO5	**Distinguish** the frameworks & tools effectively to analyze & approach various Organizational situations
CO6	**Design** and modify their own beliefs, assumptions, and behaviors with respect to how individuals, groups and organizations act in order to expand the options of approaches and increase the own effectiveness.

COURSE OUTCOMES

Program **: MBA**	Course **: (Statistical and Quantitative Methods**)
Class **: MBA I Sem**	

Course Objectives: To evaluate the business decisions through Quantitative techniques, to enable the business decisions with numerical ability and to apply various business mathematical techniques through transportation, assignment, game theory and other quantitative techniques.

CO's	Course Outcomes
CO1	Relate a formal quantitative approach to problem solving and decision making and acquire the knowledge about mean, median, mode and measures of dispersion
CO2	Apply the concepts of probabilistic distributions in solving problems
CO3	Evaluate the impact of mathematical models and tools on business decision-making. (Evaluating)
CO4	Extend the ability to solve linear programming problems by graphical and simple methods
CO5	Outline quantitative models to decision making and problem analysis, and their interpretations in transportation problems and game theory
CO6	Able to solve Transportation and Assignment Problems, game and replacement strategies will be learnt along with application of business mathematics in business world.

COURSE OUTCOMES

Program **: MBA**	Course **: (Legal Aspects of Business)**
Class **: MBA I Sem**	

Course Objectives: The objective of this course is to provide the theoretical knowledge about various laws along with case studies, along with legal environment in which a consumer and businesses operates

CO's	Course Outcomes
CO1	Acquaint with the general business law issues to become more informed, sensitive and effective business leaders
CO2	Understand fundamental legal issues pertaining to the business world to enhance their ability to manage businesses effectively.
CO3	Describes The Indian Contract Act 1872; Establishing the contract, Offer and Acceptance, Consideration, Competency of Parties
CO4	Defines the Nature of Contract of Sale; Conditions and Warranties; Transfer of Ownership and Delivery; Rights of Unpaid Seller and Rights of Buyer.
CO5	Describes the Meaning and Definition of Negotiable Instruments; Competence and Liability of Parties to Negotiable Instruments, Negotiation and Assignment
CO6	Understands the Nature and Kinds of Companies, Formation of Companies, Company Management as well as Company Meetings Winding Up of a company.

COURSE OUTCOMES

Program : **MBA**	Course : **(Managerial Economics)**
Class : **MBA I Sem**	

Course Objectives: To introduce the concepts of economics, to familiarize students with the importance of economic approaches in managerial decision making and to understand the applications of economic theories in business decisions.

CO's	Course Outcomes
CO1	Apply economic principles to management decisions. Understand the Nature, Scope and Significance of Managerial Economics, its Relationship with other Disciplines.
CO2	Understand the Role of Managerial Economics in Decision Making. The cardinal and ordinal approach of consumer behavior. AND How to estimate demand and furcating of demand in the markets.
CO3	Defines the Managerial uses of Production Function, Short Run and Long Run Production Analysis. And the concepts of producer equilibrium and least cost combination used by producers.
CO4	Able to analyze the concept of price and non-price competition used by the sellers. Determine the aggregate demand for goods and services.
CO5	Measure living standards, inflation, and unemployment for use as economic indicators. Explain and understand the Measurement of Development: Income Measures, Basic Needs Approach, PQLI and HDI
CO6	Understand the role of international trade, international finance and exchange rates determination. Able to understand the concept of Business cycles and its relevance to managerial economist.

COURSE OUTCOMES

Program **: MBA**	Course **: (Computer application in**
Class **: MBA I Sem**	**management)**

Course Objectives: This objective of this subject is to make the students understand the functioning of office application software. It will helps the student to have hands on experience on various application software used for office automation like Document editor, Spreadsheet, Presentation and Internet for day-to-day problem solving, in particular for creating business documents, data analysis, graphical representation, web communication.

CO's	**Course Outcomes**
CO1	Gain familiarity with the concepts and terminology used in the development, implementation and operation of the business computer applications
CO2	Explore various methods where information technology can be used to support existing businesses and strategies
CO3	Operate a variety of advanced spreadsheet, operating system and word processing functions
CO4	Basic understanding of multimedia application in business
CO5	Demonstrate basic understanding of computer communication, internet, E-mail & chatting
CO6	Demonstrate basic understanding of network principles.

COURSE OUTCOMES

Program **: MBA**	Course **: (Knowledge Management)**
Class **: MBA I Sem**	

Course Objectives: The purpose of this course is that the students should gain an understanding on Basics of Knowledge Management, Essentials of Knowledge Management, Application of IT in Knowledge Management and Future of Knowledge Management with respect to the Industry Perspective

CO's	Course Outcomes
CO1	Apply complex theories and practice of knowledge and intellectual capital management.
CO2	Apply theories to a wide range of scenarios.
CO3	Formulate action plans for knowledge intensive organizations.
CO4	Distinguish aspects of industrial era management that may be inappropriate for knowledge intensive organizations and provide alternatives.
CO5	Formulate a framework for thinking about knowledge intensive organization.
CO6	describe and work with intangibles.

COURSE OUTCOMES

Program **: MBA**	Course **: (E-Commerce**)
Class **: MBA I Sem**	

Course Objective: to empower students with unique concepts, methods, acquisitions, and fundamentals of e-commerce business. It will also enlighten how firms gain competitive advantage in e-commerce business. Also, this course will focus on new innovative concepts, frameworks and tools that benefit both students and merchants.

CO's	Course Outcomes
CO1	Understand the basic concepts of E-commerce.
CO2	Demonstrate an retailing in E-commerce by using the effectiveness of market research.
CO3	Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra organizational.
CO4	Understands the concept of Consumer Search and Resource Discovery, - Online Marketing and e-Supply Chain Management.
CO5	Describe the key features of Internet, Intranets and Extranets and explain how they relate to each other.
CO6	Definition of Mobile Commerce, Mobile Commerce Framework, Growth of Mobile Commerce Benefits & Limitations of Mobile Commerce.

COURSE OUTCOMES

Program **: MBA**	Course **: (Information System)**
Class **: MBA I Sem**	

Course Objectives: To develop an understanding of the structure and role of information systems in business

CO's	Course Outcomes
CO1	Describe managing the digital firm and evaluate the role of information systems in today's competitive business environment.
CO2	Define an information system from both a technical and business perspective and distinguish between computer literacy and information systems literacy.
CO3	Assess the relationship between the digital firm, electronic commerce, electronic business and internet technology.
CO4	Identfy the major management challenges to building and using information systems in organizations
CO5	Interpret information systems in the enterprise, identify managerial riskes related to information system organization processing and utilizing.
CO6	Analyze the role played by the six major types of information systems in organizations and their relationship to each other.

COURSE OUTCOMES

Program **: MBA**	Course **: (Rural Development**)
Class **: MBA I Sem**	

Course Objective: To outline the main opportunities and constraints relating to the development of rural economies and the reduction of rural poverty.

CO's	Course Outcomes
CO1	To develop an orientation towards business etiquettes and the proper etiquette practices for different business scenarios.
CO2	To learn the etiquette requirements for meetings, entertaining, telephone, and Internet business interaction scenarios.
CO3	To minimize nervousness while in social situations. Student will.
CO4	Learn the etiquette requirements for meetings, entertaining, telephone and Internet business interaction scenarios.
CO5	Show minimize nervousness while in social situations.
CO6	Adapt business etiquettes practices for different business scenarios.

COURSE OUTCOMES

Program **: MBA**	Course**: (Perspectives of Management**)
Class **: MBA I Sem**	

Course Objective: To impart basic understanding about management concepts as well as of human in various managerial processes in organization and enhance managerial capabilities of students and enable them to apply them in practice

CO's	Course Outcomes
CO1	Understand the various approaches to management.
CO2	Define the multiple perspectives of empirical understanding of various organizational processes.
CO3	analyze the roles and functions of managers at various levels.
CO4	Understands the concept of Consumer Search and Resource Discovery, - Online Marketing and e-Supply Chain Management.
CO5	Evaluate various approaches to handling crisis in organizations and study their outcome
CO6	Create approaches to apply various business strategies.

COURSE OUTCOMES

Program : **MBA**	Course : **(Marketing Management**)
Class : **MBA II Sem**	

Course Objectives: To facilitate understanding of conceptual framework of marketing and its application in decision making in the light of environmental constraints. Assess market opportunities by analysing customers, competitors, collaborators, context, and the strengths and weaknesses of a company.

CO's	Course Outcomes
CO1	To introduce the concept of Marketing Mix as a framework for Marketing Decision making.
CO2	To emphasize the need, importance and process of Marketing Planning and Control.
CO3	To sensitize the students to the dynamic nature of Marketing Function. Also relate Marketing Mix as a framework for Marketing Decision making
CO4	Understand the need, importance and process of Marketing Planning and Control.
CO5	Learn and examine the students to the dynamic nature of Marketing Function.
CO6	Acquire an understanding of fundamental concepts of Marketing.

COURSE OUTCOMES

Program **: MBA**	Course **: (Financial Management**)
Class **: MBA II Sem**	

Course Objectives: To provide students with theoretical background and the quantitative tools to make sound financial decisions in managerial roles leading to the maximization of the value of the firm.

CO's	Course Outcomes
CO1	To understand various concepts related to financial management
CO2	Describe in detail, various tools and techniques in the area of finance.
CO3	To develop the analytical skills this would facilitate the decision making in Business situations.
CO4	Understand various concepts related to financial management.
CO5	Able to use various tools and techniques in the area of finance.
CO6	Develop analytical skills this which facilitate the decision making in Business situations.

COURSE OUTCOMES

Program : **MBA**	Course : (**Human resource**
Class : **MBA II Sem**	**Management**)

Course Objective: Develop the student's ability to think critically and analyze opportunities to improve organizational performance through human resources management. Provide the student with analytical skills to utilize Human Resources metrics and technological applications to enhance the effectiveness of recruitment, training, development and retention of human resources.

CO's	Course Outcomes
CO1	Understand the role of HRM in an organization.
CO2	To learn to gain competitive advantage through people.
CO3	Define and design HRM system.
CO4	Demonstrate the role of HRM in an organization.
CO5	Utilize the knowledge to gain competitive advantage through people.
CO6	Develop and Design HRM system.

COURSE OUTCOMES

Program **: MBA**	Course **: (Research Methodology**)
Class **: MBA II Sem**	

Course Objective: The objective of the course is to develop orientation of research among students and enable them to do systematic and scientific research with the help of statistical tools.

CO's	Course Outcomes
CO1	Understand the application of Operation Research in business.
CO2	Evaluate the project management techniques by creating queue mode Business Research Methods
CO3	Remember the nature and classification of research design and the types of research
CO4	Understand history of research, types of research and Apply research methods in social and business sciences
CO5	Analyze sampling concept and concepts of testing hypothesis such as chi square, ANOVA, factorial design and learn to apply it.
CO6	Evaluate the data - uses, advantages, disadvantages, types and sources and types of measurement scales and create skillful research reports

COURSE OUTCOMES

Program **: MBA**	Course **: (Production Management**)
Class **: MBA II Sem**	

Course Objective: To teach students the concept and scope of Production Management, To understand the production planning process. To learn techniques for effective production management

CO's	Course Outcomes
CO1	Define the concepts of product life cycle and product portfolio.
CO2	Understand the process of New Product Development and handling it for extending its life cycle.
CO3	Apply practical branding strategies to tackle key issues in product and brand management.
CO4	Analyze key issues in product and brand management.
CO5	Evaluate brand equity as a concept and create measures to enhance the brand equity.
CO6	To understand the production planning process. To learn techniques for effective production management.

COURSE OUTCOMES

Program **: MBA**	Course **: (Disaster Perspectives**)
Class **: MBA II Sem**	

Course Objective: : To orient students about various natural and manmade disasters &To teach the concept of Disaster Perspectives and measures to be taken at different stages of disaster perspectives &To provide insight about global, national and regional level scenario of disaster perspectives.

CO's	Course Outcomes
CO1	Explain disaster management theory (cycle, phases, risk, crisis, emergency, disasters, resilience).
CO2	Compare hazards, disasters and associated natural phenomena and their interrelationships, causes and their effects - developing humanitarian Assistance before and after disaster.
CO3	Compare anthropogenic hazards, disasters and associated activities and their interrelationships of the subsystems - Green House Effect, Global warming, Causes and their effects and development of humanitarian assistance before and after disaster.
CO4	Apply knowledge about existing global frameworks and existing agreements and role of community in successful Disaster Risk Reduction.
CO5	Evaluate DM study including data search, analysis and presentation as a case study.
CO6	Create Technological innovations in Disaster Risk Reduction: Advantages and problems.

COURSE OUTCOMES

Program : **MBA**	Course : (**Management of Creativity**
Class : **MBA II Sem**	**and Innovation**)

Course Objective: To help students reflect on their own level of creativity and develop and innovative mindset, also create awareness of those factors, characteristics and procedures that make individuals and organizations creative and innovative.

CO's	Course Outcomes
CO1	Understand the design process as a strategic tool for innovation.
CO2	Understand the sequential steps that involves the development of products, services, and Interactions.
CO3	Develop a holistic and systemic approach to problem solving.
CO4	Develop a holistic and systemic approach to problem solving.
CO5	Observe, identify and discriminate the variables involved in a problematic. Organize and plan the steps or procedure to develop a solution
CO6	Identify and define the key components a of a product system.

COURSE OUTCOMES

Program **: MBA**	Course **: (E-Business)**
Class **: MBA II Sem**	

Course Objectives: This paper would help the students to understand modern business techniques and business automation in addition to the internet usage for the same.

CO's	Course Outcomes
CO1	Understand the basic concepts of E-business.
CO2	Demonstrate a retailing in E-business and E-commerce by using the effectiveness of market research
CO3	Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra organizational.
CO4	Describe about Consumer Search and Resource Discovery.
CO5	Describe the key features of Internet, Intranets and Extranets and explain how they relate to each other.
CO6	Understand about the frame Work and Media Coverage also Describe about the anatomy of e-business applications.

COURSE OUTCOMES

Program **: MBA**	Course **: (Quality Management)**
Class **: MBA II Sem**	

Course Objectives: To give the broad over view of quality and understand the changing role of quality manager. To know the impact of quality on organization performance.

CO's	Course Outcomes
CO1	To give various perspectives on Quality and various contributors to Quality.
CO2	Define various perspectives on Quality and various contributors.
CO3	To provide an in-depth understanding of the various QC tools.
CO4	To introduce the frameworks of Global Quality Awards to Quality.
CO5	Analyze e-impact of quality on organization performance.
CO6	Discuss the frameworks of Global Quality Awards and identify quality management tools and techniques.

COURSE OUTCOMES

Program **: MBA**	Course **: (Business Process**
Class **: MBA II Sem**	**Engineering)**

Course Objectives: To develop an understanding of the structure and role of business process engineering.

CO's	Course Outcomes
CO1	Explain how organizational performance in terms of efficiency and effectiveness can be improved through BPE.
CO2	Introduce BPE as a change management tool.
CO3	Explore and master the fundamental principles of BPE.
CO4	To provide a practical framework and management techniques needed for implementation of BPE.
CO5	Explain how organizational performance in terms of efficiency and effectiveness can be improved through BPE.
CO6	Explore and master the fundamental principles of BPR. and provide a practical framework and management techniques needed for implementation of BPE.

COURSE OUTCOMES

Program : **MBA**	Course : **(Water Management)**
Class : **MBA II Sem**	

Course Objectives: To impart knowledge of planning and managing surface water resources at project and regional levels.

CO's	Course Outcomes
CO1	Describe various components of hydrologic cycle that affect the movement of water in the earth and Various Stream flow measurements technique.
CO2	The concepts of movement of ground water beneath the earth.
CO3	Analise the basic requirements of irrigation and various irrigation techniques, requirements of the crops.
CO4	Distribution systems for canal irrigation and the basics of design of unlined and lined irrigation canals design
CO5	Define Basic components of river Training works
CO6	Apply math, science, and technology in the field of water resource management.

COURSE OUTCOMES

Program **: MBA**	Course **: (Entrepreneurial Skills)**
Class **: MBA II Sem**	

Course Objectives: Student should be able To know the Concept of an entrepreneur, To aware about Innovation & Creativity, To study the cases of successful entrepreneurs.

CO's	Course Outcomes
CO1	The concepts of Entrepreneurship and build an understanding about business situations in which entrepreneurs act Learners will pick up about Foundation of Entrepreneurship Development and its theories.
CO2	Analyse the various aspects, scope and challenges under an entrepreneurial venture Learners will explore entrepreneurial skills and management function of a company with special reference to SME sector.
CO3	To explain classification and types of entrepreneurs and the process of entrepreneurial project development.
CO4	To discuss the steps in venture development and new trends in entrepreneurship.
CO5	Understand various steps involved in starting a venture and to explore marketing methods & new trends in entrepreneurship.
CO6	Identify the type of entrepreneur and the steps involved in an entrepreneurial venture.

COURSE OUTCOMES

Program **: MBA**	Course **: (Business Environment)**
Class **: MBA II Sem**	

Course Objectives: Identify the Micro and macro-Environmental factors influencing Business decisions. Examine the implications of Economic variables in business decision making. Evaluate the implication of Global Environment variables in the Indian Economy.

CO's	Course Outcomes
CO1	Acquainted with business objectives, dynamics of business and environment, various types of business environment and its analysis.
CO2	Describe various concepts like business ethics, ethical dilemmas, corporate culture and ethical climate. They would also be acquainted about development of various acts applicable to business in India.
CO3	Discuss Corporate Social Responsibility, Corporate Governance and Social Audit.
CO4	Define various strategies of Global Trade. They would also discuss Foreign Trade in India, Foreign Direct Investments and its implications on Indian Industries.
CO5	Evaluate business and its environment.
CO6	Examine and evaluate business in International Environment.

COURSE OUTCOMES

Program **: MBA**	Course **: (Stress Management and**
Class **: MBA II Sem**	**Human Values)**

Course Objectives: The basic aim of this course is to develop basic understanding stress of stress management and factors affecting business, to acquaint the students to the emerging new techniques of stress management & their coping methods. Also this course helps to inculcate the basic human values amongst students.

CO's	Course Outcomes
CO1	Identify the best approach to a stressful situation (Alter, Avoid, or Accept). Understand and analyse the essentials of human values and skills, self-exploration, happiness and prosperity.
CO2	Understand what lifestyle elements you can change to reduce stress. Evaluate coexistence of the "I" with the body
CO3	Identify and evaluate the role of harmony in family, society and universal order and describe routines to reduce stress.
CO4	Understand and associate the holistic perception of harmony at all levels of existence define environmental and physical relaxation techniques
CO5	Use a stress log to identify stressors and create a plan to reduce or eliminate them
CO6	Develop appropriate technologies and management patterns to create harmony in professional and personal lives.

COURSE OUTCOMES

Program **: MBA**	Course **: (Business Policy and Strategic**
Class **: MBA III Sem**	**Management)**

Course Objectives: The objective of the course is to equip the students with analytical tools for scanning the business environment in the dynamic era.

CO's	Course Outcomes
CO1	An opportunity to develop skills for strategic thinking and analysis, leadership, communication, teamwork, and cross-functional integration.
CO2	Critically Analyse the internal and external environments in which businesses operate and assess their significance for strategic planning.
CO3	Apply understanding for the theories, concepts and tools that support strategic management in organizations
CO4	Build understanding of the nature and dynamics of strategy formulation and implementation processes at corporate and business level. Enhanced ability to identify strategic issues and design appropriate courses of action.
CO5	Define various perspectives and concepts in the field of Strategic Management, develop skills for applying these concepts to the solution of business problems.
CO6	Create mastery in analytical tools of strategic management. Master the analytical tools of strategic management. Develop skills for applying these concepts to the solution of business problem

COURSE OUTCOMES

Program **: MBA**	Course **: (Productivity and Quality**
Class **: MBA III Sem**	**Management**)

Course Objectives: The Productivity & Quality Management course provides students with the knowledge and techniques required to improve product quality and process efficiency by identifying and measuring production process variability which, if not successfully addressed, leads to inconsistent product quality, costly wastage, non-standardization and other reliability and productivity problems.

CO's	Course Outcomes
CO1	Knowledge and techniques required to improve product quality and process efficiency by identifying and measuring production process variability.
CO2	Identify ethical and unethical behavior in Quality Management. To give various perspectives on Quality and various contributors to Quality
CO3	provide an in-depth understanding of the various QC tools
CO4	Introduce the frameworks of Global Quality Awards to Quality and Diagnose problems in the quality improvement process.
CO5	Analyze an in-depth understanding of the various QC tools
CO6	Discuss the frameworks of Global Quality Awards

COURSE OUTCOMES

Program **: MBA**	Course **: (Entrepreneurship**
Class **: MBA III Sem**	**Development)**

Course Objectives: To develop entrepreneurial abilities by providing background information about support systems, skill sets, financial and risk covering institutions and other for building an enterprise so that future budding entrepreneurs can make right decisions for starting and running a venture.

CO's	Course Outcomes
CO1	Explain concepts of Entrepreneurship and build an understanding about business situations in which entrepreneurs act Learners will pick up about Foundation of Entrepreneurship Development and its theories.
CO2	Analyse the various aspects, scope and challenges under an entrepreneurial venture.
CO3	explain classification and types of entrepreneurs and the process of entrepreneurial project development. Identify the type of entrepreneur and the steps involved in an entrepreneurial venture
CO4	discuss the steps in venture development and new trends in entrepreneurship.
CO5	understand various steps involved in starting a venture and to explore marketing methods & new trends in entrepreneurship
CO6	Explore entrepreneurial skills and management function of a company with special reference to SME sector

COURSE OUTCOMES

Program : **MBA**	Course : **(International Business**
Class : **MBA III Sem**	**Management)**

Course Objectives: The aim of this course is to enable the students learn nature, scope and structure of International Business, and understand the influence of various environmental factors on international business operations. This course will also provide students with the knowledge, skills, and abilities to understand the global economic, political, cultural and social environment within which firms operate.

CO's	Course Outcomes
CO1	Understand deep current issues in International Trade and the nature scope and structure of International Business
CO2	To understand deep current issue in International Trade and Conduct an environmental scan to evaluate the impact of world issues on an organization's international business opportunities.
CO3	Analyze diversity of issues in the international economy. Conduct, evaluate and present market research to support an organization's international business decision-making.
CO4	Use economic tools to analyze diversity of issues in the international economy Manage the preparation of documents and the application of procedures to support the movement of products and services in the organization's global supply chain.
CO5	Define various policy perspective in international regulatory environment. understand the influence of various environmental factors on international business operations.
CO6	Develop and implement strategies to negotiate effectively within various cultural environments and to address the impact of cultural differences on an organization's integrative trade initiatives.

COURSE OUTCOMES

Program **: MBA**	Course **: (Management Information**
Class **: MBA III Sem**	**System)**

Course Objectives: To develop an understanding of the structure and role of management information systems in Business.

CO's	Course Outcomes
CO1	Develop conceptual understanding about latest developments in the field of Information Technology and the impact of I.T. in managing a business.
CO2	Learn to use Information Technology to gain competitive advantage in business.
CO3	Analyze how information technology impacts a firm. To emulate, entrepreneurial ventures in eCommerce and m-Commerce.
CO4	Record the current issues of information technology and relate those issues to the firm
CO5	Reproduce a working knowledge of concepts and terminology related to information technology.
CO6	Describe the role of information technology and information system in business.

COURSE OUTCOMES

Program **: MBA**	Course **: (Operation Research)**
Class **: MBA III Sem**	

Course Objectives: The objective of the course is to equip the candidate with basic quantitative tools and develop techniques of operations research required to perform the role as a manager.

CO's	Course Outcomes
CO1	Define linear programming problems using appropriate techniques and optimization solvers, interpret the results obtained.
CO2	Determine optimal strategy for Minimization of Cost of shipping of products from source to Destination/ Maximization of profits of shipping products using various methods.
CO3	Finding initial basic feasible and optimal solution of the Transportation problems.
CO4	Optimize the allocation of resources to Demand points in the best possible way using various techniques and minimize the cost or time of completion of number of jobs by number of persons.
CO5	Model competitive real-world phenomena using concepts from game theory. Analyse pure and mixed strategy games.
CO6	Formulate Network models for service and manufacturing systems, and apply operations research techniques and algorithms to solve these Network problems.

COURSE OUTCOMES

Program **: MBA**	Course **: (Project Management)**
Class **: MBA III Sem**	

Course Objectives: The course is intended to develop the knowledge of the students in the management of projects, special emphasis will be provided on project formulation as also on various tools and techniques for project appraisal and control so that they are able to draft the project proposal in any area of management and evaluate the worth of projects.

CO's	Course Outcomes
CO1	Provide the holistic, integrative view of Project Management. special emphasis will be provided on project formulation as also on various tools and techniques for project appraisal and control.
CO2	To describes the role of projects in modern day business organizations.
CO3	Sensitize to complexities of project management.
CO4	Highlight the role of projects in modern day business organizations.
CO5	Learn to identify, plan, implement and control a project.
CO6	Apply ethical standards of conduct in the collection and evaluation of data and other resources.

COURSE OUTCOMES

Program **: MBA**	Course **: (Digital Marketing)**
Class **: MBA III Sem**	

Course Objectives: The basic aim of this course is to make the learner aware about the concept of digital marketing and its uses in business operations.

CO's	Course Outcomes
CO1	Analyse the confluence of marketing, operations, and human resources in real-time delivery
CO2	Investigate and evaluate issues in adapting to globalised markets that are constantly changing and increasingly networked.
CO3	Explain emerging trends in digital marketing and critically assess the use of digital marketing tools by applying relevant marketing theories and frameworks.
CO4	Demonstrate cognitive knowledge of the skills required in conducting online research and research on online markets, as well as in identifying, assessing and selecting digital market opportunities.
CO5	Interpret the traditional marketing mix within the context of a changing and extended range of digital strategies and tactics.
CO6	Comprehend the importance of conversion and working with digital relationship marketing; and Analyse cross-cultural and ethical issues in globalised digital markets.

COURSE OUTCOMES

Program **: MBA**	Course **: (Personality Development)**
Class **: MBA III Sem**	

Course Objectives: The basic aim of this course is to develop the personality of the students with proper understanding with different dimensions of personality development.

CO's	Course Outcomes
CO1	Develop an orientation towards business etiquettes and the proper etiquette practices for different business scenarios.
CO2	To Define and learn the etiquette requirements for meetings, entertaining, telephone, and Internet business interaction scenarios.
CO3	Adapt business etiquettes practices for different business scenarios.
CO4	Learn the etiquette requirements for meetings, entertaining, telephone and Internet business interaction scenarios
CO5	Understand types of personalities, laws of personality development, personality traits, developing effective habits, emotional intelligence, influence of thoughts, character, mannerism and etiquettes.
CO6	Describes Biological, Physical and religious aspects of Personality development.

COURSE OUTCOMES

Program **: MBA**	Course **: (Consumer Behavior and**
Class **: MBA III Sem**	**Marketing research)**

Course Objectives: To make students aware about nature and significance of marketing research and enable them to apply relevant and appropriate techniques of marketing research in an effective manner.

CO's	Course Outcomes
CO1	To highlight the importance of understanding consumer behavior in Marketing. And To understand consumer behavior in Indian context. Examine the consumer decision-making process.
CO2	Define the conception of consumer behavior and reveal its importance in the context of marketing and study the environmental and individual influences on consumers.
CO3	Identify factors that influence consumer behavior also Describe the target market and determine the positioning strategy according to consumer characteristics and behavior.
CO4	Understanding of marketing research from both user's (management) and doer's (the researchers) perspective and design and produce, evaluate a research proposal & understand the quality of research studies.
CO5	The basic skills to conduct professional marketing research, understand the applications of business research tools in Marketing decision making Student will1
CO6	Analyze marketing research from both user's (management) and doer's (the researcher's) perspective. Develop and produce, evaluate a research proposal & understand the quality of research studies

COURSE OUTCOMES

Program : **MBA**	Course : **(Integrating Marketing Communications)**
Class : **MBA III Sem**	

Course Objectives: To provide an insight in the area of Advertising, sales and distribution management for developing career in the field.

CO's	Course Outcomes
CO1	Define an overview of the range of tools available for Marketing Communications. To provide an understanding of the basic principles of planning and execution in Marketing Communications.
CO2	To acquaint the students with concepts and techniques in the application for developing and designing an effective advertising and sales promotion program.
CO3	To sensitize students to the various facets of advertising, public relation and promotion management. And Understand a managerial perspective and an informed decision-making ability for effective and efficient tackling of promotional situations.
CO4	To develop a managerial perspective and an informed decision-making ability for effective and efficient tackling of promotional situations. Student will1. Relate the role of marketing strategy in achieving a firm's goals.
CO5	Understand the concept and sources of competitive advantage. 3. Define and apply commonly used Promotion and IMC terms, concepts and tools.
CO6	Explain the role, scope, and importance of an integrated marketing communications (IMC) strategy for organizational and business success.

COURSE OUTCOMES

Program **: MBA**	Course **: (Rural Marketing)**
Class **: MBA III Sem**	

Course Objectives: The objective of the course is to provide conceptual understanding on rural and Agricultural marketing with special reference to Indian context and develop skills required for planning of rural and Agricultural marketing.

CO's	Course Outcomes
CO1	Develop understanding of issues in rural markets and provide an overview of marketing environment, consumer behavior.
CO2	Categorize issues in rural markets. And explore the students to the Special Areas in Rural Marketing Environment.
CO3	Analyse marketing environment, consumer behavior, distribution channels, marketing strategies, etc. in the context of rural markets in India.
CO4	Understand opportunities and emerging challenges in the upcoming rural markets.
CO5	Explore the Special Areas in Rural Marketing Environment.
CO6	Understand opportunities and emerging challenges in the upcoming rural markets.

COURSE OUTCOMES

Program : **MBA**	Course : **(Investment Management)**
Class : **MBA III Sem**	

Course Objectives: To enable the candidates to understand the securities market, to develop the analytical skills to evaluate the securities on the basis of risk and returns and to construct, evaluate and manage the portfolios.

CO's	Course Outcomes
CO1	Understand different investment alternatives in the market.
CO2	Understand how securities are traded in the market. Exhibit the acquaintance of the securities market and its constituents
CO3	Analyze price different securities and Understand basics in derivatives. Practice the tools and techniques of individual securities and portfolio analysis.
CO4	Basic understanding of various investment alternatives and how to value those investments.
CO5	Analyze and apply models to securities performance and forecasting.
CO6	Apply knowledge gained to perform analysis of various securities.

COURSE OUTCOMES

Program **: MBA**	Course **: (Strategic Financial**
Class **: MBA III Sem**	**Management)**

Course Objectives: The objective of the course is to make candidate aware of the strategic decisions to be undertaken to familiarize with finance function.

CO's	Course Outcomes
CO1	Define the needs of current market scenario and upgrade the learner's skills and knowledge for long term sustainability Learners will recognize the current market scenario and upgrade the skills and knowledge of long-term sustainability
CO2	The changing scenario in Banking Sector Learners will absorb changing scenario in Banking Sector and provide guidance towards choosing banking as a career option and also study made on financial management in banking sector.
CO3	To acquaint learners with contemporary issues related to financial management and the contemporary issues related to financial management.
CO4	Describe the financial management in banking sector and working capital financing.
CO5	Analyse concepts in the field of Strategic Management comprehend nuances of working capital financing in banking sector.
CO6	Develop skills for applying these concepts to the solution of business problems and Create mastery in analytical tools of strategic management.

COURSE OUTCOMES

Program **: MBA**	Course **: (International Financial**
Class **: MBA III Sem**	**Management)**

Course Objectives: The objective of learning this course is to enable the candidates to understand the international finance, currency convertibility and foreign exchange market.

CO's	Course Outcomes
CO1	Define the operations in foreign exchange markets.
CO2	Describes the complexities of managing finance of multinational firm.
CO3	To highlight the importance of the regulatory framework within which international financial transactions can take place, with special reference to India.
CO4	Invent improved solution in complexities of managing finance of multinational firm.
CO5	Importance of regulatory framework within which international financial transactions can take place.
CO6	Understand the international finance, currency convertibility and foreign exchange market.

COURSE OUTCOMES

Program **: MBA**	Course **: (Training and Development)**
Class **: MBA III Sem**	

Course Objectives: This course also deals with the process of training and developing people in organizations. It covers a variety of approaches to instruction and learning and contrasts these with their practical application. It also includes the study of core functions of human resource development and the development of an understanding of workplace competency standards.

CO's	Course Outcomes
CO1	Understand basic concepts associated with learning process, learning theories, training and development
CO2	Understand training needs, identification of training needs, training processes, training methods, and evaluation of training
CO3	Defines Emerging trends in training and development.
CO4	Describe Relevance and usefulness of training expertise in the organizational work environment.
CO5	Provide an in-depth under-standing of the role of training in the HRD
CO6	Analyze the core functions of human resource development and the development of an understanding of workplace competency standards.

COURSE OUTCOMES

Program : **MBA**	Course : **(Leadership Skills And**
Class : **MBA III Sem**	**Change Management)**

Course Objectives: To give students a sound knowledge regarding the role and concepts of organizational change and how management, and in particular the role of leadership in bringing about successful organizational change.

CO's	Course Outcomes
CO1	Demonstrate advanced understanding of principles, concepts, and methods of change management in organizations.
CO2	Understand meaning of change and need for organizational Change and Appraise with the change management process.
CO3	Demonstrate an ability to critically evaluate the role of a leader in change management.
CO4	Evaluate change management plans in different business environments.
CO5	apply analytical frameworks to make decisions in complex and unpredictable situations and environments.
CO6	Demonstrate an ability to work pro-actively with others to formulate solutions, Effectively communicate their conclusions, and the thinking underlying them.

COURSE OUTCOMES

Program **: MBA**	Course **: (Employment Law)**
Class **: MBA III Sem**	

Course Objectives: The purpose of this course is that the students should gain an understanding on the Basic Concept Management of industrial relations & Employment laws. They should be able to deal with the practical problems related to Employment laws in the Indian Legal Scenario.

CO's	Course Outcomes
CO1	Understands the judicial legal process and reasoning. Also important laws governing IR, Create understanding about role of Govt., society and trade union in IR
CO2	Examine fundamental issues of employment law, including: the employment at-will doctrine and its exceptions.
CO3	Defines the various rights, duties and responsibilities employees and employers have towards each other and the general public.
CO4	Describes employment discrimination on the basis of race, color, sex, national origin, religion, disability and age.
CO5	Additional issues may, time willing, include worker protections such as the Family Medical Leave Act, the Fair Labor Standards Act, and Worker's Compensation.
CO6	Analyse tools for further study of employment law.

COURSE OUTCOMES

Program **: MBA**	Course **: (Banking Reforms)**
Class **: MBA III Sem**	

Course Objectives: To study the Overview of Banking Reforms, Banking Regulatory framework, Banking Regulatory framework and General Principles of Secured Advances.

CO's	Course Outcomes
CO1	Understand and remember the basics of banking system and history of banking activities from modern times.
CO2	Understand the various hierarchy levels and functioning of banking which would directly lead to their career development.
CO3	Define the process, systems and procedures of sanctioning credit by various banks based on the regulations
CO4	Knowledge on the latest reforms related to banking law and be conversant with the banking recent developments in the sector.
CO5	Acquire practical skills while considering the qualitative and quantitative aspects of a proposal to take the correct decision for better portfolio building and reduced NPA in a banks book.
CO6	Evolution of Indian Banking Industry in India, Reformatory Phases of Banking in India.

COURSE OUTCOMES

Program **: MBA**	Course **: (Legal Framework of**
Class **: MBA III Sem**	**Banking)**

Course Objectives: To study the Banking Regulation, Laws related to Banking Operations, Control over Organization of Banks, Banking Business Regulations and different act of Banking.

CO's	Course Outcomes
CO1	Identify key legal issues relevant to the selected aspects of the regulation and supervision of banks: bank resolution, safety nets, and crisis management, and how international best practice addresses those issues.
CO2	Develop an understanding of emerging legal developments in relation to the regulation and supervision of financial sector, such as climate change, fintech, e-money
CO3	Identify legal design approaches that have proven effective in key areas and emerging topics covered by the course, based on cross-jurisdictional experiences shared by presenters and fellow participants.
CO4	Analyse and assess domestic financial sector legislation against international good practices on themes and emerging legal developments covered during the course.
CO5	Develop and formulate recommendations, and engage with stakeholders on how to modify the aspects of financial sector legislation discussed in the course through law reform to align it to international good practices.
CO6	Analyse key issues related to the institutional and legal infrastructure necessary to support sound regulation and supervision of banks, bank resolution, safety nets, and crisis management, while taking into account emerging legal developments relevant to financial sector, such as fintech and climate change.

COURSE OUTCOMES

Program **: MBA**	Course **: (Banking Operations)**
Class **: MBA III Sem**	

Course Objectives: he objective of this course is to prepare the students to acquire required knowledge and skills for practical banking operations.

CO's	Course Outcomes
CO1	To understand the basics of Banking and the emergence of Banking in India. And to get acquainted with the functionality of the Banks
CO2	Know the meaning and use of commonly used technologies in Banking. The procedural compliances by bank's functionality
CO3	Understand the basics of Banking and the emergence of Banking in India. the lending and borrowing rates along with the various mandatory reserves
CO4	Describes the meaning and use of commonly used technologies in Banking also get acquainted with the functionality of the Banks.
CO5	acquainted with the changed role of Banking post 1991 Reforms and know the lending and borrowing rates along with the various mandatory reserves.
CO6	Define the procedural compliances by bank's functionality and role of Banking post 1991 Reforms.

COURSE OUTCOMES

Program **: MBA**	Course **: (Management of Quality in**
Class **: MBA III Sem**	**Hospitals)**

Course Objectives: To improve the knowledge of quality and develop their skills in implementation of Sustainable Quality Assurance Management in the Health Systems and Hospitals.

CO's	Course Outcomes
CO1	Define various perspectives on Quality and various contributors to Quality. Also introduce the frameworks of Global Quality Awards to Quality.
CO2	Describes various perspectives on Quality and various contributors.
CO3	Provide an in-depth understanding of the various QC tools.
CO4	Analyze an in-depth understanding of the various QC tools. 3. Discuss the frameworks of Global Quality Awards.
CO5	The basic concepts of **quality management** from design assurance to service assurance.
CO6	To get knowledge about the concepts like craftsmanship, six sigma, Florence nightingale model for **quality** in **hospitals** Understand about the **quality** checks, bench marks in various departments in **hospitals.**

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COURSE OUTCOMES

Program **: MBA**	Course **: (Human Resource**
Class **: MBA III Sem**	**Management in Hospitals)**

Course Objectives: To build knowledge and skills to facilitate high performance as effective professionals in health and hospital systems, both in the public and private sectors.

CO's	Course Outcomes
CO1	Aware of the role, functions and functioning of **human resource** department of the organizations.
CO2	Design and formulate various **HRM** processes such as Recruitment, Selection, Training, Development, Performance appraisals and reward Systems, Compensation Plans and Ethical Behavior,
CO3	Define the health care system from a global perspective and the importance of human resources management (HRM) in improving overall patient health outcomes and delivery of health care services.
CO4	Describes the human resources management is essential to any health care system and how it can improve health care models.
CO5	Analyze the deeper understanding of the practical and crucial role of human resources management in health care
CO6	Define and overcome problems through the proper implementation of human resources management practices. Comparing and contrasting selected countries allowed.

COURSE OUTCOMES

Program **: MBA**	Course **: (Customer Relationship**
Class **: MBA III Sem**	**Management)**

Course Objectives: Customer relationship management is a process in which a business or other organization administers its interactions with customers, typically using data analysis to study large amounts of information.

CO's	Course Outcomes
CO1	To introduce the core concepts of CRM paradigm and to emphasize CRM as a business strategy.
CO2	Define the role of appropriate business process and technology management capabilities in managing customer relationships
CO3	Understand the core concepts of CRM paradigm also Know CRM as a business strategy.
CO4	Describe the role of appropriate business process and technology management capabilities in managing customer relationships
CO5	Understand the organizational context of CRM.
CO6	Analyze the expectations of customers and know how to translate this knowledge into genuine value for customers

COURSE OUTCOMES

Program : **MBA**	Course : **(Tourism Marketing)**
Class : **MBA III Sem**	

Course Objectives: Understand the role of marketing in tourism and hospitality. Identify market segment opportunities and targeting Understand and use marketing mix strategies for the tourism and hospitality product.

CO's	Course Outcomes
CO1	Define contextualize tourism within broader cultural, environmental, political and economic dimensions of society.
CO2	Describe tourism practices for their implications locally and globally.
CO3	Interpret and evaluate tourism as a phenomenon and as a business system. Identify and assess relationships and networks relative to building tourism capacity.
CO4	Explain the diverse nature of tourism, including culture and place, global/local perspectives, and experience design and provision.
CO5	Apply relevant technology for the production and management of tourism experiences. Plan, lead, organize and control resources for effective and efficient tourism operations.
CO6	Demonstrate commitment to ethical practices of tourism. Actively engage in the world as global citizens.

COURSE OUTCOMES

Program **: MBA**	Course **: (Tourism: Planning and**
Class **: MBA III Sem**	**development)**

Course Objectives: Aims to make students more aware of the potential for tourism as a medium for economic development. This course collectively addresses the numerous components as it relates increasing livelihoods, developing businesses and creating resilient communities.

CO's	Course Outcomes
CO1	**Apply relevant technology for the production and management of tourism experiences.**
CO2	**Plan, lead, organize and control resources for effective and efficient tourism operations.**
CO3	**Create, apply, and evaluate marketing strategies for tourism destinations and organizations.**
CO4	**Develop and evaluate tourism policy and planning initiatives.**
CO5	Define he fundamentals of tourism and hospitality planning also Politics in tourism and hospitality planning
CO6	Analyze Community and state and national levels of tourism and hospitality planning and organizational structures. Environmental and socio-cultural impacts of tourism and hospitality planning.

COURSE OUTCOMES

Program **: MBA**	Course **: (Hospitality Management)**
Class **: MBA III Sem**	

Course Objectives: Understanding and knowledge of the nature of hospitality, and the organizations, management and impacts associated with the provision and consumption of hospitality and tourism in a contemporary global environment.

CO's	Course Outcomes
CO1	Identify and apply business concepts and skills relevant to the operational areas of hospitality management.
CO2	Describe and apply the fundamental principles of leadership and model the behaviour of effective leaders.
CO3	Describe and demonstrate effective communication skills.
CO4	Analyse information and make decisions using critical thinking and problem-solving skills.
CO5	Evaluate diversity and ethical considerations relevant to the hospitality industry
CO6	To analyze the factors affecting employability and to develop the ability to design best strategy.

COURSE OUTCOMES

Program **: MBA**	Course **: (Management of**
Class **: MBA III Sem**	**Manufacturing System)**

Course Objectives: The functional area of production and operations management in the manufacturing industry. This course focuses on the role of operations management as a strategic element of the total organization

CO's	Course Outcomes
CO1	An understanding of the dynamics of different manufacturing systems and modelling these with a view to optimize performance.
CO2	An insight into the interrelationships between different functional areas of a factory and how these can be managed to enhance performance.
CO3	Analyse the appreciation of the research methods applicable to manufacturing environments and their use to achieve key performance parameters.
CO4	An understanding of how management of supply chains impact on service effectiveness and inventory efficiency also understanding of different approaches to manufacturing strategy formulation.
CO5	Describe how strategic supply chain management can profitably link international supply chains
CO6	Analyse grasp of the application methods of basic project management techniques to manufacturing environments

COURSE OUTCOMES

Program **: MBA** Class **: MBA III Sem**	Course **: (Stores and Inventory Management)**

Course Objectives: To enable students about various activities of stores and inventory management. provide uninterrupted services or materials to the production department.

CO's	Course Outcomes
CO1	Understand the importance of inventory and its role in service delivery
CO2	Understand the value chain in inventory management Apply best practices to optimize investments in inventory
CO3	Examine the most appropriate method for managing an item also examine appropriate inventory management techniques for each type of item
CO4	Analyze activities scheduled and corresponding resources allocated, Assess compliance to regulatory requirements
CO5	Generate business for the organization and manage relationships with stakeholders including clients, customs, PGAs etc.
CO6	Analyze operational and business performance to undertake improvement initiatives Manage business profitably by analyzing profit and loss and undertaking operations improvement initiatives.

COURSE OUTCOMES

Program **: MBA**	Course **: (Supply Chain Management)**
Class **: MBA III Sem**	

Course Objectives: To enable students about various activities of supply chain management.

CO's	Course Outcomes
CO1	To introduce students to the concepts and processes of supply chain management, develop a sound understanding of the important role of supply chain management in today's business environment
CO2	To provide a framework for structuring supply chain drivers; network designs. Develop and utilize critical management skills such as negotiating, working effectively within a diverse business environment, ethical decision making and use of information technology
CO3	To develop an understanding of demand forecasting, inventory planning, sourcing decisions and IT enablement of supply chain
CO4	Become familiar with current supply chain management trends Understand and apply the current supply chain theories, practices and concepts utilizing case problems and problem-based learning situations
CO5	Learn to use and apply computer-based supply chain optimization tools including the use of selected state of the art supply chain software suites currently used in business
CO6	Demonstrate the use of effective written and oral communications, critical thinking, team building and presentation skills as applied to business problems.

SEMISTER – IV

COURSE OUTCOMES

Program **: MBA**	Course **: (Disaster Management)**
Class **: MBA IV Sem**	

Course Objectives: Understand disasters, disaster preparedness and apply the mitigation measures. Understand role of IT, remote sensing, GIS and GPS in risk reduction.

CO's	Course Outcomes
CO1	Define the concept of disaster management theory (cycle, phases, risk, crisis, emergency, disasters, resilience.
CO2	Compare hazards, disasters and associated natural phenomena and their interrelationships, causes and their effects - developing humanitarian Assistance before and after disaster.
CO3	Compare anthropogenic hazards, disasters and associated activities and their interrelationships of the subsystems - Green House Effect, Global warming, Causes and their effects and development of humanitarian assistance before and after disaster
CO4	Apply knowledge about existing global frameworks and existing agreements and role of community in successful Disaster Risk Reduction.
CO5	Evaluate DM study including data search, analysis and presentation as a case study.
CO6	Create Technological innovations in Disaster Risk Reduction: Advantages and problems.

COURSE OUTCOMES

Program **: MBA**	Course **: (Corporate Governance and**
Class **: MBA IV Sem**	**Business Ethics)**

Course Objectives: students should be able to: Understand the importance of ethics and corporate governance in the day-to-day working of organizations Learn the issues involved in maintaining ethics and how to deal with such situations Learn scope of business ethics in Compliance, finance, Human resources, marketing, production.

CO's	Course Outcomes
CO1	Analyze and evaluate the importance of ethics and corporate governance in the day-to-day working of organizations.
CO2	Develop and evaluate a framework for effective corporate governance by understanding the role and responsibility of different stakeholders.
CO3	Examine and distinguish the scope of business ethics in Compliance, finance, Human resources, marketing, production.
CO4	Examine the importance of ethics and corporate governance in the day-to-day working of organizations.
CO5	Analyze and evaluate the issues involved in maintaining ethics/ corporate governance and how to deal with such situations.
CO6	Analyze various Indian and Global scenarios associated with business ethics and corporate governance.

COURSE OUTCOMES

Program **: MBA**	Course **: (Managerial Communication)**
Class **: MBA IV Sem**	

Course Objectives: The objective of this course is to impart communication skills amongst the candidates so that on completion of the course they will be equipped with communication skills.

CO's	Course Outcomes
CO1	Distinguish among various levels of organizational communication and communication barriers while developing an understanding of Communication as a process in an organization.
CO2	Demonstrate knowledge of communication theory and application and respond effectively to cultural communication differences.
CO3	Build and maintain healthy and effective relationships to make effective internal and external business correspondence.
CO4	Correlate verbal and non-verbal communication competence through oral, written, and visual communication for effective presentations.
CO5	To develop skills in applying the learnt concepts to realistic situations in a variety of Workplace environments.
CO6	Utilize technology to communicate effectively in various settings and contexts by appropriate professional behavior.

COURSE OUTCOMES

| Program **: MBA** | Course **: (Product and Brand** |
| Class **: MBA IV Sem** | **Management)** |

Course Objectives: To explore the various issues related to Product & Brand Management and to enhance the understanding and appreciation of this important intangible strategies.

CO's	Course Outcomes
CO1	To introduce different approaches to measuring brand equity. Understand different approaches to measuring brand equity.
CO2	To provide conceptual framework for managing brands strategically, Understand conceptual framework for managing brands strategically.
CO3	To emphasize the role of brands, the concept of brand equity and the advantages of creating strong brands
CO4	Know the role of brands, the concept of brand equity and the advantages of creating strong brands.
CO5	To provide insights into how to create profitable brand strategies by building, measuring and managing brand equity.
CO6	Understand insights into how to create profitable brand strategies by building, measuring and managing brand equity.

COURSE OUTCOMES

Program **: MBA**	Course **: (Industrial Marketing)**
Class **: MBA IV Sem**	

Course Objectives: To explore the various issues related to Product & Brand Management and to enhance the understanding and appreciation of this important intangible strategies

CO's	Course Outcomes
CO1	Understanding business-to-business markets which involves planning, conception, product management, pricing, promotion, distribution, and sales of products from one firm to another firm.
CO2	The concepts through well-crafted modules which include learning about business marketing environment, managing relationships in business marketing, assessing market opportunities, formulating strategies to convert opportunities into sales, and evaluating performance of the strategic decisions.
CO3	Apply key marketing theories, frameworks and tools to solve Marketing problems. .
CO4	Utilise information of a firm's external and internal marketing environment to identify and prioritise appropriate marketing strategies.
CO5	Exercise critical judgement through engagement and reflection with existing marketing literature and new developments in the marketing environment.
CO6	Critically evaluate the marketing function and the role it plays in achieving organisational success both in commercial and non-commercial settings.

COURSE OUTCOMES

Program **: MBA**	Course **: (Service and Relationship Marketing)**
Class **: MBA IV Sem**	

Course Objectives: To acquaint students to uniqueness of services characteristics and its marketing implications also analyze several facets in the area of services marketing essential for success of a service enterprise.

CO's	Course Outcomes
CO1	Understand the cultural aspects of relationships. Display a systematic understanding and critical knowledge of relationship marketing and cross-cultural theories and models.
CO2	Identify and critically analyze the factors and cultural variables influencing relationships, communication and negotiation styles across national borders.
CO3	To emphasize the need for cultural adaptation in relationship development and negotiations.
CO4	Demonstrate an understanding of how to uphold international sales negotiations.
CO5	Demonstrate self-awareness, sensitivity, and openness to diverse people and cultures.
CO6	Analyse an understanding of how to build strategic relationships between customers and suppliers across borders.

COURSE OUTCOMES

Program **: MBA**	Course **: (Retail Management)**
Class **: MBA IV Sem**	

Course Objectives: The purpose of this course is that the students should gain an understanding on Basics of Retailing, Functional aspects of Retailing, Current Trends in Retailing & Application of IT in Retailing.

CO's	Course Outcomes
CO1	Clarify the concept and related terms in retailing. Define retail business and identify its working mechanisms.
CO2	Comprehend the ways retailers use marketing tools and techniques to interact with their customers.
CO3	Define the various constituents of retail strategy, Understand various formats of retail in the industry.
CO4	Recognize and understand the operations-oriented policies, methods, and procedures used by successful retailers in today's global economy.
CO5	Explain the retail business model for brick-and-mortar formats in detail.
CO6	Develop and sustain a competitive advantage in retail sector also Define the practical tools and techniques of retail strategy.

COURSE OUTCOMES

Program **: MBA**	Course **: (Business Taxation)**
Class **: MBA IV Sem**	

Course Objectives: The course aims to develop an understanding of the importance of Tax Planning & Tax Management. Also understand varied concepts such as taxes, filing returns, the concept of goods and service taxes, how the Indian economy functions and what inputs can be provided to upgrade the financial position of a particular company.

CO's	Course Outcomes
CO1	Identify the basic concepts, definitions and terms related to Income Tax also the technical terms related to Income Tax.
CO2	Determine the residential status of an individual and scope of total income.
CO3	Compute income under various heads namely income from salaries, house property, business/ profession, capital gains and income from other sources.
CO4	Describe the various benefits/ deductions under Chapter VIA of the Income tax act, 1961.
CO5	Compute the net total taxable income of an individual.
CO6	Assessment of Companies I and Assessment of Companies II.

COURSE OUTCOMES

Program **: MBA**	Course **: (Behavioral Finance)**
Class **: MBA IV Sem**	

Course Objectives: The course aims to identify persistent or systematic behavioral factors that influence investors and investment decisions and analyses the various behavioral finance factors related to corporate & individual investors.

CO's	Course Outcomes
CO1	Enumerate the key terms associate with behavior finance, investment in financial markets & corporate finance.
CO2	Illustrate the various theories associated with behavior finance and parameters of investing in financial market.
CO3	Identify persistent or systematic behavioral factors that influence investors and investment decisions
CO4	Analyze the various behavioral finance factors related to corporate & individual investors
CO5	Evaluating Interpret various investment strategies of effective investment in the financial market on the basis of various theories and factors of behavioral finance.
CO6	Understanding on the concept of mean reversion and investment style.

COURSE OUTCOMES

Program **: MBA**	Course **: (Personal financial Planning)**
Class **: MBA IV Sem**	

Course Objectives: The course aims to develop an understanding of the importance of personal financial planning & investment management and to enable the students to learn various instruments of personal financial planning.

CO's	Course Outcomes
CO1	Demonstrate understanding of the financial planning process.
CO2	Apply tools and methods in financial planning. Individuals interested in improving their financial planning skills.
CO3	Formulate a financial plan in accordance to given constraints. An in-depth discussion of investing strategies is provided, including various instruments suitable for both savers and investors.
CO4	Describe the types of personalities and their investment profiles along with the various stages in the life cycle of an investor.
CO5	Analyze strategies for reducing tax burden. In the end, it provides valuable information about how to build a model portfolio that suits your risk and return profile.
CO6	Analyse various risks underlying financial plans.

COURSE OUTCOMES

Program **: MBA**	Course **: (Financial Service Management)**
Class **: MBA IV Sem**	

Course Objectives: To focus on research, strategy and application specific to decision making in the highly competitive and rapidly growing services sector.

CO's	Course Outcomes
CO1	Understand the Evolution of Financial Services - Fund based and Non-fund based, Regulatory Framework for Financial Services.
CO2	Understand Marketing of Financial Services, Treasury Management, Asset Liability & Liquidity Management.
CO3	Able to learn Mutual Funds and Merchant Banking, UTI, Schemes, SEBI Guidelines.
CO4	Understand Portfolio Management, Leasing, Hire Purchase, Factoring, Securitization, Venture Capital, Custodial and Depository, Credit rating.
CO5	Explain about Financial Services, Merchant Banking, Mutual Funds, Factoring, Forfeiting, Securitization, Derivatives, housing finance, Consumer Finance, Depositories and Pledge.
CO6	Dvelop a deep understanding about financial system.

COURSE OUTCOMES

Program : **MBA**	Course : **(Understanding Self)**
Class : **MBA IV Sem**	

Course Objectives: The purpose of this course is that the students should gain an understanding on self, his values, beliefs & a vision. This course also focuses on the Selfdisclosure, Self-Management and some Lessons from Ancient Indian Education System.

CO's	Course Outcomes
CO1	Develop understanding about themselves the development of the self as a person and a teacher. Awareness of personal values, beliefs and vision that motivates behavior.
CO2	Define awareness of reciprocal relationship between thoughts, behaviors and emotions. Develop social relational sensitivity and effective communication skills, including the ability to listen
CO3	Understanding self & others through lessons from Indian scriptures, Interpersonal Trust: Openness, confidentiality, blind spot and unknown part of personality. Develop a holistic and integrated understanding of the human self and personality
CO4	Build resilience within to deal with conflicts at different level and learn to create terms to draw upon collective strength
CO5	Describe self-reflection and practicing new behaviors, Emotional intelligence, Stress and health relationship, Meditation and self-introspection. dreams, aspiration, concerns through varied forms of self expression, including poetry and humor
CO6	Self-Management Lessons from Ancient Indian Education System- Indian Ethos and Personality Development.

COURSE OUTCOMES

Program **: MBA**	Course **: (Managing Diversity at**
Class **: MBA IV Sem**	**Workplace)**

Course Objectives: The aim of this subject is to develop students' understanding of the concepts of workplace diversity. In particular the subject is designed to develop the underpinning knowledge and skills required to understand the one of the complex parts of workplace diversity, Social Class in Workplace diversity, disabled workers in workplace diversity and LGBT issue in workplace diversity

CO's	Course Outcomes
CO1	Introduction to management of workplace diversity, Gender issues in Workplace diversity, Age issues in Workplace diversity and generation issues in Workplace diversity
CO2	Define Social Class in Workplace diversity, The impact of culture on workplace diversity.
CO3	Discuss various types of diversities, Management and leadership in workplace diversity, Human Resource management in workplace diversity.
CO4	Analyze the LGBT issue in workplace diversity, HIV/AIDS workers in workplace diversity
CO5	Knowledge a New Paradigms in Workplace diversity and Statistical interpretation in workplace diversity
CO6	Analyze Future of Diversity Management- Work-Life Balance, Intersectionality in the workplace.

COURSE OUTCOMES

Program **: MBA**	Course **: (Compensation Management)**
Class **: MBA IV Sem**	

Course Objectives: The aim of this subject is to develop students' understanding of the concepts of compensation and rewards in the organization. In particular the subject is designed to develop the underpinning knowledge and skills required to understand the one of the complex management functions i.e. compensating employees and its importance.

CO's	Course Outcomes
CO1	Defines the concepts related to human resource accounting & compensation management.
CO2	Learn & apply the concepts related to human resource accounting & compensation management.
CO3	To facilitate learning related to human resource accounting & compensation management for employees.
CO4	Develop human resource accounting & compensation management for employees.
CO5	Describes the HR PROFESSIONAL understand the nuances of the crucial issues in compensation management.
CO6	Analyze the Study various techniques of employee retention Acquaint with various salary structures.

COURSE OUTCOMES

Program **: MBA**	Course **: (Strategic Human Resource Management)**
Class **: MBA IV Sem**	

Course Objectives: To acquaint students with the understanding of various strategies involved in the field of Human Resource Management.

CO's	Course Outcomes
CO1	Understand HR implications of organizational strategies
CO2	Adapt the various terms used to define strategy & its process Utilize HR strategies in Indian & global perspective
CO3	Understand HR strategies in Indian & global perspective
CO4	Defines the Human Resource Strategy Implementation and Human Resource Strategy Evaluation.
CO5	Evaluating strategic contribution of traditional areas such as selection, training, compensation – Evaluating strategic contribution in emerging areas such as management of diversity and quality readiness
CO6	Analyze improving the quality of performance measures - Results oriented vs. Process oriented measures – Individual best practices and systems.

COURSE OUTCOMES

Program **: MBA**	Course **: (Insurance and Risk**
Class **: MBA IV Sem**	**Management)**

Course Objectives: To develop an understanding among students about Identifying and analyzing and managing various types of risk and to understand principles of insurance and its usefulness in business.

CO's	Course Outcomes
CO1	Learn the importance, and have a basic understanding of the types of risk and techniques used to minimize risk and loss.
CO2	Develop and identify analytical skills, by lecture and class discussion to facilitate effective decision-making, including informed decisions.
CO3	Define Identification and measurement of risk; risk evaluation and prediction.
CO4	Describes Risk aversion and demand for insurance by individual; business risk management and demand for insurance.
CO5	Analyze the Insurability of risk contractual provisions and legal doctrines; premium loading; moral hazards; deductibles and claim processing costs; risk retention and transfer; legal aspects of insurance contract; principle of indemnity; estoppels.
CO6	Analyze globalization of insurance sector; regulation of risk reduction by IRDA; reinsurance; coinsurance assignment.

Program **: MBA**	Course **: (Human Capital in Bank Management)**
Class **: MBA IV Sem**	

Course Objectives: Student will be able to Understand the importance of human capital in banks also the link between HCM and business strategy. To enlighten the students with the Concepts and Practice Human capital at banks.

CO's	Course Outcomes
CO1	Understand the nature of banking system in India, Concept of Intellectual capital -Social capital-Organization capital Practical Implications of intellectual capital theory.
CO2	Define the need for privatization of banks, The concept of human capital advantage and resource-based strategy.
CO3	Describes and perform the banking functions and services and the Practice of developing Measures-Human Capital Measurement Models-Human Resource Accounting, HR Scorecard, Workforce Scorecard.
CO4	Analyses the HCM & business strategy he link between HCM & business strategy, HCM and talent management, Performance management and Reward Management and manage the risk management in banks
CO5	Identify the measurement of Human capital's contribution to enterprise goals Human capital value circle.
CO6	Capable of handle the problem and the present status of Non-Performing Assets. Able to cope up with liberalization in financial services.

COURSE OUTCOMES

Program **: MBA**	Course **: (Bank Marketing)**
Class **: MBA IV Sem**	

Course Objectives: To study the required knowledge and skills for Marketing of Banking products and services. The course also looks into various aspects of service quality aspects of Bank Marketing.

CO's	Course Outcomes
CO1	Clarify the role of marketing in bank performance management, Characteristics of Services, Services Marketing
CO2	Identify the core responsibilities typically assigned to marketing, Market Segmentation (banking) and defining Characteristics of Market segment – importance and benefits of Market segmentation to banking sector.
CO3	Understand Customer need analysis and customer care and the user of banking services, the behavioral profile of user, understanding customer need, customer care, Consumer motivation and buying behavior.
CO4	Describes the marketing research and market research – Differences – Contributions of Marketing Research to a bank.
CO5	Analyze the Market information Research and Contributions of Marketing Research to a bank.
CO6	Differentiate the Management Information System and Marketing Research and its need for situation analysis and steps involved in the development of a situation analysis

COURSE OUTCOMES

Program **: MBA**	Course **: (Recent Trends in Banking)**
Class **: MBA IV Sem**	

Course Objectives: Understand the important recent trends in banking system. Students will be able to use e-banking services. Students will be able explain working of RBI in India. Students will be able to provide consultancy and guidance for investment in financial markets.

CO's	Course Outcomes
CO1	Understands the Meaning and Scope of Banking and Different types of Banks in India.
CO2	Define the structure of Banking the Role of Financial System in Economic Development, Capital Markets and Money Markets
CO3	Understands the Role of SEBI & Stock Exchange also the Functions of Stock Exchanges.
CO4	Analyze the historical background of National Bank for Agricultural and Rural Development and its functions.
CO5	Understands the Electronic Banking and IT in Banks its Principles of Lending, IT Application in Banking, Automated Clearing Systems and Electronic Fund Management.
CO6	Analyze the Real Time Gross Settlement (RTGS) – National Electronic Funds Transfer (NEFT) – Automated Teller Machines (ATMs) – Electronic Commerce and Banking – International Payment Systems.

COURSE OUTCOMES

Program **: MBA**	Course **: (Financial Management For**
Class **: MBA IV Sem**	**Hospitals)**

Course Objectives: The objective of this course is acquainting candidates with the accounting tools and techniques of accounting &Utilization of financial and accounting information of planning and decision making helpful for managers.

CO's	Course Outcomes
CO1	Understand Financial Accounting System, financial planning and budgeting in healthcare.
CO2	Understand the fundamentals of financial accounting in healthcare Effectively manage cost and cash flow in the healthcare sector
CO3	Analyse and interpret healthcare financial reports and role of medical insurance, procedure of settlement from insurance companies, consolidation of statement, state run insurance cover.
CO4	Understands the Role of medical insurance, procedure of settlement from insurance companies, consolidation of statement, state run insurance cover.
CO5	Make informed and accurate financial decisions Standard Costing and Variance Analysis, Techniques and Significance, Problems on Computation of material cost and labor cost variances.
CO6	Analysis and interpretation of Financial Statements, types of analysis, advantages of analysis and interpretation. Important Ratio Analysis for hospitals.

COURSE OUTCOMES

Program **: MBA**	Course **: (Marketing of Hospital Services)**
Class **: MBA IV Sem**	

Course Objectives: To study fundamental concepts of marketing and applied to hospital management.

CO's	Course Outcomes
CO1	State the role and functions of marketing within a range of organizations.
CO2	Describe key marketing concepts, theories and techniques for analyzing a variety of marketing situations.
CO3	Identify and demonstrate the dynamic nature of the environment in which marketing Decisions are taken and appreciate the implications for marketing strategy determination and implementation
CO4	Analyze the relevance of marketing concepts and theories in evaluating the impacts of environmental changes on marketing planning, strategies and practices.
CO5	Demonstrate the ability to carry out a research project that explores marketing planning and strategies for a specific marketing situation and Interactive marketing, introduction to business to business marketing, bottom of pyramid marketing.
CO6	Apply the introduced conceptual frameworks, theory and techniques to various marketing contexts of Service Quality Management.

COURSE OUTCOMES

Program **: MBA**	Course **: (Organization and**
Class **: MBA IV Sem**	**Management of Hospitals)**

Course Objectives: Objectives of this course is to introduce formal structure and working of various departments in hospitals.

CO's	Course Outcomes
CO1	Knowledge about the Principles of **Hospital Management** and **Organization and various services provided by hospitals.**
CO2	Understands the importance and different functions of the **Management**. Introduction to various diseases and management procedure, medical terminologies for common procedures, introduction to instruments used in hospitals and their significance.
CO3	Define the concepts of Accidental and emergency services, operation theatre and ICU management, laboratory services, radio diagnosis and imaging services, Pharmacy services.
CO4	Analyze the Nursing services organization and administration, Ward management and nursing care
CO5	Describe the management of housekeeping services, canteen, laundry and other allied services management.
CO6	Enhance patient turnover, patient satisfaction and other efficiency related aspects of hospitals leading to smooth hospital management and organizational decision making.

COURSE OUTCOMES

Program **: MBA**	Course **: (Medical Legal Terminology)**
Class **: MBA IV Sem**	

Course Objectives: The legal and ethical components of medical terminology. Demonstrate the ability to use medical terms in their proper context

CO's	Course Outcomes
CO1	Define the Concept of Establishment, Registration and Regulation of Health Care Organization.
CO2	Understands the Registration and Regulation of Healthcare organization under Maharashtra Private Medical Care Establishment Act 2002.
CO3	Knowledge of Formation of Health care Organization under Partnerships and Corporate basis (private and public) and compliance with Medical Council of India Act.
CO4	Define the Hospitals and Labour Enactments, The Dispute Settlement Mechanism, Arbitration, Conciliations and Adjudication of Disputes.
CO5	Analyze the Hospital Services and Law, Requisites of a valid contract and duties towards patients by medical and Para-medical staff Also the MCI Guidelines,
CO6	Describes the Euthanasia (mercy killing), Diagnosis, prescriptions and administration of drugs.

COURSE OUTCOMES

Program : **MBA**	Course : **(Tourism Products of India)**
Class : **MBA IV Sem**	

Course Objectives: The course aims to study different tourism locations of India and to understand their importance. To understand the Element of Culture Based Tourism

CO's	Course Outcomes
CO1	Know what are Culture Based Tourism Products, Seasonality & Diversities.
CO2	Defines the categories of Culture Based Tourism Products and Performing Arts of India. Indian Music: Different Schools, Status of Indian Vocal & Instrumental Music, Indian Music abroad.
CO3	National Parks & Wildlife Sanctuaries Types of Tourists Who Consume Culture Based Tourism Product.
CO4	Knowledge of Hill Stations, Locations, Accessibility, Facilities, Amenities, Unique Selling Propositions (USP).
CO5	Knowledge of Beach Resorts of India, its Locations, Accessibility, Facilities, Amenities, Unique Selling Propositions (USP).
CO6	Describe the different types tourism resources of India, their importance in tourism and management.

COURSE OUTCOMES

Program **: MBA**	Course **: (Event Management)**
Class **: MBA IV Sem**	

Course Objectives: The course aims to study different event management programs and to prepare event plan and event execution accordingly.

CO's	Course Outcomes
CO1	Explain all the steps of planning and organizing an event. Event Planning Principles and Key Competencies.
CO2	Define plan and organize events, Budgeting Events. Budget Preparation, Estimating fixed & variable cost also the Measures of financial performance
CO3	Understands the Event Operations, Registration. Seating Arrangements, Documentation, Press Relations also the Audio-Visual Arrangements.
CO4	Defines the HR Dimension of Events, Interactions in event service management, event service and programme quality gaps and human resource planning process for events.
CO5	Defines the Marketing Dimension of Events. The marketing mix for events, segment variables and customers decision making process for event
CO6	Demonstrate knowledge and ability to identify risk areas, evaluate safety measures.

COURSE OUTCOMES

Program **: MBA**	Course **: (Travel Agency and Tour**
Class **: MBA IV Sem**	**Operation Management)**

Course Objectives: To impart knowledge of the fundamentals of tourism theory and its application in problem solving.

CO's	Course Outcomes
CO1	Understand concepts and principles of tourism management/business; identify the opportunities in the travel market and manage the challenges ● ●. ● ● ●. ●
CO2	Demonstrate the knowledge of tourism managerial science to solve complex travel and hospitality problems using limited resources. Display enhanced personality and soft skills
CO3	Function effectively as an individual, and as a member or leader in diverse sectors, and in multi-disciplinary settings
CO4	Demonstrate entrepreneurial competencies in tourism industry. Identify tourism business opportunities, destination design and implement innovations in work space
CO5	Exhibit managerial skills in the areas of tourism marketing, hospitality, airline, HR, etc.
CO6	Possess a sturdy foundation for higher education and research in tourism and hospitality.

COURSE OUTCOMES

Program : **MBA**	Course : **(Tourism Ecosystem)**
Class : **MBA IV Sem**	

Course Objectives: The course aims to study different parts of tourism ecosystem.

CO's	Course Outcomes
CO1	Introduction of Travel and Tourism among the learners and to get the knowledge and understanding of the overall phenomena of Travel and Tourism, by defining, understanding meaning, concept and historical developments and introducing various types and forms of Tourism.
CO2	Understand the meaning and typologies of Tourist, definitions and meaning of Traveller, Excursionist, Visitor and Transient. As the tourism is highly seasonal activity so it is very essential to understand the concept of Demand and Supply in Tourism and the factors affecting the same.
CO3	understanding of Tourism Product as product is essential part of any industry
CO4	The emphasis is on defining various features of Tourism Product, its characteristics and its different types and also showcasing the major differences between tourism products and other products
CO5	Nature, Tourism and Geography has a great influence on each other. So it is very essential for the learners to understand the relationship among Nature, Tourism and geographical surroundings by getting knowledge of the Natural Tourism Resources of India including the Great Mountain Ranges of India along with understanding the geographical features of India
CO6	To get the idea of major tourism destinations of the world by understanding the lines of Latitude and Longitude, Various IATA country and city codes of the world and focusing on the practical aspect of the subject by practicing the world map.

COURSE OUTCOMES

Program **: MBA**	Course **: (Sourcing Management)**
Class **: MBA IV Sem**	

Course Objectives: The objective of the course is to equip the candidate with Advance quality tools required to perform the role as a manager. This will enable him to do analytical evaluation and arrive at logical conclusions & inferences to the decisions.

CO's	Course Outcomes
CO1	Defines the concept of Estimating the Requirement, Material Requirement Planning and Techniques of material planning.
CO2	Exploring vendors and ordering requirement and its Role of Purchase department.
CO3	Describes the Vendor relations, evaluation of vendors, managing quality at vendors, inspection, and receipt of material.
CO4	Learn how to select and evaluate suppliers, implement appropriate contracts, and how to mitigate risks.
CO5	Understand various tools and techniques to evaluate supply markets.
CO6	Analyze the government as buyer, tendering process, commercial and technical requirement, purchasing practices in Private organizations,

COURSE OUTCOMES

| Program **: MBA** | Course **: (Advance Operation research)** |
| Class **: MBA IV Sem** | |

Course Objectives: The objective of the course is to develop skills of applying dynamic programming, scheduling and sequencing skills with the help of operational optimization techniques.

CO's	Course Outcomes
CO1	Define Optimization Techniques Model Formulation, models, General L.R Formulation and Simplex Techniques.
CO2	Defines Advanced techniques and Linear Programming Problems, Formulation of a LPP and Graphical solution revised simplex method.
CO3	Describes Nonlinear programming problem: Advanced techniques its Nonlinear programming problem and Kuhn-Tucker conditions min cost flow problem
CO4	Understand the Scheduling and sequencing single server and multiple server models.
CO5	Understand the Operations Models, Competitive Models and Sequencing Models.
CO6	Analyze the dynamic programming to solve problems of discreet and continuous variables and to apply the concept of non-linear programming and sensitivity analysis

COURSE OUTCOMES

Program **: MBA**	Course **: (Total Quality Management)**
Class **: MBA IV Sem**	

Course Objectives: To enhance understanding regarding framework of TQM and allied segments.

CO's	Course Outcomes
CO1	Defines the concepts and framework of TQM and Customer focus, customer orientation, customer satisfaction, customer complaints and customer retention.
CO2	Understand the various perspectives on Quality and various contributors to Quality.
CO3	Knowledge the TQM Principles, Leadership; strategic quality planning; Employee involvement.
CO4	Analyze the control charts – process capability; Concepts of Six Sigma – Quality Function Development
CO5	Analyze an in-depth understanding of the various QC tools The seven traditional tools of quality; New management tools.
CO6	Study the Need for ISO 9000 – ISO 9001-2008 Quality System.

COURSE OUTCOMES

Program **: MBA**	Course **: (Recent Trends in Operation**
Class **: MBA IV Sem**	**Management)**

Course Objectives: Provide the student with analytical skills to utilize operations management metrics and technological applications to enhance the effectiveness of inventory, quality and other aspects of operations management.

CO's	Course Outcomes
CO1	Defines the Just in time- concept, evolution, objective, advantages and its principles.
CO2	Understand the Value Engineering, value analysis input–process–output framework, the extensions of it, and apply them to a wide range of operations
CO3	Examine the types of transformation processes occurring within operations Total quality management, satisfaction and business effectiveness.
CO4	Define the roles and responsibilities of operations managers and the challenges they face Also, the Lean Manufacturing, Pull manufacturing system and lea manufacturing.
CO5	understand the content of an operations strategy and the decisions involved.
CO6	Analyze recent trends in operations management and use them for better efficiently in operations resulting in better financial performance.

Objectives and Framework of the curriculum of B.Sc. HS Program

1) The basic objective of the B.Sc. HS Program is to provide to the country a steady stream of competent young men and women with the necessary knowledge, skills, values and attitude to occupy positions of management and administration in the Hospitality Industry.

2) The course structure of the given B.Sc. HS Program is designed keeping in view the basic Objective stated above. Consequently, certain essential features of such model program Structure would be.
   a) To impart to the students latest and relevant knowledge from the field of hospitality.
   b) Providing opportunities to the participants, within and outside the institutions, for developing necessary operating skills.
   c) Imparting / developing the right kind of attitude to function effectively operational, managerial /administrative positions.

3) Certain other essential considerations:
   a) The knowledge imputes and opportunities for skill development have been offered in an evenly distributed and logically sequenced manner.
   b) The design is simple and logical.

4) Imparting / developing suitable attitudes understandably is a very difficult and delicate task, and is to be done by the faculty as inconspicuously as possible.

5) The relative importance of skills development and attitudinal orientation in hospitality education suggests that the Institution offering the program should have some freedom on course development in choosing methods of instruction and internal assessment within a broad frame work of objectives an curriculum structure.

On completion of this program, the students will able to achieve the following Program outcomes and course outcomes

Program Outcomes

1. Engage in critical analysis and creative thinking.
2. Apply the basic principles of analytical thinking and problem solving when examining hospitality management issues.

3. Analyze trends and organizational data and develop business strategies for the hospitality industry.

4. Collect and evaluate information to make sound decisions.

5. Demonstrate the ability to integrate concepts and theories across functional business domains (e.g. Finance, Marketing, Human Resources, Operations, etc.)

6. Demonstrate the knowledge, skills, and attitudes to function effectively in a diverse and global organizational environment.

7. Demonstrate proficiency in the application of selected technology.

8. Synthesize core concepts in the areas of hospitality accounting, finance, human resources, marketing, operations, and quantitative methods.

9. Demonstrate personal and professional standards for ethical decision-making and social behavior.

10. Evaluate personal and professional goals and development based on perceived strengths and potential for life-long course.

11. Demonstrate the ability to read, listen, and clearly express themselves using written, oral, visual, and quantitative methods to communicate effectively with superiors, coworkers, customers, and members of the community.

12. Demonstrate leadership, teamwork, and interpersonal skills needed for managing diverse and global hospitality operations.

I Year I Semester

Course : HS - 101 Basic Food Production

Objectives--
1. Basically the Course is focused on the course skills of food production,
2. Technical skills in the art of culinary and food production department
3. To learn the methods and techniques of cooking food
4. Importance of food ingredients

Course outcomes –
     The students wi
1. During the course student gain theory as well as practical knowledge
2. Professional skills based on cooking techniques
3. Knowledge of food commodities and its uses
4. Food techniques develop their culinary skills
5. Develop food standard and professional attributes.
6. Analyse Basic need of Production.

Course : HS - 102 Food & Beverage Service

Objectives of the Course:
Help to prepare students to meet the challenges associated with the Food and Beverage Industry. Students will gain a basic understanding of the Food and Beverage industry by analysing the Industries growth and development, reviewing its organizational structure, investigating its relationship with the hotel's other departments, And by focusing on industry opportunities and future trends.

Course outcomes –
Upon successful completion of this course, the student will have reliably demonstrated the ability to:
1. Execute professional practices based on the occupational standards steps of service.
2. Utilize food service technology in the guest service cycle.
3. Describe various types of service techniques.
4. Suggest appropriate recommendations to enhance the customer experience.
5. Recognize the importance of service recovery techniques.
6. Employ strategies for dealing with various types of customers.
7. Perform opening, on-going and closing operational responsibilities in a full-service food and beverage service.

Course : HS - 103 Basic Room Division

Objective:
        This Course focuses on the key principles on the Room Division within the international hospitality sectors. It provides learners with an insight into this dynamic hospitality sector practical to them the important of the department as a major revenue generator with the lodging sector. It also gives the learner's to the opportunity develop their operational and management knowledge of this key functional department.

After reading & studying this concept you should be able to:-
1. Outlines the duties & responsibilities of key executives & department heads.
2. Draw organization chart of Room Division department (housekeeping & front office) of a Hotel & identify the functions of the Room Division department.
3. Draw a layout of Housekeeping & Front office department and describe the main functions Of the Room Division department.
4. To understand the classification of hotel.

Course outcomes –
1. Identify the key functions of the Room Division Department.
2. Explain the Room Division Manager (Executive Housekeeper & Front office Manager) Role as a leader decision maker.
3. Discuss the important the Room Division Department
4. Associate the role of the Room Division Manager with the management functions of a hospitality provider in effective manners.
5. Draw a layout of Housekeeping & Front office department and describe the main functions Of the Room Division department
6. To understand the classification of hotel.

Course:HS – 104 Computer Fundamentals

Objectives
Through this Course Student should learn Fundamental concepts of computer. The Course is designed to introduce the fundamentals of computing devices and reinforce computer vocabulary, particularly with respect to personal use of computer hardware and software, Operating system, MSOffice, the Internet, networking and E-Commerce also.

Course outcomes –
To learn Basic Function of Devices like I/O, hardware and software, as well as understand the concepts of the Operating system, MS-Office, Internet, networking and E-Commerce. To use the computer and its technologies very efficiently in the Hotel Industry.

Course:HS – 105 Travel & Tourism

Objectives of the Course:
1. To understand the tourism phenomena and the distribution of the components of tourism.
2. To help students acquire practical skills in all the major arenas of the industry.
3. To familiarize the culture set up in India and its contribution to Tourism.
4. To develop hospitality culture and behaviour and to enhance student competencies.
5. To understand various elements of tourism management.

Course outcomes –
1. Familiarize to the discipline of Tourism and its concepts.
2. Will develop an entrepreneur skill in the travel and tourism industry.
3. Analyse the Tourism demand and supply.
4. Will be able to apprehend and appreciate tourism marketing, tourism Development planning, Management and measurement.
5. Explain the role of International Tourism Organizations in promoting Tourism.
6. Differentiate between inbound and outbound Tourism.

Course : HS – 106 English & Communication Skills – I

Objectives –
1. To gain the basic knowledge of English Language
2. To understand importance of English Language
3. To understand the Scope of English Language
4. To update the current vogue of English Language.

Course outcomes –
1. Students will review the grammatical forms of English and the use of these forms in specific communicative contexts, which include: class activities, homework assignments, reading of texts and writing
2. Students will attain and enhance competence in the four modes of literacy: writing, speaking, reading and listening
3. Students will develop their ability as critical readers and writers
4. Student will produce a short research paper using the drafting process
5. Students will develop reading skills and reading speed
6. Students will read university texts and expand their vocabulary

I Year II Semester

Course : HS - 201 Food Production Principles

Objectives ---
1. To learn the food production principle
2. Contribute to the effective operational management skills
3. Organizational structure in food production department
4. Art to prepare and serve the food
5. Cooking equipment's and uses

Course outcomes ---
1. Ability to recognize the factors necessary for the food professional
2. Describe the method and techniques of cooking
3. Ability to recognize various texture and accompaniments
4. Prepare &understand international soups and sauces
5. Develop knowledge & interest in basic Indian food production
6. To Understand Cooking equipment's and uses

Course : HS - 202 Food & Beverage Operation
Objectives

The objectives of Department of Food and Beverage are to improve students' ability of creation and invention toward food and beverage, to develop students to possess professional integrity and international version, to develop the knowledge of modern concepts of sanitation, safety, and health, and to provide students with cooperative education which will help students gain real-world experience to become professionals in the industry.

Course outcomes –
1. Describe various types of service techniques of different menu;
2. Suggest appropriate recommendations to enhance the customer experience;
3. Recognize the importance of service of different menu
4. Employ strategies for dealing with menu planning;
5. Apply basic beverage knowledge;
6. Perform opening, on-going and closing operational responsibilities in a full service food And beverage operation;

Course : HS - 203 Room Division Service

Objective:

This Courses Objective to establish the importance of Housekeeping and Front Office within the hospitality industry. It also prepare to the student to acquire the basic skills and knowledge necessary for different tasks and aspects of Housekeeping and Front office.

Course outcomes –
1. Explain the Cleaning frequencies and procedures.
2. Functions of control desk.
3. Discuss on lost & found procedure
4. Description of Guest Cycle.
5. Process of Guest Reservation & Registration.
6. Describe the methods of payment
7. To understand of Room Division Functions

Course : HS - 204 Tourism Operation

Objectives of the Course:
1. To get a thorough understanding of the components of tourism industry and To acquire knowledge and Information pertaining to tourism industry.
2. To learn the concept and importance of tourism in different sectors.
3. To orient and equip students with Travel Management skills of the age.
4. To realize the potential of tourism industry in India.
5. To evaluate the role of various organization of tourism.

Course outcomes –
1. Gain an understanding of travel and tourism industry and its operations.
2. Realize the potential of Tourism Industry in India.
3. Will be able to pursue further (advanced) course in travel and tourism management.
4. Analyse the social, cultural, environmental, and economic impacts of Tourism.
5. Develop a sustainable personality to match the required professional demand of the tourism sector.
6. To evaluate the role of various organization of tourism.

Course : HS – 205 Food and Catering Science

Objectives –
1. To gain the basic knowledge of food and nutrition
2. To understand nutritional values and human health
3. Control the microbial growth in food commodities Importance of hygiene and sanitation in food industry
4. Recommended daily allowances for individuals

Course outcomes –
1. Student should able to plan food diet
2. Use of nutritious food ingredients in cooking
3. Able to execute the professional skills based on food and nutrition
4. Application of food laws
5. Explain food and nutrition
6. Describes nutritional values and human health

Course : HS - 206 English & Communication Skills – II

Objectives –
1. To gain the basic knowledge of English Language
2. To understand importance of English Language
3. To understand the Scope of English Language
4. To update the current vogue of English Language.

Course outcomes –

1. Students will heighten their awareness of correct usage of English grammar in writing and speaking
2. Students will improve their speaking ability in English both in terms of fluency and comprehensibility
3. Students will give oral presentations and receive feedback on their performance
4. Students will increase their reading speed and comprehension of academic articles
5. Students will improve their reading fluency skills through extensive reading
6. Students will enlarge their vocabulary by keeping a vocabulary journal

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II Year III Semester

Course : HS - 301 Quantity Food Production
Objectives:-

At the end of semester III the student will be able to identify the role of the quantity food production and summarize the techniques and procedures of preparing bulk food in 5&3 star hotels.

Course outcomes: -

1) Explain its organization structure and importance.
2) Explain how quantity food production done in different functions or event.
3) Describe the duties and responsibilities of banquet kitchen staff members,
4) To know the different equipment's used in banquets
5) To know how to store all the food stuff in proper storages.
6) To study various food ingredients and it characteristics, use in cookery
7) Design the layout of Kitchen and store 8) to know about bakery products, methods, preparation.

Course: HS-302 Beverage Service
Objectives:
The students will gain a comprehensive knowledge and develop technical skills in aspects of Specialized Food and Beverage services.

Course Outcomes
1. The courses will give a comprehensive knowledge of the various alcoholic beverage used in the Hospitality Industry.
2. It will give an insight into their history, manufacture, classification, and also to develop technical and specialized skills in the service of the same.
3. Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine.
4. Understanding the production process of Beer, Wine and Spirits.
5. Making of cocktails with use of ingredients such as liqueurs and bitters.
6. Analyze alcoholic beverage manufacturing

Course : HS - 303 Accommodation Service

Objectives

This Course aims to establish the importance of Accommodation within the Hospitality Industry. It also prepares the student to acquire skills and knowledge to identify the required standards and decision-making considerations of this department

Course outcomes--

1. Establish the importance of Rooms Division Principles within the hospitality Industry.
2. Learn basic skills and knowledge necessary to successfully identify the required standards in this area
3. The student will be able to explain various operational procedures and formats pertaining to linen, uniforms, and laundry.
4. The student will be able to create formats and design layouts of linen room, uniform room and laundry.
5. The student will be able to create Flower Arrangements for various occasions and locations.
6. The student will be able to plan and implement décor for special occasions

Course : HS – 304 French & Communicational Skills

Objectives :

•   To understand the importance of French in Hotel Operations.
•   Help to acquire the correct pronunciation of French terminology.
•   Basic introduction to spoken French**.**

Course Outcomes

1. To understand the importance of French in Hotel Operations.
2. Help to acquire the correct pronunciation of French terminology.
3. Basic introduction to spoken French.
4. To create awareness about the importance of French in the hotel operations and to acquire the correct pronunciation of French terminology.
5. To use standard phrases in French in hotel operations. To integrate the French curriculum with the core syllabus of the course.
6. Basic introduction to spoken French

Course : HS – 305 Hotel Law

Objectives

The aim of studying this Course is to acquire the knowledge of basic laws related to the hotel industry and to understand business laws related to day- to- day working.

Course Outcomes –

1. Introduce students to the study of hospitality law and its impact on the hospitality industry.
2. Recognize legal and ethical issues in the hospitality industry
3. Understand how Federal, State, and Local government agencies impact the hospitality industry.
4. Understand the duties and responsibilities as a Hospitality operator.
5. Explain PFA Act & Customer Protection Act
6. To Understand Law & Order National & International Laws Related with Hospitality Industry

Course : HS – 306 Hotel Accounting

Objectives:

1. To enable the students gain knowledge of concepts, principles of accounting

2. To enable the students how to use financial data in planning, decision making and control.

Course Outcomes:-

 By the end of this course students shall be able to:

1. Gain knowledge of various books of records to be maintained in the Hotel Industry.
2. Understand day to day operative transactions and record keeping in Hotel Industry.
3. Analyses the situation and evaluate the financial impact of the decision.
4. To enable the students gain knowledge of concepts, principles of accounting
5. To enable the students how to use financial data in planning, decision making and control.
6. To understand the Importance of Accounting in hotel industry.

Course : HS – 401 Specialized Food Production

Objectives:-

1. This Course is designed to provide students with the opportunity to develop understanding of the full range of processes involved in food preparation, cooking and service.
2. Develop skills and expertise in specialized preparation, presentation and service.
3. Develop an awareness of food safety, hygienic working environment and the monitoring of safe Working practices.
4. Develop competence in the operation of food preparation and service to identified operational standards.
5. Prepare students to make an enlightened contribution to current industrial practice and Development of culinary arts within the business environment

Course outcomes: -

1) To prepare the students for basic continental cooking concepts.
2) To improve students sound knowledge & principles of specialized Food Production.
3) To gain the knowledge & skills about meat &fish cookery use the basic techniques of European cooking effectively and efficiently.
3) To know about classification, types and service of salads, sandwich, pastries.
4) To Understand Develop competence in the operation of food preparation and Service
5) Explain the opportunity to develop understanding of the full range of processes involved in food preparation.
6) Explain the Role of Ingrediencies

Course: HS – 402 Food & Beverage Service Management

1. The courses will give a comprehensive knowledge of the various alcoholic beverages used in the Hospitality Industry.
2. It will give an insight into their history, manufacture, classification, and also to develop technical and specialized skills in the service of the same.

Course Outcomes

1. This course enables the student to gain a better understanding of the role of Food and Beverage Management in the context of overall catering operations.
2. The students will gain a comprehensive knowledge and develop technical skills in aspects of Specialized Food and Beverage services.
3. Explain the Inventory Control
4. Describe the EOQ
5. To Understand Bar Control
6. Analyze Flow Chart of F & B Service

Course : HS - 403 Accommodation Operation

Objectives:

This course aims to establish the importance of Rooms Division within the Hospitality Industry. It also prepares the student to acquire skills and knowledge necessary to successfully identify the required standards and Control Systems in this area and to consider managerial decision-making aspects of this department

Course outcomes–

1. Identify the elements involved in the organization of accommodation operations, its functions, systems and routines.
2. Develop sensitivity and high work ethics towards cleanliness and hygiene and the factors that contribute to it.
3. Explain the activities, selection, procedures and records related to the linen and uniform room operations.
4. Explain the importance of laundry services in hotel operations; enlist the laundry equipment' and laundry agents and explain their functioning in the laundry
5. Explain the implementation of policies regarding facilities and services, key control, lost and found and other routine procedures in Accommodation Operations.
6. To Understand Standard Operation Procedure of Accommodation

Course : HS - 404 Business Communication & Personality Development

Objectives:

The objective of this course is to help participants to develop communication skills, discover what business communication is all about and learn how to adapt their communication experiences in life and college to the business world.

Course outcomes –

1. To develop effective communication skills for optimum performance in business functioning
2. To discuss the types of business communication
3. To absorb the best practices for effective communication
4. To study communication theories and tools
5. To understand the foundational role of communication in building personality
6. To attempt to analytically discover the self and its reflection in personality

HS – 405   Hospitality Marketing
Objective
- To understand customer satisfaction in hospitality
- Using PLC in when manufacturing products
- Who P's of marketing help in service industry

Course Outcome
1. The Course aims to make the students understand importance of marketing in Hospitality Industry.
2. To help students understand Concepts of the Hospitality marketing
3. Buying behavior's, market segmentation and marketing mix strategies for effective marketing of the hotel industry.
4. Describe the 4 P's Marketing.
5. Explain the Consumer behavior.
6. To Understand the Product Life Cycle

HS – 405 English & Communication Skills – III
Objectives:
The overarching objectives of this Curriculum is to promote high standard of literacy by equipment pupils with a strong command of the return and spoken word
1. Acquire avoid vocabulary and understanding of grammar and knowledge of linguistic conventions for reading writing and spoken language.
2. Develop the skills of speaking listening reading writing by conducting classroom activities prescribed in the curriculum.
3. To make evident the use of English language for shipping and making meaning according to purpose audience and contest
4. To help the learners for acquiring ways to expressing themselves correctly and there relationships with other and their world.
5. Right clearly accurately and coherently adopting their language and style in and for a range of contest purpose and audience.

Course Outcomes
1. The Learners will Learn to Understand Meaning of Words, Phrases & sentence in contain.
2. Through the course on linguistic skills the learners will begin to use the English language in the best possible manner
3. Through the clothes study of grammar text students will develop knowledge understanding and skills in order to communicate effectively in English
4. Learners will value and appreciate the importance of the English language as a key to Course.
5. Learners will gain the personal enrichment from study of language theories in English
6. Learners will acquire ability to communicate orally and in writing

III Year V Semester

Course : HS - 501 Advance Food Production
Objectives:-

On successful completion of this semester the students will be able to understand the current status, growth rate and economic importance also kitchen management & management skills of food production area.

Course outcomes:-

1) To know kitchen designing, kitchen management
2) Forecasting & budgeting ,record maintaining in advance kitchen
3) How to use wine& sprite in cooking
4) To learn about bakery & confectionary preparation and proper services
5) Learn detail about international cookery and food speciality of every countries
6) They will also be aware of the safety, pertinent standards and regulations associated with bakery and confectionary products. Preparing process of various baked items like bread, biscuits, cookies, cakes and pastries

Course : HS - 502 Advance Food Service & Management

Objectives :
The Course aims is students should understand the international standards & Management aspects of food and beverage operations and controlling characteristics of service outlets.

Course outcomes:-

1) Learn the various banquet functions & banquet operation.
2) To learn the pricing methods of dish & techniques of pricing
3) To know different types of menus& menu merchandising.
4) To learn the costing of dishes & factors affecting costing
5) Student should learn the different services of banqueting
6) To Understand Pricing Methods

Course : HS - 503 Accommodation Management

Objectives:

The Course aims to establish the importance of accommodation management with in the hospitality industry. It equips the student to acquire knowledge & skills with respect to planning & designing aspects.

Course outcomes—
1. Identify the key safety and security issues related to managing a hospitality facility.
2. Associate the role of hospitality managers with the management function of managing facilities in an effective manner.
3. Discuss the importance of the accommodation department in the service provision within the hospitality context.
4. Communicate the necessary safety and security measures that need to be adhered to within a hospitality facility
5. Design a cleaning routine for rooms, suggesting appropriate materials and equipment to carry out these duties to the highest quality standards
6. To understand the Importance of Accommodation Management with in the Hospitality Industry

Course : HS - 504 Tourism Management

Objectives:
• Familiarize to the discipline of Tourism and its concepts
• Analyse the Tourism demand and supply

Course outcomes—
1. To inculcate a sense of importance and establish a link between the tourism industry and the hotel industry and to highlight tourism industry as an alternative career path.
2. Plan, lead, organize and control resources for effective and efficient tourism operations.
3. Contextualize tourism within broader cultural, environmental, and economic dimensions of society.
4. Explain the Costing & Packing of Tour.
5. Describe Guest Service in Relation to Tourist Expectation
6. To Understand Tourist Segmentation

Course : HS - 505 Human Resource Development

Objective
1. The understanding of Human Resources Management will help the students in identifying the significance and its role in the Hotel & Catering Industry.
2. It will also help them to develop an attitude for positive Human Behaviour at work

Course Outcomes

1. Understand the Principles of Management & thoughts
2. Use the principles of planning & organizing
3. Know leadership and motivation theories
4. Make effective communication and improve coordination
5. Use the principles of control efficiently.
6. Analyse 360 Degree Feedback System

Course : HS - 506 Entrepreneurship Development

Objectives :

The objectives of EDPs are to develop and strengthen the entrepreneurial quality, to motivate them for achievement and to enable participants to be independent, capable, promising businessmen. The objective is to make the trainees prepared to start their own enterprise after the completion of the training program.

Course outcomes —
1. Identify qualities of entrepreneurs
2. Introduce various qualities required for entrepreneurship
3. Entrepreneurship and Innovation minors will be able to sell themselves and their ideas
4. Entrepreneurship and Innovation minors will be able to find problems worth solving.
5. Entrepreneurship and Innovation minors will be able to mobilize people and resources
6. Understand the skills and characteristics an entrepreneur needs in the Hospitality industry

Criteria to Decide Attainment Level

Sr. No.	Assessment Method	Criteria	Attainment Level
1	Mid-Term Internal Exam(Descriptive +Assignment)	80-100% of students scoring more than threshold Value	3
		60-79% of students scoring more than threshold Value	2
		40-59% of students scoring more than threshold Value	1
2	Semester End External Exam	80-100% of students scoring more than threshold Value	3
		60-79% of students scoring more than threshold Value	2
		40-59% of students scoring more than threshold Value	1

Criteria to Calculate total attainment of each CO

Course Outcome	Course Outcome Attainment Level		Direct Attainment	Indirect Attainment	Total Attainment Of each CO
	Intenal Assesment	External Assesment			
CO Attainment	A	B	$C=0.20*A+0.80*B$	$D=\{(1*P)+(2*Q)+(3*R)\}/(P+Q+R)$ Where P=Number of students opted for low option (1) Q=Number of students opted for medium option (2) R=Number of students opted for high option (3)	Total Attainment= $(0.9*C)+(0.1*D)$

Sample of Mapping CO-PO and to calculate PO Attainment at Course Level

Mapping of CO-PO And Computation of PO's Attainment at Course Level												
CO's	Program Outcomes (PO'S)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO 9	PO1 0	PO1 1	PO 12
CO1	2	3	---	2	---	2	---	---	3	---	----	2
CO2	3	1	1	---	---	3	---	---	---	2	----	2
CO3	3	2	3	1	---	1	---	---	2	---	----	---
CO4	2	3	3	2	2	---	1	---	3	3	----	---
CO5	2	1	2	2	1	---	2	2	2	---	2	2
CO6	3	1	3	2	--	3	---	1	3	---	3	2
Average PO Attainme nt	2.5	1.83	2.4	1.8	1.5	2.25	1.5	1.5	2.6	2.5	2.5	2
PO's Attainme ngt at Course Level	1.93	1.41	1.85	1.39	1.16	1.73	1.16	1.16	2	1.93	1.93	1.54

1: Low　　　　　**2: Medium**　　　　　**3: High**　　　**----: None**

Evaluation of Attainment of PO = (PO Attainment Average *CO attainment average)/3

Evaluation of Attainment of PSO = (PO Attainment Average *CO attainment average)/3