

**BHARATI VIDYAPEETH  
(DEEMED TO BE UNIVERSITY), PUNE  
YASHWANTRAO MOHITE INSTITUTE OF MANAGEMENT, KARAD**

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**MBA PROGRAMME**

**Program Outcomes (PO): MBA Programme**

- Apply the knowledge of management theories and practices to solve business problems.
- Foster analytical and critical thinking abilities for data-based decision making.
- Learn new technologies with ease and be productive at all times
- Ability to understand, analyze and communicate global, economic, legal and ethical aspects of business.
- Read, write, and contribute to Business literature
- Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment

**Course Outcome: MBA Programme**

**Management Concepts and Applications**

- Understand the Management Concepts and Managerial Skills.
- Focus on the Principles and Functions of Management.
- Learn to apply the Principles of Management in practice.
- Familiarize with the Functional areas of management.
- Use the effective Leadership styles in the organization.
- Recognize the Recent trends in management.

**Managerial Economics**

- Understand the role of managers in firms.
- Analyze the demand and supply conditions and assess the position of a company.
- Estimation of production function and finding out optimal combination of input using Isoquant and Isocost.
- Design competition strategies including costing, pricing and market environment according to the nature of the product and structure of market.
- Enable to know the importance of various sectors of the economy and their contribution towards national income.
- Investigate potential output and compute output gaps and diagnose the outlook for the economy.

### Financial and Management Accounting

- Learners will be able to know the fundamentals of Financial Accounting and Accounting Principles
- Learners will demonstrate the ability to prepare Financial Statements of a sole proprietor
- Learners will understand the utility and importance of International Accounting
- Standards and International Financial Reporting Standards (IFRS)
- Learners will be familiar with concepts of Cost and management Accounting
- Learners will be able to apply the technique of Budgetary Control
- Learners will be able to apply the technique of Standard Costing and Marginal Costing.

### Organizational Behavior

- Understand the expected individual and team behavior in business world.
- The awareness of applicable leadership qualities for entrepreneurs / corporate / managers
- To develop skills and inculcate motivational concepts.
- To be aware of individual, cultural difficulties of organizations and to be able to master over them.

### Statistical Techniques

- Develop numerical ability to solve examples on various topics and specifically formation and Testing of Hypothesis
- Have clear understanding of various statistical tools and their applications in Business.
- Analyze the importance of Statistical Techniques in different functional areas of Management.
- Apply Correlation and Regression Techniques in Business applications.
- To apply the statistical techniques to small data sets for analysis and interpretation

### Legal Aspects of Business

- Extrapolate the legal knowledge to business.
- The graduates' attributes reflect legal knowledge and understanding global Competencies.
- To demonstrate domain comprehensive knowledge.
- To articulate with business skills.
- To inculcate the culture of abiding law.
- To develop a coherent approach.

### Business Communication

- The Students should be able to communicate effectively in professional circles.
- There should be a positive change in the oral and written communication skills of the students after studying the subject.
- The students should be able to draft business letters, give effective presentations write formal reports and deliver speeches independently.

### Data Analysis using advance -Excel

- Understand the different functions of MS Excel
- Use MS Excel for analysis of Data

### Computers Application for Business

- Students will be able to gain the basic knowledge of Computer Technology
- Students will be able to know the basics of computer technology and Networking
- Students will be able to practically use the tools like Microsoft Word, Microsoft Excel and Power point
- Students will understand the E-commerce technology and its applications
- Students will have a greater understanding of with Information Systems implemented in organizations
- Students will be familiar with new terms and trends of computer technology

### Social Media Management

- Effective utilization of Social Media in connecting with the target market.
- Using the social media for the implementation of marketing strategies

### Current Affairs

- To enable the students to take decisions related to critical current business issues.
- To be able to Interpret and understand the current business issues. III) To analyze business current affairs.
- To acquaint with the current happenings in the business.
- To comprehend the current affairs and its implications on businesses at national and international level.

### Marketing Management

- Gain a solid understanding of key marketing concepts and skills.
- 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.
- Develop the students' skills in applying the analytical perspectives on the concepts of marketing and the decisions related to segmentation, targeting and positioning, determining marketing mix etc.
- Develop an understanding of the underlying concepts, strategies and the issues involved in the exchange of products and services and control the marketing mix variables in order to achieve organizational goals.
- Develop strong marketing research plans and persuasively communicate your recommendations and rationale.
- Discuss the scope and managerial importance of marketing research and its role in the development of marketing strategy

### Financial Management

- Development of basic skill sets required for Financial Decision Making
- Development of analytical skill set to understand and interpret Financial Statements

- Graduates are able to improve their knowledge about functioning business, identifying potential business opportunities, involvement of business enterprises and exploring entrepreneurial opportunities (BEDK)
- Graduates are expected to develop skills on analyzing the business data, application of relevant analysis, problem solving in the functional areas, i.e. Critical thinking- Business Analysis-Problem Solving and Innovative Solutions (CBPI)
- Developing Social Responsiveness to contextual social issues/ problems and exploring solutions.
- Graduates are expected to identify problems, explore the opportunities, design the business solutions and demonstrate ethical standards in organizational decision making.(SRE)

#### Human Resource Management

- Understand and apply Human resource Management functions for effective management of organization.
- Ability of designing job analysis and ability to understand various manpower forecasting techniques
- Understand the techniques of recruitment, selection and interview and ability to conduct the recruitment process
- Understand the training needs in the organization and ability to design suitable training plan
- Understand the components of wages and salary and factors affecting it.
- Ability to analyze issues related to performance appraisal, career planning and rewards management.

#### International Business

- To enable the students to take decisions related to global issues and policies.
- To be able to Interpret Foreign trade policy and avail incentives offered under various schemes.
- To analyze the trade data for decision making as to what to export and where to export.
- To recall the role and functions of Global Institutions IMF, WTO and World Bank.
- To acquaint with the trade blocks SAARC, NAFTA, EU etc.
- To comprehend the exchange rates practically and its implications on trade.

#### Production and Operations Management

- Understand various concepts of Production and Operations Management.
- Analyze the importance of Production and Operations Management and compare various issues particular to manufacturing industry.
- Classify various Production Systems.
- Develop numerical ability to solve examples on EOQ.
- Describe the advantages of Maintenance Management, SCM, JIT, QA and ISO Certification

## Research Methodology

- Develop understanding on different applications of research for managerial decision making
- Explain key research and summarize the research articles and research reports
- Have basic awareness of data analysis-and hypothesis testing procedures
- Design questionnaires and administer simple survey based projects.
- Describe sampling methods, measurement scales and instruments, and appropriate uses of each
- Explain the rationale for research ethics

## Business Environment

- Understand the role of managers in firms.
- Design and develop strategic plans for the organization
- Understand the importance of various sectors of the economy and their contribution towards national income.

## Business Ethics and Corporate Governance

- The Students should be able to understand the importance of ethics and values in personal and professional life.
- There should be a positive change in the attitude of the students towards morals, values and ethics after studying the subject.
- The students understand their responsibility towards the society while running any business or as an employee.

## Introduction to Business Analytics

- Make sound managerial decisions aimed at furthering the business interests of the company.
- Identify, analyze and understand the problems faced by the company.
- Provide concrete solution to the identified business problems.

## E-commerce Application

- Basic concepts about E-commerce will be studied.
- Knowledge of business models will be used.
- Students will implement e-commerce security.
- Better usage will be down with help of E-payment system.
- Where e-commerce Applications are used.
- Use of M-commerce technology.

## Managerial Skills for Effectiveness

- Demonstrate applicable knowledge of the common skills needed for managerial effectiveness within the functions of management.
- Demonstrate applicable knowledge of various human behavior and motivation techniques relating to leading individuals and teams.

- Demonstrate comprehension of values, power, and influence relating to organizational culture, change, and ethical decision-making in global contexts.
- Identify and critically assess assumptions that influence decisions and actions on management, leadership, teamwork and relationship building
- Receive and integrate feedback on decision-making practices, conflict resolution
- Skills, and teamwork behaviors with the support of a team-based coach
- Demonstrate writing business messages and reports

## Program Outcomes (PO): MCA

- Computational Knowledge: Apply knowledge of computing fundamentals, mathematics and given domain to design appropriate models for a given problem and/or requirements.
- Problem Analysis: Apply fundamental knowledge of software engineering and various systems domain in order to analyze, identify, formulate and provide the solution to given problem.
- Design/Development of Solutions: Design and evaluate solutions, systems, modules and processes for specified set of needs with appropriate consideration of societal values and industry expectations. Conduct researching in Information Systems: 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.
- Modern Tool Usage: Use of modern tools for delivering milestones like problem analysis, design, development, testing and deployment.
- Professional Ethics: Learn and inculcate professional ethics, cyber regulations, professional responsibilities and norms of professional computing world.
- Lifelong Learning: Acknowledge the need for continuous professional development and practice it through self-motivated, independent learning.
- Management Domain: Involving in projects development as individual or group to solve problems in various domains and environments using computational and management skills.
- Communication Efficacy: Demonstrate efficacy in verbal and non-verbal means of communication like reports, design documentation and presentations to elaborate about complex computing.
- Innovation and Entrepreneurship: Provide conducive environment for innovation and entrepreneurship leading to solutions for betterment of society.

## Course Outcome: MCA Programme

Course: Applied Database Management Systems

- Remember the definitions of concepts
- Understand the concept of database and techniques for its management
- Understand data security standards and methods.
- Understand the fundamentals of Distributed Database Systems
- Design different data models at conceptual and logical level and translate ER Diagrams to Relational Data Model.
- Normalize the database.
- Identify and study the file organization schemes for DBMS.
- State and Describe features for Concurrency and Recovery.
- Convert the relational algebra statements to the SQL statements.
- Write queries using Relational Algebra

#### Course: Lab on Applied Database Management Systems

- Make use of different operators as per the questions
- Understand the theoretical and physical aspect of a relational database.
- Implementation of RDBMS concepts through Oracle.
- Observe the performance of the query with different data sets.
- Test the results obtained from the different queries, PL/SQL blocks, functions
- Construct Simple and complex queries on sample datasets
- Writing PL/SQL blocks

#### Course: Computer Networks (MCA-I Sem-I)

- Using some basic concepts of Computer Hardware and Network terminology for development of basic networks in the organization.
- By remembering students the basic concepts students will understand the concepts of Network topology, network operating systems and how the networks are developed as per the need of the organization
- Students will have thorough knowledge about Computer Network and its use for the Information Sharing, device sharing and use of various new network technologies.
- Students will acquire a good knowledge of the computer network, its architecture and operation.
- Student will be able to pursue his study in advanced networking courses (This knowledge will help them to create base for the Network Electives to be studied in the next semesters).
- Students will be able to follow trends of computer networks. So, students will get expose to advanced network technologies like MANET, WSN, and 4G.
- Ability to select proper method to design the network systems, selecting the proper tool to design the network protects the network from misuse.
- Design and create their own procedure to protect the computer network and use the sharing proper resources.

#### Course: Data Structures and Algorithms using Python

- Using some motivating examples to remember and quickly builds up basic concepts such as conditionals, loops, functions, lists, strings and tuples.
- By remembering students the basing concepts students will understand the concepts of searching and sorting algorithms, dynamic programming and backtracking, as well as topics such as exception handling and using files. As far as data structures are concerned, the course covers Python dictionaries as well as classes and objects for defining user defined data types such as linked lists and binary search trees.
- Students will have thorough knowledge about data structures and will be able to design& develop program using linear data structures & non linear data structures for solving problems
- Compare efficiency of various data structures for solving a particular problem.
- Ability to choose appropriate data structures for problem solving



- Ability to use combination of these data structures for problem solving.
- Design and create their own data structure for solving a real life problem

#### Course: Computational Statistics

- Demonstrate their understanding of descriptive statistics by practical application of quantitative reasoning and data visualization
- Demonstrate their knowledge of the basics of inferential statistics by making valid generalizations from sample data
- Use R and Excel to conduct statistical analysis
- Recognize pitfalls in using statistical methodology
- Critical attitudes, which are necessary for “life-long learning”
- Greater appreciation for the importance of statistical literacy in today’s data rich world.

#### Course: Management Concepts and Applications

- Students are expected to recalling day to day management concepts that are unknowingly applied in real life situations
- Gathering information about management, its origin and the contributions of some of the management gurus is achieved.
- Students will learn implementation of management functions in real life cases so as to justify decision being taken
- Students will learn fact finding in a situation using the objectives of each functions’ achievement and its effective utilization
- Generating or creating the ability amongst the students in fact finding techniques and evaluating the actual performance with the planned.
- Students are expected to capture the new cases in real life situation and create a solution in the form of model so as to resolve the problem.

#### Course: Object Oriented Software Engineering

- Should be able to remember various steps carried out in development of software.
- Should be able to understand requirements of the user.
- Should be able to apply object oriented concepts and UML diagrams to the defined problem.
- Should be able to analyze requirements of the user and convert to functionalities of the software.
- Should be able to Evaluate design of the existing software.
- Should be able to de Design their own software.

### Course: Java Programming

- Design interfaces, abstract and concrete classes needed, given a problem specification
- Implement classes designed using object oriented programming language
- Make them comfort to muse Java API for Input/output and Java Collections and utility classes
- Able to achieve object persistence using object serialization and write modules to take advantages of concurrent programming
- Java language Data Types, control structures, OOP concepts,
- Java API to handle numbers, strings
- Get knowledge about core Java API ( Wrapper classes; String classes, Math class)
- Java API hierarchy for Input/output, collections and concurrent programming
- Understanding how to write, compile and run a Java program.
- Structure of class and using Inheritance among them.
- How to create Arrays.
- Come to know need of inheritance, abstract class and interface and how to use them
- Get knowledge about core Java API, API hierarchy for Input/output, collections and concurrent programming
- Design classes and interfaces for given problem statement by making use of OOP concepts.
- Using proper I/O classes and Collections classes for given problem statement.
- Analyze a given problem statement to identify classes and relationships among them and making use of Java API efficiently.
- Given a problem statement; students should able to decide/ best mechanism of class design using is\_a or has\_a relationships.
- Read/listen a problem statement and able to decide which I/O classes to be used.
- Able to debate about when make to use of threads and which collection implementation should be used.
- Writing Java Applications with use of classes, interfaces and taking advantages of polymorphism.

### Course: Data Warehousing and Data Mining

- Remembering the fundamentals of Database technology and its application in data warehousing and data mining.
- Creating multi dimensional data models using star, snowflake and fact constellation schemas.
- Understand the components, architecture and other important tools of data warehousing and data mining.
- Apply the techniques of clustering, classification, association and other data mining algorithms to real world data.
- Gather and analyze large sets of data to gain useful information using data mining techniques.
- Producing and interpreting quantitative analysis using various data mining algorithms.

#### Course: Web Supporting Technologies

- The students will get information of the basics of internet with the help of examples. It will help them to identify and remember Web supporting concepts.
- Remembering the definitions will help the students to understand basic concepts of HTML, JavaScript, CSS and PHP etc. In this subject, students will understand various tags, programming constructs of JavaScript, technical issues, cascading Style Sheets, forms and PHP concepts.
- Students will have thorough knowledge of HTML and JavaScript. They will be able to design various forms as per requirements. They will be able to apply CSS concepts in scripting. The students will also apply their creativity to display the output.
- The students will relate real life problem with the JavaScript solution. They will analyze the problem and solve it.
- Ability to use JavaScript construct for problem solving, handling technical issues etc.
- Design and create their own forms for solving a real-life requirement.

#### Course: Lab on Java Programming

- Write simple programs to use basic programming language constructs
- Design interfaces, abstract and concrete classes needed, given a problem specification
- Implement classes designed using object oriented programming language
- Learn how to test, verify, and debug object-oriented programs and create programs
- Make them comfort to use Java API for Input/output and Java Collections and utility classes
- Able to achieve object persistence using object serialization and write modules to take advantages of concurrent programming

#### Course: Software Design Patterns

- Course Outcome as per Blooms Taxonomy
- Ability to identify the structure, framework of Design Patterns for a given problem
- Ability to understand the meanings, concepts and types of Design Patterns
- Ability to decide and suggest a design pattern for the given problem
- Exploit the possibilities and limitations of basic design patterns for a given problem and ability to analyze a software development problem
- Ability to evaluate, assess the design pattern that are appropriate for a given problem
- Create software design that are scalable, robust and easily maintainable and consisting multiple modules

#### Course: Artificial Intelligence

- Using some motivating examples to remember and quickly builds up basic concepts such as visual perception, speech recognition, decision-making, and translation between languages
- The students will understand the concepts of Natural-language understanding (NLU) or natural-language interpretation (NLI), as well as topics such as simulation process of human intelligence by machines and special computer systems.

- Students will have thorough knowledge about various level of math, including probability, statistics, algebra, calculus, logic and algorithms.
- Bayesian networking or graphical modeling, including neural networks.
- Physics, engineering and robotics, Computer science, programming languages and coding.
- Compare efficiency of various Theories of Intelligence and learning from experience for solving a particular problem.
- Ability to choose appropriate Knowledge based approach for problem solving. Also ability to use combination of AI theories for problem solving.
- Design and create their own artificial intelligence applications for solving a real life problems

#### Course: Information Security

- Using some basic concepts of software development and software engineering Information can be understood and remembered.
- By remembering students the basing concepts students will understand the concepts of Information, Characteristics, Levels of Information, Information Security Measures and various stages in Information testing Life Cycle.
- Students will Have thorough knowledge about Measures of Information Security and Cyber security at higher level , network security measures and various scanner and cleaners
- To Measure the risk of Information loss or theft and overcome the Information Security by scientific and proper methods.
- Ability to select proper method to protect the information from misuse and make the organization full proof from various Information threats.
- Design and create their own procedure to protect the important data and information at all the levels.

# BBA PROGRAMME

## Program Outcomes (PO): BBA

- Apply the knowledge of management theories and practices to solve business problems
- Ability to understand, analyze and communicate global, economic, legal and ethical aspects of business
- Read, write, and contribute to Business literature
- Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment

## Course Outcome: BBA Programme

### Business English – Communication

- Understand how to converse in business situations
- Write effective e-mails, Letters
- Write formal and informal Reports

### Business Organization & Systems

- Understand the basic concepts in commerce, trade and industry. He will be exposed to modern business world.
- Understand modern business practices, forms, procedures and functioning of various business organizations.

### Micro Economics

- Students will be able to use economic reasoning to problems of business.

### Business Accounting

- Importance and utility of Financial Accounting
- Accounting process from entering the business transactions to journal to preparation of Final Accounts of a sole proprietor.

### Foundation of Mathematics & Statistics

- Students will be able to solve problems in Mathematics using appropriate concepts
- Students will be able to effectively apply the statistical tools for business applications

### Community Work

- Students will be able to know the community needs and understand their role to contribute meaningfully towards community development

### Career & Life Skills

- Students will be able to understand self potential and ways to enhance capabilities.

### Waste Management

- To understand solid waste sources, health and environmental issues related to solid waste management.
- To get knowledge about Sources, handling and control of Biomedical, Chemical, Nuclear and e-wastes.
- to understand the issues regarding waste disposal and management and will become aware of Environment and health impacts due to solid waste mismanagement

### Environment Studies

- To understand the different aspects of environments, the threats posed by human activities and the solutions for the same.

### Principles of Management

- Integrate management principles into management practices.
- Assess managerial practices and choices relative to ethical principles and standards.
- Specify how the managerial tasks of planning, organizing, and controlling can be executed in a variety of circumstances.
- Determine the most effective action to take in specific situations

### Macro Economics

- To get acquainted with the principles of Macroeconomics, determination of and linkages between major economic variables ; Level of output and prices, inflation, interest rates and exchange rates.

### Management Accounting

- Understand basic cost concepts, element of cost & Preparation of Cost Sheet.
- Have practical applications of important Methods & Techniques of costing.
- Understand the application of concept of management and cost audit.

### Business Statistics

- To solve problems in Statistics using appropriate concepts
- To effectively apply the statistical tools for business applications

### Community Work – Swachh Bharat Abhiyan

- To understand the details about the Swachh Bharat Abhiyan and its impact on society.

### Smart Cities

- Students will get an understanding of road map for Planning Smart Cities and benchmarking their performance for Indian context

### Sectoral Analysis

- Students will get exposure to the different sectors of the economy and their contribution to the national development

## BCA PROGRAMME

### Program Outcomes (PO): BCA

- Analyze problems and design effective and efficient software solutions
- Develop software under latest Application Development Environments
- Learn new technologies with ease and be productive at all times
- Read, write, and contribute to technical literature
- Work in teams
- Be a good citizen in all respects

### Course Outcomes (CO): BCA

#### Fundamentals of Information Technology

- Understand basic concepts and terminology of information technology.
- Have a basic understanding of personal computers and their operations.
- Be able to identify issues related to information security.

#### Algorithm and Program Design

- To learn good principles of algorithm design;
- To analyze algorithms and estimate their worst-case and average-case behaviour (in easy cases);
- To become familiar with fundamental data structures and with the manner in which these data structures can best be implemented;
- To become accustomed to the description of algorithms in both functional and procedural styles;

#### C Programming - I

- To solve a given problem using programming/algorithm
- To Understand and use C libraries,
- To Trace the given C program manually
- To Effectively use of Arrays and functions

#### Business Organization System

- To know about business and structure
- To know about various forms of business
- To have sound knowledge about overall business environment.

#### Business Mathematics

- To solve small business problems by using the concepts of Business Mathematics

### Lab on MS-Office Suite

- Demonstrate an advanced knowledge of the Word Processing package, MS Office and a knowledge of how to design & create effective and structured documents like technical reports, letters, brochures, etc.,
- Demonstrate the skills in the appropriate use of various features of the spread sheet package MS Excel and also to create useful spreadsheet applications like tabulated statements, balance sheets, statistical charts, business statements, etc.
- Demonstrate the skills in making an effective presentation with audio and video effects using the MS Excel package
- Draw graphical pictures, flow charts, block diagrams etc., using the drawing tools available in MS Word or MS Power Point and incorporate them into documents and presentations.

### Lab on C Programming I

- Implement a real-world problem using basic constructs of C language.
- Develop an application using Decision making and looping
- Make use of proper operators to solve problem.
- Make use of Arrays and pointers efficiently and handling strings.
- Comprehend the dynamic memory allocation and pointers in C.
- Able to define new data types using enum, structures and typedef.

### General Course-I Business English

- to Understand how to converse in business situations and
- Write effective e-mails, prepare proposals & flyers, news reports.

### Computer Organization and Architecture

- Simple machine architecture and the reduced instruction set computers.
- Memory control, direct memory access, interrupts, and memory organization
- Basic data flow through the CPU (interfacing, bus control logic, and internal communications).
- Number systems, instruction sets, addressing modes, and data/instruction formats.

### Database Management System

- Understand the concepts of database and techniques for its management.
- Different Data Models at Conceptual and Logical level.
- Differentiate between the role of DBA and Data Architect
- Understanding Data Security standards and Methods

### C Programming – II

- Have thorough knowledge about data structures
- Ability to design& develop program using linear data structures& non linear data structures for solving problems



- Ability to choose appropriate data structures for problem solving
- Ability to use combination of these data structures for problem solving.

#### Financial Accounting

- The knowledge of accounting and its principles at basic level.
- Practical's in Tally and Excel for Financial Accounting assignments

#### Principles of Management

- To understand the functions and processes of business management.

#### Lab on C Programming -II

- Define basic data structures such as Date, Currency and Rational; and using it.
- Defining and using and updating Linear data structures: arrays and Linked List
- Should define data types such as stack, queue and List
- Able to read and write data into files.
- Able to define hierarchical data types; manipulate and use it.
- Able to understand searching and sorting mechanism and use various algorithms on it.

#### Environment Studies

- Understand the importance of Environment in the life of living things.

#### General Course II Business Communication

- Understand the concept of communication and use of different media
- able to make effective written and oral communication

#### Operating Systems

- Explain the concepts of process, address space and file
- Compare and contrast various CPU scheduling algorithms
- Understand functioning and working of Windows as well as Unix Operating System

#### Software Engineering

- Understand life cycle models, Requirement elicitation techniques, understand the concept of Analysis and Design of software.
- Develop SRS as per any of the existing standards.
- Implement software engineering concepts in software development to develop quality software.

#### DBMS – II

- Creating tables, and queries using SQL
- Applying SQL Operators and SQL Functions in the created tables in SQL;
- Writing and solving complex queries based on joins, sub queries
- Writing PL/SQL blocks, objects

### Statistics

- Tabulate the raw data by using frequency distribution and represent the data graphically.
- Analyze the data by using measures of central tendency and dispersion
- Estimate the value of dependent variable
- Generate the relationship between two variables in the form of degree or equation

### Multimedia Technology

- To understand about various interactive multimedia devices, the basic concept about images and image formats.
- To understand different software tools used in multimedia.

### Lab on Oracle and Multimedia

- Creating tables, and queries using SQL
- Applying SQL Operators and SQL Functions in the created tables in SQL;
- Writing and solving complex queries based on joins, sub queries
- Writing PL/SQL blocks, objects
- Creating multimedia file
- Understanding the use of multimedia in web sites

### Lab on Linux Operating System

- The course is to provide the knowledge of the Linux Operating System. This course intends to teach various features that will help the students to use and learn the working of Ubuntu /Red Hat operating system

### Community Work III

- Students will be able to know the community needs and  Understand their role towards community development.

### Start-Up Management

- Students will be able to understand the role of startups and case studies of well-known startups in India.

### Agro Tourism

- Students will be able to obtain and diversify knowledge from tourism, rural tourism and their specific form agri-tourism.

### Computer Networks

- Students will acquire a good knowledge of the computer network, its architecture and operation.
- Student will be able to pursue his study in advanced networking courses (This knowledge will help them to create base for the Network Electives to be studied in the next semesters).
- Students will be able to follow trends of computer networks. So, students will get expose to advanced network technologies like MANET, WSN, and 4G.

### Software Testing

- Understand basic concepts and terminology of information technology.
- Have a basic understanding of personal computers and their operations.
- Be able to identify issues related to information security.

### Java Programming

- Design interfaces, abstract and concrete classes
- Use concurrent programming, java Collections and utility classes
- Able to achieve object persistence using object serialization.
- Design applications using event driven programming.
- Get the main features of Java Programming for Business Applications

### Operations Research

- Students will be able to describe characteristics and scope of OR.
- Students will be able to define and formulate mathematical problems.
- Students will be able to select optimal problems solving techniques for a given problem using LP.
- Students will be able to formulate and solve transportation, travelling sales problems.
- Students will be able to demonstrate and solve simple models of Game theory.
- Students will be able to solve different problems related to Network.

### Entrepreneurship Development

- Evolution, definition, characteristics, function and types of entrepreneurs.
- Role of Entrepreneurship in Economic Development.
- Business Opportunity Identification
- Importance of Business plan
- Support Agencies
- Concept of Intellectual property rights

### Community Work-IV

- Students will be able to know the community needs and
- understand their role to contribute meaningfully towards community development

### Basics of Taxation

- Students will be able to have a basic knowledge about direct tax system in India
- Students will be able to have a basic knowledge about indirect tax system in India.
- Students will be upgraded and up skilled with the latest amendments in taxation policy of India.

### YOGA - I

- Students will be able to understand the advantages of Yoga and practice basic yog kriyas

### Introduction to the Internet Technologies

- Describe and use client-side technologies of the World Wide Web: HTML5, CSS3, JavaScript.
- To implement different constructs and programming techniques provided by Java Script.

### Object Oriented Analysis and Design

- Advantages of using OOP platforms for development.
- Process carried out while designing Object Oriented Systems.

### C# Programming

- To build applications with a graphical user interface (GUI) for the Microsoft Windows operating system although GUI interfaces on other operating systems, and on the Web Topics

### Graph Theory

- Use graphs as models in a variety of areas.
- Formulate several real-world problems in mathematical terms

### Lab on Internet Technology and C# Programming

- Describe and use client-side technologies of the World Wide Web: HTML5, CSS3, JavaScript.
- To implement different constructs and programming techniques provided by Java Script.

### Minor Project II

- Students will learn by doing assignments focusing on social media, post writing and publishing, management and measurement tools, a social media audit, editorial calendar and crises management.
- Students will master the skills necessary to become successful social media managers.

### Event Management

- The students are oriented to event management in order to strengthen their skills of planning, organizing and other such management functional skills.

### Data Warehousing and Data Mining

- Process raw data to make it suitable for various data mining algorithms.
- Discover and measure interesting patterns from different kinds of databases.
- Apply the techniques of clustering, classification, association finding, feature selection and visualization to real world data.

## Web Programming

- Design web pages
- Knowledge about different types of web sites
- Navigation amongst web pages
- Knowledge about presenting information on web interfaces

## Software Project Management

- Understand and practice the process of project management and its application in delivering successful IT projects;
- Evaluate a project to develop the scope of work, provide accurate cost estimates and to plan the various activities;
- Identify the resources required for a project and to produce a work plan and resource schedule.

## Business Analytics

- Identify and prioritize information & data modelling.
- Identify and prioritize threats to information assets.
- Define an Geographical information system.
- Understand various types of Analytics and its significance.
- Understand text & web mining
- Applications of business analytics

## Business Ethics

- This course exposes the student to the issues of values and ethics in management so that decision making and decision execution are undertaken in a human manner, as this will add to the flexibility and dynamism of the corporate culture.
- The course will take the student from managerial ethics to organizational ethics and business sustainability.

## Information Security Concepts

- Theoretical understanding of Information Security Concepts

## Information Security Administration

- Practical understanding of setting, managing and securing Information Systems

## Introduction to Big Data

- Good knowledge of Big Data Concepts
- Knowledge of Decision-making using analysis on the Big Data
- Introduction to Big data Tools like Hadoop and Weka.

## HADOOP

- Good knowledge of HADOOP Tool.
- Knowledge of Decision-making using HADOOP analysis on the Big Data
- Hands-on Big Data tools- Hadoop, Pig, Hive, HBase

### E-Commerce

- Recognize the impact of Information and Communication technologies, especially of the Internet in business operations
- Recognize the fundamental principles of e-Business and e-Commerce
- Use tools and services of the internet in the development of a virtual e-commerce site

### Knowledge Management

- Will be able to understand the concepts of Knowledge and knowledge management.
- Can be able to design and develop Knowledge management systems for Business applications
- Implementation of KM to various areas of Interest in Business Organizations.