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SHIVNAGAR VIDYA PRASARAK MANDAL'S

College of Commerce, Science & Computer Education,

(Approved by Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University)
PU/PN/CS/B.B.A., B.C.A. -247/2006

Malegaon (Bk), Tal. - Baramati, Dist. - Pune, Pin – 413 115. Phone Fax - 02112-254388

Course Outcomes

Program Outcomes

Program Specific Outcomes

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BBA (2013 Pattern)

Sr.No.	Program Outcomes (POs)
PO1:	Understand the importance of management discipline.
PO2:	Build a strong foundation of knowledge in different areas of management.
PO3:	Develop the necessary professional skills of applying concepts and techniques used in management for real life problems.
PO4:	Develop reading, writing, speaking skills and Business correspondence.
PO5:	Understand ethical factors in the business environment.
PO6:	Discuss and evaluate economic environment of country as well as world.
PO7:	Prepare professional presentations by using technology.
PO8:	Create opportunities for self-employment and start their own start-ups.
PO9:	Discover emerging opportunities in the Management Profession.

Specialization-Marketing Management

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	Introduce and familiarize with basic concepts of marketing, its general nature, scope and importance.
PSO2:	Develop basics and essential skills related to marketing and recent trends in marketing.
PSO3:	Comprehends advanced skills in the areas of interpersonal communications, Motivational techniques essential for a successful sales person.
PSO4:	Comprehends insights into the functional areas of retailing.
PSO5:	Understand the paradigm shifts in retailing business with increasing scope of technology and e-business.
PSO6:	Comprehends the knowledge and understanding of importance and functions of advertising.
PSO7:	Understand the features of Sales Promotion techniques.
PSO8:	Face the practical problems in marketing with case studies
PSO9:	Understand and analyze real marketing problems with case study or research

Specialization-: Financial Management

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	Describe the finance related areas like Shares, Debentures, Financial Instruments, Financial Services and Markets etc.
PSO2:	Reproduce the sources of short & long term finance for a business and management of these sources.
PSO3:	Interpret the financial statements effectively & finance structures.
PSO4:	Evaluate the current financial practices followed in the corporate world.
PSO5:	Apply the practical aspects of finance function with case studies.
PSO6:	Write an analytical report on finance related topic
PSO7:	Subdivide different complications in finance decision making and skills required to deal with them.

Specialization- Human Resource Management

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	The application of theory into practice.
PSO2:	Analyze the HR problems and solve it skillfully with case studies.
PSO3:	Acquainted with important legal provisions governing the industrial employees.
PSO4:	Describe the legal aspects of HR function of a company.
PSO5:	Comprehends HRM functions & practices like promotion, appraisal, wages administration etc.
PSO6:	Comprehend the HR relations with exposure to cases, events etc.
PSO7:	Describe the basic and advanced functions of human resource department.
PSO8:	Comprehend human resource processes that are concerned with planning, motivating and

Sr.No.	Program Specific Outcomes (PSOs)
	developing suitable employees for the benefit of the organization.

Course Outcomes (COs): Course Name: 101- Business Organization and System

Sr.No.	Course Outcomes (COs)
CO1:	Describe various activities of business business practices and recent trends in business world.
CO2:	Get acquainted with challenges before the businesses and setting up of a business enterprise.
CO3:	Aspired with the spirit of entrepreneurship.
CO4:	Discuss recent trends in management.

Course Name: 102-Business Communication Skills

Sr.No.	Course Outcomes (COs)
CO1:	Discriminate the skills such as linguistic and non linguistic.
CO2:	Judge an integrative approach where reading, writing, oral and speaking components have been used together to enhance the students' ability to communicate and write effectively.
CO3:	Analyze business letter writing and Media of communication in business.
CO4:	Express the topic very effectively
CO5:	produce their own meanings of the terms they received on the topics
CO6:	Show their skills in presentation and group activities
CO7:	Discuss and demonstrate the various terms in vocabulary
CO8:	Use their potential in the individual and group activities
CO9:	List down the grammatical terms in English
CO10:	Explain the topic related to listening, speaking, reading and writing topics in communication

Course Name: 103-Business Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Reproduce all basic concepts of accounting.
CO2:	Classify the accounts and prepare Journal, Ledger Accounts and Final Accounts.
CO3:	Analyze the profit and Loss Account and Balance Sheet and compare the same of one firm with the other.
CO4:	Appraise the financial position of the business with the help of Balane Sheet.
CO5:	Solve problems on Journal, Ledger, and Cash Book.
CO6:	Define the term Depreciation and solve the problem on Depreciation Account.

Course Name: 104-Business Economics (Micro)

Sr.No.	Course Outcomes (COs)
CO1:	Define and reproduce basic micro economic concepts.
CO2:	Relate the economic analysis in the formulation of business policies.
CO3:	Develop economic reasoning to problems of business.
CO4:	Explain the concept of Demand and Supply.
CO5:	Demonstrate types of costs.

Course Name: 105-Business Mathematics

Sr.No.	Course Outcomes (COs)
CO1:	Define and memorize basic concepts in business mathematics.
CO2:	Apply mathematical concepts like matrices, transportation, profit and loss etc. In business decisions.
CO3:	Describe the concept and application of Permutations & Combinations in business.

Course Name: 106-Business Demography and Environmental Studies

Sr.No.	Course Outcomes (COs)
CO1:	Explain various concepts in demography like Sex ratio, Literacy, Migration, population density

Sr.No.	Course Outcomes (COs)
	etc.
CO2:	Explain the importance of population for decisions in business.
CO3:	Identify the environmental problems related to business and the remedies or the legal framework
CO4:	Infer the values of Environmental ethics.
CO5:	Discuss the problems and remedies of urbanization
CO6:	Rewrite the importance of Literate population

Course Name: 201-Principles of Management

Sr.No.	Course Outcomes (COs)
CO1:	Comprehend regarding nature, complexity and various functions of management
CO2:	Acquainted with historical perspectives of management
CO3:	Describe recent trends, international aspects and the theories of management

Course Name: 202-Principles of Marketing

Sr.No.	Course Outcomes (COs)
CO1:	Describe basic concepts of marketing, its general nature, scope and importance.
CO2:	Understand the primary functions and applications of marketing principles
CO3:	Assess basics and essential skills related to marketing.
CO4:	Analyze the opportunities essential for students in marketing industry.

Course Name: 203 Principles of Finance

Sr.No.	Course Outcomes (COs)
CO1:	Discuss the nature, importance, structure of finance related areas.
CO2:	Explain sources of finance for a business.
CO3:	Discuss different concepts like capital structure, dividend, capitalization etc.
CO4:	Debate the different aspects of Financial management
CO5:	Identify the Internal and External sources of finance
CO6:	Summarize the factors affecting of capital structure of a business
CO7:	Interpret the term Financial Planning

Course Name: 204-Basics of Cost Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Define and understand basic cost concepts, element of cost.
CO2:	Solve problems on Cost Sheet.
CO3:	Analyze the basic important Methods of costing required in business.
CO4:	Solve problems on Cost Sheet.
CO5:	Interpret the concepts Contract Costing, Process Costing and Operating Costing.
CO6:	Solve problems on Contract Costing, Process Costing and Operating Costing.

Course Name: 205-Business Statistics

Sr.No.	Course Outcomes (COs)
CO1:	Describe basic concepts of statistics such as concept of population and sample & to use frequency distribution to make decision.
CO2:	Apply basic concepts of statistics such as concept of population and sample in frequency distribution to make decision.
CO3:	Calculate various types of averages and variation.
CO4:	Explain the Correlation and regression analysis.
CO5:	Correlation and regression analysis to estimate the relationship between two variables and its applications.
CO6:	Apply Time Series and Index numbers in business research.

Course Name: 206-Business Informatics

Sr.No.	Course Outcomes (COs)
CO1:	Understand the basics of Computer.
CO2:	Describe basics of networking.
CO3:	Interpret the basics of internet.
CO4:	Apply the basics of Computer, networking, internet, database applications in business

Course Name: 301-Personality Development

Sr.No.	Course Outcomes (COs)
CO1:	Develop the dimensions and importance of an effective personality.
CO2:	Different personality traits its formation and use in business.
CO3:	Understand various dynamics of personality development

Course Name: 302-Business Ethics

Sr.No.	Course Outcomes (COs)
CO1:	Acquainted with Business Ethics concepts.
CO2:	Promote Ethical Practices in the Business.
CO3:	Develop Ethical and Value Based thought process among themselves

Course Name: 303-Human Resource Management and Organization Behavior

Sr.No.	Course Outcomes (COs)
CO1:	Describe the functions of human resource department
CO2:	Comprehend human resource processes that are concerned with planning, motivating and developing suitable employees for the benefit of the organization.

Course Name: 304-Management Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Explain the concepts in Management Accounting.
CO2:	Interpret and recall the implications of various financial ratios, working capital, budget and budgetary control in decision making.
CO3:	Apply various techniques of management accounting.
CO4:	Restate the concept of Working Capital
CO5:	Define the Budget and Budgetary control

Course Name: 305-Business Economics (Macro)

Sr.No.	Course Outcomes (COs)
CO1:	Explain the behavior & working of the economy as a whole.
CO2:	Understand the inter-linkages among the crucial macroeconomic variables.
CO3:	Analyze problems of business and public policy.

Course Name: 306-I.T. in Management

Sr.No.	Course Outcomes (COs)
CO1:	Describe the role of IT in Management.
CO2:	Discuss the basics of operating systems.
CO3:	Assess the current happenings in IT and its impact on other industries.

Course Name: 401-Production and Operations Management

Sr.No.	Course Outcomes (COs)
CO1:	Explain the basic concepts like goods, types of goods, production, production process etc. In manufacturing sector.
CO2:	Discuss the emerging manufacturing technologies like CAD, CAM and its role in developing business strategy.

Sr.No.	Course Outcomes (COs)
CO3:	Express the concepts like quality control, Six Sigma, ergonomics, industrial safety etc.
CO4:	Recall different types of production processes

Course Name: 402-Industrial Relations & Labour Laws

Sr.No.	Course Outcomes (COs)
CO1:	Differentiate about complexities between labour and management relationships.
CO2:	Aware about mechanisms of Industrial Dispute and friendly interventions to deal with employee-employer problems.
CO3:	Acquainted with the knowledge of laws & how law affects the industry & labour

Course Name: 403-Business Taxation

Sr.No.	Course Outcomes (COs)
CO1:	Memorize the basic concepts and definitions under the Income Tax Act, 1961
CO2:	Evaluate latest development in the subject of taxation.
CO3:	Calculate and interpret Income under different heads of Income of Income Tax Act, 1961.
CO4:	Tell the process of submission of Income Tax Return, Advance Tax, Tax deducted at Source, Tax Collection Authorities and different sections.
CO5:	Calculate taxable income of firms, co-operative societies and charitable trust.

Course Name: 404-International Business

Sr.No.	Course Outcomes (COs)
CO1:	Understand and assess emerging issues in international business.
CO2:	Evaluate the impact of international business environment on foreign market operations.
CO3:	Express the importance of foreign trade for Indian economy.

Course Name: 405-Management Information

Sr.No.	Course Outcomes (COs)
CO1:	Describe the concepts of Information System
CO2:	Name and state the concepts in system analysis and design
CO3:	Explain importance of MIS
CO4:	Assess issues in MIS

Course Name: 406-Business Exposure (Field Visits)

Sr.No.	Course Outcomes (COs)
CO1:	Comprehend the realistic picture of the industry its layout, procedures, processes, organization structure.
CO2:	Acquire the firsthand information regarding the functioning of the Industry and its different departments.
CO3:	Prepare report of visits to the companies
CO4:	Discuss the differences in different business types

Course Name: 501-Supply Chain and Logistics Management

Sr.No.	Course Outcomes (COs)
CO1:	Understand fundamental concepts in Materials and Logistics Management.
CO2:	Explain the issues in core functions in materials and logistics management
CO3:	Understand fundamental concepts in Materials and Logistics Management.
CO4:	Find Economic Order Quantity.
CO5:	Define the concepts Gant Charts, PERT, CPM.

Course Name: 502-Entrepreneurship Development

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	Acquired knowledge about the entrepreneurial avenues available
CO2:	Up bring out their own business plan.
CO3:	Comprehends the creating and managing of new venture.

Course Name: 503-Business Law

Sr.No.	Course Outcomes (COs)
CO1:	Understood the basic legal terms and concepts used in law pertaining to business
CO2:	Understood the applicability of legal principles to situations in Business world by referring to few decided leading cases.

Course Name: 504-Research Methodology (Tools and Analysis)

Sr.No.	Course Outcomes (COs)
CO1:	Define various concepts in research methodology.
CO2:	Frame research design.
CO3:	Explain data collection process.
CO4:	Differentiate primary and secondary data, analysis of data, drawing inferences and report writing.
CO5:	Analyze the data collected through various data collection methods, drawing inferences and report writing.
CO6:	Draw inferences based on the survey analysis.
CO7:	Prepare report based upon survey analysis.
CO:8	Refer various material sources such as journals, magazines, papers etc.
CO:9	Write literature based and survey based papers

Course Name: 505-A Finance Special Paper I - Analysis of Financial Statements

Sr.No.	Course Outcomes (COs)
CO1:	Define basic concepts used in Financial Statements.
CO2:	Analyze and interpret financial statements.
CO3:	Discuss current financial practices in corporate world
CO4:	Explain how the finance experts use financial statements to discharge their professional responsibilities.

Course Name: 505-B - Specialization- I – Sales Management (Marketing - I)

Sr.No.	Course Outcomes (COs)
CO1:	Explain processes and skills necessary to be successful in personal selling and insights about recent trends in sales management.
CO2:	Apply the tools and techniques necessary to effectively manage the sales function - organization - sales individual.

Course Name: 505-C - Human Resource Management Special Paper I - Human Resource Management Principles and Functions

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concepts, principles and practices of H.R.M. and its importance in present era.
CO2:	Explain the concept HR planning.
CO3:	Describe recruitment and selection.
CO4:	Define training, development and evaluation
CO5:	Explain exit policy.

Course Name: 506-A- Finance Special Paper II - Long Term Finance

Sr.No.	Course Outcomes (COs)
CO1:	Express long-term financing, means, rationality etc.
CO2:	Assess the financial structures in companies

Sr.No.	Course Outcomes (COs)
CO3:	Write the use of financial terms in real business life.
CO4:	Solve the cases on cost of capital, leverage and Weighted average cost of capital

Course Name: 506-B Marketing Special Paper II - Retail Management

Sr.No.	Course Outcomes (COs)
CO1:	Recall and reproduce all functional areas of retailing.
CO2:	Express different perspectives of the Indian retail scenario.
CO3:	Assess the paradigm shifts in retailing business with increasing scope of technology and e-business.

Course Name: 506C-Human Resource Management Special Paper II - Human Resource Practices

Sr.No.	Course Outcomes (COs)
CO1:	Describe HRM functions & practices
CO2:	Express and interpret executive compensation and working conditions and employee welfare.
CO3:	Enumerate HR practices with more exposure to cases.

Course Name: 601-Business Planning and Project Management

Sr.No.	Course Outcomes (COs)
CO1:	Able to plan process in business and can relate the functions and techniques of project management with business.
CO2:	Explain the terms like business forecasting, planning, initial coordination required to set up a new business.
CO3:	Rewrite the project life cycle
CO4:	Prepare a project report for new business
CO5:	Define the networking techniques like CPM and PERT
CO6:	Discuss the challenges for new businesses

Course Name: 602-Event Management

Sr.No.	Course Outcomes (COs)
CO1:	Explain concepts, issues and various aspects of event management.
CO2:	Plan and execute the event and various aspects pertaining to event management.

Course Name: 603-Management Control System

Sr.No.	Course Outcomes (COs)
CO1:	Understand the basic concept and functions of management control and its nature.
CO2:	Get knowledge about how management control is essential and work in functional areas like inventory, production, IT, personnel area and marketing
CO3:	Describe the business practices and controlling systems.
CO4:	Know about basic concept of project, various aspect of project, factors affecting on project as well as project planning and control.

Course Name: 604-E- Commerce

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concept of electronic commerce
CO2:	Discuss the concepts of Cyber Law & Cyber Jurisprudence
CO3:	Analyze Internet marketing techniques.

Course Name: 605-A Finance Special Paper III - Financial Services

Sr.No.	Course Outcomes (COs)
CO1:	Explain the structure of Indian Financial System.
CO2:	Describe the functions of financial markets in India.

Sr.No.	Course Outcomes (COs)
CO3:	Assess Role of SEBI as a regulatory authority in the financial system.
CO4:	Discuss the financial services rendered by various professional bodies in India.
CO5:	Examine the role of RBI and IRDA as a regulatory authority.
CO6:	Interpret Recent Trends in Accounting and Finance such as Zero Base Budgeting, Inflation Accounting, Human Resource Accounting, Mergers and Acquisition etc.

Course Name: 605-B - Marketing Special Paper III - Advertising and Sales Promotion

Sr.No.	Course Outcomes (COs)
CO1:	Know and understand the importance and functions of advertising.
CO2:	Understand all about various types of decisions in advertising and sales promotion like copy decisions, media decisions etc.
CO3:	Examine with role of information and technology in advertising and sales promotion
CO4:	Describe key features of Sales Promotion.

Course Name: 605-C - Human Resource Management Special Paper III - Labor Laws

Sr.No.	Course Outcomes (COs)
CO1:	Acquainted with important legal provisions governing the industrial employees
CO2:	Comprehends the legal aspects of HR function of a company

Course Name: 606-A - Finance Special Paper IV - Cases in Finance/ Project

Sr.No.	Course Outcomes (COs)
CO1:	Explain the practical aspects of Finance function with cases
CO2:	Write an analytical report on finance related topic
CO3:	Differentiate the complications in finance decision making and skills required to deal with them
CO4:	Prepare detailed report of a particular topic and present it
CO5:	Solve the cases on capital budgeting, cost of capital and working capital

Course Name: 606-B - Marketing Special Paper IV - Cases in Marketing / Project

Sr.No.	Course Outcomes (COs)
CO1:	Face the practical problems in marketing with case studies.
CO2:	Complete the project report based on real marketing case study or research.
CO3:	Understand different complications in marketing and skills required to deal with them.

Course Name: 606-C - Human Resource Management Special Paper IV - Cases in Human Resource Management / Project

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concepts in case study.
CO2:	Analyze the HR related problems and solve them skillfully with the help of case studies
CO3:	Understand the nature of the case in HR and skills required to solve the same.
CO4:	Prepare a detailed project report on the topic related to HRM and present it.

HOD
(Dr. S.V.Gawade)

IQAC Head
(Dr. M.S.Bhutane)

Principal
(Dr. A.A.Chandgude)

College of Commerce Science and Computer Education Malegaon Bk. Tal.Baramati (Pune)

Sr.No.	Program Outcome (POs)
PO1:	develop the career in Computer Application.
PO2:	demonstrate Conceptual grounding in computer usage as well as its practical business application will be provided.
PO3:	develop the program's in different languages and applications.
PO4:	use the knowledge of Software Testing.
PO5:	use the knowledge of Networking.
PO6:	use different technologies like JAVA, VB, PHP, Dot Net etc and develop applications
PO7:	apply their knowledge of software in live applications
PO8:	develop websites and web applications.

Sr.No.	Programme Specific Outcome (PSOs)
PSO1:	develop computer applications
PSO2:	develop web applications, mobile applications
PSO3:	design websites which are useful in different fields

Course Name: 101-Modern Operating Environment & MS Office

Sr.No.	Course Outcomes (COs)
CO1:	explain system basic concepts and its application of Computer.
CO2:	explain concept of hardware, software and input and output devices.
CO3:	describe working of computer and memory concept.
CO4:	explain concept of Operating system.
CO5:	solve the binary, decimal and octal arithmetic.
CO6:	explain the concepts of networking, topologies etc.

Course Name: 102- Financial Accounting

Sr.No.	Course Outcomes (COs)
CO1:	use knowledge in setting up a computerized set of accounting books.
CO2:	explain progressive affective domain development of values, the role of accounting in society and business.
CO3:	explain relevant financial accounting career skills
CO4:	use both quantitative and qualitative knowledge to their future careers in business.
CO5:	describe relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
CO6:	apply thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, and finance, auditing and marketing.
CO7:	identify features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.
CO8:	show proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.

Course Name: 103- Principles of Programming and Algorithms

Sr.No.	Course Outcomes (COs)
CO1:	Develop Logical & Analytical Thinking.
CO2:	Implement Problem Solving Techniques
CO3:	Develop algorithms and flowcharts
CO4:	Calculate complexity of algorithms

Sr.No.	Course Outcomes (COs)
CO5:	Convert algorithms & flowcharts in C Programs
CO6:	Generate output through algorithms using Dry Run Technique
CO7:	Develop and design the algorithms for problems on Matrix.
CO8:	Apply logics for solving mathematical problems through algorithms

Course Name: 104 - Business Communication

Sr.No.	Course Outcomes (COs)
CO1:	explain the concept of Communication and importance of communication
CO2:	memories various terms used in the speaking while communicating
CO3:	express the topic very effectively
CO4:	produce their own meanings of the terms they received on the topics
CO5:	show their skills in presentation and group activities
CO6:	discuss and demonstrate the various terms in vocabulary
CO7:	use their potential in the individual and group activities
CO8:	list down the grammatical terms in English

Course Name: 105 - Principles of Management

Sr.No.	Course Outcomes (COs)
CO1:	explain the fundamental knowledge about working of business organization through the process management.
CO2:	describe the concept of management process, functions and principles.
CO3:	discuss with recent trends in management
CO4:	explain basic concept of organization and business administration
CO5:	interpret the basic principles of management - acquainted with management process, functions and principles. Students got the idea about new developments in management.
CO6:	develop managerial skills among them

Course Name: 106 - CLPW

Sr.No.	Course Outcomes (COs)
CO1:	apply the knowledge of MS word, Excel, Powerpoint and Access practically.
CO2:	use the software scratch for problem solving
CO3:	apply the knowledge of Financial Accounting using Tally
CO4:	demonstrate his theoretical knowledge practically in Computer Laboratory

Course Name: 201 - Procedure Oriented Programming using C

Sr.No.	Course Outcomes (COs)
CO1:	explain Logical & Programming concepts
CO2:	Apply Problem Solving Techniques while writing programs
CO3:	Write Programs in C Language
CO4:	Describe and handle data structures based on problem subject area
CO5:	Identify textual information, characters and strings in programs
CO6:	Work with arrays of compound objects
CO7:	Implement a concept of object thinking within the framework of functional model
CO8:	Implement a concept of functional hierarchical code organization

Course Name: 202 - Data Base Management System

Sr.No.	Course Outcomes (COs)
CO1:	explain the concept of how to organize, maintain and retrieve information - efficiently, and effectively - from a DBMS
CO2:	differentiate between different types of Data Models
CO3:	design ER-models to represent simple database application scenarios

Sr.No.	Course Outcomes (COs)
CO4:	convert the ER-model to relational tables, populate relational database
CO5:	formulate SQL queries on data.
CO6:	explain the relational algebra and SQL.
CO7:	design the database by using the concept of normalization

Course Name: 203 - Organizational Behavior

Sr.No.	Course Outcomes (COs)
CO1:	classify the impact that individual, group & structures on employees behavior within the organizations.
CO2:	use the knowledge they have received for the betterment of the organization.
CO3:	describe the human interactions in an organization, find what is driving it and influence it for getting better results in attaining business goals.
CO4:	describe motivation and conflict management strategies
CO5:	explain the importance of team building and effective teamwork

Course Name: 204 - Computer Applications in Statistics

Sr.No.	Course Outcomes (COs)
CO1:	Apply the power of excel spreadsheet in computing summary statistics.
CO2:	Interpret the concept of various measures of central tendency and variation and their importance in business.
CO3:	Solve the concept of probability, distributions and simulation in business world.
CO4:	Solve the concept of Curves like ogive, Histogram etc
CO5:	Apply feature of excel to design histogram and graphs.
CO6:	Describe the business profit and loss using graphs.
CO7:	Explain the model sampling form for binomial distributions.

Course Name: 205 - E-Commerce Concepts

Sr.No.	Course Outcomes (COs)
CO1:	explain the concept of online transactions
CO2:	describe types of business and methodologies of business process.
CO3:	use website, security and electronic payment system.
CO4:	use online transactions easily in real life
CO5:	explain the concept of credit card and debit card technically.
CO6:	use the concept of NEFT and RTGS technically in depth.
CO7:	explain the process of encryption and decryption related to security purpose of business transaction.

Course Name: 206 - CLPW

Sr.No.	Course Outcomes (COs)
CO1:	apply the knowledge of DBMS practically.
CO2:	develop programs using the 'C Programming' for problem solving
CO3:	apply the knowledge of Financial Accounting using Tally
CO4:	demonstrate his theoretical knowledge practically in Computer Laboratory

Course Name: 301 - Relational Database Management System

Sr.No.	Course Outcomes (COs)
CO1:	Manipulate the database using PLSQL blocks such as Procedure, Cursor, Trigger, Function and Packages.
CO2:	Differentiate serializable schedule, Non-Serializable schedule using precedence graph.
CO3:	find transactions are in deadlock and how to handle that deadlock.
CO4:	illustrate transaction recovery by which they can identify Redo, Undo and rollback actions after

Sr.No.	Course Outcomes (COs)
	system Crash.
CO5:	Point out restrictions on database using user defined and named exceptions for insert, update and deleting data.
CO6:	Discriminate between Database and relational database concepts.
CO7:	illustrate Immediate and different update techniques for data recovery of transactions.

Course Name: 302 - Data Structure Using C

Sr.No.	Course Outcomes (COs)
CO1:	explain the different methods to organize large amount of data.
CO2:	explain how different data structures are used in operating system to handle processes.
CO3:	create the programs using the concept of Pointers, Structures & Dynamic Memory Allocation.
CO4:	classify various types of Data Structures
CO5:	express diverse methods for traversing trees
CO6:	evaluate alternative implementations of data structures with respect to performance
CO7:	choose the suitable type of Data Structure to implement the programs

Course Name: 303 - Operating System

Sr.No.	Course Outcomes (COs)
CO1:	Get core knowledge of Operating System
CO2:	Classify concepts of system programming
CO3:	Categorize services provided by operating system and scheduling concepts
CO4:	Analyze memory management techniques and resource management in Operating System
CO5:	Implement the process management policies
CO6:	Solve problems on scheduling of processes
CO7:	Solve different problems of memory management techniques, Disk Scheduling
CO8:	Determine an OS as a resource manager, file system manage,process manager, memory manager and I/O manager.

Course Name: 304 - Business Mathematics

Sr.No.	Course Outcomes (COs)
CO1:	Solve quantitative skills.
CO2:	Explain the concept of profit and loss, simple interest, transportation problems, matrices and how to solve them.
CO3:	Explain the concept of ratio, proportion and percentage.
CO4:	Explain the concept of direct proportion, inverse proportion.
CO5:	Explain the concept of trade discount, cash discount, commission and brokerage.
CO6:	Explain the concept of simple interest, compound interest, EMI.
CO7:	Solve Linear equations and LPP problems.

Course Name: 305 - Software Engineering

Sr.No.	Course Outcomes (COs)
CO1:	explain the software development process in depth.
CO2:	draw software context level diagrams.
CO3:	explain the concept of Software project methods, configuration.
CO4:	explain concept of software testing and its types.
CO5:	describe the concept of requirement of software, system analysis, system design.
CO6:	explain the types of cohesion, coupling and its types, and modules.
CO7:	develop mini project using the concept of ERD, CLD, DFD.
CO8:	describe the techniques of various models like waterfall, SDLC and so on.

Course Name: 306 - CLPW

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	apply the knowledge of RDBMS practically.
CO2:	use the concepts of Data Structures and C Language for problem solving
CO3:	demonstrate his theoretical knowledge practically in Computer Laboratory

Course Name: 401 - OOPs Using C++

Sr.No.	Course Outcomes (COs)
CO1:	explain the concepts of OOPs and the issues involved in effective class design.
CO2:	differentiate between the Object Oriented Programming and Procedure Oriented Programming
CO3:	relate OOPs concepts such as information hiding, constructor, destructor, inheritance with real world
CO4:	create C++ programs that use OOPs concepts such as information hiding, constructor, destructor, inheritance
CO5:	describe advanced features of C++ specifically stream I/O, templates and operator overloading
CO6:	develop the C++ application using file handling.
CO7:	implement the C++ programs using exception handling

Course Name: 402 - Programming in VB

Sr.No.	Course Outcomes (COs)
CO1:	explain properties and events, methods of controls
CO2:	Solve how to handle events of different controls
CO3:	use the active controls
CO4:	design VB application
CO5:	Implement connectivity between VB and databases.
CO6:	develop a Graphical User Interface (GUI) based on problem description
CO7:	demonstrate knowledge of programming terminology and how to apply using VisualBasic (e.g., variables, selection statements, repetition statements, etc.)

Course Name: 403 - Computer Networking

Sr.No.	Course Outcomes (COs)
CO1:	explain about computer network.
CO2:	explain about various network topologies
CO3:	identify the different types of network devices and their functions within a network
CO4:	explain the use of connecting device used in network.
CO5:	Explain key networking protocols, and their hierarchical relationship in the context of a conceptual model, such as the OSI and TCP/IP framework
CO6:	explain and analyze different wired and wireless technologies
CO7:	Identify the different types of network topologies and protocols

Course Name: 404 - Enterprise Recourse Planning

Sr.No.	Course Outcomes (COs)
CO1:	describe the concept of ERP.
CO2:	classify different ERP technologies.
CO3:	explain and define and motivating the need for integrated systems.
CO4:	prepare focus solely on one ERP vendor's products.
CO5:	use the process modeling techniques in one or more modeling environments.
CO6:	choose reengineered business processes for successful ERP implementation. focus solely on one ERP vendor's products
CO7:	relate the Design the ERP implementation strategies.

Course Name: 405 - Human Resource Mgt

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	explain the concept of HRM, its different functions in an organization.
CO2:	describe the HRM Process concerned with planning, motivating and developing suitable employees for the benefit of the organization.
CO3:	explain the process and functions of organization
CO4:	connect the concept of management of an organization.
CO5:	use the concept of human resource like salary calculation, gratuity, PF.
CO6:	calculate Bonus, and PPF and leave calculation of employees.
CO7:	develop mini project for any organization regarding HR process, and functions of management
CO8:	plan the resource functions for any related to HR functionality of any company.

Course Name: 406 - CLPW

Sr.No.	Course Outcomes (COs)
CO1:	apply the knowledge OOP concepts and develop programsusing C++ Programming Language practically.
CO2:	use the concepts of VB for designing GUI and problem solving
CO3:	demonstrate his theoretical knowledge practically in Computer Laboratory

Course Name: 501 - Java Programming

Sr.No.	Course Outcomes (COs)
CO1:	explain the basic concepts of Java Programming
CO2:	use the Java Programming in Day to Day Applications.
CO3:	explain the concepts of object oriented programming.
CO4:	describe the concepts of abstraction, inheritance etc.
CO5:	describe the fundamental features of JAVA programming such as platform independence, garbage collector etc.
CO6:	develop the java application using file handling.
CO7:	use the different classes given in collection framework.

Course Name: 502 - Web Technology

Sr.No.	Course Outcomes (COs)
CO1:	Describe concept of internet application, HTML Tags
CO2:	Differentiate Functioning of Database Web Application and Static Web Application
CO3:	Develop static web applications using HTML & Javascript.
CO4:	Develop Styles for Static Web Applications using CSS
CO5:	Develop HTML form Validation programs using JavaScript
CO6:	Develop HTML form Validation programs using PHP
CO7:	Develop dynamic web applications using PHP (without database Programming)

Course Name: 503 - Dot Net Programming

Sr.No.	Course Outcomes (COs)
CO1:	build applications using VB.Net
CO2:	apply ADO.Net
CO3:	to retrieve data from SQL Server using VB.NET
CO4:	use the features of Dot Net Framework along with the features of VB.NET
CO5:	Use ADO.Net, Connection object, Data Reader, Data Adapter, Command Object
CO6:	create Classes & objects, properties & methods, object oriented techniques etc
CO7:	Demonstrate various data types & variables, using the .net framework , branching & flow control
CO8:	Implement mini-Projects using VB.NET

Course Name: 504 - Object Oriented Software Engineering

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	explain concept of system design using UML.
CO2:	describe system development through object oriented techniques.
CO3:	define employment in technical positions in software houses and with large-scale scientific and engineering users.
CO4:	describe how to work with other people in a team, communicating computing ideas effectively in speech and in writing.
CO5:	explain the design and communicate ideas about software system solutions at different levels.
CO6:	relate the develop an appreciation of the cost, quality, and management issues involved in software construction.
CO7:	describe how to demonstrate component and deployment diagram.

Course Name: 505 - Project

Sr.No.	Course Outcomes (COs)
CO1:	design the software using concepts of SDLC and SE.
CO2:	design the database using concepts of DBMS and RDBMS
CO3:	develop software using VB
CO4:	apply his theoretical knowledge practically to solve real life problems

Course Name: 506 – CLPW

Sr.No.	Course Outcomes (COs)
CO1:	apply the knowledge of WT and design the website.
CO2:	use the concepts of Dot Net for GUI designing and problem solving
CO3:	apply the concepts of Core JAVA Programming for Problem solving
CO4:	demonstrate his theoretical knowledge practically in Computer Laboratory

Course Name: 601 - Advanced Web Technologies

Sr.No.	Course Outcomes (COs)
CO1:	recall concepts of XML language.
CO2:	explain Ajax Concepts with database connectivity.
CO3:	demonstrate the connectivity of PHP with Database Connectivity.
CO4:	develop their own tags and write a code for XML Programming Language.
CO5:	write programs based on client side scripting as well as server side scripting.
CO6:	differentiate predefined tags and user defined tags.
CO7:	formulate PHP and MYSQL database

Course Name: 602 - Advanced Java

Sr.No.	Course Outcomes (COs)
CO1:	explain the concepts of distributed applications
CO2:	differentiate between client side programming and server side programming
CO3:	describe the importance of session tracking and how to handle it.
CO4:	develop distributed application
CO5:	develop application using database and connectivity through JAVA
CO6:	develop application by using Remote Method Invocation
CO7:	develop web based applications

Course Name: 603 - Recent Trends in IT

Sr.No.	Course Outcomes (COs)
CO1:	Describe upcoming trends in Information technology
CO2:	Discuss eco-friendly software development
CO3:	Use mobile computational capabilities into solving daily problems
CO4:	Integrate with each other over the Internet thus opening gates for lots of other domains such

Sr.No.	Course Outcomes (COs)
	cyber security, cryptography, networking etc.
CO5:	Explain soft computing and optimization tools like fuzzy logic, evolutionary computing to increase capability
CO6:	To solve problems of cryptography in optimal time.
CO7:	Relate currently available models, technologies ,approaches for building distributed database systems and services
CO8:	Identify the functionality of the various data mining and data warehousing component,

Course Name: 604 - Software Testing

Sr.No.	Course Outcomes (COs)
CO1:	Describe the process of software testing and various concepts for testing software.
CO2:	Describe about Various Testing Strategies and Techniques
CO3:	Express about how to go for testing to find bugs in software
CO4:	Develop programming logic as per testing strategies
CO5:	Explain various testing methods for specialized Environments
CO6:	Describe and differentiate various software testing tools
CO7:	Differentiate various types of testing to apply for testing of software

Course Name: 605 - Project

Sr.No.	Course Outcomes (COs)
CO1:	design the software using concepts of SDLC and SE.
CO2:	design the database using concepts of DBMS and RDBMS
CO3:	develop software using JAVA or Dot Net Programming
CO4:	apply his theoretical knowledge practically to solve real life problems

Course Name: 606 – CLPW

Sr.No.	Course Outcomes (COs)
CO1:	apply the knowledge of AWT design the website and dynamic Web Pages.
CO2:	use the concepts of JDBC for Database connectivity
CO3:	apply the concepts of Adv JAVA for distributed applications and Problem solving
CO4:	demonstrate his theoretical knowledge practically in Computer Laboratory

HOD
(Mr. S.S.Taware)

IQAC Head
(Dr. M.S.Phutane)

Principal
(Dr. A.A.Chandgude)

BSc (Computer Science) (2013 Pattern)

Sr.No.	Program Outcomes (POs)
PO1:	An ability to learning the mathematics, science and computer fundamentals to find the optimum solution of complex Computer Science problems.
PO2:	design and development principles in the construction of software systems of varying complexities.
PO3:	An ability to develop the skills to present ideas effectively and efficiently.
PO4:	An ability to solve problems (programming networking database and Web design) in the Information Technology environment.
PO5:	An ability to design computer based solutions for various technical problems.
PO6:	An ability to ensure professional development growth through contextual, reflective and lifelong learning.
PO7:	Ability to design, correctly implement and document solutions to significant computational problems.
PO8:	prepare for continued professional development.
PO9:	An ability todevelop proficiency in the practice of computing.
PO10:	An ability to learn current technical concepts and practices in the core development of solutions in the form of Information technology.

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	To develop the ability to use the information & facts gained during the course of the program from Mathematics, Basic Computing, electronics Sciences and Statistics in general and all computer science courses in particular to identify, formulate and solve real life complex problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.
PSO2:	To enhance the ability to distinguish a problem, identify and define the computing requirements, which may be appropriate to its solution and it also enable learners to design, implement, and estimate a computer-based system, process, component, or program to meet desired needs.
PSO3:	To develop team spirit so that student can function effectively on teams to accomplish a common goal. It also helps students to distinguish between the local and global impact of computing on individuals, organizations, and society. An ability to assist and manage the execution of an effective project plan.

Course Name: CS-101 Problem Solving using Computer & 'C' Programming

Sr.No.	Course Outcomes (COs)
CO1:	Explain the basic concepts of program development statements and its syntax.
CO2:	Describe the various types of arrays and its structure.
CO3:	Define the various types of Functions and String handling mechanisms.
CO4:	Summarize the structures and Unions.
CO5:	Demonstrate the various operations performed on different types of files.
CO6:	Design and use the code and test a 'C' Program to solve a computational problem.
CO7:	Illustrate the flowchart and design an algorithm for a given problem.

Course Name: CS-102 Database Management Systems

Sr.No.	Course Outcomes (COs)
CO1:	Define the fundamentals of File processing and database processing system.
CO2:	Relate the various data model and its application.
CO3:	Relate the various normal forms and its role in DBMS.
CO4:	Describe the fundamental concepts of SQL programs.
CO5:	Construct the concepts of function, procedure, package, trigger and exception handling.
CO6:	Interpret an E R diagram.

Sr.No.	Course Outcomes (COs)
CO7:	Design the Normalize the database.

Course Name: CS-103 -Lab Course I (C Programming)

Sr.No.	Course Outcomes (COs)
CO1:	Read, understand and trace the execution of programs written in C language.
CO2:	Write the C code for a given algorithm.
CO3:	Write the C code using data types & operators.
CO4:	Implement function for writing the program.
CO5:	Implement the loop control structure for writing the code.
CO6:	Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.
CO7:	Implement the file handling for writing C code.

Course Name: CS-104 -Lab Course II (HTML & SQL)

Sr.No.	Course Outcomes (COs)
CO1:	Read, understand and design to create database and relation by using DDL commands.
CO2:	Design conceptual models of a database using ER modeling for real life applications.
CO3:	Implement Select, Nested queries, join on database.
CO4:	Write queries in SQL to retrieve any type of information from a data base.
CO5:	Design and implement all the basic and advance tag of HTML.
CO6:	Designing the frame and table in HTML.
CO7:	Designing website using HTML language.

Course Name: MTC-101 Discrete Mathematics

Sr.No.	Course Outcomes (COs)
CO1:	Recall sets, cardinality of set, operations on set
CO2:	Define equivalence relations & partial ordering relations.
CO3:	Describe relations, types of relations, equivalence relations and partial ordering relations, digraphs of relations, matrix representation and composition of relations.
CO4:	Identify the difference between Product Rule & the Sum Rule.
CO5:	Discover Disjunctive normal form & Conjunctive normal Form of Boolean functions and Calculate transitive closure using Warshall's Algorithm.
CO6:	Analyze The Inclusion- Exclusion Principle.
CO7:	Differentiate between Homogeneous and nonhomogeneous Recurrence Relations

Course Name: MTC-102 Algebra and Calculus

Sr.No.	Course Outcomes (COs)
CO1:	Find G.C.D and L.C.M. of numbers.
CO2:	Understand the concept of Congruence relations.
CO3:	Define continuity of function at certain points
CO4:	Recall geometrical meaning of Differentiation.
CO5:	Calculate nth derivative of function.
CO6:	Explain L'Hospital rule
CO7:	Carry out matrix operations, Solve systems of linear equations using multiple methods, including Gaussian elimination and LU Factorization.
CO8:	Understand the concepts of rank of matrix, row rank and column rank.

Course Name: MT-103 Mathematics Practical

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	Prepare logical statements using logical connectives.
CO2:	To solve recurrence relations
CO3:	To solve problems on Groups
CO4:	Identify connected graph, disconnected graph.
CO5:	Able to classify different types of graphs.
CO6:	Identify the continuity of functions at various points.
CO7:	Able to solve system of linear equations.

Course Name: ELC-101 Principles of Analog Electronics

Sr.No.	Course Outcomes (COs)
CO1:	Can understand working of semiconductor devices like Diodes, BJT and MOSFET.
CO2:	Is able to distinguish between BJT and MOSFET.
CO3:	Acquire basic knowledge on the working of various semi-conductor devices
CO4:	Develop analysis capability in BJT and FET Amplifier Circuits
CO5:	Learn to calculate resolution, error and accuracy of ADC and DAC
CO6:	Understand various elementary electronic circuits such as power supplies and oscillators
CO7:	Also gets familiar with data converters which is helpful in real life applications.
CO8:	Acquire the knowledge about the characteristics and working principles of semiconductor diodes, Bipolar Junction Transistor

Course Name: ELC 102- Principles of Digital Electronics

Sr.No.	Course Outcomes (COs)
CO1:	Is able to understand the different number systems which are used in digital electronics.
CO2:	Acquire knowledge on basic digital electronic gates.
CO3:	Is able to reduce any complex logic circuit into simple logic circuit by applying the Boolean algebra and K-Map techniques.
CO4:	Is able to analyze how the combinational circuits work in digital electronics
CO5:	Can distinguish different logic families used in VLSI technology
CO6:	To get an insight about the basic introduction of Digital electronics.
CO7:	At the end of this course, the student can interpret the role of digital electronics in various fields such as computer systems, VLSI technology etc.

Course Name: ELC 103- Electronics Practical course

Sr.No.	Course Outcomes (COs)
CO1:	Recognize various electronic components and their usage in electronic circuits also Know the working and Applications of various Diodes
CO2:	Student can identify different electronic components & is familiar with its working principle and Study different meters and instruments for measurement of electrical quantities.
CO3:	Is able to build small hobby projects in Electronics by making use of active, passive components.
CO4:	Based on basic knowledge given to them regarding IC Technology, Student is using different integrated circuits (ics) in there projects.
CO5:	Based on basic knowledge given to them regarding IC Technology, Student is using different integrated circuits (ics) in there projects.
CO6:	Is able to perform simulations for designing and analyzing diode/transistor circuits
CO7:	After completion of this course student is able to understand different types of DAC and their performance parameters

Course Name-: ST-101 Statistical Methods-I

Sr.No.	Course Outcomes (COs)
CO1:	Tabulate statistical information given in descriptive form.

Sr.No.	Course Outcomes (COs)
CO2:	Use graphical techniques for data interpretation and interpret it.
CO3:	Compute various measures of central tendency, dispersion, skewness and kurtosis.
CO4:	Distinguish between univariate, bivaiate and multivariate data.
CO5:	Compute the correlation coefficient for bivariate data and interpret it.
CO6:	Use the regression (linear, non-linear and multiple) and Time series techniques for forecasting purpose.
CO7:	Summarize and analyze the data using MS-Excel.
CO8:	Fit the regression models and check the goodness of fit using MS-Excel.

Course Name: ST-102 Statistical Methods-II

Sr.No.	Course Outcomes (COs)
CO1:	Distinguish between random and non-random experiments.
CO2:	Calculate the simple and conditional probabilities of events.
CO3:	Calculate the posterior probabilities by using Bayes' theorem.
CO4:	Apply standard probability distribution to real life situations.
CO5:	Calculate the mean and variance of continuous random variable.
CO6:	Apply parametric and non-parametric tests to real life situations.
CO7:	Use the simulation techniques to generate random sample from the distributions like, uniform, exponential and normal.
CO8:	Fit the probability models using MS-Excel.
CO9:	Simulate the random numbers from given distributions using MS-Excel.

Course Name- ST-103 Statistics Practical (Paper-III)

Sr.No.	Course Outcomes (COs)
CO1:	Calculate measures of central tendency and dispersion viz. Mean, mode, median, variance, standard deviation and coefficient of variation and interpret them.
CO2:	Calculate measures of moments, skewness and kurtosis and interpret the nature of the distribution.
CO3:	Calculate simple, conditional probabilities and independence for the given real life problems.
CO4:	Fit the probability models and find the expected frequencies for the distributions like binomial, Poisson and normal.
CO5:	Fit the regression models (linear, non-linear and multiple) for the given data and find the estimate and goodness of fit of the model.
CO6:	Estimate the trend as a component of time series using the method of moving averages.
CO7:	Simulate the random sample from the given distribution.
CO8:	Apply the parametric and non-parametric tests for given real life problems.
CO9:	Use MS-Excel for data representation by means of diagrams, calculating descriptive statistics, fitting probability models, and regression models, simulating random numbers from given distributions.

SY B.Sc(CS) Course Name: CS-211 Data Structures Using C

Sr.No.	Course Outcomes (COs)
CO1:	Design and implement various basic and advanced data structures.
CO2:	Introduce various techniques for representation of the data in the real world.
CO3:	Describe and remember algorithms and its analysis procedure.
CO4:	Introduce the concept of data structures through ADT including List, Stack, Queues etc.
CO5:	Develop application using data structure algorithms..
CO6:	Compute the complexity of various algorithms.
CO7:	Implement appropriate sorting/searching technique for given problem.

Course Name: CS-212 Relational Database management System

Sr.No.	Course Outcomes (COs)
CO1:	Describe a sound introduction to the discipline of database management systems.
CO2:	Design conceptual models of a database using ER modeling on the relational model of data and usage of Relational Algebra. Introduce various techniques for representation of the data in the real world.
CO3:	Demonstrate the principles behind systematic database design approaches by covering conceptual design, logical design through normalization.
CO4:	Learn and apply Structured query language (SQL) for database definition and database manipulation.
CO5:	Illustrate the RDBMS concepts and explain the concepts of security of database
CO6:	Explain various concepts of transactions & deadlock and find transactions trapped in it.
CO7:	Express database crash and recovery management.

Course Name: CS-221 Object Oriented Concepts Using C++ Programming

Sr.No.	Course Outcomes (COs)
CO1:	Inculcate information on Object-oriented programming concepts using C++ by discussing fundamentals and basic concepts of object oriented programming concepts includes classes, objects, virtual functions, inline functions, friend functions, strings, Exceptions, pointers and files.
CO2:	Explain the top-down and bottom-up programming approach and use a bottom up approach to solve real world problems.
CO3:	Describe the concept of inheritance and use it for real world problems.
CO4:	Discuss the generic data type for the data type independent programming which relates it to reusability.
CO5:	Handle large data set using File I/O.
CO6:	Illustrate the process of data file manipulations using C++.

Course Name: CS-222 Software Engineering

Sr.No.	Course Outcomes (COs)
CO1:	Define and explain the fundamental facts in science, mathematics, fundamentals of computer science, software engineering and multidisciplinary engineering to begin in practice as a software developer.
CO2:	Design as well as prepare a system, components of System, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, manufacturability, sustainability, ethical, health and safety.
CO3:	Explain the techniques, skills, and modern engineering tools necessary for S/W Development practice.
CO4:	Differentiate, design and manage the development of a computing based system, component or process to meet desired needs within realistic constraints in one or more application domains.
CO5:	Get the awareness about the system, construct some logic, interpret the overall system/process to estimate the given problem and after it construct an application to produce a desired result/solution.
CO6:	Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle.

Course Name: CS 223-Lab Course 1 (DS & CPP)

Sr.No.	Course Outcomes (COs)
CO1:	Implement basic data structures such as arrays and linked list.
CO2:	Programs to demonstrate fundamental algorithmic problems including Tree Traversals, Graph traversals, and shortest paths.
CO3:	Implement various searching and sorting algorithms.
CO4:	Programs to demonstrate the implementation of various operations on stack and queue.
CO5:	Develop solutions for a range of problems using objects and classes.

Sr.No.	Course Outcomes (COs)
CO6:	Programs to demonstrate the implementation of constructors, destructors and operator overloading.
CO7:	Apply fundamental algorithmic problems including type casting, inheritance, and polymorphism.
CO8:	Understand generic programming, templates, file handling.

Course Name: CS 224 -Lab Course II (Database Practical& Mini Project)

Sr.No.	Course Outcomes (COs)
CO1:	Implement Basic DDL, DML and DCL commands.
CO2:	Understand Data selection and operators used in queries and restrict data retrieval and control the display order.
CO3:	Write sub queries and understand their purpose.
CO4:	Use Aggregate and group functions to summarize data.
CO5:	Join multiple tables using different types of joins.
CO6:	Able to prepare SRS document, design document, test cases and software configuration management and risk management related document.

Course Name: MT-211 Applied Algebra

Sr.No.	Course Outcomes (COs)
CO1:	Describe real vector spaces and subspaces and apply their properties.
CO2:	Explain about Linear independence, Basis, dimensions, Row space, Column space, null space, Rank and Nullity
CO3:	Demonstrate the knowledge of definitions of Eigen values and eigenvectors.
CO4:	Explain about Digonalization of matrix and Quadratic forms.
CO5:	Identify Linear Transformations, General linear transformations and estimate Kernel and range, Rank nullity theorem.
CO6:	Describe Inverse linear transformation, Matrix of general linear transformation.
CO7:	Analyze Groups and Coding and also explain about Cyclic group, normal subgroup, products and quotients of groups.
CO8:	Apply the knowledge of Coding, decoding of binary information in error detection ,error correction and Public key cryptology.

Course Name: MT-212 Numerical Analysis

Sr.No.	Course Outcomes (COs)
CO1:	Demonstrate understanding of common numerical methods and how they are used to obtain approximate solutions to mathematical problems.
CO2:	Apply numerical methods to obtain approximate solutions to mathematical problems.
CO3:	Construct a function which closely fits given n- points in the plane by using different interpolation formulae.
CO4:	Express the intermediate value theorem.
CO5:	Using appropriate numerical methods, determine the solutions to given non-linear equations.

Course Name: MT-221 Computational Geometry

Sr.No.	Course Outcomes (COs)
CO1:	Discuss applications of Computational Geometry to graphical rendering.
CO2:	Apply geometric techniques to real-world problems in graphics.
CO3:	Get acquainted with the typical problems of computational geometry.
CO4:	Understand the existing solutions and their applications in computer graphics and machine vision.
CO5:	Implement algorithms of triangulation and of two-dimensional convex hull generation in geometric problems.

Sr.No.	Course Outcomes (COs)
CO6:	Demonstrate the ability to implement the algorithms in the course
CO7:	Demonstrate the ability to do mathematical derivation of the algorithms in the course.
CO8:	To get deeper knowledge of mathematics in relation to computer graphics and to understand the foundations of geometric algebra.
CO9:	A student should be made aware of history of mathematics and hence of its past, present and future role as part of our culture.
CO10:	Apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
CO11:	A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.
CO12:	Describe and construct basic geometric shapes and concepts by computational means

Course Name: MT-222 Operations Research

Sr.No.	Course Outcomes (COs)
CO1:	Define the types of the variables used in Operations Research
CO2:	Interpret the real life production or inventory problems as a LPP models.
CO3:	Choose the proper method for solving the problem.
CO4:	Construct the LPP models
CO5:	Analyze the given conditions to understand the model for profit or loss
CO6:	Understand the importance of stratogy making.

Course Name: MT-223 Mathematics Practical

Sr.No.	Course Outcomes (COs)
CO1:	Use basic commands in Scilab.
CO2:	Implement numerical methods using Scilab Programming.
CO3:	Write efficient, well-documented Scilab code and present numerical results in an informative way.
CO4:	Understand basic commands and codes in C-programming
CO5:	To make use of TORA for solution of L.P.P., Transportation and Assignment Problem.

Course Name: ELC 211 Digital system Hardware

Sr.No.	Course Outcomes (COs)
CO1:	Learns the basics of Digital Systems.
CO2:	Understands the working of a microprocessor.
CO3:	Using different Logic gates and minimization techniques like laws of Boolean Algebra and K-map.
CO4:	Able to design and implement different logic circuits such as Counter, random sequence generator etc
CO5:	Gets familiar with core architecture of microprocessor and its entire primary feature with their applications.
CO6:	Also gets familiar with types of memory and its working principle.
CO7:	Gets acquainted with concepts of multiprocessor and multicore architecture.

Course Name: ELC 212 Analog Systems:

Sr.No.	Course Outcomes (COs)
CO1:	Can understand the concept of analog electronic system.
CO2:	Is able to analyze different types of sensor its parameters, working principle and applications.
CO3:	Can understand different blocks of signal conditioning circuits and its role in analog electronic systems. They also get familiar with data converters which is helpful in real life applications.
CO4:	Understands the working of data convertor circuits and their applications in analog electronic system.

Sr.No.	Course Outcomes (COs)
CO5:	Learned to integrate the sensors, signal conditioning circuits, data converters and actuators to design real life application circuits of analog electronic system.
CO6:	Can apply the knowledge of analog circuits in different applications

Course Name: ELC 221-8051 Architecture, Interfacing & Programming

Sr.No.	Course Outcomes (COs)
CO1:	To differentiate microprocessor and microcontroller.
CO2:	Describe the architecture of 8051 and able to write assembly language program for 8 bit microcontroller
CO3:	Understand the basic architecture of 8051 microcontroller with its Programming model, assembly Instruction set and Organization.
CO4:	Design a standalone system through programming and interfacing techniques.
CO5:	Design program to interface LCD, Stepper motor, ADC and DAC.
CO6:	Compare PIC and ARM, advanced microcontroller, which are the basic building block element of an Embedded System.
CO7:	Write advanced microcontroller programming for real life application

Course Name: ELC 222-Communication Principles

Sr.No.	Course Outcomes (COs)
CO1:	Can understand the basics of Electronic Communication System.
CO2:	Gets acquainted with concepts of modulation, demodulation and multiplexing techniques.
CO3:	Understand and identify the fundamental concepts and various components of analog communication systems.
CO4:	Understand the basics of Communication System with transmission medium and modulation schemes; understand the concepts of cellular systems
CO5:	Knows and learns the basics of communication systems and telephone system
CO6:	Is able to enumerate the latest digital communication techniques like GSM, GPRS etc.
CO7:	Learned the difference between wired and wireless communication and different types of advanced wireless communication techniques, such as Bluetooth, Wi-Fi, RFID and Zigbee.

Course Name: ELC 203-Electronics Practical

Sr.No.	Course Outcomes (COs)
CO1:	Interface the basic peripherals to 8051 based microcontroller for real world applications and study of hardware and software tools.Can understand the basics of Electronic Communication System.
CO2:	Student understand principles of sensors their characteristics
CO3:	Student is able to design Traffic Light Control System.
CO4:	Design and implementation of logic is constructed, tested and verified.
CO5:	Student is able to Sensor based signal conditioning through ADC/DAC converter is studied.
CO6:	Real world programming is done using 8051 Microcontroller by integrating firmware and hardware to become an embedded system.
CO7:	Through practical approach Student is able to understand concepts of modulation and multiplexing.

TY B.Sc(CS) Course Name: CS-331 System Programming & Operating System

Sr.No.	Course Outcomes (COs)
CO1:	Describe the basic components of an operating system and their role in implementations for general purpose, real-time and embedded applications.
CO2:	Define the concepts of processes, threads, asynchronous signals and competitive system resource allocation.
CO3:	Explain what multi-tasking is and outline standard scheduling algorithms for Multi-tasking.

Sr.No.	Course Outcomes (COs)
CO4:	Discuss mutual exclusion principles and their use in concurrent programming including semaphore construction and resource allocation.
CO5:	Expose the details of major operating system concepts, overview of system memory management and the implementation of file systems.
CO6:	Explain the basics of system programs like editors, compiler, assembler, linker, loader, interpreter and debugger.
CO7:	Describe the various concepts of assemblers and microprocessors.

Course Name: CS-332 Theoretical Computer Science

Sr.No.	Course Outcomes (COs)
CO1:	Discuss about the different types of language & their application
CO2:	Describe the role of the Finite Automata
CO3:	Describe the role of the Regular expression & its real life application in programming
CO4:	Explain the use of context free languages.
CO5:	Explain the push down automata.
CO6:	Identify and design truing machine.

Course Name: CS-333 Computer Networks

Sr.No.	Course Outcomes (COs)
CO1:	Inculcate information on Networking concepts and technologies like wireless, broadband.
CO2:	Explain the local, metropolitan and wide area networks using the Standard OSI reference model.
CO3:	Choose various networking technologies.
CO4:	Classify the concepts of protocols, network interfaces and categorize of performance issues in local area networks and wide area networks.
CO5:	Summarize wireless networking concepts, contemporary issues in networking technologies, network tools and network programming.
CO6:	Design of different types of protocol and the comparison of number of data link, network and transport layer protocols.
CO7:	Identify and understand various techniques and modes of transmission
CO8:	Describe data link protocols, multi-channel access protocols and IEEE 802 standards for LAN. Understand network security and define various protocols such as FTP, HTTP, Telnet, DNS

Course Name: CS-334 Internet Programming -I

Sr.No.	Course Outcomes (COs)
CO1:	Describe the features like functions, forms in PHP, Files handling, OOPs concepts, Cookies, Sessions and Database, draw images on the server with AJAX.
CO2:	Write PHP programs
CO3:	Describe, Classify and use the role languages like HTML, CSS, XML, JavaScript and protocols in the workings of web and web applications.
CO4:	Explain about network and security programming using Java and state about the application of dynamic page functionality in web pages using CGI, Servlets, JSP, ASP.
CO5:	Design and communicate between client and server using Java and construct a good, effective and dynamic website.
CO6:	Implement interactive web page(s) using HTML, CSS and JavaScript.
CO7:	Build Dynamic web site using server-side PHP Programming and Database connectivity.

Course Name: CS-335 Java Programming - I

Sr.No.	Course Outcomes (COs)
CO1:	Inculcate facts about Programming logic concepts, which enables the students to design a wide range of Applications and Applets using Java by perceiving the fundamentals of object oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.

Sr.No.	Course Outcomes (COs)
CO2:	Explain the programming language design, syntax and semantics
CO3:	Describe the critical thinking skills through solving programming problems and modify the existing code.
CO4:	Distinguish the standard syntax for java programs and other programming Tools.
CO5:	Distinguish the different kind of streams used in java programming language.
CO6:	Describe the animation and events based advanced java program concepts (Applet).
CO7:	Write the java programs using object oriented class with parameters, constructors, utility, calculations, methods including inheritance, test classes and exception handling.They can able to develop the new application/projects

Course Name: CS-336 Object Oriented Software Engineering

Sr.No.	Course Outcomes (COs)
CO1:	To state and describe various O-O concepts along with their applicability contexts.
CO2:	Identify domain objects, their properties, and relationships among them.
CO3:	Identify and model/represent domain constraints on the objects and (or) on their relationships.
CO4:	Develop design solutions for problems on various O-O concepts
CO5:	To distinguish various modeling techniques to model different perspectives of object-oriented software design (UML).
CO6:	To plan software development life cycle for Object-Oriented solutions for Real-World Problems.

Course Name: CS-341 Operating System

Sr.No.	Course Outcomes (COs)
CO1:	To describe the role of operating system in their management policies and algorithms.
CO2:	To know about the services provided by operating systems.
CO3:	Understand the process management policies and scheduling of processes by CPU.
CO4:	Describe and analyze the memory management and its allocation policies.
CO5:	Identify the need to create the special purpose operating system.
CO6:	Understand the structure of operating systems, applications, and the relationship between them.

Course Name: CS-342 Compiler Constructions

Sr.No.	Course Outcomes (COs)
CO1:	To define the phases of a typical compiler, including the front- and backend.
CO2:	To learn working of compiler and non compiler applications.
CO3:	To Identify tokens of a typical high-level programming language, regular expressions for tokens and design and implement a lexical analyzer using a typical scanner generator.
CO4:	To know about Code Optimization and compiler generation tools and techniques.
CO5:	Design a compiler for a simple programming language.
CO6:	Explain the role of different types of runtime environments.

Course Name: CS-343 Computer Networks

Sr.No.	Course Outcomes (COs)
CO1:	To inculcate knowledge on Networking concepts and network security concepts.
CO2:	To explain the protocols at transport layer such as UDP, TCP and SCTP.
CO3:	To choose from various encryption techniques to encode plaint text.
CO4:	To classify the connecting devices working at each.
CO5:	To summarize wired and wireless networking concepts, networking technologies, network tools and network security concepts.
CO6:	Design of different types of protocol at application layer such as DNS, EMAIL, HTTP, WWW etc.

Course Name: CS-344 Internet Programming – II

Sr.No.	Course Outcomes (COs)
CO1:	To learn different technologies used at client Side Scripting Language
CO2:	To learn XML,CSS and XML parsers.
CO3:	One PHP framework for effective design of web application.
CO4:	To learn JavaScript to program the behavior of web pages.
CO5:	To learn AJAX to make our application more dynamic.
CO6:	How to handle email with PHP and email structure

Course Name: CS-345 Programming in Java - II

Sr.No.	Course Outcomes (COs)
CO1:	To learnObject Oriented Programming language to handle abnormal termination of a program using exception handling.
CO2:	Tolearn database programming using Java.
CO3:	To study web development concept using Servlet and JSP.
CO4:	To develop a game application using multithreading.
CO5:	To learn socket programming concept.
CO6:	They can able to develop the new web/standalone application.

Course Name: CS-346 Computer Graphics

Sr.No.	Course Outcomes (COs)
CO1:	Summarize concept Graphics concepts.
CO2:	Provide comprehensive introduction about computer graphics system, design algorithms and two dimensional transformations.
CO3:	Demonstrate techniques of clipping, three dimensional graphics and three dimensional transformations.
CO4:	Describe and summarize the design, development and testing of modeling, rendering, shading and animation.
CO5:	Understand the basics of computer graphics, different graphics systems and applications of computer graphics.
CO6:	Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis.
CO7:	Use of geometric transformations on graphics objects and their application in composite form.

Course Name: CS 347 -Lab Course I (SYSPRO & OS)

Sr.No.	Course Outcomes (COs)
CO1:	Design and implement systems programs with minimal features to understand their complexity.
CO2:	Design and implement simulations of operating system level procedures.
CO3:	Develop programs for assembly language.
CO4:	To learn the mechanism involved in memory management in OS.
CO5:	To gain knowledge on operating system concepts that includes CPU scheduling algorithm, Bankers algorithm etc.
CO6:	To learn programmatically to implement simple OS mechanism i.e. Shell Programming.
CO7:	To learn file management system of OS.

Course Name: CS 348 -Lab Course II (Programming in JAVAI& II& Computer Graaphics)

Sr.No.	Course Outcomes (COs)
CO1:	Implement Object Oriented programming concept using basic syntaxes of controls Structures, strings and function for developing of logic.
CO2:	Implement classes, objects, members of a class and the relationships among them and find the solution to problem.
CO3:	Implement reusability using inheritance, interfaces and packages.

Sr.No.	Course Outcomes (COs)
CO4:	Implement andunderstand the use of different exception handling mechanisms and concept of multithreading for application development.
CO5:	Design GUI in Java using Applet & AWT along with events.
CO6:	Implement, Design & develop complex Graphical user interfaces.

Course Name: CS 349 -Lab Course III (Internet Programming& Project)

Sr.No.	Course Outcomes (COs)
CO1:	Understand, analyze and apply the role of languages like HTML, DHTML, CSS, JavaScript and PHP.
CO2:	Analyze a web page and identify its elements and attributes.
CO3:	Create web pages using HTML and Cascading Style Sheets.
CO4:	Create dynamic web pages using JavaScript, XML.
CO5:	Build web applications using PHP.
CO6:	Understand to connect webpage with any database.
CO7:	Designing website using HTML& PHP language.

HOD
(Mrs.R.B.Mhoparkar)

IQAC Head
(Dr. M.S.Phutane)

Principal
(Dr. A.A.Chandgude)

B.Com. (2013 Pattern)

Sr.No.	Program Outcomes (POs)
PO1:	B.Com course enumerates various fundamental concepts in the area of trade, business and commerce.
PO2:	B.Com Course able to demonstrate the theories and practices of different segments of the modern business world.
PO3:	B.Com course is able to interpret and produce the analytical and critical financial aspects of the trade and commerce.
PO4:	B.Com Course measures and summarizes the financial economy of a company and hypothesizes the future consequences.
PO5:	Student of B.Com demonstrates various practical learning model and projects by studying various issues of commerce and industry.
PO6:	B.Com course imbibes sacred human values in students through exposure and demonstration.
PO7:	B.Com Course develops quantitative and Qualitative Learning approach towards core areas of Commerce field.
PO8:	B.Com course is universal and versatile where student is able to design himself /herself in all directions like higher education, competitive examination, entrepreneurial venture and core commerce field jobs.

Sr.No.	Program Specific Outcomes (PSOs)
PO1:	B.Com Course describes specialized knowledge in the area of Banking and Finance which channelize the career in banking industry.
PO2:	B.Com Course develops analytical and Problem solving aptitude among the student through the subject like Cost and Works accounting, Accountancy, Business Administration, Finance, Economics and Industrial Policies.
PO3:	B.Com Course develops moral and ethical values among the students by studying core subject related with human values, laws, and ethics and life skills.

Course Name: (101) Compulsory English

Sr.No.	Course Outcomes (COs)
CO1:	Relate the terms in the poems to their life.
CO2:	Express their own views on the poems they studied.
CO3:	Demonstrate the various characters reflected in the prose.
CO4:	Interpret the various themes reflected in the poems and prose in connection with the literature
CO5:	Convert the idea in to expression with the help of literature they studied.
CO6:	Memorize various terms used in the speaking while communicating.
CO7:	Express the topic very effectively.
CO8:	Dramatize a role play on the topic of literature they studied.

Course Name: (102) Financial Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Define accounting concept and convention.
CO2:	Finalize the books of Partnership.
CO3:	Valuation of intangible assets like Goodwill.
CO4:	Calculate lease rent and accounting of lease.
CO5:	Prepare final accounts of charitable trust.
CO6:	Define various software used in accounting.
CO7:	Get in-depth knowledge of accounting in modern day business world.
CO8:	Write the books of accounts proficiently.

Course Name: (103) Business Economics (Micro)

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	Define Business economics.
CO2:	Distinguish between Micro Economics and Macro Economics.
CO3:	Paraphrase the economic and non economic goals of a firm.
CO4:	Interpret cost curves.
CO5:	Illustrate the relationship between total cost, average cost and marginal cost.
CO6:	Discuss revenue concept.
CO7:	Explain different market conditions.
CO8:	Interpret theories of factor pricing.

Course Name: (104-A) Business Mathematics & Statistics

Sr.No.	Course Outcomes (COs)
CO1:	Define the concept in Finance and Business Mathematics.
CO2:	Acquaint with various applications of Statistics and mathematics in business.
CO3:	Paraphrase elementary statistical methods for analysis of business data.
CO4:	Apply the concept of matrices and determinants in business and economics.
CO5:	Demonstrate the various measures of central tendency and measure of dispersion.
CO6:	Formulate the graphs to solve business optimization problems.
CO7:	Describe the process of calculation of index numbers.
CO8:	Demonstrate the application of business mathematics in decision making.

Course Name: (105) Banking & Finance

Sr.No.	Course Outcomes (COs)
CO1:	Acquaint the students with the fundamentals of banking.
CO2:	Develop the capability of students for knowing banking concepts and operations.
CO3:	Make the students aware of banking business and practices.
CO4:	Give thorough knowledge of banking operations.
CO5:	Enlighten the students regarding the new concepts introduced in the banking system.
CO6:	Describes the method of remittances and its uses.
CO7:	Distinguish the different negotiable instruments
CO8:	Explain the technological advancement in banking industry.

Course Name: (106) Foundation Course in Commerce

Sr.No.	Course Outcomes (COs)
CO1:	Explain the various forms of business organizations
CO2:	Develop Conceptual Clarity and awareness on Latest Changes
CO3:	Comprehend various Government Policies
CO4:	Develop Entrepreneurial spirit among them.
CO5:	Demonstrate the practical part of online Baking.
CO6:	Enumerate the emerging trends in commerce.
CO7:	Paraphrase the stock market in India.
CO8:	Evaluate the different mutual funds schemes.

Course Name: (107) Additional English

Sr.No.	Course Outcomes (COs)
CO1:	Is realizes the beauty and communicative power of English language.
CO2:	Interprets various themes and values covered in literary pieces
CO3:	Explains a good blend of old and new literary extracts.
CO4:	Identifies the major problems in human life in modern world.
CO5:	Develops communicative ability.
CO6:	Develops literary sensibilities.

Sr.No.	Course Outcomes (COs)
CO7:	Summarizes each prose lesson and poetry.
CO8:	Classifies the theme, characters and language used in literary extracts.

Course Name: (201)Business Communication

Sr.No.	Course Outcomes (COs)
CO1:	Defines the term business communication.
CO2:	Lists the methods and channels used in business communication.
CO3:	Explains the soft-skills required for effective business communication.
CO4:	Classifies different forms formal written business communication.
CO5:	Recalls the principles of effective business communication.
CO6:	Explains the barriers to effective business communication.
CO7:	Relates the social media and its use for business communication.
CO8:	Is able to dramatize the role play activity.

Course Name: (202)Corporate Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Define accounting concept and convention and accounting standards.
CO2:	Finalize the books of company.
CO3:	Prepare liquidator final statement of account.
CO4:	Define various software used in accounting
CO5:	Prepare Amalgamation of business and prepare consolidated financial statements.
CO6:	Paraphrase the process of internal reconstruction
CO7:	Practice the valuation of share under different methods.
CO8:	Get in-depth knowledge of accounting in modern day business world.

Course Name: (203)Business Economics (MACRO)

Sr.No.	Course Outcomes (COs)
CO1:	Define Macro economics.
CO2:	Distinguish between Micro Economics and Macro Economics.
CO3:	Discuss national income.
CO4:	Explain different functions of money.
CO5:	Interpret the concept of value of money.
CO6:	Distinguish theories of income and employment.
CO7:	Interpret the importance of taxation policy.
CO8:	Explain the role of monetary and fiscal policies in the economy.

Course Name: (204) Business Management

Sr.No.	Course Outcomes (COs)
CO1:	Explain the management evolution and how it will affect future managers.
CO2:	Differentiate and evaluate the influence of historical forces on the current practice of management.
CO3:	Identify and evaluate social responsibility and ethical issues involved in business situations and logically articulate own position on such issues.
CO4:	Explain how organizations adapt to an uncertain environment and identify techniques managers use to influence and control the internal environment.
CO5:	Practice the process of management's four functions: planning, organizing, leading, and controlling.
CO6:	Identify and apply vocabularies within the field of management to articulate one's own position on a specific management issue and communicate effectively with varied audiences.
CO7:	Criticize the various leadership styles to anticipate the consequences of each leadership style.
CO8:	Discriminate qualitative and quantitative information to solate issues and formulate best control

Sr.No.	Course Outcomes (COs)
	methods.

Course Name: (205) Elements of Company Law

Sr.No.	Course Outcomes (COs)
CO1:	Enumerates the introduction to the New Companies Act 2013 & Concept of Companies.
CO2:	Comprehend and demonstrate the formation and Incorporation of a Company
CO3:	Construct and draft the documents relating to Incorporation and Raising of Capital.
CO4:	Perceive Various Modes for Raising of Share Capital.
CO5:	Explain the Rules of Forfeiture, Surrender & Transfer of Shares.
CO6:	Describe the advantage of E-Governance and E-Filing.
CO7:	Recognize the role of Key Managerial Personnel.
CO8:	Distinguish between Revival and Re-habilitation of Sick Companies and understand the concept of Compromises, Arrangements and Amalgamation.

Course Name: (206) Special Paper-I Banking & Finance

Sr.No.	Course Outcomes (COs)
CO1:	Acquaint the fundamentals of banking in India.
CO2:	Develop the capability of for knowing banking concepts and operations of various types of Banks.
CO3:	Recognize the role of Private banking business and practices.
CO4:	Describes the banking operations of State Bank of India.
CO5:	Classify the functioning of Regional Rural Banks and NABARD.
CO6:	Comprehend the Cooperative Credit System.
CO7:	Illustrates the Functions of the RBI
CO8:	Appraise the Banking Sector Reforms.

Course Name: (206) Special Paper I Cost & Works Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Define basic cost concept.
CO2:	Differentiate the various elements of cost and its types.
CO3:	Explain the ascertainment of material cost.
CO4:	Evaluate the methods of costing.
CO5:	Memorize the concept inventory control techniques.
CO6:	Explain importance of Costing techniques in the business world.
CO7:	Demonstrate and experiment the accounting of labor cost.
CO8:	Interpret the methods of labour remuneration.

Course Name: (207) Environmental Studies

Sr.No.	Course Outcomes (COs)
CO1:	Recognize the importance of Environmental Studies.
CO2:	Develop sensitivity among themselves towards current environmental issues.
CO3:	Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.
CO4:	Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.
CO5:	Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.
CO6:	Demonstrate proficiency in quantitative methods, qualitative analysis, critical thinking, and written and oral communication needed to conduct high-level work as interdisciplinary scholars and/or practitioners.
CO7:	Get practical experience while completing projects on the selected topic in Environmental Studies.

Sr.No.	Course Outcomes (COs)
CO8:	Formulate the environment friendly approach towards society.

Course Name: (301) Business Regulatory Framework

Sr.No.	Course Outcomes (COs)
CO1:	Demonstrate the practical exhibition and explains the essentials of contract.
CO2:	Describe standard and legal terminology of Partnership.
CO3:	Apply Mercantile Law with respect to Sale of Goods.
CO4:	Paraphrase Legal and technical issues involved in E-Contracts.
CO5:	Interpret the protection of the interest of the consumer and settlement of consumer disputes.
CO6:	Define statutory protection for inventions and constitutional basis for IP protection.
CO7:	Demonstrate and understanding of the Negotiable Instrument Act
CO8:	Identify the removal of judicial intervention.

Course Name: (302) Advanced Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Define accounting standards and International financial reporting standards.
CO2:	Finalize the books of banking final accounts as per banking regulation act 1949.
CO3:	Prepare accounts of insurance claim.
CO4:	Finalize the books of Co-operative banking final accounts as per State co-operative societies act 1961 amended year to year.
CO5:	Define various software used in accounting.
CO6:	Prepare branch account of business.
CO7:	Define the process of single entry system.
CO8:	Get in-depth knowledge of accounting in modern day business world.

Course Name: (303-A) Indian And Global Economics Development

Sr.No.	Course Outcomes (COs)
CO1:	To enable students to understand students to a new approach to the study of the Indian Economy.
CO2:	To help the students in analyzing the present status of the Indian Economy.
CO3:	To rendering the process of integration of the Indian Economy with other economics of the world.
CO4:	To notify students with the emerging issues in policies of India"s foreign trade.

Course Name: (304) Auditing & Taxation

Sr.No.	Course Outcomes (COs)
CO1:	Discuss understanding of ethics and social responsibility.
CO2:	Apply Critical Thinking Skills by solving problems requiring quantitative and/or qualitative analysis.
CO3:	Demonstrate the accounting knowledge and skills in Auditing.
CO4:	Define the concept, skills and abilities of auditing process.
CO5:	Describe how the provisions in the corporate tax laws can be used for tax planning.
CO6:	Explain different types of income group and their tax slabs.
CO7:	Learn various direct and indirect taxes and their application in business world.
CO8:	Describe the use of various deductions to reduce the taxable income.

Course Name: (305 & 306) Cost & Works Accounting- Special Paper-II & III

Sr.No.	Course Outcomes (COs)
CO1:	Define the concept and principles of application of overheads.
CO2:	Explain various methods of costing and their application.

Sr.No.	Course Outcomes (COs)
CO3:	Define costing techniques used in business.
CO4:	Enumerate the legal procedure for cost audit and its requirement.
CO5:	Apply the Costing methods and techniques for business decision making.
CO6:	Experiment the various costing techniques.
CO7:	Estimate the budget of business.
CO8:	Estimate the profit of business with the help of marginal costing.

Course Name: (305 & 306) Banking and Finance- Special Paper-II & III

Sr.No.	Course Outcomes (COs)
CO1:	Describe the risks faced by banks and ways to overcome them.
CO2:	Enumerate the difference between Collecting banker and Paying Banker.
CO3:	Evaluate the different life insurance policies based on their needs.
CO4:	Comprehend various negotiable instruments.
CO5:	Acquaint with Banking Law and Practice in relation to the Banking system in India.
CO6:	Paraphrase the legal aspects of Banking transactions and its implications as Banker and Customer.
CO7:	Demonstrate the Banking Law and Practice in India.
CO8:	Summarize the functions of stock exchanges in India.

HOD
(Dr. M.S.Phutane)

IQAC Head
(Dr. M.S.Phutane)

Principal
(Dr. A.A.Chandgude)

BBA (2019Pattern)

Sr.No.	Program Outcomes (POs)
PO1:	Understand the importance of management discipline.
PO2:	Build a strong foundation of knowledge in different areas of management.
PO3:	Develop the necessary professional skills of applying concepts and techniques used in management for real life problems.
PO4:	Develop reading, writing, speaking skills and Business correspondence.
PO5:	Understand ethical factors in the business environment.
PO6:	Discuss and evaluate economic environment of country as well as world.
PO7:	Prepare professional presentations by using technology.
PO8:	Create opportunities for self-employment and start their own start-ups.
PO9:	Discover emerging opportunities in the Management Profession.

I.Marketing Management

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	Introduce and familiarize with basic concepts of marketing, its general nature, scope and importance.
PSO2:	Develop basics and essential skills related to marketing and recent trends in marketing.
PSO3:	Comprehends advanced skills in the areas of interpersonal communications, Motivational techniques essential for a successful sales person.
PSO4:	Comprehends insights into the functional areas of retailing.
PSO5:	Understand the paradigm shifts in retailing business with increasing scope of technology and e-business.
PSO6:	Comprehends the knowledge and understanding of importance and functions of advertising.
PSO7:	Understand the features of Sales Promotion techniques.
PSO8:	Face the practical problems in marketing with case studies
PSO9:	Understand and analyze real marketing problems with case study or research

II. Financial Management

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	Describe the finance related areas like Shares, Debentures, Financial Instruments, Financial Services and Markets etc.
PSO2:	Reproduce the sources of short & long term finance for a business and management of these sources.
PSO3:	Interpret the financial statements effectively & finance structures.
PSO4:	Evaluate the current financial practices followed in the corporate world.
PSO5:	Apply the practical aspects of finance function with case studies.
PSO6:	Write an analytical report on finance related topic
PSO7:	Subdivide different complications in finance decision making and skills required to deal with them.

III.Human Resource Management

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	Comprehend the application of theory into practice.
PSO2:	Analyze the HR problems and solve it skillfully with case studies.
PSO3:	Acquainted with important legal provisions governing the industrial employees.
PSO4:	Describe the legal aspects of the HR function of a company.
PSO5:	Comprehend HRM functions and practices like promotion, appraisal, wages administration etc.
PSO6:	Comprehend the HR relations with exposure to cases, events etc.
PSO7:	Describe the basic and advanced functions of human resource department.
PSO8:	Comprehend human resource processes that are concerned with planning, motivating and

Sr.No.	Program Specific Outcomes (PSOs)
	developing suitable employees for the benefit of the organization.

Course Outcomes (COs): Course Name: 101: Principles of Management

Sr.No.	Course Outcomes (COs)
CO1:	Develop the ability of managerial thinking and cultivate business acumen.
CO2:	Understand the historical perspectives of management.
CO3:	Understand the importance and characteristics of management.
CO4:	Understand different approaches to management thoughts and philosophy and develop the ability of management thinking.
CO5:	Define important functions of management and their roles.
CO6:	Analyze the themes in modern management and changes in the business environment.
CO7:	Understand and define new systems and trends in modern management.
CO8:	Apply the basic concepts of management.

Course Name: 102: Business Communication Skills

Sr.No.	Course Outcomes (COs)
CO1:	Explain the basic purpose of communication.
CO2:	Define the concept and different forms of communication.
CO3:	Design meaningful, concise and effective messages through different types of communication.
CO4:	Identify ways to make business correspondence precise and effective.
CO5:	Analyze how modern technology affects businesses and media- based communication is working in the present context.
CO6:	Assess how the effects of new media on business, is affecting on interpersonal relations and groups.
CO7:	Make use of different formats of social communication and technology-based communication effectively.
CO8:	Discuss the fundamental aspects of business communication skills.

Course Name: 103: Business Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Understand basic concepts in Business Accounting.
CO2:	Classify the accounts under different rules of accounts.
CO3:	Explain how to record different financial transactions.
CO4:	Judge the financial implications of different financial transaction.
CO5:	Solve application problems on Journal Entries, Ledger Accounts, and Cash Book.
CO6:	Develop Trial Balance.
CO7:	Solve application problems on Final Accounts.
CO8:	Write a necessary set of entries in a cash book and compare them with a bank statement to understand their implications and effects.
CO9:	Understand growing importance of accounting software
CO10:	Use software like Tally for writing of accounts.

Course Name: 104: Business Economics: Micro

Sr.No.	Course Outcomes (COs)
CO1:	Understand what Business Economics is.
CO2:	Comprehend various types of elasticity of demand.
CO3:	Describe various forms of market.
CO4:	Demonstrate the price determination under various markets.
CO5:	Understand the mechanism of Demand and Supply.
CO6:	Learn the types of revenue.
CO7:	Solve the various economic problems.

Sr.No.	Course Outcomes (COs)
CO8:	Understand the functioning of flow of Income.

Course Name: 105: Business Mathematics

Sr.No.	Course Outcomes (COs)
CO1:	Define and memorize basic concepts in business mathematics.
CO2:	Develop appropriate understanding as how to use mathematic like computation interest, profit and loss, matrices etc. in business decisions.
CO3:	Cultivate right understanding regaining numerical aptitude.
CO4:	Develop logical approach towards analytical approach data.
CO5:	Use L.P.P. and its applications in business.
CO6:	Understand the concept and application of Permutations and Combinations in business.
CO7:	Understand applications of matrices in business.
CO8:	Explain the concepts of ratio, proportion and percentage.
CO9:	Describe the concept and application of profit and loss in business

Course Name: 106: Business Demography

Sr.No.	Course Outcomes (COs)
CO1:	Explain various concepts in demography like Sex ratio, Literacy, Migration, population density etc.
CO2:	Explain the importance of population studies for decisions in business.
CO3:	Explain the importance of population as a resource and the development of the nation.
CO4:	Infer the terms urbanization and its consequences.
CO5:	explain the over and under population.
CO6:	Explain the advantages and disadvantages of urbanization.
CO7:	Compare sex ratios of different states in India.
CO8:	Infer the literacy and its aspects.
CO9:	Relate the demography concepts with industrial affairs.

Course Name: 201: Business Organization and System

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concept of business and its characteristics.
CO2:	Analyze and interpret the objectives of business and its prerequisites.
CO3:	Differentiate and compare between the Trade, commerce and industry concept.
CO4:	Identify and justify Recent Trends in Modern Business i.e. BPO, KPO, Entrepreneur and online trading, digital and marketing and payment methods.
CO5:	Compare and describe different forms of business organization and its selection.
CO6:	Identify and justify different ideas and opportunities, influencing factors while setting up of business enterprise.
CO7:	Analyze and interpret feasibility report of a business enterprise, size and location of a business enterprise.
CO8:	Classify and relate licensing and basic legal formalities to start a new business enterprise.
CO9:	Compare and describe levels of Distribution Channels and their role, ie. Domestic Trade and Foreign Trade.
CO10:	Analyze and interpret Concept of Domestic Trade and Wholesaling and Retailing
CO11:	Analyze and interpret concept of Export and Import and its Procedure.

Course Name: 202: Principles of Marketing

Sr.No.	Course Outcomes (COs)
CO1:	Describe basic concepts of marketing, its general nature, scope and importance of marketing.
CO2:	Explain functions of marketing.
CO3:	Describe product marketing and service marketing.

Sr.No.	Course Outcomes (COs)
CO4:	Understand the marketing environment.
CO5:	Define market segmentation and understand why and how to segment the market.
CO6:	Cultivate knowledge of marketing mix and assess basic essential skills of marketing.
CO7:	Explain marketing activities and understand different types of marketing, their role and functions.
CO8:	Understand the basic difference between Marketing and Selling.

Course Name: 203: Principles of Finance

Sr.No.	Course Outcomes (COs)
CO1:	Discuss the nature, importance, structure of finance related concepts.
CO2:	Explain sources of finance for a business.
CO3:	Discuss different concept of capital structure.
CO4:	Explain the concept and types dividends.
CO5:	Explain the different types of dividend policies.
CO6:	Remind types of capitalization.
CO7:	Compare over and under capitalization.
CO8:	Write the meaning and functioning of micro-finance.
CO9:	Understand the recent trends in finance such as leasing, venture capital, mutual funds and micro-finance.

Course Name: 204: Basics of Cost Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Define different concepts on cost accounting.
CO2:	Understand the importance of costing in decision making.
CO3:	Summarize different elements of cost.
CO4:	Classify different costs.
CO5:	Solve applicative problems on the Cost Sheet.
CO6:	Distinguish different types of overheads.
CO7:	Explain the role of contract costing in ascertaining the cost of a particular project or activity.
CO8:	Solve applicative problems on Contract Costing.
CO9:	Solve applicative problems on Process Costing.
CO10:	Explain how cost of a particular process is ascertained in case of single or multiple processes as well as for joint products.

Course Name: 205: Business Statistics

Sr.No.	Course Outcomes (COs)
CO1:	Summarize and condense the raw data.
CO2:	Tabulate statistical information given in descriptive form.
CO3:	Use graphical and diagrammatic techniques and interpretation of descriptive statistics.
CO4:	Compute various measures of central tendency and dispersion and interpret their values.
CO5:	Compute the correlation coefficient for bivariate data and interpret it.
CO6:	Use the linear regression analysis for forecasting purposes.
CO7:	Understand the concepts of Index number. Explain its uses and methods.
CO8:	Interpret index values to identify trends in a data set.

Course Name: 206: Fundamentals of Computers

Sr.No.	Course Outcomes (COs)
CO1:	Understand role and importance of Computers in business processes.
CO2:	Describe the block diagram of the computer, booting process and differentiate between input and output devices.
CO3:	Convert the different number systems into binary numbers.

Sr.No.	Course Outcomes (COs)
CO4:	Understand the importance of operating systems and structure and modeling of computers.
CO5:	Calculate various functions of MS-excel such as sum, average, min, max and count. Develop skills and ability to handle different applications in business process by MS-Power-point.
CO6:	Handle various software and programs.
CO7:	Design various PowerPoint presentations and Use of spreadsheet in business data analysis and processing.
CO8:	Apply computers in business activities like data processing Tabulation and data analysis.
CO9:	Do the presentation of data in various ways.
CO10:	Set up different types of computer structure.

Course Name: 301: Principles of Human Resource Management

Sr.No.	Course Outcomes (COs)
CO1:	Understand the basic concept of HRM.
CO2:	Explain various functions of HRM.
CO3:	Describe different roles the HR performs in an organization.
CO4:	State the role of job analysis and Human Resource Planning in the organization.
CO5:	Interpret different methods of Job Evaluation.
CO6:	Memorize the process of HRP in Specific Organizational functioning.
CO7:	Explain the concepts Career Planning, Employee Morale and Job Satisfaction.
CO8:	Solve the practical cases on Career Planning, Employee Morale and Job Satisfaction.
CO9:	Explain technological changes and HRM.
CO10:	Express different HRM trends.

Course Name: 302: Supply Chain Management

Sr.No.	Course Outcomes (COs)
CO1:	Understand the functions of supply chain management.
CO2:	Understand the value chain, value delivery system and Bull Whip effect in supply chain management.
CO3:	Explain the concept of Green Supply Chain Management.
CO4:	Understand the process of workflow automation and space management.
CO5:	Describe the role of warehousing in supply chain management.
CO6:	Describe the role, methods of logistic management and logistics management planning.
CO7:	Differentiate logistics and supply chain management.
CO8:	Explain inventory management and its role in customer service.
CO9:	Understand the role of IT in supply chain management.
CO10:	Understand the role distributors play in supply chain management.

Course Name: 303: Global Competencies and Personality Development

Sr.No.	Course Outcomes (COs)
CO1:	Develop the dimensions and importance of an effective personality.
CO2:	Have different personality traits and use in business.
CO3:	Understand various dynamics of personality development.
CO4:	Explain the concept, Meaning and need of global competence.
CO5:	Describe the process and understanding cultural differences.
CO6:	Describe SWOC Analysis and Personal Goal Setting.
CO7:	Understand Cross Cultural values and ethics.
CO8:	Understand the concept of Global Competencies.

Course Name: 304: Fundamentals of Rural Development

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	Understand the development issues related to rural society.
CO2:	Find employment opportunities for rural youth.
CO3:	Participate in rural development programmes and schemes for sustainable development.
CO4:	Infer the seasonal and permanent migration to urban areas.
CO5:	Write and infer the approaches to rural development.
CO6:	Understand the role of government organization such as DRDA, NABARD, rural development departments in rural development.
CO7:	Explain the term NGO and it's functioning.
CO8:	Correlate rural development with agribusiness.
CO9:	Understand the concept and working of SHGs for rural development.

Course Name: 305 A MM: Consumer Behaviour and Sales Management (Marketing - I)

Sr.No.	Course Outcomes (COs)
CO1:	Explain culture and subculture.
CO2:	See recent trends in sales management.
CO3:	Learn post purchase evaluation and behaviour, Consumer, Satisfaction, Dissatisfaction.
CO4:	Explain the concept HR, Recruiting, Selection and Training.
CO5:	Describe the process of recruitment and selection.
CO6:	Define training, development and evaluation.
CO7:	Apply the tools and techniques of sales management.
CO8:	Explain process of training of sales force.

Course Name: 306 A MM: Retail Management + Business Exposure

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concept of retail management and the structure of the retail industry.
CO2:	Explain types of retailers, market segments and channels.
CO3:	Define market trends and retail life cycle.
CO4:	Understand the retail customer and accordingly they will explain customer segmentation and how to identify the target market.
CO5:	Understand the importance of site location its strategic position in retail business.
CO6:	Explain the factors impacting store design and retail business location selection.
CO7:	Understand retail marketing plans, store operations, merchandise management and customer management.
CO8:	Explain the latest tools used in the retail industry.
CO9:	Understand the theoretical and practical approach of retail business.

Course Name: 305 B FM: Management Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Explain the concepts in Management Accounting.
CO2:	Interpret and recall the implications of various financial ratios.
CO3:	Apply ratio analysis techniques for measuring the company's performance.
CO4:	Analyze company's financial statements with management accounting techniques.
CO5:	Define the term working capital and its types.
CO6:	Compute the working capital for business need.
CO7:	Define the term budget and budgetary control.
CO8:	Solve the problems on cash budget and flexible budget.
CO9:	Calculate various financial ratios such as liquid ratios, profitability ratios and other.

Course Name: 306 B FM: Banking and Finance (Spl. Financial Management)

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	Understand the origin of Banking.
CO2:	Define the term Bank.
CO3:	Explain the structure of banking in India.
CO4:	Describe the functions of banks.
CO5:	Distinguish between primary and secondary function of banks.
CO6:	Explain and differentiate the functions of Reserve Bank of India.
CO7:	Describe the functions of IRDA and SEBI.
CO8:	Explain the importance of technology in banking.
CO9:	Summarize technological trends in the banking industry.
CO10:	Enumerate the security measures required in carrying out E- banking transactions.

Course Name: 305 C HRM: Organizational Behaviour

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concept, meaning, definition, Nature, Scope, Importance and key elements of Organizational Behaviour.
CO2:	Describe the disciplines that contribute to the OB field and Models of OB.
CO3:	Identify and assess challenges for OB.
CO4:	Describe the individual behavior and its influencing factors.
CO5:	Identify the personal, psychological, organizational system and resources and environmental factors.
CO6:	Justify and assess the Personality and its key determinants of personality.
CO7:	Describe the different types of personality and theories of personality.
CO8:	Relate and illustrate the Value and Attitude Types.
CO9:	Explain and compare the motivation types and theories.
CO10:	Compare and relate to Maslow's Need Hierarchy Theory, McGregor's Theory X and Theory Y, and Herzberg's Two- Factor Theory.
CO11:	Describe the Group Dynamics meaning, definition, types, reasons for forming groups.
CO12:	Compare and contrast the theories of group formation, stages in group development
CO13:	Explain and examine the concept of conflict and its traditional and modern view.
CO14:	Categorize and assess between the conflict, organizational performance and conflict, frustration model.
CO15:	Explain the conflict management and its variants.
CO16:	Discuss and compare the leadership styles.
CO17:	Compare and contrast Organizational Culture, Formation and Sustaining.
CO18:	Categorize and assess the organizational Change, types and forces for change.

Course Name: 306 C HRM: Legal Aspects in Human Resource +Business Exposure

Sr.No.	Course Outcomes (COs)
CO1:	Explain the terms Employer and employee.
CO2:	Describe the Rights of an employee at workplace.
CO3:	Discuss and compare the HR Policy and its importance.
CO4:	Describe the Legal issues related to HR in the Organisation .
CO5:	Compare and illustrate the Wage and Salary Administration.
CO6:	Describe the Objectives and Wage Differentials.
CO7:	Illustrate the Factors affecting Wage and Salary Levels.
CO8:	Identify and explain the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal).
CO9:	Examine the Introduction of the act.
CO10:	Relate and restate the Main Features of the Act and its Provisions of the act.
CO11:	Compare, contrast and categories the Vishaka Guidelines.

Course Name: 401: Entrepreneurship and Small Business Management

Sr.No.	Course Outcomes (COs)
CO1:	Learn and understand the concept of entrepreneur and the process of entrepreneurship
CO2:	Understand the importance of entrepreneurship as a career.
CO3:	Explain factors influencing entrepreneurship.
CO4:	Understand the difference between business, industry and commerce and their interrelationship between today's environment.
CO5:	Understand convergent and divergent thinking abilities.
CO6:	Learn tools and techniques of market survey.
CO7:	Understand concept of the MSME and its challenges.
CO8:	Learn from where to get or raise funds for small business.
CO9:	Understand key factors for success and failure and learn skills to be developed.

Course Name: 402: Productions and Operations Management

Sr.No.	Course Outcomes (COs)
CO1:	Explain the basic concepts like goods, types of goods, production, production process etc. in the manufacturing sector.
CO2:	Predict the emerging manufacturing technologies like CAD, CAM and its role in developing business strategy.
CO3:	Express the concepts like quality control, Six Sigma, ergonomics, industrial safety etc.
CO4:	Understand the types of production processes.
CO5:	Compare the different types of manufacturing processes.
CO6:	Explain the types of plant layouts.
CO7:	Compare the different types of plant layouts.
CO8:	Explain the environmental and safety aspects related with different production processes
CO9:	Present company's products with processing aspect .
CO10:	Explain the concept of productivity.
CO11:	Explain the concept and types of maintenance.

Course Name: 403: Decision Making and Risk Management

Sr.No.	Course Outcomes (COs)
CO1:	Understand concept of decision making.
CO2:	Explain rational models of decision making.
CO3:	Describe the role of technology in decision making.
CO4:	Distinguish between decision making and risk management.
CO5:	Explain dealing with conflict and risk.
CO6:	Summarize technological trends in risk management.
CO7:	Describe the qualitative and quantitative risk analysis tools.
CO8:	Understand the role of competition and conflict in leadership roles.

Course Name: 404: International Business Management

Sr.No.	Course Outcomes (COs)
CO1:	Understand basic concepts in International Trade.
CO2:	Classify the International Business Environment.
CO3:	Acquaint and understand the mechanism of Exchange rate .
CO4:	Comprehend various types of Foreign Trade.
CO5:	Interpret the functioning of International Economic Zones .
CO6:	Solve and understand the case studies.
CO7:	Identify the role of International Marketing, Finance, Strategic Management .
CO8:	Understand the concept of BOP and BOT.

Course Name: 405A MM: Advertising and Promotion Management (Spl. - Marketing Management)

Sr.No.	Course Outcomes (COs)
CO1:	Understand strategic advertising decisions.
CO2:	Know and understand the importance and functions of advertising
CO3:	Understand all about various types of decisions in advertising
CO4:	Examine with role of information and technology in advertising and sales promotion.
CO5:	Explain strategies and promotional activities.
CO6:	Describe online advertising and internet advertising.
CO7:	Explain the importance of media technology used for promotions.
CO8:	Describe key features of Sales Promotion.
CO9:	Understand sales promotion like copy decisions and media decisions.

Course Name: 406 A MM: Digital Marketing (Spl. - Marketing Management)

Sr.No.	Course Outcomes (COs)
CO1:	Understand the digital marketing process.
CO2:	Define the term digital Marketing.
CO3:	Describe the functions and tools of digital marketing.
CO4:	Explain the core objective of the website.
CO5:	Describe the functions of optimization of web sites and design of word press web.
CO6:	Understand social media marketing.
CO7:	Explain the importance of technology on the website.
CO8:	Understand introduction to web analytics.
CO9:	Describe the concept of engagement and visitor's engagement.
CO10:	Understand creating Facebook advertising campaign and other social media campaign.

Course Name: 405 B FM: Business Taxation

Sr.No.	Course Outcomes (COs)
CO1:	Understand different concepts & definitions under Income Tax Act 1961.
CO2:	Explain latest development in the subject of Taxation.
CO3:	Describe the tax structure of India.
CO4:	Summarize different heads of income under income tax act 1961.
CO5:	Interpret various exemptions & deductions under Income tax act 1961.
CO6:	Compute the total taxable income of an individual.
CO7:	Explain the online ITR filing procedure.
CO8:	Define important concepts of Income tax act 1961, such as TDS, TCS, Advance tax etc.

Course Name: 406 B FM : Financial Services (Spl. - Financial Management)

Sr.No.	Course Outcomes (COs)
CO1:	Understand the basics of Indian Financial System.
CO2:	Explain the structure of Indian Financial System.
CO3:	Describe the functions of different intermediaries in the financial system.
CO4:	Distinguish between Primary Market and Secondary Market.
CO5:	Explain the role of different stock exchanges such as BSE, NSE and OTCEI in the economic development of the country.
CO6:	Differentiate between Money Market and Capital Market
CO7:	Define the term like Mutual Funds, Factoring, and Forfeiting.
CO8:	Classify different types of Mutual Funds.
CO9:	Explain the role of credit rating agencies.
CO10:	Explain the concepts Futures and Options, commodity exchanges and Exchange Traded Funds.

Course Name: 405 C HRM: Human Resource Management Functions and Practices

Sr.No.	Course Outcomes (COs)
CO1:	Explain the HRM Functions.
CO2:	Examine the Performance Appraisal meaning, definition, purpose, approaches and process.
CO3:	Describe and design different methods of appraisal, including Traditional and Modern Methods.
CO4:	Differentiate the Errors and problems of performance appraisal.
CO5:	Describe and justify Evaluation and Performance Appraisal.
CO6:	Classify Promotion, Demotion, Transfer and Separation process.
CO7:	Analyze the Training definition and purpose.
CO8:	Identify and design the Process and Methods of training.
CO9:	Identify E-Training process and design as well.
CO10:	Compare and differentiate the patterns of Training and Executive Development .
CO11:	Describe the concept of Employee Compensation and its objectives.
CO12:	Define and analyze Employee Compensation Administration and its Determinants.
CO13:	Describe the concept of Personnel research, HRA, SHRM and its importance.
CO14:	Students is able to Describe and justify the Workers Participation practices and its current scenario.
CO15:	Examine and synthesize the objectives and process of Organizational development.
CO16:	Restate the power politics and ethics in OD.

Course Name: 406 C HRM: Employee Recruitment and Record Management + Computer course (prescribed course or Online course)

Sr.No.	Course Outcomes (COs)
CO1:	Describe and discuss the concept of Manpower planning and its need and objectives.
CO2:	Compare and examine the Process and Techniques of Manpower Forecasting.
CO3:	Illustrate the Factors influencing estimation of Manpower.
CO4:	Define and express the Barriers to Manpower Planning.
CO5:	Classify the Factors Affecting Recruitment and its Sources.
CO6:	Discuss the Advantages and Disadvantages of recruitment.
CO7:	Compare and differentiate the Traditional and New Methods of Recruitment.
CO8:	Define the concept of E-Recruitment and Talent Acquisition.
CO9:	Find the difference between Recruitment and Talent Acquisition.
CO10:	Relate to Selection: Meaning, Definition, Process and Difference between Recruitment and Selection.
CO11:	Discuss the Advantages and Disadvantages methods of Recruitment.
CO12:	Examine and explain the process of selection in the Organization.
CO13:	Restate the concept of Employee Record Management.
CO14:	Define the Principles of Record Keeping and Precautions in Maintaining Records.
CO15:	Identify and design the Employee records and its types.
CO16:	Use and illustrate the Computer Course in HRM smooth execution.

Course Name: 501: Research Methodology

Sr.No.	Course Outcomes (COs)
CO1:	Understand the right approach of Research Methodology and its role in Business.
CO2:	Explain the basic concept of research and its methodology.
CO3:	Describe the basic framework of the identification of various sources of information for data collection.
CO4:	Interpret the process of sampling design and types of sampling.
CO5:	Formulate and evaluate research questions.
CO6:	Analyze the collected data.
CO7:	List out the steps involved in Report Writing.

Sr.No.	Course Outcomes (COs)
CO8:	Explain the contents and organization of Research Report.

Course Name: 502: Database Administration and Data Mining

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concepts of a database management system
CO2:	Explain the working of DBMS.
CO3:	Memorize the concept of Data Warehousing.
CO4:	Recognize the relevance of Data Warehousing in businesses.
CO5:	Reproduce the concept of Data Analytics and Mining.
CO6:	Recognize the relevance of Data Analytics and Mining in businesses.
CO7:	Define the concept of Cloud Computing.
CO8:	Explain the relevance of Cloud Computing in businesses.

Course Name: 503: Business Ethics

Sr.No.	Course Outcomes (COs)
CO1:	Understand of the concepts of Business Ethics.
CO2:	Explain current ethical issues and their impacts on business
CO3:	Define the concept of business, government, and societal ethics.
CO4:	Identify the relevance of CSR in today's world
CO5:	Explain the need for ethics and laws in consumer protection
CO6:	Understand workplace ethics and its importance.
CO7:	Analyze the Ethical scenario concerning to Environment and consumer protection.
CO8:	Understand the need for ethics and laws in consumer protection.

Course Name: 504: Management of Corporate Social Responsibility

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concept and process of CSR
CO2:	Interpret various models of CSR.
CO3:	Summarize various stakeholders' roles and responsibilities in CSR activities.
CO4:	Analyze the legal aspect of CSR.
CO5:	Explain Government Rules and Regulations regarding CSR in India.
CO6:	Understand the contribution of CSR for the development of Society
CO7:	Explain the role of Statutory Authorities taking decisions about CSR.
CO8:	Explain context of CSR of present-day Management.

Course Name: 505 A MM: Marketing Environment Analysis and Strategies

Sr.No.	Course Outcomes (COs)
CO1:	Understand of the factors shaping Marketing Environment.
CO2:	List out Micro and Macro Economic Marketing Environment Factors
CO3:	Explain the Business Analysis process.
CO4:	Describe the role of Data Analytics in Business Analysis
CO5:	Cite the challenges of Business Data Analytics.
CO6:	Explain the marketing research process.
CO7:	Describe the concept Big Data Analytics
CO8:	Explain the marketing strategies in the various business domains.

Course Name: 506 A MM: Legal Aspects in Marketing Management

Sr.No.	Course Outcomes (COs)
CO1:	Understand the legal aspect of Marketing Management
CO2:	Describe the law related to sales, home delivery, telesales and Direct Mail Sales

Sr.No.	Course Outcomes (COs)
CO3:	Explain rules and laws related to broadcasting ads via different forms
CO4:	Explain price-related laws and consumer rights for surcharge payment
CO5:	State terms and conditions in CRM
CO6:	Relate general Marketing practices in Marketing origination
CO7:	List out different acts and laws and their application in real-time.

Course Name: 505 B FM: Analysis of Financial Statements

Sr.No.	Course Outcomes (COs)
CO1:	Develop critical & analytical skills for understanding the application of various tools of analysis of financial statements.
CO2:	Develop analytical and interpreting skills for evaluating the financial position of business corporations.
CO3:	Calculate and compare various ratios.
CO4:	Classify different ratios.
CO5:	Understand the cash management of any business corporations.
CO6:	Prepare a cash flow statement.
CO7:	Understand the arrangement of funds for day-to-day business operations.
CO8:	Prepare a fund flow statement.

Course Name: 506 B FM: Legal Aspects of Finance & Security Laws

Sr.No.	Course Outcomes (COs)
CO1:	Understand the fundamentals of legal aspects of Finance.
CO2:	Explain the basics of various financial instruments.
CO3:	Describe the procedure for Issue of various types of Shares and Debentures.
CO4:	Interpret the process of fundraising through IPO.
CO5:	explore the legal procedure of IPO listing & delisting.
CO6:	Memorize the basics of the Companies Act 2013.
CO7:	List out the contents of Memorandum of Associations, Articles of Associations.
CO8:	Understand the basics of Goods & Service Tax.
CO9:	Illustrate the procedure of GST Registration

Course Name: 505 C HRM: Cross-Cultural HR & Industrial Relations

Sr.No.	Course Outcomes (COs)
CO1:	Explain the basic concept of Culture and Cross-Culture.
CO2:	List out Cultural Variables in Multinational Enterprises.
CO3:	Summarize impact of cross-cultural communication on international business.
CO4:	Demonstrate the relationship between Cross-Culture and Human Resource Management.
CO5:	Reproduce the role of Human Resource Management in Cross-Cultural Environment
CO6:	Interpret approaches towards the study of Industrial Relations.
CO7:	Interpret the provisions under The Industrial Disputes Act, 1947.
CO8:	Interpret the provisions under The Factories Act, 1948.
CO9:	Interpret the provisions under The Maternity Benefit Act 2017.

Course Name: 506 C HRM: Cases in Human Resource Management + Project Viva

Sr.No.	Course Outcomes (COs)
CO1:	Explain steps in solving case studies.
CO2:	Analyze the broad fundamental components of HRM
CO3:	Solve Case Studies of Human Resource.
CO4:	Theory and its application in real-life scenario of the HR Department.
CO5:	Understand the challenges faced by HR professionals in recent times.

Course Name: 601: Essentials of E-Commerce

Sr.No.	Course Outcomes (COs)
CO1:	Explain the concept E-Commerce.
CO2:	Describe the role of E-Commerce business with context to India.
CO3:	Explain the role of IT infrastructure in the development of E-Commerce in India.
CO4:	Understand the concept of digital currencies.
CO5:	Identify various tools and techniques used in E-Commerce.
CO6:	Define the concept of cyber warfare and cyber crimes.
CO7:	Interpret the provisions of provisions under IT Act 2000.
CO8:	Explain the concept Social Media Crimes.

Course Name: 602: Management Information System

Sr.No.	Course Outcomes (COs)
CO1:	Understand the basic concept of Information Technology and Management Information Technology.
CO2:	Explain the role of Information Technology in Management Information System.
CO3:	Illustrate the models of Decision Making and their application Decision-Making Process.
CO4:	Classify the Models of Decision Making.
CO5:	Explain the concepts of System, System Analysis.
CO6:	Understand the application of MIS in an enterprise.
CO7:	Explain the Enterprise Model System and E-Business.
CO8:	Describe the concept Business Process Reengineering.

Course Name: 603: Business Project Management

Sr.No.	Course Outcomes (COs)
CO1:	Summarize the role & importance of Management in Business Projects.
CO2:	Classify different types of Business Projects.
CO3:	Differentiate between Projects & Programs.
CO4:	Develop a Business Project Management Plan.
CO5:	Assess the feasibility of a Project.
CO6:	Enumerate the tools & techniques necessary to effectively manage & control the projects in businesses.
CO7:	Calculate Return on Investment, Pay Back Period, And Net Present Value etc.
CO8:	Explain the relationship between the significance of Businesses Projects & their Management.

Course Name: 604: Management of Innovations and Sustainability

Sr.No.	Course Outcomes (COs)
CO1:	Define the concept "Innovation".
CO2:	Relate the concepts - Innovation and Sustainability.
CO3:	Discuss sustainable development and its long-term benefits.
CO4:	Assess the impact of IT System on Innovations.
CO5:	List out different Types of Services.
CO6:	Classify Service innovation.
CO7:	List out several aspects of sustainable development.
CO8:	Explain the concept Green organizations.

Course Name: 605A MM: International Brand Management

Sr.No.	Course Outcomes (COs)
CO1:	Define the concept "Brand".
CO2:	Explain fundamental concepts of branding.
CO3:	Describe the process of creating a brand.

Sr.No.	Course Outcomes (COs)
CO4:	Summarize effective marketing and marketing communication strategies.
CO5:	Illustrate the processes and methods of measuring brand performance.
CO6:	Interpret brand performance data, Brand evaluation plans in the international scenario
CO7:	Define the concepts Brand portfolios, and Brand repositioning/revitalization.
CO8:	Explain the strategies in managing brand portfolios.

Course Name: 606A MM: Cases in Marketing Management + Project

Sr.No.	Course Outcomes (COs)
CO1:	Explain the term Case Study.
CO2:	Explain the recent happening in marketing.
CO3:	Solve Case Studies of Marketing Management
CO4:	Theory and its application in real-life scenario of the Marketing Department.
CO5:	Understand the challenges faced by marketing professionals in recent times.

Course Name: 605 B FM: Financial Management

Sr.No.	Course Outcomes (COs)
CO1:	Explain various sources of finance.
CO2:	Define the term Capital Structure.
CO3:	List out the factors affecting Capital Structure.
CO4:	Describe the term Cost of Capital.
CO5:	Solve problems on Leverages.
CO6:	Understand Modern Concept of Capitalization.
CO7:	Explain the process of evaluation of mutually exclusive proposals.
CO8:	Calculate the Cost of Capital of a company.

Course Name: 606 B FM: Cases in Finance +Project

Sr.No.	Course Outcomes (COs)
CO1:	Understand the importance of fundraising.
CO2:	Classify the types of Capital Budgeting.
CO3:	Explain the concept "Working Capital Management".
CO4:	Solve the cases on Working capital Management.
CO5:	Explain the practical applications of Working Capital.
CO6:	Recite the concept Return of Capital Employed.
CO7:	Describe the practical applications of Cost of Capital.
CO8:	Prepare a research report on the topics related to Financial Management.

Course Name: 605 C HRM: Global Human Resource Management

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concepts, theoretical framework, and issues of HRM in Global Perspective.
CO2:	Identify and Understand issues and practices about the major HRM functions within the context of the global environment.
CO3:	Explain Global Workforce Management functions.
CO4:	Define the concepts of Expatriates and Non- Expatriates.
CO5:	Summarize Global Staffing issues.
CO6:	Recite the concepts Global Training & Development, Global Compensation and Global Performance Management.
CO7:	Describe Strategic HRM practices in multinational enterprises.
CO8:	Role of Role of Technology in Global HRM.

Course Name: 606 C HRM: Recent Trends & HR Accounting + Project

Sr.No.	Course Outcomes (COs)
CO1:	Understand the basic concept of Employee Engagement.
CO2:	Understand the theoretical and practical fundamental knowledge of Recent Trends in HRM and HR Accounting.
CO3:	Describe various Employee Engagement Strategies to enhance Employee Engagement.
CO4:	Discuss the uses of Human Resource Information Systems in organizations.
CO5:	Explain the different methods used to calculate the value of human Resources.
CO6:	Define the concept "Human Resource Audit".
CO7:	Summarize methods of Human Resource Valuation.
CO8:	Explain the process followed in conducting Personnel Research.

HOD
(Dr. S.V.Gawade)

IQAC Head
(Dr. M.S.Phutane)

Principal
(Dr. A.A.Chandgude)

BBA (Computer Application)(2019Pattern)

Sr.No.	Program Outcomes (POs)
PO1:	Develop career in Computer Application.
PO2:	Demonstrate conceptual grounding in computer usage as well as its practical business application.
PO3:	Develop the programs in different languages and applications.
PO4:	Use the knowledge of Software Testing, Networking etc.
PO5:	Develop entrepreneurial, managerial and other domain specific skills.
PO6:	Use different technologies like JAVA, PHP, Python, Android Programming etc. and develop applications.
PO7:	Apply their knowledge of software in live applications.
PO8:	Develop websites and web applications.

Specialization-Python & Dot Net Framework

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	Design and develop Computer Applications using different programming languages.
PSO2:	Design and develop website, web applications
PSO3:	Apply the concepts of Database, Block chain etc.

Course Code: CA-101 Course Name: Business Communication

Sr.No.	Program Specific Outcomes (PSOs)
CO1:	Explain the concept of communication and importance of communication.
CO2:	Memories various terms used in the speaking while communicating.
CO3:	Express the topic effectively.
CO4:	Produce meanings of the terms received on the topics.
CO5:	Show skills in presentation and group activities.
CO6:	Discuss and demonstrate various terms in vocabulary.
CO7:	Use potentials in the individual and group activities.

Course Code: CA-102 Course Name : Principles of Management

Sr.No.	Program Specific Outcomes (PSOs)
CO1:	Explain the fundamental knowledge about working of business organization through the process management.
CO2:	Describe the concept of management process, functions and principles.
CO3:	Discuss with recent trends in management.
CO4:	Explain basic concept of organization and business administration.
CO5:	Interpret the basic principles of management - acquainted with management process, functions and principles.
CO6:	Develop managerial skills.

Course code: CA-103 Course Name: C Programming

Sr.No.	Course Outcomes (COs)
CO1:	Understand Logical and Programming concepts.
CO2:	Remember textual information, characters and strings in programs.
CO3:	Implement and execute Programs in C Language.
CO4:	Describe and handle data structures based on problem subject area.
CO5:	Apply problem solving techniques while writing programs.
CO6:	Implement a concept of object thinking within the framework of functional model.
CO7:	Implement a concept of functional hierarchical code organization.
CO8:	Design complicated programs in C Language.

Course Code: CA-104 Course Name: Data Base Management System

Sr.No.	Course Outcomes (COs)
CO1:	Explain the concept of how to organize, maintain and retrieve information - efficiently, and effectively - from a DBMS
CO2:	Differentiate between different types of Data Models.
CO3:	Design ER-models to represent simple database application scenarios.
CO4:	Convert the ER-model to relational tables, populate relational database.
CO5:	Formulate SQL queries on data.
CO6:	Explain the relational algebra and SQL.
CO7:	Design the database by using the concept of normalization.

Course Code: CA 105 Course Name : Statistics

Sr.No.	Course Outcomes (COs)
CO1:	Apply the power of excel spreadsheet in computing summary statistics.
CO2:	Interpret the concept of various measures of central tendency and variation and their importance in business.
CO3:	Solve the concept of probability, distributions and simulation in business world.
CO4:	Solve the concept of Curves like ogive, Histogram etc.
CO5:	Apply feature of excel to design histogram and graphs.
CO6:	Describe the business profit and loss using graphs.
CO7:	Explain the model sampling form for binomial distributions.

Course Code: CA 106 Course Name : Computer Laboratory Based on 103 & 104

Sr.No.	Course Outcomes (COs)
CO1:	Develop programs using the 'C Programming' for problem solving
CO2:	Apply the knowledge of DBMS practically.
CO3:	Demonstrate theoretical knowledge practically in Computer Laboratory.

Course code: CA 107 Course Name: Principles of Programming and Algorithms

Sr.No.	Course Outcomes (COs)
CO1:	Develop Logical and Analytical Thinking.
CO2:	Implement Problem Solving Techniques
CO3:	Develop algorithms and flowcharts
CO4:	Calculate complexity of algorithms
CO5:	Convert algorithms and flowcharts in C Programs
CO6:	Generate output through algorithms using Dry Run Technique
CO7:	Develop and design the algorithms for problems on Matrix.
CO8:	Apply logics for solving mathematical problems through algorithms

Course Code: CA-201 Course Name: Organizational Behavior

Sr.No.	Course Outcomes (COs)
CO1:	Classify the impact that individual, group and structures on employees behavior within the organizations.
CO2:	Use the knowledge they have received for the betterment of the organization.
CO3:	Describe the human interactions in an organization, find what is driving it and influence it for getting better results in attaining business goals.
CO4:	Describe motivation and conflict management strategies.
CO5:	Explain the importance of team building and effective teamwork.
CO6:	Develop cognizance of the importance of human behavior.
CO7:	Describe how people behave under different conditions and understand why people behave as they do.
CO8:	Understand various components of individual behavior and how it helps in the organizational

Sr.No.	Course Outcomes (COs)
	development and effectiveness in the competitive world.

Course Code: CA-202 Course Name: Financial Accounting

Sr.No.	Course Outcomes (COs)
CO1:	Use knowledge in setting up a computerized set of accounting books.
CO2:	Explain progressive affective domain development of values, the role of accounting in society and business.
CO3:	Explain relevant financial accounting career skills.
CO4:	Use both quantitative and qualitative knowledge to their future careers in business.
CO5:	Describe relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
CO6:	Apply thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, and finance, auditing and marketing.
CO7:	Identify features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.
CO8:	Show proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.

Course Code: CA-203 Course Name: Business Mathematics

Sr.No.	Course Outcomes (COs)
CO1:	Solve quantitative skills.
CO2:	Explain the concept of profit and loss, simple interest, transportation problems, matrices and how to solve them.
CO3:	Explain the concept of ratio, proportion and percentage.
CO4:	Explain the concept of direct proportion, inverse proportion.
CO5:	Explain the concept of trade discount, cash discount, commission and brokerage.
CO6:	Explain the concept of simple interest, compound interest, EMI.
CO7:	Solve Linear equations and LPP problems.

Course Code : CA-204 Course Name: Relational Database Management System

Sr.No.	Course Outcomes (COs)
CO1:	Manipulate the database using PLSQL blocks such as Procedure, Cursor, Trigger, Function and Packages.
CO2:	Differentiate serializable schedule, Non-Serializable schedule using precedence graph.
CO3:	Find transactions in deadlock and how to handle that deadlock.
CO4:	Illustrate transaction recovery by which they can identify Redo, Undo and rollback actions after system crash.
CO5:	Point out restrictions on database using user defined and named exceptions for insert, update and deleting data.
CO6:	Discriminate between database and relational database concepts.
CO7:	Illustrate immediate and different update techniques for data recovery of transactions.

Course Code: CA-205 Course Name: Web Technology HTML-JS-CSS

Sr.No.	Course Outcomes (COs)
CO1:	Describe concept of internet application, HTML Tags.
CO2:	Differentiate Functioning of Database Web Application and Static Web Application.
CO3:	Develop static web applications using HTML and Java script.
CO4:	Develop Styles for Static Web Applications using CSS.
CO5:	Develop HTML form Validation programs using JavaScript.
CO6:	Develop HTML form Validation programs using PHP.
CO7:	Develop dynamic web applications using PHP (without database Programming).

Course Code: CA 206 Course Name : Computer Laboratory Based on 204 & 205

Sr.No.	Course Outcomes (COs)
CO1:	Apply the knowledge of RDBMS practically.
CO2:	Apply the knowledge of WT, HTML, JS and CSS and design the website.
CO3:	Demonstrate his theoretical knowledge practically in computer laboratory.

Course code: 207 ADD On Course Name : Advance C Programming

Sr.No.	Course Outcomes (COs)
CO1:	Study advanced concepts of programming using the 'C' language.
CO2:	Understand code organization with complex data types and structures.
CO3:	Implement permanent storage of records with files.
CO4:	Solve problems using union and enumeration concepts.
CO5:	Develop program using C Graphics.
CO6:	Understand Hardware Interfacing with C Language.
CO7:	Apply problem solving techniques while writing programs.
CO8:	Design complicated programs in C Language.

Course code: (CA 301) Course Name: Digital Marketing

Sr.No.	Course Outcomes (COs)
CO1:	Understand E-commerce concepts.
CO2:	Understand SEO and SEM.
CO3:	Understand customer relationship management.
CO4:	Understand budgeting required for Digital Marketing.
CO5:	Create digital marketing strategies.
CO6:	Create target audience for products/services.
CO7:	Create websites for marketing.
CO8:	Learn various tools of Digital Marketing.
CO9:	Create Facebook Page, YouTube Channels
CO10:	Understand how to promote products using digital marketing platforms.

Course Name : (CA-302) - Data Structure

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concepts of adts.
CO2:	Explain the different methods to organize large amount of data.
CO3:	Classify various types of data structures.
CO4:	Learn linear data structures like – lists, stacks, and queues.
CO5:	Learn nonlinear data structures like – Trees and Graph.
CO6:	Create the programs using the concept of Pointers, Structures and Dynamic Memory Allocation.
CO7:	Understand sorting, searching and hashing algorithms.
CO8:	Express diverse methods for traversing trees.
CO9:	Choose the suitable type of data structure to implement the programs.

Course Name : (CA-303) – Software Engineering

Sr.No.	Course Outcomes (COs)
CO1:	Explain the software development process in depth.
CO2:	Draw software context level diagrams.
CO3:	Explain the concept of Software project methods, configuration.
CO4:	Explain concept of software testing and its types.
CO5:	Describe the concept of requirement of software, system analysis, system design.
CO6:	Explain the types of cohesion, coupling and its types, and modules.

Sr.No.	Course Outcomes (COs)
CO7:	Develop mini project using the concept of ERD, CLD, DFD.
CO8:	Describe the techniques of various models like waterfall, SDLC and so on.

Corse Code: (CA-304) Course Name : PHP

Sr.No.	Course Outcomes (COs)
CO1:	Describe the basic concepts and structure of PHP Programming.
CO2:	Develop PHP programs to understand PHP syntax implementation.
CO3:	Explain use of various in-built functions, Custom functions, objects in PHP programming.
CO4:	Develop forms and produce output through PHP program.
CO5:	Use of various form controls, methods and validating form input in PHP Program.
CO6:	Describe and Use of cookies session variables and protection of online files.
CO7:	Use of Mysql database for reading and writing data using PHP program.

Course code : 305 Course Name: Big Data

Sr.No.	Course Outcomes (COs)
CO1:	Define big data.
CO2:	Classify data using various classification techniques.
CO3:	Explain five V's of Big data.
CO4:	Analyze patterns of data.
CO5:	Describe R-programming.
CO6:	Demonstrate various concepts of R-programming language.
CO7:	Explain concepts on machine learning, supervised learning and unsupervised learning.
CO8:	Reframe data mining using weka tools.

Course Code: CA 306 Course Name : Computer Laboratory Based on 302, 304 & 305

Sr.No.	Course Outcomes (COs)
CO1:	Use the concepts of Data Structures and C Language for problem solving.
CO2:	Use weka tools to reframe data.
CO3:	Use the concepts of PHP and MYSQL Database to develop application.
CO4:	Demonstrate theoretical knowledge practically in computer laboratory.

Course code : 307 (AECC) Course Name: Environment Awareness

Sr.No.	Course Outcomes (COs)
CO1:	Define components of Environment, its importance and multidisciplinary nature.
CO2:	Describe natural resources of water , food, forest , energy etc. and need of their conservation.
CO3:	Understand complex environmental issues like pollution, forest fire ,ozone depletion etc.
CO4:	Define role of computer programming/modeling to solve environment related issues and the measures to control.
CO5:	Analyze data related to environment issues, interpret graphs and reach at conclusions.
CO6:	Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.
CO7:	Work in a team to plan, implement and report on a project

Course Code : (CA-401) Course Name : Networking

Sr.No.	Course Outcomes (COs)
CO1:	Explain about computer network.
CO2:	Explain about various network topologies.
CO3:	Identify the different types of network devices and their functions within a network.
CO4:	Explain the use of connecting device used in network.
CO5:	Explain key networking protocols, and their hierarchical relationship in the context of a conceptual model, such as the OSI and TCP/IP framework.

Sr.No.	Course Outcomes (COs)
CO6:	Explain and analyze different wired and wireless technologies.
CO7:	Identify the different types of network topologies and protocols.
CO8:	Acquire information about network security and cryptography.

Course Name : (CA-402) - Object Oriented Concepts Through CPP

Sr.No.	Course Outcomes (COs)
CO1:	Understand basic object-oriented concepts and the issues involved in effective class design.
CO2:	Explain the concepts of OOPs and the issues involved in effective class design.
CO3:	Differentiate between the Object Oriented Programming and Procedure Oriented Programming.
CO4:	Relate OOPs concepts such as information hiding, constructor, destructor, inheritance with real world.
CO5:	Create C++ programs that use OOPs concepts such as information hiding, constructor, destructor, inheritance.
CO6:	Describe advanced features of C++ specifically stream I/O, templates and operator overloading.
CO7:	Write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism and exception handling.

Course code: CA 403 Course Name: Operating System

Sr.No.	Course Outcomes (COs)
CO1:	Get core knowledge of Operating System
CO2:	Classify concepts of system programming.
CO3:	Categorize services provided by operating system and scheduling concepts.
CO4:	Analyze memory management techniques and resource management in Operating System.
CO5:	Implement the process management policies.
CO6:	Solve problems on scheduling of processes.
CO7:	Solve different problems of memory management techniques and Disk Scheduling.
CO8:	Determine an OS as a resource manager, file system manager, process manager, memory manager and I/O manager.

Course Name : CA-404 - Advance PHP

Sr.No.	Course Outcomes (COs)
CO1:	Develop PHP Program to implement OOPs concepts like classes, objects, introspection, serialization, inheritance, interface, encapsulation.
CO2:	Discuss server information, processing forms, sticky forms, response header and Develop PHP programs to implement these concepts
CO3:	Discuss XML technology along with PHP and Use it to develop PHP programs
CO4:	Develop PHP programs by implementing AJAX technology.
CO5:	Discuss Web Services, Model, benefit and challenges, Architecture, building blocks etc.
CO6:	Discuss and demonstrate of CMS Joomla and Drupal.
CO7:	Design Web Application using Joomla by applying various features of it.

Course Code: CA 405 Course Name : Project

Sr.No.	Course Outcomes (COs)
CO1:	Design the software using concepts of SDLC and SE.
CO2:	Use Joomla by applying its various features of and design Web Application.
CO3:	Design the database using concepts of DBMS and RDBMS.
CO4:	Apply theoretical knowledge practically to solve real life problems.

Course Code: CA 406 Course Name : Computer Laboratory Based on 402 & 404

Sr.No.	Course Outcomes (COs)
CO1:	Apply the knowledge OOP concepts and develop programs using C++ Programming Language practically.

Sr.No.	Course Outcomes (COs)
CO2:	Use Joomla by applying various features of it and design Web Application.
CO3:	Use XML technology along with PHP and use it to develop PHP programs.
CO4:	Use AJAX technology to develop PHP programs.
CO5:	Demonstrate theoretical knowledge practically in computer laboratory.

Course Code : CA-407 (Addon) Course Name – JQuery

Sr.No.	Course Outcomes (COs)
CO1:	Apply the concepts of JavaScript and JQuery in programs.
CO2:	Use the concept of binding Events to the Controls in Java script.
CO3:	Use JQuery Library and include it in HTML Page
CO4:	Select the HTML elements by name, attribute name, id.
CO5:	Understand the traverse of HTML Elements.
CO6:	Handle different events from different controls.
CO7:	Apply effects to the elements in HTML Page.
CO8:	Modify elements by adding CSS class and inserting elements.

Course Code: CA-501 Course Name : Cyber Security

Sr.No.	Course Outcomes (COs)
CO1:	Discuss the concept of cyber crime, classification and cyber security.
CO2:	Identify the different types of cyber crimes.
CO3:	Discuss different methods and tools used in cyber crimes.
CO4:	Discuss various cyber laws.
CO5:	Develop cyber forensics awareness.
CO6:	Recognize cyber security implications in the organizations.
CO7:	Identify attacks, security policies and credit card frauds in mobile and Wireless Computing Era.

Course Code : 502 Course Name- Object Oriented Software Engineering

Sr.No.	Course Outcomes (COs)
CO1:	Give design specifications for project.
CO2:	Acquire knowledge in basic modeling.
CO3:	Acquire project management skills.
CO4:	Design with the UML dynamic and implementation diagrams.
CO5:	Explain the design and communicate ideas about software system solutions at different levels.
CO6:	Define employment in technical positions in software houses and with large-scale scientific and engineering users.
CO7:	explain concepts like appreciation of the cost, quality, and management issues involved in software construction.
CO:8	Describe how to demonstrate component and deployment diagram.

Course Code: 503 CA- Course Name: Core JAVA

Sr.No.	Course Outcomes (COs)
CO1:	Explain the basic concepts of Java Programming.
CO2:	Use the Java Programming in Day to Day Applications.
CO3:	Explain the concepts of object oriented programming.
CO4:	Describe the concepts of abstraction, inheritance etc.
CO5:	Describe the fundamental features of JAVA programming such as platform independence, garbage collector etc.
CO6:	Develop the java application using file handling.
CO7:	Use the different classes given in collection framework.

Course code: 504 Course Name: Python

Sr.No.	Course Outcomes (COs)

Sr.No.	Course Outcomes (COs)
CO1:	Define Python programming basics and paradigm.
CO2:	Interpret python looping, control statements and string manipulations.
CO3:	Discover the concepts of GUI controls and designing GUI applications
CO4:	Apply the concepts of file handling, exception handling.
CO3:	Discover the concepts of GUI controls and designing GUI applications
CO4:	Apply the concepts of file handling, exception handling.
CO5:	Discriminate the use of built-in data structures "lists" and "dictionary".
CO6:	Discover a program to solve a real world problem.
CO7:	Reframe GUI application and explain how to handle exceptions and files
CO8:	Apply python libraries.

Course Name : 505 - Project

Sr.No.	Course Outcomes (COs)
CO1:	Design the software using concepts of SDLC and OOSE.
CO2:	Design the database using concepts of DBMS and RDBMS.
CO3:	Develop software using Java and Python.
CO4:	Apply his theoretical knowledge practically to solve real life problems.

Course Name : 506 – Computer Laboratory Based on 503 & 504

Sr.No.	Course Outcomes (COs)
CO1:	Use the concepts of Python to develop applications.
CO2:	Apply the concepts of core JAVA Programming for problem solving
CO3:	Demonstrate his theoretical knowledge practically in computer laboratory.

Course code: CA-507 Course Name: Internet of Things (IoT)

Sr.No.	Course Outcomes (COs)
CO1:	Define technical aspects of Internet of things.
CO2:	Interpret smart objects.
CO3:	Describe IoT Architecture and security in Internet of Things.
CO4:	Compare different Application protocols of IoT.
CO5:	Discriminate the role of IoT protocols for efficient network communication.
CO6:	Describe Microcontroller Fundamental and Arduino uno.
CO7:	Reframe Arduino Libraries 25 Programming and Interfacing.
CO8:	Manipulate IoT platform such as Arduino Uno.

Course Code : CA-601 Course Name - Recent Trends in IT

Sr.No.	Course Outcomes (COs)
CO1:	Describe upcoming trends in Information technology.
CO2:	Discuss the basic concepts AI.
CO3:	Apply basic, intermediate and advanced techniques to mine the data.
CO4:	Integrate with each other over the Internet thus opening gates for lots of other domains such cyber security, cryptography, networking etc.
CO5:	Provide an overview of the concept of Spark programming.
CO6:	Solve problems of cryptography in optimal time.
CO7:	Identify the functionality of the various data mining and data warehousing component.

Course Name : CA-602 Course Name- Software Testing

Sr.No.	Course Outcomes (COs)
CO1:	Describe the process of software testing and various concepts for testing software.
CO2:	Describe about various Testing Approaches and Designing Test Cases.
CO3:	Discuss different testing strategies and software performance testing.
CO4:	Discuss various software metrics.

Sr.No.	Course Outcomes (COs)
CO5:	Explain various testing methods for specialized Environments.
CO6:	Describe and differentiate various software testing tools.
CO7:	Discuss concept of quality in association with software quality.

Course Code: CA-603 Course Name : Advanced Java

Sr.No.	Course Outcomes (COs)
CO1:	Explain the concepts of distributed applications.
CO2:	Differentiate between client side programming and server side programming.
CO3:	Describe the importance of session tracking and how to handle it.
CO4:	Develop distributed application.
CO5:	Develop application using database and connectivity through JAVA.
CO6:	Develop application by using Remote Method Invocation.
CO7:	Develop web based applications.

Course Name: CA-604 - Dot Net Framework

Sr.No.	Course Outcomes (COs)
CO1:	build applications using VB.Net
CO2:	use the features of Dot Net Framework along with the features of VB.NET
CO3:	create Classes & objects, properties & methods, object oriented techniques Using C#.Net
CO4:	Create Web application using ASP.Net
CO5:	Use ADO.Net, Connection object, Data Reader, Data Adapter, Command Object

Course Code : 605 Course Name - Project

Sr.No.	Course Outcomes (COs)
CO1:	Design the software using concepts of SDLC and SE.
CO2:	Design the database using concepts of DBMS and RDBMS.
CO3:	Develop software using JAVA/PYTHON Programming/Dot Net Programming.
CO4:	Apply theoretical knowledge practically to solve real life problems.

Course Code : 606 Course Name – Computer Laboratory Based on 603 & 604

Sr.No.	Course Outcomes (COs)
CO1:	Apply the knowledge of Android Programming for app development.
CO2:	Use the concepts of JDBC for Database connectivity.
CO3:	Apply the concepts of Adv JAVA for distributed applications and problem solving
CO4:	Demonstrate theoretical knowledge practically in computer laboratory.

Course Code : 607 Course Name – Soft Skill (Add-on)

Sr.No.	Course Outcomes (COs)
CO1:	Define soft skills and different types of soft skills.
CO2:	To understand what is the role of communication in personal and business world
CO3:	To develop proficiency in how to write business letters and other communications in required area.
CO4:	Learn Manners and etiquette, group discussion, etc

HOD
(Dr. S.S.Taware)

IQAC Head
(Dr. M.S.Bhutane)

Principal
(Dr. A.A.Chandgude)

B.Sc.(Computer Science) (2019 Pattern)

Sr.No.	Program Outcomes (POs) -A student will be able to:
PO1:	Learn the mathematics, science and computer fundamentals to find the optimum solution of complex Computer Science problems.
PO2:	Identify, formulate, research literature, and analyse complex scientific problems using principles of mathematics and applied science
PO3:	Develop the skills to present ideas effectively and efficiently as a member and as a leader.
PO4:	Create, Solve and apply tools of programming, networking, database, Web design and modern technology for solutions to significant problems.
PO5:	Design computer-based solutions for various technical problems.
PO6:	Ensure professional development growth through contextual, reflective and lifelong learning.
PO7:	Demonstrate knowledge, Design, and implement solutions to significant computational problems.
PO8:	Use research-based knowledge and methods design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO9:	Apply professional ethics, responsibilities and norms of the scientific practice
PO10:	Understand the impact of the software engineering solutions in social and environmental contexts, and demonstrate the knowledge and need for development.

Sr.No.	Program Specific Outcomes (PSOs) - A student will be able to
PSO1:	Develop the ability to use the information and facts gained during the course of the program from Mathematics, Basic Computing, Electronics Sciences and Statistics in general and all computer science courses in particular to identify, formulate and solve real life complex problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.
PSO2:	Enhance the ability to distinguish a problem, identify and define the computing requirements, which may be appropriate to its solution.
PSO3:	Enable learners to design, implement, and estimate a computer-based system, process, component, or program to meet desired needs.
PSO4:	Develop a sense of team spirit to accomplish a common goal while functioning effectively on teams managing and assisting the team plan and be able to distinguish between the local and global impact of computing on individuals, organizations, and society.

Course Name: CS-101 Problem Solving using Computer & 'C' Programming

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Explain the basic concepts of program development statements and its syntax.
CO2:	Demonstrate the various operations performed on different types of operators.
CO3:	Illustrate the flowchart and design an algorithm for a given problem.
CO4:	Explore algorithmic approaches to problem solving.
CO5:	Design and use the code and test a 'C' Program.
CO6:	Develop modular programs using control structures and arrays in 'C'.
CO7:	Define the various types of functions' mechanisms.
CO8:	Describe various types of arrays.

Course Name: CS-102 Database Management Systems

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Define the fundamentals of File processing and database processing system.
CO2:	Relate the various data model and its application.
CO3:	Relate the various normal forms and its role in DBMS.
CO4:	Describe the fundamental concepts of SQL programs.
CO5:	Solve real world problems using appropriate set, function, and relational models.
CO6:	Design E-R Model for given requirements and convert the same into database tables.

Sr.No.	Course Outcomes (COs) -A student will be able to
CO7:	Design the Normalize the database.
CO8:	Explain key concepts for design the table.

Course Name: CS-103 -Practical Course on Problem Solving using Computer and C Programming & Database Management System

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Read, understand and trace the execution of programs written in C language.
CO2:	Devise pseudocodes and flowchart for computational problems.
CO3:	Write, debug and execute simple programs in 'C'.
CO4:	Read, understand and design to create database and relation by using DDL commands.
CO5:	Create database tables in PostgreSQL.
CO6:	Write and execute simple, nested queries.
CO7:	Write queries in SQL to retrieve any type of information from a data base.
CO8:	Design RDB.

Course Name: ELC-111: Semiconductor Devices and Basic Electronic Systems

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand working of semiconductor devices like Diodes, BJT and MOSFET etc.
CO2:	Acquire basic knowledge on the construction and working of various semiconductor devices.
CO3:	Classify and describe the semiconductor devices for special applications.
CO4:	Apply the knowledge of semiconductors to illustrate the functioning of basic electronic devices.
CO5:	Design simple oscillator circuits and multivibrators.
CO6:	Understand the working of electronic circuits for data conversions like different ADCs and DACs.
CO7:	Also gets familiar with data converters which are helpful in real-life applications.
CO8:	Acquire knowledge about the characteristics and working principles of semiconductor diodes, Bipolar Junction Transistor.

Course Name: ELC- 112 Principles of Digital Electronics

Sr.No.	Course Outcomes (COs) - A student will be able to
CO1:	Understand the different number systems used in digital electronics.
CO2:	Reduce any complex logic circuit into the simple logic circuit by applying the Boolean algebra and K-Map techniques.
CO3:	Analyze how the combinational circuits work in digital electronics.
CO4:	Compare different logic families used in VLSI technology.
CO5:	Understand the role of digital electronics in various fields such as computer systems, VLSI technology etc.
CO6:	To get an insight about the basic introduction of Digital electronics.
CO7:	Students can simplify different Boolean equations with the help of K-Map techniques.
CO8:	At the end of this course, the student can interpret the role of digital electronics in various fields such as computer systems, VLSI technology, etc.

Course Name: ELC – 113 Electronics Lab IA

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Identify different electronic components and familiarize with its working principles.
CO2:	Study different meters and instruments for the measurement of electrical quantities.
CO3:	Design logic gates using diodes and transistors.
CO4:	Apply Boolean theorems and K-maps to solve Boolean expressions of half adder and full adder.
CO5:	Perform simulations for designing and analyzing different electronic circuits.
CO6:	Understand different types of DAC and their performance parameters.

Sr.No.	Course Outcomes (COs) -A student will be able to
CO7:	Learn different data converter circuits using op-amp.
CO8:	Perform simulations for designing and analysing different electronic circuits.

Course Name: MTC-111 Matrix Algebra

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Work with matrices and identify certain parameters and properties of the matrices.
CO2:	Carry out matrix operations, including inverses, determinants and its properties.
CO3:	Solve systems of linear equations using multiple methods, including Gaussian elimination and LU Factorization.
CO4:	Demonstrate understanding of the concepts of subspace, null space, column space.
CO5:	Apply principles of matrix algebra to linear transformations.
CO6:	Recognize the concepts of the terms span, linear independence, basis, and dimension, and apply these concepts to various vector spaces and subspaces,

Course Name: MTC-112: Discrete Mathematics

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Recall the basis terminologies of sets
CO2:	Define equivalence relations and partial ordering relations.
CO3:	Describe relations, types of relations, equivalence relations and partial ordering relations, digraphs of relations, matrix representation and composition of relations.
CO4:	Identify the difference between Product Rule and Sum Rule.
CO5:	Discover Disjunctive normal form and Conjunctive normal Form of Boolean functions.
CO6:	Calculate transitive closure using Warshall's Algorithm

Course Name: MT-113: Mathematics Practical

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	To learn and understand Maxima basics and basic arithmetic operations
CO2:	To learn and understand to plots in 2D and 3D
CO3:	To design and implement Discrete plot, parametric plot, implicit plot and countour plot
CO4:	To learn and know the concepts of logical equivalence,boolean algebra, counting principles, and recurrence relation
CO5:	To define and demonstrate algebra of matrices, operation on matrices, column space, null space, rank and nullity
CO6:	To develop adequate skills in Maxima and understand the implementation LU decomposition method

Course Name: CSST-111 Descriptive Statistics

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Summarize and condense the raw data.
CO2:	Tabulate statistical information given in descriptive form.
CO3:	Use graphical techniques and interpret.
CO4:	Compute various measures of central tendency, dispersion, skewness, kurtosis and measures of attributes for given real life data and give its interpretation.
CO5:	Use open source statistical software like GNU SPSS, R-software, STATMAX, SCILAB, JAMOVI, RStudio, SOFA, JASP etc. for data analysis.
CO6:	Use Ms-excel for diagrammatic, graphical representation and for the analysis of descriptive statistics.

Apply the knowledge of permutation and combination to find the probabilities of events.
Apply the knowledge of Bayes' theorem for finding posterior probabilities.
Calculate the mean and variance of discrete and continuous random variables.
Apply standard discrete probability distribution to analyze real life situations.
Use Ms-excel for fitting of discrete probability distributions.

: CSST-113: Statistics Practical Paper I

Course Outcomes (COs) -A student will be able to
Prepare appropriate table and frequency distribution for the given data.
Use appropriate graph and diagram to represent the given data and interpret it.
Compute various measures of central tendency, dispersion, skewness and kurtosis and use of their appropriate measures in the given situation.
Fit the Binomial and Poisson probability models for the given data.
Compute the measures of attributes.
Process the collected data, its condensation and representation by using appropriates statistical tools and techniques.
Study free statistical software and use them for data analysis in project.

SEM II Course Name- CS-121 Advanced 'C' Programming

Course Outcomes (COs) -A student will be able to
Design and develop Computer programs, analyses, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.
Learn advanced features of the C language.
Define and manage structures and union on problem subject domain.
Analyse and implement various kinds of string techniques.
Develop modular programs using control structures, pointers, strings and structures.
Implement files and command line arguments.
Design and develop solutions to real world problems using C.
Define macros &pre-processor.

: CS-122 Relational Database management System

Course Outcomes (COs) - A student will be able to
Design E-R Model for given requirements and convert the same into database tables.
Use database techniques such as SQL & PL/SQL.
Demonstrate the principles behind systematic database design approaches by covering conceptual design, logical design through normalization.
Learn database Integrity and Security Concepts.
Explain various concepts of transactions and deadlock and find transactions trapped in it.
Express database crash and recovery management.
Use advanced database Programming concepts.
Learn XML database, no SQL , Big database.

: CS-123 Practical Course on Advanced C Programming & Relational nagement System

Sr.No.	Course Outcomes (COs) -A student will be able to
CO3:	Design and implement file handling and command line arguments.
CO4:	Write and execute program using pre-processor directive.
CO5:	Use SQL & PL/SQL.
CO6:	Implement programming PL/SQL including stored procedures, stored functions, cursors, trigger.
CO7:	Perform advanced database operations.
CO8:	Implement programs of Exception Handling.

Course Name: ELC-121: Instrumentation Systems

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand working of various blocks of instrumentation system.
CO2:	Identify the various parameters that are measurable in electronic instrumentation.
CO3:	Understand applications of various sensor and Actuators
CO4:	Illustrate the construction and working principles of various types of sensors.
CO5:	Understand and analyze the IC 741 operational amplifier and its characteristics.
CO6:	Understand various operating modes of Op-amp and its linear/non-linear applications.
CO7:	The student is able to construct or design the circuits using electronic devices or components.
CO8:	After completion of this course student is able to test the circuits using electronic devices or components as well as different signal conditioning blocks.

Course Name: ELC-122 Basics of Computer Organization

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Identify different electronic components and familiar with its working principles.
CO2:	Study different meters and instruments for the measurement of electrical quantities.
CO3:	Design logic gates using diodes and transistors.
CO4:	Apply Boolean theorems and K-maps to solve Boolean expressions of half adder and full adder.
CO5:	Analyze combinational and sequential circuits.
CO6:	Perform simulations for designing and analyzing different electronic circuits.
CO7:	Learn different data converter circuits using op-amp.
CO8:	Understand different types of DAC and their performance parameters.

Course Name:ELC-123 Electronics Lab 1B

Sr.No.	Course Outcomes (COs)
CO1:	Build small hobby projects in Electronics by making use of active, passive components.
CO2:	Develop mini projects with the help of basic knowledge of different components and Integrated circuits.
CO3:	Understand principles of sensors and their characteristics.
CO4:	Study different applications of operational amplifier.
CO5:	Apply universal gates to design flip flops and shift registers.
CO6:	Learn the action of diode matrix ROM.
CO7:	Understand op-amp parameter and design various circuits using operational amplifiers.
CO8:	Understand applications of various sensors in industry.

Course Name:MTC-121 Linear Algebra

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Explain real vector spaces and subspaces and apply their properties
CO2:	Calculate bases,dimension,null-space, columnspace and rank of vectors.
CO3:	Demonstrate the definition of Eigenvalues and Eigenvectors.
CO4:	Explain about diagonalization of matrix and linear transformation.
CO5:	Describe Inner product, length ,orthogonality Orthogonal sets, Orthogonal Projections,

Sr.No.	Course Outcomes (COs) -A student will be able to
	Diagonalization of Symmetric Matrices & Quadratic forms.
CO6:	Develop the knowledge about geometry of vector spaces and Explain Affine combinations, Affine independence &Convex combinations.

Course Name: MTC-122 Graph Theory

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Recall basic terminologies and properties of graph.
CO2:	Define types of graph, walk, trail, path, cycle.
CO3:	Predict Isomorphism of graphs.
CO4:	Explain shortest path problem, Dijkstra's algorithm.
CO5:	Solve Chinese postman problem.
CO6:	Calculate shortest spanning tree.

Course Name: MT-212MT-123: Mathematics Practical

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	To learn and understand column space, null space, rank and nullity
CO2:	To learn and understand to characteristic polynomial, eigen values and eigen vectors of matrices
CO3:	To learn and know the concepts inner product
CO4:	To design and implement graph, directed graph and undirected graph
CO5:	To define and demonstrate in-degree, out-degree, adjacency and incident matrix
CO6:	To develop adequate skills in Maxima and understand the vertex connectivty, edge connectivity, eulerian graph, hamiltonian graph, shortest path problem

Course Name: CSST 121 Methods of Applied Statistics

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Distinguish between univariate, bivariate and multivariate data.
CO2:	Compute the correlation coefficient for bivariate data and interpret it.
CO3:	Use the regression (linear and non-linear) and time series techniques for forecasting purpose.
CO4:	Use Ms-excel for correlation analysis and fitting of linear bivariate and multivariate regression models.
CO5:	Use applied statistical techniques in the field of computers and any other real life situations.

Course Name: CSST 122: Continuous Probability Distributions and Testing of Hypotheses

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Distinguish between parametric and non-parametric tests
CO2:	Apply standard continuous probability distribution to analyze real life situations.
CO3:	Apply different tests of hypotheses in real life situations.
CO4:	Use simulation techniques to generate model samples from various distributions like normal, exponential, and uniform distribution

Course Name: CSST-123 Statistics Practical -II

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Use Ms-excel for correlation analysis and fitting of linear bivariate and multivariate regression models
CO2:	Fit the regression models and check the goodness of fit using MS-Excel.
CO3:	Simulate the random numbers from given distributions using MS-Excel.
CO4:	Fit the probability models and find the expected frequencies for the normal distribution.
CO5:	Estimate the trend as a component of time series using the method of moving averages.
CO6:	Apply the parametric and non-parametric tests for given real life problems.

SY BSc(CS) -SEM III Course Name: CS 231 Data Structures and Algorithms-I

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Use well-organized data structures in solving various problems.
CO2:	Differentiate the usage of various structures in problem solutions.
CO3:	Implementing algorithms to solve problems using appropriate data structures.
CO4:	Compute the complexity of various algorithms.
CO5:	Introduce the concept of data structures through ADT including List, Stack, Queues etc.
CO6:	Introduce various techniques for representation of the data in the real world.
CO7:	Introduce the concept of organizing and manipulating data.
CO8:	Introduce the various application of stack and Queue.

Course Name: CS-232 Software Engineering:

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Compare and choose a process model for a software project development.
CO2:	Identify requirements, analyse and prepare models.
CO3:	Prepare the SRS, Design document, Project plan of a given software system.
CO4:	Explain the techniques, skills, and modern engineering tools necessary for S/W Development practice
CO5:	Define and explain the fundamental facts in science, mathematics, fundamentals of computer science, software engineering and multidisciplinary engineering to begin in practice as a software developer.
CO6:	Design and develop principles in the construction of software systems of varying complexities.
CO7:	Develop the skills to present ideas effectively and efficiently.
CO8:	Design computer-based solutions for various technical problems.

Course Name: CS 233-Practical course on CS 231 (Data Structures and Algorithms I) and CS 232 (Software Engineering)

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Implement searching and sorting algorithms on array data structure.
CO2:	Design dynamic data structure like Linked list.
CO3:	Implement different operations on linear data structure like stack and queue.
CO4:	Implement Circular and Priority Queue.
CO5:	Implement prefix and pot operation on stack.
CO6:	Discuss steps of software development.
CO7:	Design documents of small user application.
CO8:	Develop UML Use case and other diagram.

Course Name: ELC 231 : ELC 231: Microcontroller Architecture & Programming

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the generalized architecture and Programming model of 8051 microcontroller.
CO2:	Analyze the knowledge of addressing modes and instruction set of 8051 microcontrollers.
CO3:	Understand and apply the fundamentals of assembly level and embedded C programming.
CO4:	Understand the concept of Timer, Interrupt, Serial communication.
CO5:	Design or program Timers of 8051 microcontrollers using embedded C.
CO6:	Understand interfacing of microcontroller-based systems for various real world applications.
CO7:	Understand interfacing of microcontroller-based systems for various real world applications.
CO8:	Implement and design small microcontroller-based projects.

Course Name: ELC 232 : Digital Communication and Networking

Sr.No.	Course Outcomes (COs) -A student will be able to

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Define and explain terminologies of data communication.
CO2:	Identify the need of data coding and error detection/correction mechanism.
CO3:	Understand the impact and limitations of various digital modulation techniques.
CO4:	Acquaint with concepts of modulation, demodulation and multiplexing techniques.
CO5:	Understand the basics of Communication System with transmission medium and modulation schemes.
CO6:	Acknowledge the need of spread spectrum schemes.
CO7:	Identify functions of data link layer and network layer while accessing communication link
CO8:	Choose appropriate and advanced techniques to build computer network.

TY B.Sc(CS) Course Name: ELC 233- Electronics Practical Course

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Design and build his/her own microcontroller-based projects.
CO2:	Acquire skills of Configuration of IP and MAC address and to study Local Area Network setup.
CO3:	Understand Interfacing of Microcontroller with stepper motor, LCD and DAC.
CO4:	Acquire skills in Embedded C programming.
CO5:	Know multiplexing and modulation techniques useful in developing wireless applications.
CO6:	Build and test own network and do settings.
CO7:	Develop practical skills in network setup.
CO8:	Acquire skills in Assembly language programming.

Course Name: MTC-231: Groups and Coding Theory

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Demonstrate when a binary algebraic structure forms a group.
CO2:	Determine possible subgroups of a group.
CO3:	Examine symmetric and permutation groups.
CO4:	Identify cyclic subgroups and their generators.
CO5:	understand basic ideas of coding theory and cryptography.
CO6:	Understand the principles and theory of error-correcting codes, and the various methods for constructing them.

Course Name: MTC-232: Numerical Techniques

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Find different errors and approximations.
CO2:	Solve algebraic and transcendental equation
CO3:	Describe the difference between various differene operators.
CO4:	Understand different methods of interpolation with equal and unequal intervals
CO5:	Calculate the intergrals using different methods.
CO6:	Solve differential equation using various methods.

Course Name: MTC-232: Mathematics Practical: Python Programming Language-I

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	To learn and understand Python programming basics and paradigm.
CO2:	To learn and understand python looping, control statements and string manipulations.
CO3:	To learn and know the concepts of file handling, exception handling and database connectivity
CO4:	To design and implement a program to solve a real world problem
CO5:	To define and demonstrate the use of built - in data structures "lists", "tuple", "string", Iterations and conditional statements.
CO6:	To develop adequate skills in programming and understand the implementation of various

Sr.No.	Course Outcomes (COs) -A student will be able to
	applications using Python.

Course Name: AECC : English

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Introduce the use of English in multimedia.
CO2:	Apply the language skills in multivalent contexts.
CO3:	Apply speaking skill in various contexts.
CO4:	Understand advanced writing skills in different contexts.
CO5:	Develop soft skills.
CO6:	Minimize the gap between the existing communicative skills and the skills require at professional level.
CO7:	Develop competence to appreciate and analyze short stories and poetry.
CO8:	Exhibit better performance.

SY BSc(CS) -SEM IV Course Name: CS 242-Data Structure and Algorithms-II

Sr.No.	Course Outcomes (COs)
CO1:	Implementation of different data structures efficiently
CO2:	Use of well-organized data structures to handle large amount of data
CO3:	Use of appropriate data structures for problem solving
CO4:	Design and implement various advanced data structures.
CO5:	Introduce various techniques for representation of the data in the real world.
CO6:	Implement non-linear data structures.
CO7:	Introduce concept of hashing and various technique of hashing
CO8:	Introduce various applications of tree and graph

Course Name: CS-242 Computer Network -I

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand OSI and TCP/IP Reference Models and in particular have a good knowledge of Layers.
CO2:	Understand the working of various protocols.
CO3:	Analyse the requirements for a given organizational structure and select the most appropriate networking architecture and technologies.
CO4:	Understand various topologies and applications of networks.
CO5:	Recognize the technological trends of Computer Networking.
CO6:	Evaluate the challenges in building networks and solutions to those.
CO7:	Classify the concepts of protocols, network interfaces and categorize of performance issues in local area networks and wide area networks.
CO8:	Summarize wireless networking concepts, contemporary issues in networking technologies, network tools and network programming.

Course Name: CS-243Practical course on CS 241(Data Structures and Algorithms II) and CS 242 (Computer Networks I)

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Implement data structures such as tree and graph.
CO2:	Design programs to demonstrate fundamental algorithmic problems including Tree Traversals, Graph traversals, and shortest paths.
CO3:	Implement different operation on Non-linear data structure like tree ,Binary Tree
CO4:	Design different application of non-linear data structure like Djistra's algorithm ,Hash table
CO5:	Develop solutions for a problem on Topological sorting and Minimum spanning tree algorithm
CO6:	Implement Networking related assignment

Sr.No.	Course Outcomes (COs) -A student will be able to
CO7:	Implement use of graph on social network
CO8:	Identify network topologies implemented in computer laboratories.

Course Name: ELC :241:Embedded Systems Design

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the difference between general computing and the Embedded systems.
CO2:	Know the fundamentals of embedded systems.
CO3:	Understand the use of Single board Computer (Such as Raspberry Pi) for an embedded system application
CO4:	Develop embedded systems and theirinterfaces with peripheral devices by using programming environment.
CO5:	Understand with tools used to develop embedded environment.
CO6:	Design flow and available tools for an Embedded system.
CO7:	Understand the implementation of embedded system using firmware and hardware components.
CO8:	Develop practical skills for designing embedded system Applications.

Course Name: ELC 242: Wireless Communication and Internet of Things

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand concepts of cellular telephony system.
CO2:	Enumerate the latest wireless technologies such as Mobile communication, GSM, GPRS.
CO3:	Get acquainted with 3G and 4G Cellular Network Technologies for Data Connections.
CO4:	Understand working principles of short-range communication application.
CO5:	Get familiar to upcoming technology of Internet of Things.
CO6:	Explain the Networking technologies such as Low power local area networking (LPLAN), Low power wide area networking (LPWAN) technologies used in IOT.
CO7:	Explore and develop new IoT based applications.
CO8:	Understand challenges in IoT such as Power consumption, Physical security, durability etc.

Course Name: ELC 243: Electronics Practical Course

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Design and develop own smart applications using Rasberry-Pi.
CO2:	Write Python program for simple applications.
CO3:	Build own IoT based system.
CO4:	Understand working of GSM, SIM and GPRS.
CO5:	Acquaint with RFID and Zigbee Applications.
CO6:	Design LORA based systems.
CO7:	Design and build Temperature and humidity sensing system-using Arduino.
CO8:	Develop skills of analysing test results of given experiments.

Course Name: CS-345 MTC-241: Computational Geometry

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Discuss applications of Computational Geometry.
CO2:	Apply transformations in Two dimension
CO3:	Apply transformations in Three dimension
CO4:	Understand the concept of projection and their applications in computer graphics.
CO5:	Obtain various projections of objects.
CO6:	Find the equispaced points on circle and equation of Bezier Curve.

Course Name: MTC-242: Operations Research

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Define the types of the variables used in Operation Research
CO2:	Interpret the real life production or inventory problems as a LPP models.
CO3:	Choose the proper method for solving the optimization problem . Restructure sentence- Be specific
CO4:	Construct the LPP models.
CO5:	Analyse the given conditions to understand the model for profit or loss.
CO6:	Understand the importance of strategy making.

Course Name: MTC-243: Mathematics Practical: Python Programming Language-II

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Acquire programming skills in core Python.
CO2:	Develop the skill of designing Graphical user Interfaces in Python.
CO3:	Develop the ability to write database applications in Python.
CO4:	Indicate the use of regular expressions and built-in functions to navigate the file system.
CO5:	Inculcate the Programming concepts and Graphical representation of two- and three-dimensional objects in Python.
CO6:	Design and implement a program to solve a real-world problem like Linear Programming Problems.

Course Name: AECC : English

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Introduce the use of English in multimedia.
CO2:	Apply the language skills in multivalent contexts.
CO3:	Apply speaking skill in various contexts.
CO4:	Understand advanced writing skills in different contexts.
CO5:	Develop soft skills.
CO6:	Minimize the gap between the existing communicative skills and the skills require at professional level.
CO7:	Develop competence to appreciate and analyze short stories and poetry.
CO8:	Exhibit better performance.

Course Name: AECC : Environmental Science

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Define components of environment, its importance and multidisciplinary nature.
CO2:	Describe natural resources of water , food, forest , energy etc. and need of their conservation .
CO3:	Understand complex environmental issues such as pollution, forest fire ,ozone depletion etc.
CO4:	Analyze data related to environment issues , interpret graphs and reach at conclusions.
CO5:	Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.
CO6:	Use critical thinking ,problem solving approach of natural and computer sciences in solving problems related to environment.
CO7:	Define role of computer programming/modelling qualitatively to solve environment related issues and to provide the measures to control .
CO8:	Work in a team to plan, implement and report on a project.

TY BSc(CS) -SEM V Course Name: CS-351 Operating System- I

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the concept of operation system and its principle.
CO2:	Study the various functions and services provided by operating system.
CO3:	Understand the notion of process and threads.

Sr.No.	Course Outcomes (COs) -A student will be able to
CO4:	Describe the basic components of an operating system and their role in implementations for general purpose, real-time and embedded applications.
CO5:	Understand complexity of operating system as a software.
CO6:	Explain the basics of concept of scheduling processes and its algorithms.
CO7:	Understand the concept of synchronization in process and threads by operating system.
CO8:	Expose the details of memory management and its types.

Course Name: CS-352 Computer Networks – II

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the different protocols of application layer.
CO2:	Understand the basic concepts of multimedia.
CO3:	Understand the basic concept of SSL , Firewalls, PGP Certificate.
CO4:	Understand the concept of cryptographic techniques for data security.
CO5:	Develop various Multimedia Systems applicable in real time.
CO6:	Develop understanding of technical aspect of Multimedia Systems.
CO7:	Identify information security goals.
CO8:	Explore the different methods used for Network/INTERNET security.

Course Name: CS-353 Web Technologies-I

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the basics concepts of HTML and HTTP.
CO2:	Explain client service architecture with HTTP basic working and describe the lexical and language structure of PHP.
CO3:	Explain how to write functions with various parameters in PHP and various types of string in PHP.
CO4:	Describe Classify arrays in PHP and implement and demonstrate its implementation in PHP.
CO5:	Explain and implement files and directories handling in PHP.
CO6:	Explain and implement database handling connectivity in PHP.
CO7:	Understand the concept of email handling.
CO8:	Develop and implement interactive web pages using HTML, CSS, to create a dynamic web site using PHP Programming and Database connectivity.

Course Name: CS-354 Foundations of Data Science

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the basic concept of data science.
CO2:	Perform Exploratory data analysis.
CO3:	Obtain, clean/process, and transform data.
CO4:	Detect and diagnose common data issues, such as missing values, special values, outliers, inconsistencies, and localization.
CO5:	Demonstrate proficiency with statistical analysis of data.
CO6:	Understand data visualization techniques.
CO7:	Understand data pre-processing, data transformation and cleaning techniques.
CO8:	Prepare data for use with a variety of statistical methods and models and recognize how the quality of the data and the means of data collection may affect conclusions.

Course Name: CS-355Object Oriented Programming using Java – I

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the basic concept of object-oriented programming language.
CO2:	Understand the concept of classes, object, packages and collections.
CO3:	Understand the concept of exception and file handling.

Sr.No.	Course Outcomes (COs) -A student will be able to
CO4:	Describe the critical thinking skills through solving programming problems and modify the existing code.
CO5:	Distinguish the standard syntax for java programs and other programming tools.
CO6:	Understand the basic concepts of AWT and Swing
CO7:	Develop GUI based application.
CO8:	Write the java programs using object-oriented class with parameters, constructors, utility, calculations, methods including inheritance, test classes and exception handling.

Course Name: CS-356 Theoretical Computer Science

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Describe the role of the finite automata.
CO2:	Understand types of Finite automata.
CO3:	Describe the role of the regular expression and it's real -life application in programming
CO4:	Discuss about the different types of language and their application.
CO5:	Understand the regular language, context free language, context sensitive language and unrestricted language.
CO6:	Understand the use of automata during language design.
CO7:	Understand the finite automata, pushdown automata and Turing machine.
CO8:	Identify and design Turing machine.

Course Name: CS-357 Practical Course based on CS 351

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Design and implement systems programs with minimal features to understand their complexity.
CO2:	Understand the concept of process scheduling with the help of simulation.
CO3:	Design and implement systems programs with minimal features to understand their complexity.
CO4:	Design and implement simulation of CPU scheduling algorithms.
CO5:	Gain knowledge on operating system concepts that includes process and thread scheduling.
CO6:	Learn the mechanism involved in memory management by operating system.
CO7:	Design and implement simulation of demand paging using memory page replacement algorithms.
CO8:	Learn programmatically to implement simple OS mechanism i.e. Shell Programming.

Course Name: CS-358 Practical Course based on CS 353 & CS 354

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand, analyze and apply the role of languages like HTML, DHTML, CSS, JavaScript and PHP.
CO2:	Understand to connect webpage with any database.
CO3:	Understand how to develop dynamic and interactive Web Page
CO4:	Create web pages using HTML and Cascading Style Sheets.
CO5:	Understand statistical, data pre-processing and visualization techniques on data sets
CO6:	Prepare data for use with a variety of statistical methods and recognize how the quality of the data may affect conclusions.
CO7:	Perform exploratory data analysis
CO8:	Design and develop dynamic and interactive Web pages

Course Name: CS-359 Practical Course based on CS 355

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Implement object-oriented programming concept using basic syntaxes of controls structures, strings and function for developing of logic.
CO2:	Implement classes, objects, members of a class and the relationships among them and find the solution to problem.

Sr.No.	Course Outcomes (COs) -A student will be able to
CO3:	Implement reusability using inheritance, interfaces and packages.
CO4:	Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.
CO5:	Read and make elementary modifications to Java programs that solve real-world problems.
CO6:	Understand and implement the use of different exception handling mechanisms and concept of multithreading for application development.
CO7:	Validate input in a Java program.
CO8:	Design GUI in Java using AWT along with events.

Course Name: CS-3510 Python Programming

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the basic concepts and terminology of python programming.
CO2:	Understand the basic constructs of programming such as data, operations, conditions, loops, functions etc.
CO3:	Develop logic for problem solving.
CO4:	Determine the methods to create and develop Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.
CO5:	Understand the basic concepts of array.
CO6:	Develop logic for file handling in python.
CO7:	To write python programs and develop a small application project.
CO8:	To test and execute python programs.

Course Name: CS-3511 Blockchain Technology

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the why and what of blockchain technology.
CO2:	Explore major components of blockchain.
CO3:	Explore the basic fundamentals of Blockchain Technology.
CO4:	Understand the concept of Blockchain programming
CO5:	Understand the working of blockchain.
CO6:	Understand the basic knowledge of Smart Contracts and how they function
CO7:	Understand blockchain programming using Python, Flask Web Framework, and HTTP client Pöstman.
CO8:	Learn about Bitcoin, Cryptocurrency and Ethereum.

TY BSc(CS) -SEM VI Course Name: CS-361 Operating System II

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Describe the role of operating system in their management policies and algorithms.
CO2:	Understand the issue of deadlocks in process management.
CO3:	Learn management of deadlocks and file system by operating system.
CO4:	Understand Scheduling storage or disk for processes.
CO5:	Describe distributed operating system and its architecture and the extended features in mobile OS
CO6:	Identify the need to create the special purpose operating system.
CO7:	Understand the structure of operating systems, applications, and the relationship between them.
CO8:	Study the concept of distributed and mobile operating systems

Course Name: CS-362 Software Testing

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand various software testing methods and strategies.
CO2:	Understand a variety of software metrics, can identify defects and managing those defects for

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Sr.No.	Course Outcomes (COs) -A student will be able to
	improvement in quality for given software.
CO3:	Define the types and level of testing.
CO4:	Learn test case plan for testing software.
CO5:	Design test cases and test plans, review reports of testing for qualitative software.
CO6:	Understand the agile testing.
CO7:	Understand latest testing methods used in the software industries.
CO8:	Difference between Traditional and Agile testing.

Course Name: CS-363 Web Technologies-II

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Learn different technologies used at client-Side Scripting Language.
CO2:	Learn XML,CSS and XML parsers.
CO3:	Learn One PHP framework for effective design of web application.
CO4:	Learn JavaScript to program the behavior of web pages.
CO5:	Learn AJAX to make our application more dynamic.
CO6:	Handle email with PHP and email structure.
CO7:	Design and develop dynamic website.
CO8:	Using MVC based framework easy to design and handling the errors in dynamic website.

Course Name: CS-364 Data Analytics

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Use appropriate models of analysis, assess the quality of input, and derive insight from results.
CO2:	Analyze data, choose relevant models and algorithms for respective applications.
CO3:	Understand the key technologies in data analytics.
CO4:	Study appropriate analytic techniques and tools.
CO5:	Deploy the Data Analytics Lifecycle to address data analytics projects.
CO6:	Understand different data mining techniques like classification, prediction, clustering and association rule mining.
CO7:	Apply modelling and data analysis techniques to the solution of real-world business problems.
CO8:	Understand the machine learning concepts.

Course Name: CS-365 Object Oriented Programming using Java – II

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Learn database programming using Java.
CO2:	Access open database through Java programs using Java Data Base Connectivity (JDBC) and develop the application
CO3:	Study web development concept using Servlet and JSP.
CO4:	Develop a game application using multithreading.
CO5:	Understand and create dynamic web pages, using Servlets and JSP.
CO6:	Understand socket programming concept
CO7:	Work with basics of framework to develop secure web applications.
CO8:	Develop the new web/standalone application.

Course Name: CS-366 Compiler Construction

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the process of scanning and parsing of source code.
CO2:	Understand tools like LEX and YACC.
CO3:	Define the phases of a typical compiler, including the front- and backend.
CO4:	Understand design issues of a lexical analyser and use of LEX tool.

Sr.No.	Course Outcomes (COs) -A student will be able to
CO5:	Identify tokens of a typical high-level programming language, regular expressions for tokens and design and implement a lexical analyser using a typical scanner generator.
CO6:	Design a compiler for a simple programming language.
CO7:	Understand the concepts of code generation and optimization techniques.
CO8:	Learn the conversion code written in source language to machine language.

Course Name: CS-367 Practical Course based on CS 361

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the Management of deadlocks by operating system.
CO2:	Design Banker's algorithm for Deadlocks in Process management.
CO3:	Simulation of Disk Scheduling algorithms.
CO4:	Implement disk space management and scheduling for processes.
CO5:	Simulation of File Allocation methods and free space management in storage.
CO6:	Study and implement various algorithms of disk scheduling.
CO7:	Understand the concepts of File System management.
CO8:	Understand the concepts of distributed OS and mobile OS.

Course Name: -368 Practical Course based on CS 363 & CS 364

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the Management of deadlocks by operating system.
CO2:	Understand the concepts of XML and XML parsers.
CO3:	Understand PHP framework for effective design of web application.
CO4:	Learn AJAX to make our application more dynamic.
CO5:	Learn the example of Sentiment analysis.
CO6:	Understand the concepts of Linear and Logistic regression.
CO7:	Design and develop dynamic website.
CO8:	Using MVC based framework easy to design and handling the errors in dynamic website.

Course Name: CS-369 Practical Course based on CS 365

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand the concept and connectivity with various database programming using Java.
CO2:	Understand the concept of multithreading.
CO3:	Design and develop application using database programming.
CO4:	Understand and create dynamic web pages using Servlets and JSP
CO5:	understand server-side servlets programming
CO6:	Understand the basic concept of JSP.
CO7:	Work with basics of framework to develop secure web applications.
CO8:	Understand the steps to develop Spring application.

Course Name: CS-3610 Software Testing Tools

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand various software testing methods and strategies.
CO2:	Understand how testing methods can be used as an effective tool in quality assurance of software.
CO3:	Understand a variety of software metrics and identify defects and managing those defects for improvement in quality for given software.
CO4:	Understand how to write defect report.
CO5:	Design test cases and test plans, review reports of testing for qualitative software.
CO6:	Explore the skills to design test case plan for testing software.

Sr.No.	Course Outcomes (COs) -A student will be able to
CO7:	Understand latest testing tools used in the software industries.
CO8:	Understand the Automation Testing tools.

Course Name: CS-3611 Project

Sr.No.	Course Outcomes (COs) -A student will be able to
CO1:	Understand programming language concepts, particularly C, Java or HTMP ,CSS and PHP along with object-oriented concepts as well as software engineering principles.
CO2:	Plan, analyze, design a software project.
CO3:	Learn the software development cycle.
CO4:	Learn about different software development process models and how to choose an appropriate one for a project.
CO5:	Design, and implement a working, medium sized project.
CO6:	Prepare SRS document, design document, test cases.
CO7:	Implement a software project using programming languages like Java, python and PHP.
CO8:	Apply advanced programming techniques.

HOD
(Dr. R.B.Mhoparkar)

IQAC Head
(Dr. M.S.Rhutane)

Principal
(Dr. A.A.Chandgude)

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Sr.No.	Program Outcomes (POs)
PO1:	Recognize and utilize business and entrepreneurial opportunities.
PO2:	Demonstrate analytical business thinking in major areas of business and a potential to take decisions with holistic perspective.
PO3:	Show higher level of business acumen.
PO4:	Evaluate correct techniques and tools for complex business problems and activities.
PO5:	Produce solutions to social problems and ethical dilemmas.
PO6:	Design and develop conceptual knowledge by using research tools (case studies, observations, surveys etc.) for effective performance and understand the need for self-motivation to engage in lifelong learning.

Sr.No.	Program Specific Outcomes (PSOs)
PSO1:	Understand thoroughly banking operations practices and mechanism.
PSO2:	Paraphrase core concepts in banking and economics.
PSO3:	Analyze the business problems and apply various costing tools and techniques.

FY BCOM- SEM-I Course Name: 111- Compulsory English – I

Sr.No.	Course Outcomes (COs)
CO1:	Understand the basics of English literature.
CO2:	Identify different major genres of literature.
CO3:	Recall the story and themes of the studied literary pieces.
CO4:	Use suitable dialogues in various situations.
CO5:	Classify expressions used in formal and informal situations.
CO6:	Recall the dos and don'ts of group discussion and interview.
CO7:	Explain essential factors in building effective communication.
CO8:	Communicate effectively in real life situations using verbal and non-verbal means of communication.

Course Name: 112- Financial Accounting -I

Sr.No.	Course Outcomes (COs)
CO1:	Understand various accounting concepts and principles.
CO2:	Interpret various accounting effects of transactions.
CO3:	Explain different types of accounting as per new trend.
CO4:	Finalize and demonstrate the process of dissolution of partnership.
CO5:	Compare various methods of piecemeal distribution of cash.
CO6:	Differentiate between single entry and double entry system.
CO7:	Develop the concept of GST framework.
CO8:	Get in-depth knowledge of types of taxes in modern day business world.

Course Name: 113-Business Economics (Micro)-I

Sr.No.	Course Outcomes (COs)
CO1:	Define Business economics.
CO2:	Distinguish between Micro Economics and Macro Economics.
CO3:	Paraphrase the economic and non economic goals of a firm.
CO4:	Interpret cost curves.
CO5:	Illustrate the relationship between total cost, average cost and marginal cost.
CO6:	Discuss revenue concept.
CO7:	Explain different market conditions.
CO8:	Interpret theories of factor pricing.

Course Name: 115(B) Fundamentals of Banking-I

Sr.No.	Course Outcomes (COs)
CO1:	Understand the fundamentals of banking.
CO2:	Familiarize with banking concepts and operations.
CO3:	Describe of banking business and practices.
CO4:	Explain banking operations.
CO5:	Identify the new concepts introduced in the banking system.
CO6:	Describe the method of remittances and its uses.
CO7:	Distinguish the different negotiable instruments.
CO8:	Exhibit the technological advancement in banking industry.

FY BCOM- SEM-II Course Name: 121- Compulsory English – II

Sr.No.	Course Outcomes (COs)
CO1:	Understand the basics of English literature
CO2:	Identify different major genres of literature.
CO3:	Recall the story and themes of the studied literary pieces.
CO4:	Understand the importance of English language and its role in the professional life.
CO5:	Classify oral and written communication.
CO6:	Draft letters, reports and blogs in English
CO7:	Recall various means of non-verbal communication.
CO8:	Create their own profile effectively.

Course Name: 122- Financial Accounting-II

Sr.No.	Course Outcomes (COs)
CO1:	Understand various accounting software packages used in accounting.
CO2:	Acquired knowledge about GST application and utility of the software.
CO3:	Solve the problems regarding financial statements of non-profit organization.
CO4:	Implement and interpret the accounting process of charitable trust.
CO5:	Distinguish between tangible and intangible assets.
CO6:	Examine the valuation methods of goodwill and brands.
CO7:	Get in-depth knowledge of types of leases.
CO8:	Write the books of accounts proficiently.

Course Name: (123) Business Economics (Micro) - II

Sr.No.	Course Outcomes (COs)
CO1:	Define Revenue.
CO2:	Distinguish between Perfect market conditions and imperfect market conditions.
CO3:	ExplainEquilibrium of Firm and Industry in Short Run and Long Run.
CO4:	Interpret cost curves.
CO5:	Illustrate the relationship between total cost, average cost and marginal cost.
CO6:	Discuss revenue concept.
CO7:	Explain different market conditions.
CO8:	Interpret theories of factor pricing.

Course Name: 125(B)Fundamentals of Banking –II

Sr.No.	Course Outcomes (COs)
CO1:	Understand the lending principles.
CO2:	Classify the Negotiable Instrument.
CO3:	Acquaint and understand the concept of endorsement.
CO4:	Comprehend various types of technology in banking.
CO5:	Interpret the Balance Sheet of Bank.

Sr.No.	Course Outcomes (COs)
CO6:	Exhibit the customer assessment through CIBIL and other similar agencies.
CO7:	Identify the role of Special, Restrictive, Partial, Conditional, Sans Recourse Endorsement.
CO8:	Understand the concept of Mobile Banking Applications.

Course Name: MT-121-Business Mathematics and Statistics – II

Sr.No.	Course Outcomes (COs)
CO1:	Understand the determinant of order 2 and 3.
CO2:	Find the determinant.
CO3:	Describe adjoint method of finding inverse of matrix.
CO4:	Solve system of linear equations.
CO5:	Understand the meaning of Linear Programming Problem.
CO6:	Do mathematical formulation of LPP
CO7:	Solve LPP by using graphical method.
CO8:	Understand the correlation and regression
CO9:	Solve problems of correlation and regression
CO10:	Understand the index numbers

Course Name: MT-121- Computer Concepts and applications

Sr.No.	Course Outcomes (COs)
CO1:	To make students familiar with computer environment & operating systems
CO2:	To introduce students with accounting packages like tally.
CO3:	To develop skill and knowledge among students in applications of internet in education of commerce.

SY BCOM- SEM-III Course Name: 231-Business Communication-I

Sr.No.	Course Outcomes (COs)
CO1:	Recall the concept, process and importance of communication.
CO2:	List the methods and channels used in business communication.
CO3:	Explain the fundamentals of soft-skills required for effective business communication.
CO4:	Classify different forms of formal written business communication.
CO5:	Adapt skills of effective business communication.
CO6:	Explain barriers to effective business communication.
CO7:	Apply effective communication skills in business communication.
CO8:	Compare now new trends in business communication.

Course Name: 232- Corporate Accounting-I

Sr.No.	Course Outcomes (COs)
CO1:	Acquaint with knowledge about various concepts, objectives and applicability of some important accounting standards associated with to corporate accounting.
CO2:	Develop understanding among the students on the difference between commencement and incorporation of a company and the accounting treatment for transactions during the two phases.
CO3:	Update with knowledge for preparation of final accounts of a company as per Schedule III of the Companies Act 2013.
CO4:	Empower with skills to interpret the financial statements in simple and summarized manner for effective decision-making process
CO5:	Understand accounting of incomes and expenses during Pre- and Post-Incorporation period.
CO6:	Develop understanding Concept of Valuation, Need for Valuation, Special Factors affecting Valuation of Shares.
CO7:	Update knowledge about the latest software use in accounting.
CO8:	Empower with skills & Understanding of Goods & Service Tax.

Course Name: 233- Business Economics (MACRO) -I

Sr.No.	Course Outcomes (COs)
CO1:	Define Macro-Economics.
CO2:	Distinguish between Micro Economics and Macro Economics.
CO3:	Discuss national income.
CO4:	Explain different functions of money.
CO5:	Interpret the concept of value of money.
CO6:	Distinguish theories of income and employment.
CO7:	Interpret the importance of taxation policy.
CO8:	Explain the role of monetary and fiscal policies in the economy.

Course Name: 234 – Business Management – I

Sr.No.	Course Outcomes (COs)
CO1:	Comprehend the meaning and functions of management.
CO2:	Recall the role of various management thinkers.
CO3:	Explain the meaning and process of planning.
CO4:	Classify various management functions.
CO5:	Define the term forecasting and understand its application in personal and professional life.
CO6:	Classify authority, responsibility and accountability.
CO7:	List the methods of recruitment.
CO8:	Relate various management concepts studied and implement the knowledge in real life situations.

Course Name: 235- Elements of Company Law -I

Sr.No.	Course Outcomes (COs)
CO1:	Enumerate the introduction to the New Companies Act 2013 & Concept of Companies.
CO2:	Comprehend and demonstrate the formation and Incorporation of a Company
CO3:	Construct and draft the documents relating to Incorporation and Raising of Capital.
CO4:	Perceive Various Modes for Raising of Share Capital.
CO5:	Explain the Rules of Allotment of Shares
CO6:	Describe the advantage of Share Capital.
CO7:	Recognize the role of MOA and AOA.
CO8:	Distinguish between different types of shares.

Course Name: 236B- Banking and Finance Special Paper-I

Sr.No.	Course Outcomes (COs)
CO1:	Explain the Concepts and Significant Role of Banking Industry in Indian Economy.
CO2:	Understand History & Evolution of Indian Banking.
CO3:	Describe banking concepts and operations of various types of Banks Account.
CO4:	Imparts the knowledge about Self Help Group.
CO5:	Describe the Banking Services of commercial bank.
CO6:	Study the Various Functions of Banking Institutions.
CO7:	Understand Co-operative banking in India.
CO8:	Comprehend the Cooperative Credit System.

Course Name: 236- e-Cost and Works Accounting Paper-I

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concept of cost, costing and cost accounting.
CO2:	Study application of Cost and works accounting and understand cost accounting standards.
CO3:	Prepare a cost sheet, tender and quotation.
CO4:	Evaluate the concept of cost centers and cost unit.

Sr.No.	Course Outcomes (COs)
CO5:	Memorize and understand the purchase procedure and its documentation.
CO6:	Explain different methods of inventory control.
CO7:	Construct the concept of economic order quantity.
CO8:	Develop in-depth knowledge about the inventory control system

SY BCOM- SEM-IV Course Name: 241-Business Communication-II

Sr.No.	Course Outcomes (COs)
CO1:	Recall the concept, process and importance of communication.
CO2:	Explain various media of communication
CO3:	Explain the fundamentals fundamental knowledge about types of Business Letters
CO4:	Classify different forms of formal written business communication.
CO5:	Adapt skills of effective business communication.
CO6:	Acquire and develop written communication skills requisite for business correspondence.
CO7:	Apply effective communication skills in business communication.
CO8:	Compare new trends in business communication.

Course Name: 242- Corporate Accounting-II

Sr.No.	Course Outcomes (COs)
CO1:	Gain knowledge of corporate policies of investment for expansion and growth through purchase of stake in or absorption of smaller units.
CO2:	Develop the knowledge about consolidation of financial statement with the process of holding.
CO3:	Update with knowledge of the process of liquidation of a company.
CO4:	Define various software used in accounting.
CO5:	Do the Forensic Accounting of business.
CO6:	Paraphrase the process of internal reconstruction.
CO7:	Understand the recent trends in the field of accountancy.
CO8:	Get in-depth knowledge of accounting in modern day business world.

Course Name: (243) Business Economics (Macro) - II

Sr.No.	Course Outcomes (COs)
CO1:	Define Value of Money.
CO2:	Distinguish between Classical approach and Keynesian approach.
CO3:	Paraphrase the functions of money.
CO4:	Interpret business trade cycle.
CO5:	Elaborate types of taxes.
CO6:	Discuss stagflation concept.
CO7:	Explain causes of inflation.
CO8:	Interpret Quantity theory of money.

Course Name: 244 – Business Management – II

Sr.No.	Course Outcomes (COs)
CO1:	Understand the meaning of motivation and its importance.
CO2:	Recall various motivations theories propagated my management scholars.
CO3:	List various leadership styles.
CO4:	Recall the Contribution of Mahatma Gandhi, Dr. Babasaheb Ambedkar and Pt. Jawaharlal Nehru in leadership.
CO5:	Comprehend various skills to establish coordination between departments.
CO6:	Understand the theories of management scholars and their views on various organizational matters.
CO7:	List various emerging trends in management and recall the meaning.

Sr.No.	Course Outcomes (COs)
CO8:	Relate various management concepts studied and implement the knowledge in real life situations.

Course Name: 245- Elements of Company Law -II

Sr.No.	Course Outcomes (COs)
CO1:	Understand the management of a company.
CO2:	Recognize Key Managerial Personnel.
CO3:	Classify the types of Directors.
CO4:	Understand E Governance and E Filling.
CO5:	Interpret the legal importance of arranging types of Meeting.
CO6:	Build him/her self and become good human resource of the corporate sector.
CO7:	Identify the technical attributes in winding-up of a company.
CO8:	Understand the concept of agenda, notice, quorum, proxies.

Course Name: 246B- Banking & Finance Special Paper-II

Sr.No.	Course Outcomes (COs)
CO1:	Explain the fundamentals of Co-operative Banking in India.
CO2:	Describe operations of Co-operative Banking.
CO3:	Recognize the role of Development Banks in economic development.
CO4:	Understand challenges before the Development Banking in India.
CO5:	Understand important concepts of banking like Central Banking, Commercial Banking and Branch Banking.
CO6:	Comprehend Retail banking, Islamic Banking, Digital Banking System.
CO7:	Learn framework of Basel Committees on Banking Supervision.
CO8:	Appraise the Banking Sector Reforms.
CO9:	CO9- Recommendations of M. Narsimhan Committee- I (1991) and II (1998).

Course Name: 246-e.Costs and Works Accounting-II

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concept of material accounting.
CO2:	Define the concept of material control
CO3:	Describe the methods of store accounting with the help of computerized software.
CO4:	Solve the problems on wages and incentives.
CO5:	Understand the various component of payrolls.
CO6:	Understand the recent trend in labor- job evaluation, job analysis, merit rating and negotiations
CO7:	Understand the recent trend in labor- job evaluation, job analysis, merit rating and negotiations
CO8:	Construct the concept of direct cost
CO9:	Formulate the detail knowledge about recent trends in cost and management accounting.

TY BCOM SEM V Course Name: 351-Business Regulatory Framework

Sr.No.	Course Outcomes (COs)
CO1:	Enumerate conceptual knowledge about the framework of business Law in India.
CO2:	Understand the legal aspect of business.
CO3:	Explain legal environment relating to various laws from syllabus.
CO4:	Interpret emerging issues relating to e-commerce, e-transaction issues and E Contracts.
CO5:	Understand career opportunity in corporate sector relating to business law in India
CO6:	Describe the basic concepts, terms and provisions of Mercantile and Business Laws.
CO7:	Demonstrate practical learning related to Sale of Goods.
CO8:	Evaluate the provisions of Arbitration and Conciliation.

Course Name: 352- Advanced Accounting I

Sr.No.	Course Outcomes (COs)
CO1:	Understand about various concepts, objectives, and applicability of some important accounting standards.
CO2:	Reorganize business regarding restructuring the capital.
CO3:	Finalize the books of banking final accounts as per banking regulation act 1949.
CO4:	Finalize the books of investment accounting.
CO5:	Define various software used in accounting.
CO6:	Prepare profit/loss on disposal of investments.

Course Name: (353-A) Indian And Global Economics Development

Sr.No.	Course Outcomes (COs)
CO1:	To enable students to understand students to a new approach to the study of the Indian Economy.
CO2:	To help the students in analyzing the present status of the Indian Economy.
CO3:	To rendering the process of integration of the Indian Economy with other economics of the world.
CO4:	To notify students with the emerging issues in policies of India"s foreign trade.

Course Name: 354- Auditing

Sr.No.	Course Outcomes (COs)
CO1:	Remember the concept and principles of auditing, audit process, assurance standards, tax audit, and audit of computerized systems.
CO2:	Understand test checking-vouching of cash book-verification and valuation of assets and liabilities.
CO3:	Apply theoretical knowledge into an EDP environment through computerized system.
CO4:	Compare errors and frauds to improve internal control system in business organization.
CO5:	Understand provisions for Work as Company Auditor as per Companies Act 2013.
CO6:	Simplify the concept of Forensic Audit used for new business.

Course Name: 355 – b Banking & Finance Special Paper II (Financial Markets and Institutions in India)

Sr.No.	Course Outcomes (COs)
CO1:	Define the concept of financial markets and its various segments.
CO2:	Understand the operations and developments in financial markets in India.
CO3:	Explain the functioning and role of financial institutions in the Indian Economy
CO4:	Illustrate the meaning, functions, credit instruments, deficiencies and recent development in Money Market in India.
CO5:	Simplify working and functions of Capital Market in India Organization.
CO6:	Evaluate recent development in Foreign Exchange Market.

Course Name: 355 – e. Cost and Works Accounting. Special Paper II

Sr.No.	Course Outcomes (COs)
CO1:	Understand the concepts and principles application of overheads.
CO2:	Interpret various methods of costing and their applications.
CO3:	Solve the problems on accounting of overheads.
CO4:	Analyze departmental overheads after implementing Primary and Secondary distribution.
CO5:	Simplify the concept of overheads as per various activities.
CO6:	Illustrate cost pools and cost drivers

Course Name: 356 – b Banking and Finance-Special Paper III

Sr.No.	Course Outcomes (COs)
CO1:	Interpret banking laws and practice in correlation to the banking system in India.

Sr.No.	Course Outcomes (COs)
CO2:	Enumerate legal aspects of banking transactions and its implication as a banker and as a customer.
CO3:	Familiarize the students with the banking laws and practices in India.
CO4:	Demonstrate the legal and practical aspects of banking to help them technically sound in banking parlance.
CO5:	Define the powers of reserve bank of India.
CO6:	Enumerate the Negotiable Instruments Act, 1881.
CO7:	Evaluate the insolvency and bankruptcy code.
CO8:	Understand the recent trends in the field of banking and finance.

Course Name: 356 – e. Cost and Works Accounting. Special Paper III

Sr.No.	Course Outcomes (COs)
CO1:	Define the concept of marginal costing.
CO2:	Describe Cost-Profit-Volume Analysis.
CO3:	Explain uniform costing and inter-firm comparison.
CO4:	Apply theoretical knowledge into management information system in costing.
CO5:	Solve problems on budget and types of budget.
CO6:	Compare standard costing and farm costing.
CO7:	Relate ethical and non-financial considerations relevant to decision making.

HOD
(Dr. M.S.Rhutane)

IQAC Head
(Dr. M.S.Rhutane)

Principal
(Dr. A.A.Chandgude)

College of Commerce Science and Computer Education ★ Malegaon Bk., Tal-Baramati (Pune)