



**JOGESHWARI EDUCATION SOCIETY'S
COLLEGE OF COMMERCE SCIENCE & INFORMATION TECHNOLOGY**

(AFFILIATED TO UNIVERSITY OF MUMBAI)

JES Education Complex, Caves Road, Arvind Gandbhir Campus, Jogeshwari (East), Mumbai - 400 060.

Tel : 022 2824 5527 / 83568 67783 | Email : jescollegecom@gmail.com | Web : jescollege.edu.in

B.Com **(Bachelor of Commerce)**

**PROGRAMME SPECIFIC
OUTCOME**

AND

PROGRAMME OUTCOME



Bachelor of Commerce

Programme Specific Outcome	
PSO 1	Learners will be able to cater to the human resource needs of companies in accounting and auditing, tax laws, financial analysis and costing
PSO 2	Will get entrepreneurship and managerial skills to establish and manage businesses effectively
PSO 3	To impart the learners with exhaustive and in depth knowledge of financial system and investment decisions
PSO 4	To enrich the learners with good communication, numerical ability, team work, leadership skills and ethical values

Programme Outcome	
PO 1	Learners will gain knowledge in the fundamentals of commerce correlating all the course undertaken
PO 2	Learners will be equipped to join the industry or setup own entities, and pursue professional courses for improvement
PO 3	Learners will be equipped to face challenges in the industry and business specialisation, furnish them practical knowledge
PO 4	Learners be responsible citizens as various academic and co-curricular courses, imbibe sensitivity, moral and ethical values in them



Principal
PRINCIPAL

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BAF

(Bachelor of Commerce) (Accounting & Finance)

PROGRAMME SPECIFIC OUTCOME

AND

PROGRAMME OUTCOME

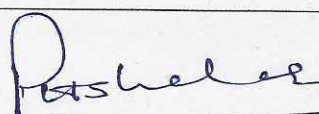


Bachelor of Commerce (Accounting & Finance)

Programme Specific Outcome	
PSO 1	The course supports Learners to gain knowledge in the field of accounting, taxation, auditing, risk management, financial accounting, managerial economics, and business law and business communications
PSO 2	Develops communication skills and build confidence to face the challenges of the corporate world
PSO 3	Design and construct an innovative business model and develop entrepreneurship skills
PSO 4	Analyze independently and critically concepts in relation to Commerce, Accounting, Economics and all the courses undertaken

Programme Outcome	
PO 1	Learners will gain knowledge in the fundamentals of commerce correlating all the course undertaken
PO 2	Learners will be equipped to join the industry or setup own entities, and pursue professional courses for improvement
PO 3	Learners will be equipped to face challenges in the industry and business specialisation, furnish them practical knowledge
PO 4	Learners be responsible citizens as various academic and co-curricular courses, imbibe sensitivity, moral and ethical values in them




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BMS
**(Bachelor of Management
Studies)**

**PROGRAMME SPECIFIC
OUTCOME**
AND
PROGRAMME OUTCOME



Bachelor of Management Studies

Programme Specific Outcome	
PSO 1	Acquire knowledge about management practices to become effective professionals
PSO 2	Capable to pursue higher studies in diverse fields of management such as Media studies, Business administration, Marketing and Financial management
PSO 3	Attain skills to be entrepreneurs and communicate effectively
PSO 4	Acquire required skills to develop business models and be responsible global citizens with cross cultural competent behaviour with ethical values

Programme Outcome	
PO 1	Learner will develop a foundation and understanding of managerial principles and practices
PO 2	Learner will acquire practical knowledge, training in professional skills and ethics to build competencies in the area of management studies
PO 3	Learner will develop their personalities along with commercial, communication, research analytical, financial, marketing and managerial skills required for workplaces and higher studies
PO 4	Learner will be trained in leadership skills and demonstrate social responsibilities with sensitivity towards environment and sustainability and be exposed to newer avenues in a variety of sectors



P. K. Shinde
PRINCIPAL

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BScIT
(Bachelor of Science)
(Information Technology)

**PROGRAMME SPECIFIC
OUTCOME**

AND

PROGRAMME OUTCOME

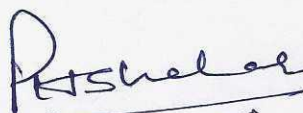


Bachelor of Science (Information Technology)

Programme Specific Outcome	
PSO 1	Expand understanding of the current industry support for various technologies
PSO 2	Configure recent software tools, apply test conditions, and deploy and manage them on computer system
PSO 3	Analyse the importance of the web as a medium of communication
PSO 4	Design and expand software projects given their specifications and within performance and cost constraints

Programme Outcome	
PO 1	Demonstrate proficiency in the subject of their choice through programming language, algorithms and hardware tool
PO 2	Continue higher studies in their subject in India as well as abroad
PO 3	Be eligible to apply for jobs with a minimum requirement of B. Sc. Programme
PO 4	Be eligible to appear for the examination for their job in the government Organisation




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COURSE OUTCOMES



**Jogeshwari Education Society's College of Commerce Science and
Information Technology**

Bachelor of Commerce

Semester	Subject	Course Outcomes	
Semester 1	Accountancy and Financial Management I	CO 1	Classify and maintain Stock Ledger by applying different methods of Stock Valuation
		CO 2	Differentiate methods of Departmental Accounts
		CO 3	Prepare Final A/c of Manufacturing Concerns
		CO 4	understand the concept of Hire Purchase and preparing Final Statement of accounts with Journal Entries
	Business Communication – I	CO 1	Summarizing theory of communication
		CO 2	Understanding obstacles to Communication in Business World
		CO 3	Evaluating business correspondence, theory of business letter writing, personnel correspondence
		CO 4	Ability to analyses language and writing skills
	Mathematical & Statistical Technique – I	CO 1	Implement basic knowledge about shares and mutual funds
		CO 2	Build an understanding of fundamental concept of Permutation, Combination and LPP
		CO 3	Calculate the various measures of central tendency and dispersion
		CO 4	Build an understanding of fundamental concept of probability theory
		CO 5	Build an understanding of decision theory
	Commerce – I	CO 1	Understand and select new trends in business
		CO 2	Relate and organize constituents of Business Environment
		CO 3	Design and construct project planning of Business Environment
		CO 4	Develop Entrepreneurship
	Environmental Studies I	CO 1	Develop sensitive attitude towards environment
		CO 2	Develop the skills for identifying and solving environmental problems
		CO 3	Various systems ,concepts and methodologies to analyse and apply environmental processes
CO 4		Participate to improve and protect environment	
CO 5		Read and interpret the maps	
		CO 1	Understand the multi-cultural diversity of Indian society through its demographic



	Foundation Course – I		composition, regional variations and linguistic diversity
		CO 2	Understand the concept of disparity arising out of social stratification and inequalities
		CO 3	Examine inequalities manifested due to the caste system and inter-group conflicts. To examine the causes and effects of conflicts arising out of regionalism and linguistic Differences
		CO 4	Understand the philosophy of the Indian Constitution, its basic features, structure of the Pre-ambble, Main body and schedules. To classify the fundamental duties of an Indian citizen
		CO 5	Understand the party system in Indian politics. To illustrate the role and significance of women in politics
	Business Economics – I	CO 1	Understand the scope and importance of Business Economics
		CO 2	Describe demand function and recognize elasticity of the product
		CO 3	Understand different methods of demand estimation and forecasting
		CO 4	Discuss supply and production decisions along with cost concepts
	Accountancy and Financial Management II	CO 1	Identify incomplete records and prepare Financial Statements from incomplete records
		CO 2	Operate different methods of branches and accounting procedures
		CO 3	Examine different parties of Consignment and prepare accounts in the books given
		CO 4	Identify types of Insurance and apply a suitable Method
	Business Communication – II	CO 1	Understand and develop presentation skills
		CO 2	Demonstrating and understanding group communication
		CO 3	Analyses business correspondence and trade letters
		CO 4	Evaluate language and writing skills
	Mathematical & Statistical Technique – II	CO 1	Connect different types of functions and solve basic derivative problems
		CO 2	Acquire the concept of simple, compound interest and annuity
		CO 3	Evaluate the basic of correlation and regression analysis
		CO 4	Estimate Time Series and Index Numbers



Semester 2		CO 5	Understand Elementary Probability Distribution
	Commerce – II	CO 1	Develop Marketing Mix and Services
		CO 2	Differentiate and compare challenges in the market
		CO 3	Execute and implement IT in Banking and Insurance Sector
		CO 4	Construct and assemble E-Commerce
	Environmental Studies II	CO 1	Comprehend sustainable solutions to environmental problems
		CO 2	Use effective skills to improve the quality of environment
		CO 3	Adopt environment friendly lifestyle
		CO 4	Execute better environment at home, workplace and surroundings
		CO 5	Read and interpret the maps
	Foundation Course – II	CO 1	Understand and classify Globalization in relation to Indian Society
		CO 2	Implement Human Rights
		CO 3	Connect quality of human life with nature capital
		CO 4	Identify and appraise Ethics in individuals
		CO 5	Manage and overcome stress and conflict in life and surroundings
	Business Economics – II	CO 1	Understand different market structures
		CO 2	Differentiate pricing and output decisions
		CO 3	Understand different pricing methods and their discrimination
		CO 4	Solve problems of capital budgeting and investment decisions
	Accountancy and Financial Management III	CO 1	Identify partnership firm procedures of admission, retirement & demise
CO 2		Examine the dissolution process and implement funds allocation properly according to their contribution	
CO 3		Prepare procedures of merging two organisations and compare ideas	
CO 4		Understand conversion of partnership firm into public Ltd company	
Advertising		CO 1	Understand the concept, role of IMC & the evolution of advertising
		CO 2	Evaluate various aspects related to advertising its agencies, careers prospects
		CO 3	Assess the economic and social aspects of advertising



Semester 3		CO 4	Learn brand building and special purpose in advertising
	Business Law III	CO 1	Understand the basic Concepts of Indian Contract Act
		CO 2	Apply Contractual Methods in Future Agreements
		CO 3	Evaluate basic concepts of specific contracts
		CO 4	Analyse the concepts of Sale of goods act and Negotiable Instrument Act
	Commerce – III	CO 1	Attain managerial skills and Modern Management Approach
		CO 2	Execute and demonstrate Coordination, Planning and decision making
		CO 3	Select and classify Formal and Informal organisation and Barriers to Delegation
		CO 4	Develop Leadership and Controlling Quality
	Introduction to Management Accounting	CO 1	Illustrate the Vertical format of financial statements, tools of financial analysis such as Trend Analysis, Comparative Analysis and Common Size Statement
		CO 2	Calculate various ratios and discuss the significance and use of those ratios
		CO 3	Prepare cash flow statements using Indirect method
		CO 4	Calculate the estimated working capital requirement of the entity
	Foundation Course – III	CO 1	Understand Human Rights and its value
		CO 2	Gain clarity on Disaster Management measures
		CO 3	Relate evolution of Science since Ancient times till recent time
		CO 4	Communicate effectively to build up their careers
	Business Economics – I	CO 1	Attain knowledge of basic macroeconomic concepts such as national income circular flow of income ups and downs in the economy
		CO 2	To understand macroeconomic functions in the economy such as effective demand consumption, investment, employment and efficiency of capital
		CO 3	Understand relationship between inflation and unemployment, integration of goods and money market and supply side economics
CO 4		Understand supply of money, demand for money and the difference between money and price and in detail inflation	
		CO 1	Understand the procedure of fire insurance



Semester 4	Accountancy and Financial Management IV		claim
		CO 2	Examine the procedure of preference share and uses of reserve & surplus
		CO 3	Solve new issue, conversion & redemption process of debenture.
		CO 4	Classify purchase & sales order, delivery notes, service in voice in accounting software
	Advertising IV	CO 1	Identify various media emphasizing on new age media options
		CO 2	Analyse the process of media planning, advertising campaign and advertising budget
		CO 3	Identify the fundamentals of creativity in advertising and the concept of creativity through endorsements
		CO 4	Evaluate the techniques of execution & evaluation of advertising and related terms
	Business Law IV	CO 1	Analyse the provisions of Partnership Act ,, types of partners and their rights in India
		CO 2	Evaluate critically the merits of LLP and its discrimination from partnership firm and company
		CO 3	Evaluate Critically the advantages and disadvantages of Formation of Company
		CO 4	Describe the concepts of Consumer Protection and Intellectual Property Rights in India
	Commerce – IV	CO 1	Comprehend various promotion systems & list the inventory management system
		CO 2	Understand the structure of Indian securities markets & their impact on economy
		CO 3	Compare various investment avenues available in India with other nation
		CO 4	Analyse recent trends in the world of finance
	Auditing	CO 1	Understand the basic terms and concepts related to auditing
		CO 2	Understand the objectives and importance of audit planning, preparation of an audit program and audit working papers
		CO 3	Evaluate the various concepts related to auditing techniques like audit sampling, test check, materiality and internal audit
		CO 4	Evaluate the auditing technique of vouching of various transactions in relation to incomes, expenses etc. and auditing technique of verification regarding balance sheet items
	CO 1	Understand consumer rights in public interest	
	CO 2	Classify Environmental Principles and Ecology	



	Foundation Course – IV	CO 3	Implement modern technologies and IT application too	
		CO 4	Prepare and be successful in competitive exam	
	Business Economics – IV	CO 1	Economic and political aspects involved in the economy in terms of public finance	
		CO 2	Direct taxes, indirect taxes, their impact on incidence and effects of taxation in the economy	
		CO 3	Knowledge on how government spends on different social insurance schemes, public expenditures and its methods of integral and external borrowing	
		CO 4	The role of government in intergovernmental physical relations, Central and State government financial relations and management of budget	
	Semester 5	Financial Accounting and Auditing Paper VII Financial Accounting	CO 1	Demonstrate different types of Investment and its accounting procedure
			CO 2	Demonstrate the fundamentals of accounting for Buy-Back of shares under different situation
CO 3			Solve the Final accounting problems as per Companies Act	
CO 4			Evaluate accounting for Internal Reconstruction of Company	
CO 5			Recognise the ethical behaviour of accountant	
Financial Accounting & Auditing Paper VIII Cost Accounting		CO 1	Understand objectives and scope of Cost Accounting	
		CO 2	Prepare stock ledger and understand various aspects of inventory control	
		CO 3	Prepare labour cost statement, remuneration and incentive systems	
		CO 4	Account for overheads apportionment, absorption and computation of overhead rates	
		CO 5	Classify costs and prepare cost sheet. • Students should be able to reconcile cost and financial statements	
Commerce V		CO 1	Understand the emerging trends in sales management	
		CO 2	Identify unethical practices and apply suitable strategies to overcome them	
		CO 3	As marketing manager face challenges and find suitable solutions to resolve them	
	CO 4	Analyse & use pricing strategies to enhance marketing of products and services		
		CO 1	Learners are aware about role of health and	



	Business Economics V		education in economic development and policy measure to achieve sustainable development goals in India
		CO 2	Students can understand importance of agriculture in India, as well as the problems and policy measures of agriculture sector
		CO 3	Learners can introduce with role of industrial and service sector, and challenges and opportunities in these sector
		CO 4	Students can acquaint the knowledge of recent trends, issues and challenges in banking and financial sector
	Direct Indirect Tax	CO 1	Prepare tax computation statement
		CO 2	Practically how to fill up his/her Income Tax Returns
		CO 3	Compare various schemes of investment to select the best
		CO 4	Design different tax saving schemes to reduce the tax liability
	Export Marketing	CO 1	Provide basic conceptual and applicative knowledge about exports and imports. To edify the factors influencing export marketing and the problems of India's Export Sector
		CO 2	Study trade barriers and regional economic groups and analyse the need for overseas market research. To understand the factors affecting the foreign market selection and learn the process of selecting an overseas market
		CO 3	Understand the role of DGFT in export marketing and the various benefits extended to exporters in the form of different schemes.
		CO 4	Learn the eligibility for availing the financial incentives and institutional assistance extended to the Indian Exporters
	Computer System and Application I	CO 1	Understand fundamental concepts of data communication, networking, and significance of internet in today's digital age
		CO 2	Use of database and MY SQL effectively
		CO 3	Practical use of MS Excel at work place
	Financial Accounting and Auditing IX Financial	CO 1	Account for transactions in Foreign Currency
CO 2		Account for External Restructuring of a Corporate entity	
CO 3		Understand the procedure of Liquidation of Companies & preparation of Liquidator Final Statement	
CO 4		Operate the statement of Liability of	



Semester 6	Accounting		underwriters with given condition	
		CO 5	Differentiate amongst Public Co., Private Co., & Limited Liability Partnership and prepare Financial Statements of a Limited Liability Partnership	
	Financial Accounting & Auditing X -Cost Accounting	CO 1		Differentiate between integrated and non-integrated systems of accounting, nominal ledger and other control accounts and prepare Cost Control Accounts
		CO 2		Prepare contract account and understand various aspects of contract including treatment of profit on incomplete contracts
		CO 3		Prepare process accounts and statement of joint products and by-products
		CO 4		Prepare statement of marginal costs and calculate various aspects of Marginal Costing
		CO 5		Calculate Material and Labor variances
		CO 6		Understand emerging concepts in Cost Accounting and its implications on industry
	Commerce VI	CO 1		Understand the concept of Human Resource Management
		CO 2		Analyse sources and applications of recruitment
		CO 3		Classify competencies and understand HRIS for deployment of manpower
		CO 4		Analyse & face the emerging challenges of HRM
	Business Economics VI	CO 1		The students understand the different theories of international trade
		CO 2		Learners are aware about commercial trade policy, tariff and non-tariff barriers and international economic integration
		CO 3		Learners grasp the knowledge about Balance of Payments and international economic organization
		CO 4		Learners can acquaint knowledge about foreign exchange market
	Direct Indirect Tax	CO 1		Understand the various terms related to Goods and Service tax (GST)
		CO 2		Differentiate the difference between composite and mixed supply & Formulate time, place and value of supply
		CO 3		Compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit
		CO 4		Analyse the need to obtain registration under



			GST law
	Export Marketing	CO 1	Understand the process of planning for export marketing with regards to product, branding and packaging. To help students learn INCO terms, the need for labeling and marking in Exports and factors determine export price
		CO 2	Learn the components of logistics, sales promotion techniques used in export marketing and to understand the benefits of personal selling and advertising in export marketing
		CO 3	Analyse the various methods of payments used in export marketing. To learn the procedure to obtain export finance. To understand the role of commercial banks, EXIM bank, SIDBI in financing exporters and ECGC
		CO 4	Learn the various export procedures and documentation in various stages of export. To understand the importance of Commercial Invoice cum Packing List, Bill of Lading/Airway Bill, Shipping Bill/Bill of Export, Consular Invoice, and Certificate of Origin
	Computer System and Application II	CO 1	Understand the basic concepts of E-Commerce & Organizational and Managerial Systems
		CO 2	Attain practical usage and working of advanced MS Excel at work place
		CO 3	Get trained in graphical user interface - Visual Basic

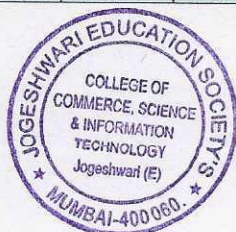
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Bachelor of Commerce (Accounting & Finance)			
Semester	Subject	Course Outcomes	
	Financial Accounting	CO 1	Comprehend concept of Accounting Standards and the Procedure for Issue of AS
		CO 2	Classify methods of Inventory valuation with Computation
		CO 3	Prepare Final Accounts of Manufacturing Concerns (Proprietary Firm)
		CO 4	Construct Final Accounts of Proprietary Trading Concern
		CO 5	Compute Loss of Stock by Fire



Semester 1	Cost Accounting	CO 1	Understand objectives and scope of Cost Accounting
		CO 2	Prepare stock ledger and understand various aspects of inventory control
		CO 3	Prepare labour cost statement, remuneration and incentive systems
		CO 4	Account for overheads apportionment, absorption and computation of overhead rates
	Financial Management	CO 1	Comprehend concepts of Financial Management
		CO 2	Attain understanding of Techniques of Discounting, Compounding and Present Value of money
		CO 3	Classify different types of Leverages
		CO 4	Gain knowledge of Long Term, Medium Term, Short Term Finance
		CO 5	Grasp understanding of Cost of Capital and Measurement of the same
	Business Communication	CO 1	Summarizing theory of communication
		CO 2	Understanding obstacles to Communication in Business World
		CO 3	Evaluating business correspondence, theory of business letter writing, personnel correspondence
		CO 4	Ability to analyses language and writing skills
	Foundation Course I	CO 1	Classify/Explain Globalization and Indian society
		CO 2	Implement/Execute Human Rights
		CO 3	Connect/Relate Quality of Human Life with Nature Capital
		CO 4	Select/Appraise Ethics in an individual
	Business Environment	CO 1	Understand and analyse business objectives, various types of business environment
		CO 2	Acquainted with development of various acts applicable to business in India
		CO 3	Understand & describe Corporate Social Responsibility, Corporate Governance and Social audit
CO 4		Evaluate Foreign Trade in India, Foreign Direct Investments and its implications on Indian Industries and various strategies of Global Trade	
Business	CO 1	Understand the scope and importance of Business Economics	
	CO 2	Describe demand function and recognize elasticity of the product	



	Economics – I	CO 3	Define production function and identify cost concepts
		CO 4	Explain different market structures and classify different pricing and output decisions
Semester 2	Financial Accounting	CO 1	Evaluate the Single-Entry System of Bookkeeping
		CO 2	Analyze dependent branch accounting with independent branch accounting
		CO 3	Characterize consignment transactions
		CO 4	Evaluate fire Insurance claims
	Auditing	CO 1	Understand basic terms and concepts related to auditing
		CO 2	Analyse objectives and importance of audit planning, preparation of an audit program and audit working papers
		CO 3	Evaluate various concepts related to auditing techniques like audit sampling, test check, materiality and understand the basic concepts of internal audit
	Business Mathematics	CO 1	Understand the application and calculate ratio, proportion, variation and percentage
		CO 2	Calculate and evaluate the profit or loss arising in business transactions
		CO 3	Relate, discuss, and solve the practical problems involving the concepts of interest and annuity
		CO 4	Implement basic knowledge about shares and mutual funds
	Business Communication	CO 1	Understand and develop presentation skills
		CO 2	Demonstrating and understanding group communication
		CO 3	Analyses business correspondence and trade letters
		CO 4	Evaluate language and writing skills
	Foundation Course II	CO 1	Understand and classify Globalization in relation to Indian society
		CO 2	Implement Human Rights
		CO 3	Connect quality of human life with nature capital
		CO 4	Identify and appraise Ethics in individuals
		CO 5	Manage and overcome stress and conflict in life and surroundings
Innovative	CO 1	Identify financial services, types of factoring & bill discounting method	
	CO 2	Demonstrate underwriter, role of brokers and sub brokers	



	Financial Services	CO 3	Differentiate between leasing & hire purchase and recognize the procedure of housing finance	
		CO 4	Classify types of finances, use of plastic money and select credit rating	
		Business Law	CO 1	Understand the basic Concepts of Indian Contract Act
			CO 2	Apply Contractual Methods in Future Agreements
	CO 3		Evaluate basic concepts of specific contracts	
			CO 4	Analyse the concept of sale of goods act, and they will implement own ideas in business
	Semester 3	Financial Accounting	CO 1	Construct Final Accounts of Partnership Firms with the classification of Admission, Retirement, Death of partner
			CO 2	Differentiate between external and internal
			CO 3	Learn conversion of a Firm into a Ltd. Company
			CO 4	Solve amalgamation concept creditors and actual implementation of dissolution of partnership firm with prescribed techniques
CO 5			Learn exchange rate of foreign currency into reporting currency	
Cost Accounting		CO 1	Classify costs and prepare cost sheet	
		CO 2	Prepare contract account and understand various aspects of contract including treatment of profit on incomplete contracts	
		CO 3	Prepare process accounts and statement of joint products and by-products	
		CO 4	Reconcile cost and financial statements & to recognise differences in balance of financial and cost records	
Direct Taxation		CO 1	Understand the basic terms of income tax, residential status of an individual and the scope of total income	
		CO 2	Calculate the heads of Salary, Income from House Property and Profit & Gain from Business and Profession	
		CO 3	Calculate the heads of Capital Gain and Income from Other Sources	
		CO 4	Compute Total Income and Taxable Income with various deductions available under section 80	
Business Economic-		CO 1	Demonstrate through application of Micro-economics, the interaction of individuals and organizations in markets	
		CO 2	Analyse the role of public policy in shaping	



	II		those application in Organisation markets
		CO 3	Understand application of macroeconomics the functioning of market economies at regional, national, and global levels
		CO 4	Examine the role of public policy in shaping those global level
	Business Law	CO 1	Evaluate critically the merits of LLP and its discrimination from partnership firm and company
		CO 2	Understand rights of employees and facilities under Factories Act
		CO 3	Analyse IT Act and kinds of shares and debentures
		CO 4	Analyse the provisions of Partnership Act ,, types of partners and their rights in India
	Foundation Course (Financial Market Operations)	CO 1	Get Knowledge of Financial System, Inflation and reforms of Banking system in India
		CO 2	Identify different types of Financial Markets
		CO 3	Develop awareness of India's strengths and capabilities on domestic and international front
		CO 4	Analyse the relevance of Financial Instruments and functions of Derivate in economy
		CO 5	Develop understanding of working of Financial services in India
	Information Technology In Accountancy	CO 1	Identify and classify the fundamental hardware and software components that are used to make up computer networks and the role of each of these components
		CO 2	Design and manage documents, spreadsheets, present effective presentations and emails effectively
		CO 3	Explain different terminologies associated with web and internet
		CO 4	Discuss the role of E-Commerce in the current business world
		CO 5	Evaluate the importance of security, privacy, and ethical issues as they relate to E-Commerce
Financial Accounting	CO 1	Construct financial statements of a Company	
	CO 2	Differentiate between redemption of preference shares and debentures	
	CO 3	Estimate profit prior to incorporation and post-incorporation	
	CO 4	Translate trail balance into reporting currency and prepare Financial Statements based on it	
	CO 1	Analyse the kinds of shares and debenture	



Semester 4	Business Law (Company Law)		under company law
		CO 2	Understand rights of Directors under company law
		CO 3	Evaluate Critically the advantages and disadvantages of Formation of Company
		CO 4	Analyse the Provisions of Company Law
	Information Technology in Accountancy-II	CO 1	Identify and classify different business processes in an organization
		CO 2	Explain the role and need of a computerized accounting system and apply the skills of accounting software Tally to generate reports
		CO 3	Illustrate the basic understanding of the concept MIS
		CO 4	Explain the need and importance of IT in auditing
	Foundation Course - IV	CO 1	Understand importance of management
		CO 2	Evaluate various functions of management such as planning, organizing, staffing, directing and controlling
		CO 3	Design business plans and organise resources to be effective leaders and managers
	Direct Taxation -II	CO 1	To Help students explain the emergence of provision of clubbing of income and to apply the concept of set off and carry forward of losses
		CO 2	Compute the tax liability of an individual and partnership firm
		CO 3	Compute TDS, Advance Tax and Interest on Advance Tax
		CO 4	Examine the provisions of DTAA and its need, also understand the meaning of tax planning and the concept of Ethics in taxation
	Management Accounting	CO 1	Illustrate the Vertical format of financial statements, tools of financial analysis such as Trend Analysis, Comparative Analysis and Common Size Statement
		CO 2	Calculate various ratios and discuss the significance and use of those ratios
		CO 3	Prepare Cash flow statements using Indirect method
		CO 4	Calculate the estimated working capital requirement of the entity
	Research	CO 1	Describe the various stages in a research process
CO 2		Compare different types of research and research designs	



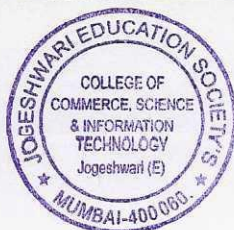
Semester 5	Methodology	CO 3	Apply different statistical tools for data analysis and presentation
		CO 4	Design their research proposal for their research project
	Financial Accounting - V	CO 1	Interpret AS 14 and the methods of accounting for Amalgamations, concept of transferee Company and the transferor company, purchase consideration and accounting treatment
		CO 2	Understand the procedure of internal reconstruction, its methods and accounting treatment
		CO 3	Understand the procedures of liquidation of companies, & preparation of Liquidator Final Statement
		CO 4	Demonstrate the fundamentals of accounting for buy-back of shares under different situation
		CO 5	To operate the statement of Liability of underwriters with given condition
	Financial Accounting - VI	CO 1	Students should be able to apply format of final accounts as per Banking Companies Act, 1949 in practical manner
		CO 2	Verify financial position of Bank by various angle
		CO 3	Apply format of final accounts as per Insurance Companies Act and verify actual calculation of premium in practical manner
		CO 4	Practically apply procedure of valuation of personal investment in real, mostly investment in Share market and in Debentures / Bonds
		CO 5	Apply format of final accounts as per LLP Act 2008, in practical manner
	Cost Accounting	CO 1	Evaluate importance of uniform costing and know the differentiate between uniform costing and inter firm comparison
		CO 2	Differentiate between integrated and non-integrated systems of accounting, nominal ledger and other control accounts and prepare Cost Control Accounts
		CO 3	Recall and discuss about composite units required to compute the per unit cost for pricing of services, cost of hospital services, transport services and hotel services
CO 4		Compute the value of work in process. and evaluate the need for inter process transfers at profit	



		CO 5	Differentiate between traditional costing system and activity based costing. And identify the cost drivers and discuss its impact in computing the cost of production
	Financial Management V	CO 1	Classify functional strategy and recognise the role of financial manager
		CO 2	Compare different capital budgeting to invest in a project
		CO 3	Solve different Capital Structure, theories and understand different dividend policies
		CO 4	Understand comprehensive benefits of mutual fund and the importance of investments in mutual fund
		CO 5	Compare different credit period and various credit plans
	Indirect Taxation	CO 1	Understand the various terms related to Goods and Service Tax (GST)
		CO 2	Analyze the differentiate between composite and mixed supply & Formulate time, place and value of supply
		CO 3	Compute the amount of CGST, SGST and IGST payable after considering eligible input tax credit
		CO 4	Analyse the need to obtain registration under GST law
	Management Accounting - II	CO 1	Understand different function of marketing, production, human resource and financial management
		CO 2	Differentiate each activity of an organization under relevant function of management
		CO 3	Demonstrate his/her role as an effective employee/manager in an organization
		CO 4	List the function to be performed by a new entrepreneurial venture
	Financial Accounting - VII	CO 1	Distinguish between Final Accounts for Electricity Company and Final Accounts of Companies
		CO 2	Solve final accounts of Co-Operative Housing Society & Consumer Co-Operative Society
		CO 3	The concept of IFRS, its Purpose & Objective of financial statement, Frame work, assumption, characteristics, element, recognition & measurement
		CO 4	The concept, history and different types of mutual funds
		CO 5	Differentiate between types of Investment and



Semester 6			execute the recording of purchase and sales transaction with interest and dividends
	Cost Accounting	CO 1	Recall the objectives of budgeting and budgetary control. and construct various functional budgets
		CO 2	Construct statement of marginal costs and calculate various Marginal Costing ratios
		CO 3	Solve various decision-making problems that takes place in business
		CO 4	Identify the need for variance analysis , compute material, labour, variable overheads, fixed overheads, sales and profit variances
	Financial Management	CO 1	Relate to book value, market value, earning measures of cash flow
		CO 2	Understand merger, paper work, failure of merger and reverse merger of firms
		CO 3	Understand mergers and reconstruction process of Public Ltd. Company
		CO 4	Compare the Leasing and Hire Purchase methods in business
		CO 5	Classify the fund to be allocate in fixed assets, investment and working capital
	Indirect Taxation	CO 1	Comprehend the basics of tax liability and refund in GST
		CO 2	Identify different types of Returns and their provisions
		CO 3	Attain knowledge of concept of accounts, audit, assessment and records of GST
		CO 4	Understand Customs Act and the application of custom law including classification and valuation of Imported and export goods
		CO 5	Evaluate Import and Export Procedures of baggage, goods imported, coastal goods, warehousing and drawback
	Security Analysis And Portfolio Management	CO 1	Analyse various efficient market theories with respect to managing a portfolio
		CO 2	Use technical analysis tools like Charts, Patterns and other mathematical and market indicators
		CO 3	Understand the need of various fundamental analysis in developing and managing a portfolio
		CO 1	Define a topic for research project which is specific, clear and with a definite scope
		CO 2	Design his research problem based problem on review of literature



	Project Work	CO 3	List the objective, sampling design, data collection methods, hypotheses, questionnaire and data analysis techniques to be use for his research design
		CO 4	Develop and present a research report on basis of his findings of work and enlist suggestion to validate the objectives and hypotheses

Jogeshwari Education Society's College of Commerce Science and Information Technology			
Bachelor of Management Studies			
Semester	Subject	Course Outcomes	
Semester 1	Introduction To Financial Accounts	CO 1	Understand different accounting standards and objective of accounting
		CO 2	Solve Journal, Ledger, Subsidiary book
		CO 3	Compare different depreciation methods and identify trial balance
		CO 4	Understand to prepare final account of sole trading concern
	Business Law	CO 1	Understand Contractual Methods in their Future Agreements
		CO 2	Analyse the concept of sale of goods act, Negotiable Instrument Act
		CO 3	Understand concepts of Consumer Protection Act And Intellectual Property Rights
		CO 4	Apply Legal Knowledge discretely
	Business Statistics	CO 1	Calculate the various measures of central tendency and dispersion
		CO 2	Evaluate the basic of correlation and regression analysis
		CO 3	Build an understanding of fundamental concept of probability theory
		CO 4	Build an understanding of decision theory
	Business Communication I	CO 1	Summarizing theory of communication
		CO 2	Understanding obstacles to Communication in Business World
		CO 3	Evaluating business correspondence, theory of business letter writing, personnel correspondence
		CO 4	Ability to analyses language and writing skills
	Foundation Of Human Skills	CO 1	Determine personality, attitude of individuals and understand individual behaviors
		CO 2	Determine group personalities and organizational process



		CO 3	Understand organizational culture and to develop work place motivation
		CO 4	Design organizational development and to solve work stress
	Business Economics I	CO 1	Understand the scope and importance of Business Economics
		CO 2	Describe demand function and recognize elasticity of the product
		CO 3	Define production function and identify cost concepts
		CO 4	Explain different market structures and classify different pricing and output decisions
	Foundation Course I	CO 1	Understand regional variations as per rural, urban and tribal characteristics
		CO 2	Evaluate Gender Disparity with special reference to violence against women
CO 3		Understand Communal Based inter group conflicts	
CO 4		Comprehend Fundamental duties and features of constitution	
	Principles Of Marketing	CO 1	Understand basics of marketing and its concepts
		CO 2	Learn the environment in which how a marketer works and how its extracts and uses information
		CO 3	Understand in detail the concept of marketing mix
		CO 4	Get introduced to segmentation, targeting and latest trends in marketing
	Industrial Law	CO 1	Comprehend the Industrial Dispute Act 1947, Trade Union Act 1926
		CO 2	Understand the various legal Concepts such as Strike, Lockdown, Retrenchment
		CO 3	Evaluate with the Payment of Wages Act 1948, Payment of Bonus Act 1965 and Payment of Gratuity Act 1972
		CO 4	Procure the knowledge of Factory Act 1948, Workmen Compensation Act 1923, Employee State Insurance Act 1948 and Miscellaneous Provision Act 1948
	Business Mathematics	CO 1	Acquire the concept of simple, compound interest and annuity
		CO 2	Evaluate permutations and combinations of different events
		CO 3	Define the determinants and understand their relation to matrices



Semester 2		CO 4	Connect different types of functions to solve basic derivative problems
	Business Communication	CO 1	Understand and develop presentation skills
		CO 2	Demonstrating and understanding group communication
		CO 3	Analyses business correspondence and trade letters
		CO 4	Evaluate language and writing skills
	Business Environment	CO 1	Understand nature, scope and types of business organizations, SWOT analysis
		CO 2	Perceive the internal and external environment which affects the business organization
		CO 3	Analyse PESTLE and the Competitive business environment in the Indian economy
		CO 4	Congregate the objectives and evolution of GATT, WTO, Globalization and FDI
	Principles Of Management	CO 1	Apply basic concepts of management effectively in an organisation
		CO 2	Successfully handle different managerial situations
		CO 3	Directing and communicate effectively with various departments
		CO 4	Analyze business decisions of organisations using various tools & techniques competitively
	Foundation Course - Value Education And Soft Skill II	CO 1	Understand the concepts of liberalization, Privatisation, and Globalisation
		CO 2	Comprehend concept of Environment, Ecology and their interconnectivity
		CO 3	Critically analyse values, ethics and prejudices in Individual
CO 4		Evaluate conflict - resolution and efforts towards building peace and harmony in society	
	Business Planning & Entrepreneurship	CO 1	Assess the commercial viability of new business opportunities
		CO 2	Possess necessary skills to become successful entrepreneurs
		CO 3	Face and solve problems confidently
		CO 4	Understand the areas of discipline of management & entrepreneurship
	Accounting for Managerial Decisions	CO 1	Illustrate the Vertical format of financial statements, tools of financial analysis such as Trend Analysis, Comparative Analysis and Common Size Statement
		CO 2	Calculate various ratios and discuss the significance and use of those ratios
		CO 3	Prepare cash flow statements using Indirect



Semester 3			method	
		CO 4	Calculate the estimated working capital requirement of the entity	
	Strategic Management	CO 1	Identify and classify Business Policies	
		CO 2	Develop Strategy Formulation	
		CO 3	Construct Strategic Implementation	
		CO 4	Demonstrate Strategic Evaluation	
	Corporate Finance	CO 1	Identify various Sources of Funds and describe its features. Analyze the Capital Structure of a company with respect to Cost of Capital and advise a profitable Investment	
		CO 2	Evaluate better Investment opportunities using Capital Budgeting Techniques	
		CO 3	Analyze the Risk and Returns	
		CO 4	Apply the concept of compounding and discounting based on Time Value of Money	
	Social Marketing	CO 1	Understand nature, strategy, tactics of marketing mix & planning	
		CO 2	Understand segmentation, identify target customers and compatibility and create value for customer as well as company	
		CO 3	Manage and adopt new products, product lines and apply brand tactics	
		CO 4	Incorporate strategic decisions in pricing, promotion, distribution and learn strategies of growth management	
	Foundation Course III - Environmental Management	CO 1	Differentiate between renewable and non-renewable resources	
		CO 2	Practical solutions for all types of pollutions and degradations	
		CO 3	Understanding environmental conservation and auditing	
	Information Technology in Business Management I	CO 1	Distinguish between different Information Systems and its major components	
		CO 2	Design and manage documents, spreadsheets, present effective presentations and emails effectively	
		CO 3	Describe fundamental concepts of internet and ecommerce technologies	
		CO 4	Explain various threats and IT risks related to ecommerce	
	Advertising	CO 1	Recognize the growing need and importance of advertising and its theories	
		CO 2	Emphasizing and articulating effective advertisement its planning and strategy	
		CO 3	Explore the current trends and career	



			opportunities available in advertising
		CO 4	Social and Economic Impact of Advertising on society following ethics and laws
	Introduction to Cost Accounting	CO 1	Understand objectives and scope of Cost Accounting
		CO 2	Prepare process accounts and statement of joint products and by-products
		CO 3	Prepare stock ledger and understand various aspects of inventory control, prepare labour cost statement, remuneration and incentive systems
		CO 4	Classify costs and prepare cost sheet. Students should be able to reconcile cost and financial statements
		CO 5	Account for overheads apportionment, absorption and computation of overhead rates
	Business Economics	CO 1	Demonstrate through application of Micro-economics, the interaction of individuals and organizations in markets
		CO 2	Analyse the role of public policy in shaping those application in Organisation Markets
		CO 3	Understand application of macroeconomics and functioning of market economies at regional, national, and global levels
		CO 4	Examine the role of public policy in shaping global level
	Business Research Methods	CO 1	Describe the various stages in a research process
		CO 2	Compare different types if research and research process
		CO 3	Develop different sampling designs, define sources of data collection and prepare their questionnaire for their research proposal
		CO 4	Apply statistical tests to test hypotheses formulated
	Information Technology in Business Management	CO 1	Describe the role of information technology and decision support systems in business and record the current issues with those of the firm to solve business problems
		CO 2	Identify the important business functions provided by typical business software such as enterprise resource planning and customer relationship management
		CO 3	Distinguish between various data models and illustrate the concepts of databases and data mining



Semester 4		CO 4	Differentiate between various outsourcing models like BPO, KPO and ITO
	Foundation Course - IV	CO 1	Learn various environmental concepts, biogeochemical cycles and resources
		CO 2	Evaluate various current environmental issues and apply remedies for the same
		CO 3	Demonstrate an understanding of rules and regulations relating to environmental aspects of business and sustainability
		CO 4	Develop innovative environment friendly business models
	Production and Quality Management	CO 1	Design and develop Manufacturing System
		CO 2	Understand Material and Inventory Management
		CO 3	Understand basic of productivity and Quality Management
		CO 4	Recognize Quality Improvement Strategies
	Corporate Restructuring	CO 1	Develop and describe corporate restructuring as a business strategy and also different forms of restructuring
		CO 2	Provide adequate knowledge of the accounting treatment of internal and external reconstruction
		CO 3	Develop an understanding of the impact of reorganization on the company
		CO 4	Make students understand the impact of reorganization on the company
	Integrated Marketing Communication	CO 1	Equip the students with knowledge about the nature, purpose and complex construction in the planning and execution of an effective Integrated Marketing Communication (IMC) program
		CO 2	Understand the various tools of IMC and the importance of coordinating them for an effective marketing communication program
		CO 3	Make learners aware about the tools of IMC in a communication mix
		CO 4	Create awareness of ethics & evaluation in marketing communication
	Event Marketing	CO 1	Gain knowledge about categories of events and their role in promotion
		CO 2	Plan, organize and run a business event professionally
		CO 3	Apply skilled in budgeting for an event/meeting
CO 4		Communicate effectively with clients, vendors	



			and support service personnel for an event
	AUDITING	CO 1	Understand the basic terms and concepts related to auditing
		CO 2	Understand the objectives and importance of audit planning, preparation of an audit program and audit working papers
		CO 3	Evaluate the various concepts related to auditing techniques like audit sampling, test check, materiality and internal audit
		CO 4	Evaluate the auditing technique of vouching of various transactions in relation to incomes, expenses etc. and auditing technique of verification regarding balance sheet items
	Logistics and Supply Chain Management	CO 1	Focus on the concepts of applied in Logistics and Supply Chain Management
		CO 2	Illustrate concepts like inbound and outbound Logistics, offshore and inshore logistics
		CO 3	Develop skills for planning, designing the operational facilities of supply chain with the analytical and critical point of view
		CO 4	Understand how logistics play an important role in redefining value chain globally
	Corporate Communication & Public Relations	CO 1	Provide the students with basic understanding of the concepts of corporate communication and public relations
		CO 2	Introduce the various elements of corporate communication and consider their roles in managing media organizations
		CO 3	Examine how various elements of corporate communication must be coordinated to communicate effectively in today's competitive world
		CO 4	Develop critical understanding of the different practices associated with corporate communication with the latest trends and social media tools
	Investment Analysis & Portfolio Management	CO 1	Understand the term, which are often confronted while reading the newspaper, magazine such as beta & capital assets pricing model for better correlation practical world
		CO 2	Calculate & Analyze concept of risk & return associated with various investments avenues
		CO 3	Understand various model & techniques of security portfolio analysis
		CO 4	Understand short term & long term investments avenues



Semester 5	Direct & Indirect Tax	CO 1	Prepare tax computation statement
		CO 2	Practically how to fill up his/her Income Tax Returns
		CO 3	Compare various schemes of investment to select the best
		CO 4	Design different tax saving schemes to reduce tax liability
	Financial Accounting	CO 1	Demonstrate different types of Investment and its accounting procedure
		CO 2	Operate the statement of Liability of underwriters with given condition
		CO 3	Recognise the ethical behaviour of accountant
		CO 4	Account for transactions in Foreign Currency
		CO 5	Account for Final Accounts of the Company
	Wealth Management	CO 1	Understand in detail about what is wealth management, and financial statement and economic environment analysis
		CO 2	Understanding about the insurance and investment planning and Giving knowledge about types of insurance and investment options available
		CO 3	It helps to understand about the financial mathematics, tax and estate planning
		CO 4	It gives details about the retirement planning and various tax saving schemes
	Service Marketing	CO 1	Understand and classify Service Market
		CO 2	Identify problems and find solutions of Branding Services
		CO 3	Construct quality aspects of Service Marketing
		CO 4	Understand changing strategies from domestic to International Service marketing
	E-Commerce & Digital Marketing	CO 1	Understand the importance & application in business
		CO 2	Apply digital marketing strategies on social media platform
		CO 3	Recognize and practice the latest trends in E-commerce & Digital marketing
CO 4		Study and design strategies to overcome challenges	
Sales & Distribution Management	CO 1	Understand the process of sales and distribution in organisation	
	CO 2	Analyse various markets and selling concepts	
	CO 3	Design and manage distribution channel	
	CO 4	Explore evaluation techniques and new trends in sales and distribution	



	Customer Relationship Management	CO 1	Outline the terms, concepts, customer relations and relationship marketing in CRM
		CO 2	Identify CRM Marketing Initiatives, Customer Service and Data Management
		CO 3	Appraise the Strategies, Planning, Implementation and Evaluation for effective CRM
		CO 4	Evaluate the recent trends and new horizons in CRM
	Operation Research	CO 1	Understand operations research methodologies used in an organization
		CO 2	Illustrate the concepts to solve various problems practically
		CO 3	Enhance the proficient in case analysis and interpretation of Operations carried in Business
		CO 4	Understand machine problems and game theory
	Strategic Financial Management	CO 1	Classify Different Dividend Policy Given and Understand XBRL Language
		CO 2	Solve Practical Problems of Capital Budgeting and Capital Rationing & Construct Decision Tree Analysis
		CO 3	Compare Shareholders Value and Corporate Governance Procedure & Procedure of Merging
		CO 4	Understand Working Capital Importance for Production & Classify the Function of Banking Sector
	Indirect Taxes	CO 1	Understand the various terms related to Goods and Service tax (GST)
		CO 2	Differentiate the difference between composite and mixed supply & Formulate time, place and value of supply
		CO 3	Compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit
		CO 4	Analyse the need to obtain registration under GST law
	International Finance	CO 1	Understand the basis of International Finance, Balance of Payments and International Monetary Systems
		CO 2	Explain Foreign Exchange Markets, Exchange Rate Determination & Currency Derivative
		CO 3	Discuss World Financial Markets & Institutions & Risks
		CO 4	Explain Foreign Exchange Risk, Appraisal &



Semester 6			Tax Management
	Project Management	CO 1	Explain various concepts and terminologies related to Project Management
		CO 2	Prepare organizational chart of any company
		CO 3	Use different analysis for making project management decisions
		CO 4	Analyze new dimensions of project management. Recommend best feasible project by making various calculations based on Capital Budgeting, Leverages and other techniques of Business analysis
	Brand Management	CO 1	Differentiate between brands and products
		CO 2	Execute of Brand Marketing Programs
		CO 3	Classify and interpret Brand Performance in market
		CO 4	Construct sustaining Brand Equity and its growth
	Retail Management	CO 1	Analyze the evolution of retail industry
		CO 2	Identify career opportunities available in the retail business
		CO 3	Apply legal & ethical aspects in retail management
		CO 4	Understand emerging trends in retail management
	International Marketing	CO 1	Understand International Marketing, its Advantages and Challenges and to acquaint with some Trade Body
		CO 2	Provide an insight on the dynamics of International Marketing Environment
		CO 3	Understand the relevance of International Marketing Mix decisions
		CO 4	Acquaint the students with the recent developments in Global Market
	Media Planning & Management	CO 1	Explore the connectivity of media with current business trends
		CO 2	Evaluate Media Planning, Budgeting, Scheduling and Media Buys
		CO 3	Analyse international and domestic marketing and media metrics
		CO 4	Utilisation of advertising budget effectively
	Project Work	CO 1	Define a topic for research project which is specific, clear and with a definite scope
		CO 2	Design his research problem based problem on review of literature
		CO 3	List the objective, sampling design, data collection methods, hypotheses, questionnaire



			and data analysis techniques to be use for his research design
		CO 4	Develop and present a research report on basis of his findings of work and enlist suggestion to validate the objectives and hypotheses

Jogeshwari Education Society's College of Commerce Science and Information Technology			
Bachelor of Science (Information Technology)			
Semester	Subject	Course Outcomes	
Semester 1	Programming Principles with C	CO 1	Learn the basic principles of programming
		CO 2	Develop of logic using algorithm and flowchart
		CO 3	Acquire the information about data types
		CO 4	Understanding of input and output functions
	Digital Logic and Applications	CO 1	Apply number conversion techniques in real digital systems
		CO 2	Solve boolean algebra expressions
		CO 3	Design and develop Combinational and Sequential circuits
		CO 4	Understand and develop digital applications
	Fundamentals of Database Management Systems	CO 1	Define and describe the fundamental elements of relational database management system
		CO 2	Design ER-models to represent simple database application scenarios
		CO 3	Improve the database design by normalization
		CO 4	Transform the ER-model to relational tables, populate relational database and formulate SQL queries on data
	Computational Logic and Discrete Structures	CO 1	Use logical notation & perform logical proofs
		CO 2	Calculate discrete probability
		CO 3	Apply basic and advanced principles of counting
		CO 4	Use graphs and trees
	Technical Communication Skills	CO 1	Analyze, synthesize and utilize the process and strategies from delivery to solving communication problem
		CO 2	Learn the communication methodologies at workplace and learning about importance of team collaboration
		CO 3	Learn about different technical communication such as presentations and interviews



		CO 4	Understand and apply the art of written communication in writing reports, proposals
Semester 2	Object Oriented Programming with C++	CO 1	Understand the concept of OOPs, feature of C++ language
		CO 2	Understand and apply various types of Datatypes, Operators, Conversions while designing the program
		CO 3	Understand and apply the concepts of Classes & Objects, friend function, & destructors in program design. Constructors
		CO 4	Design & implement various forms of inheritance, String class, calling base class
	Fundamentals of Micro Processor and Microcontrollers	CO 1	Understand the basic concepts of Micro Computer Systems
		CO 2	Understand the architecture and hardware aspects of 8085
		CO 3	Write assembly language programs in 8085
		CO 4	Design elementary aspects of Micro Controller based systems
	Web Applications Development	CO 1	Analyze working of Internet
		CO 2	Gain an insight into designing web pages
		CO 3	Use different ways of styling web pages using CSS
		CO 4	Implement basic and complex functionalities of JavaScript in a web page
	Numerical Methods	CO 1	Understand numerical techniques to find the roots of non-linear equations and solution of system of linear equations
		CO 2	Understand the difference operators and the use of interpolation
		CO 3	Understand numerical differentiation and integration and numerical solutions of ordinary and partial differential equations
	Green IT	CO 1	Understand the concept of Green IT and problems related to it
		CO 2	Know different standards for Green IT
		CO 3	Understand the how power usage can be minimized in Technology
		CO 4	Learn about how the way of work is changing
	PL/SQL	CO 1	Understand the basics of PL/SQL
CO 2		Use of the control and conditional statement in PL/SQL	
CO 3		Apply sequences and cursor in PL/SQL	
CO 4		Know the concept of stored procedure and functions	



Semester 3	Python Programming	CO 1	Aware of the variables, expressions, looping and conditions used in Python programming
		CO 2	Implement functions, strings, lists, tuples and directories
		CO 3	Create GUI forms and add widgets
		CO 4	Use MySQL to store data
	Data Structures	CO 1	Identify and distinguish data structure classification, data types, their complexities
		CO 2	Implement array, linked list, stack and queue
		CO 3	Implement trees, various hashing techniques and graph for various applications
		CO 4	Compare various sorting and searching techniques
	Computer Networks	CO 1	Identify various data communication standards, topologies and terminologies
		CO 2	Describe how signals are used to transfer data and communication aspects between nodes
		CO 3	Configure IP addresses using TCP/IP protocol suite
		CO 4	Use different application layer protocols
	Operating Systems	CO 1	Role of Operating System Computer System
		CO 2	Use the different types of Operating System and their services
		CO 3	Configure process scheduling algorithms and synchronization techniques to achieve better performance of a computer system
		CO 4	Apply virtual memory concepts
	Applied Mathematics	CO 1	Solve the matrix operations, identify the linear dependence and independence of a vectors
		CO 2	Familiar with the various forms and operations of a complex number
		CO 3	Find the Laplace transform of a function and Inverse Laplace transform of a function using definition also solve ordinary differential equations using Laplace transform
		CO 4	Evaluate the multiple integrals in Cartesian, Polar coordinates, change the order of the integral
Mobile Programming	CO 1	Install and configure Android application development tools	
	CO 2	Design and develop user Interfaces for the Android platform	
	CO 3	Save state information across important operating system events	
		CO 1	Learn the architecture of Java
		CO 2	Identify data types, control flow, classes,



Semester 4	Java Programming		inheritance, exceptions and event handling
		CO 3	Use object-oriented concepts for problem solving real-life applications
		CO 4	Build GUI programs
	Introduction to Embedded Systems	CO 1	Differentiate between general purpose and embedded systems
		CO 2	Discuss the characteristics and quality attributes of embedded systems
		CO 3	Use different types of sensors for appropriately
		CO 4	Design and develop embedded systems
	Computer Oriented Statistical Techniques	CO 1	To calculate and apply measures of central tendencies and measures of dispersion -- grouped and ungrouped data cases
		CO 2	To calculate the moments, skewness and kurtosis by various methods
		CO 3	To apply discrete and continuous probability distributions to various business problems
		CO 4	Apply simple linear regression and correlation model to real life examples
	Software Engineering	CO 1	Understand software engineering
		CO 2	Apply software engineering principles
		CO 3	Discuss various approaches to verification and validation of software including testing, measurements and estimation of software products
		CO 4	Create software using different software development models
	Computer Graphics and Animation	CO 1	Understand the basics of computer graphics, different graphics systems and applications of computer graphics
		CO 2	Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis
		CO 3	Use of geometric transformations on graphics objects and their application in composite form
		CO 4	Extract scene with different clipping methods and its transformation to graphics display device
		Internet of Things	CO 1
CO 2			Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks Able to understand building blocks of Internet of Things and characteristics
		CO 1	Understand the informed and uninformed problem types and apply search strategies to



Semester 5	Artificial Intelligence		solve them. Apply difficult real life problems in a state space representation so as to solve them using AI techniques like searching and game playing
		CO 2	Design and evaluate intelligent expert models for perception and prediction from intelligent environment
		CO 3	Formulate valid solutions for problems involving uncertain inputs or outcomes by using decision making techniques
		CO 4	Demonstrate and enrich knowledge to select and apply AI tools to synthesize information and develop models within constraints of application area
	Software Project Management	CO 1	Identify the different project contexts and suggest an appropriate management strategy
		CO 2	Practice the role of professional ethics in successful software development
		CO 3	Identify and describe the key phases of project management
		CO 4	Determine an appropriate project management approach through an evaluation of the business context and scope of the project
	Enterprise Java	CO 1	Create dynamic web pages, using Servlets and JSP
		CO 2	Make a reusable software component, using Java Bean
		CO 3	Students learn skills to develop real time applications
	Advance Web Programming	CO 1	Able to gain the knowledge for designing and developing web applications
		CO 2	Apply PHP7 to improve accessibility of a web document
CO 3		Develop a static, interactive and well-formed webpage using JavaScript, CSS3 and HTML5	
Business Intelligence	CO 1	Become familiar with the role of mathematical models, Business intelligence architectures, representation of the decision-making process, evolution of information system	
	CO 2	Define development of a model, representation of input data, data mining process, analysis methodologies, data validation, data transformation, data reduction	
	CO 3	Evaluate classification models, Bayesian methods, Clustering methods, Partition methods, Hierarchical methods	



Semester 6		CO 4	Be well-versed with Organizational Learning and Transformation, Knowledge Management Activities, Artificial Intelligence Versus Natural Intelligence, basic structure and development of expert systems
	Cyber Law	CO 1	Make Learner Conversant with The Social and Intellectual Property Issues Emerging from 'Cyberspace
		CO 2	Explore The Legal and Policy Developments in Various Countries to Regulate cyberspace
		CO 3	Develop The Understanding of Relationship Between Commerce and Cyberspace
	Software Quality Assurance	CO 1	Describe fundamental concepts of software quality assurance
		CO 2	Explore test planning and its management.
		CO 3	Understand fundamental concepts of software automation
		CO 4	Demonstrate the quality management, assurance, and quality standard to software system
	Principles of Geographic Information Systems	CO 1	Understand the components and a range of the methods which make up geographical information systems and the field of geographical information science
		CO 2	Display knowledge of the multifarious data sources commonly used in GIS, and critically understand the importance of data modeling in the storage of such data
		CO 3	Appreciate the functionality of the ArcGIS software, including basic expertise in analysis, classification, query and integration of vector and raster data and its visualisation
		CO 4	Apply appropriate cartographic principles in the construction of maps.(including an appreciation of map projections)
	Security in Computing	CO 1	Identify the security issues in the network and resolve it
		CO 2	Analyse the vulnerabilities in any computing system and hence be able to design a security solution
		CO 3	Evaluate security mechanisms using rigorous approaches by key ciphers and functions
		CO 4	Demonstrate various network security applications, IPSec, Firewall, IDS, Web Security, Email Security and Malicious software etc



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