

ODL MBA

**MASTER OF BUSINESS ADMINISTRATION –
INFORMATION TECHNOLOGY**

PROGRAMME GUIDE

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INTRODUCTION

The MBA in Information Technology is a future-focused postgraduate programme that combines core management principles with specialized training in data analytics, information systems, ERP, and cyber security. It equips students to lead digital transformation through hands-on learning in tools like Python, databases, and data visualization, supported by industry projects, labs, and a capstone assignment.

PROGRAMME OUTCOMES

1. **Business and IT Acumen** – Apply core management and IT concepts to solve organizational challenges.
2. **Analytical Thinking** – Use data analytics tools and techniques to support data-driven decision-making.
3. **Technical Proficiency** – Demonstrate proficiency in programming, database management, and system design.
4. **Strategic IT Planning** – Formulate and manage IT strategies aligned with business goals and competitive advantage.
5. **Leadership and Communication** – Exhibit effective leadership, communication, and teamwork in cross-functional and digital teams.
6. **Legal and Ethical Understanding** – Understand cyber security laws, privacy, and ethical concerns in IT governance.
7. **Innovation and Research** – Conduct applied research and propose innovative IT solutions for complex business problems.

PROGRAMME SPECIFIC OUTCOMES

PSO1: Design and manage enterprise IT systems such as ERP, databases, and information systems to improve business efficiency.

PSO2: Analyze and visualize large datasets using modern data analytics tools like Python and visualization dashboards.

PSO3: Implement IT security frameworks and privacy practices to protect organizational data and infrastructure.

PSO4: Integrate technological innovations with strategic business initiatives to support digital transformation in enterprises.

SALIENT FEATURES

1. **Interdisciplinary Curriculum:** Combines core MBA subjects with specialized IT modules including data analytics, cyber security, and ERP.
 2. **Hands-on Learning:** Includes practical components such as labs, Python programming, DBMS applications, and data visualization.
 3. **Industry-Oriented Projects:** Real-time case studies, seminars, and a final capstone project aligned with industry trends.
 4. **Future-Ready Skills:** Prepares graduates for roles like Business Analyst, IT Manager, Data Analyst, and ERP Consultant.
 5. **Elective Flexibility:** Wide range of Generic Electives across languages, humanities, and analytical skills.
- Global Relevance:** Focus on international IT trends, governance frameworks, and enterprise-level IT systems.

PROGRAMMECODE: DE3521

DURATION OF THEPROGRAMME:

Minimum Duration 2 years

Maximum Duration 4 years

MEDIUM OF INSTRUCTION/EXAMINATION:

Medium of instruction and Examination shall be English.

PROGRAMME STRUCTURE
MBA - INFORMATION TECHNOLOGY

Term	Core Courses (CRI, CRII, CRIIIA, CRIIIB) CRI+II-(8+3) 11x4 Credits CRIIIA-1x4Credits CRIIIB - 1x6Credits	Discipline Specific Electives (DSE) 6x6Credits	Ability Enhancement Courses(AECC) 1x4Credits	Generic Electives (GE) 2x4Credits	Credits
I	Discipline Specific Core-I Discipline Specific Core-II Discipline Specific Core-III Discipline Specific Core-IV Discipline Specific Core-V				20
II	Discipline Specific Core-VI Discipline Specific Core-VII Discipline Specific Core-VIII Discipline Specific Core-IX Discipline Specific Core-X		AECC-I Communication for Leaders		24
III	Discipline Specific Core -XI CRIIIA - Seminar on Summer Training OR 1 Course from the GE Basket 1 which is not chosen as Generic Elective (GE)	DSE-I DSE-II DSE-III		GE-I (Professional Enhancement, English, Political Science, Sociology)	30
IV	CRIIIB-Capstone Project	DSE-IV DSE-V DSE-VI		GE-II (Professional Enhancement, English, Political Science, Sociology)	28
Total	54 Credits	36Credits	4Credits	8Credits	102

**PROGRAMME SCHEME
MBA - INFORMATION TECHNOLOGY**

COURSE TYPE	COURSE CODE	COURSE TITLE	Cr.	CA	ETE (Theory)	ETE (Practical)
TERM 1						
DSC-I	DEACC506	FINANCIAL REPORTING, STATEMENTS AND ANALYSIS	4	30	70	0
DSC-II	DEECO515	MANAGERIAL ECONOMICS	4	30	70	0
DSC-III	DEMGN578	INTERNATIONAL BUSINESS ENVIRONMENT	4	30	70	0
DSC-IV	DEMKT503	MARKETING MANAGEMENT	4	30	70	0
DSC-V	DEMGN581	ORGANISATIONAL BEHAVIOUR AND HUMAN RESOURCE DYNAMICS	4	30	70	0
TERM 2						
DSC-VI	DEFIN542	CORPORATE FINANCE	4	30	70	0
DSC-VII	DEOPR639	OPERATIONS MANAGEMENT AND RESEARCH	4	30	70	0
DSC-VIII	DEMGN801	BUSINESS ANALYTICS	4	30	70	0
DSC-IX	DEMGN832	RESEARCH METHODOLOGY	4	30	70	0
DSC-X	DEBSL605	LEGAL ASPECTS OF BUSINESS	4	30	70	0
AECC-I	DEPEL537	COMMUNICATION FOR LEADERS	4	30	70	0
TERM 3						
DSE-I	DECAP517	DATABASE MANAGEMENT SYSTEMS	6	30	40	30
DSE-II	DECAP399	MANAGING INFORMATION SYSTEMS	6	30	70	0
DSE-III	DECAP518	DATA ANAYTICS WITH PYTHON	6	30	40	30
DSC-XI	DEMGN571	CORPORATE STRATEGY AND ENTREPRENEURSHIP	4	30	70	0
GE-I		GENERIC ELECTIVE I	4	30	70	0
CR-IIIA	DEMGN583	SEMINAR ON SUMMER TRAINING	4	30	0	70
		OR 1 Course from the GE basket 1 which is not chosen as Generic Elective (GE) area.		30	70	0
TERM4						
DSE-IV	DECAP782	ADVANCE DATA VISUALIZATION	6	30	40	30
DSE-V	DECAP519	INFORMATION SECURITY AND PRIVACY	6	30	70	0
DSE-VI	DECAP520	PLANNING ENTERPRISE RESOURCES	6	30	70	0
GE-II		GENERIC ELECTIVE II	4	30	70	0
CR-IIIB	DEMGN696	CAPSTONE PROJECT	6	30	0	70
TOTAL CREDITS				102		

GENERIC ELECTIVE (GE) BASKET (PICK ANY ONE AREA)

S. No.	Course Code	Course Title	Elective Area	Cr.	CA	ETE (Theory)	ETP (Practical)	Term
1	DEPEA515	ANALYTICAL SKILLS-I	Professional Enhancement	4	30	70	0	3
2	DEPEA516	ANALYTICAL SKILLS-II	Professional Enhancement	4	30	70	0	4
3	DEENG539	ACADEMIC ENGLISH	English Language	4	30	70	0	3
4	DEENG514	INTRODUCTION TO THE STUDY OF LANGUAGE	English Language	4	30	70	0	4
5	DEENG519	POST-INDEPENDENCE INDIAN LITERATURE	English Literature	4	30	70	0	3
6	DEENG527	POSTCOLONIAL LITERATURES AND CULTURAL STUDIES	English Literature	4	30	70	0	4
7	DEPOL525	POLITICAL INSTITUTIONS IN INDIA	Political Science	4	30	70	0	3
8	DEPOL527	PUBLIC POLICY AND GOVERNANCE IN INDIA	Political Science	4	30	70	0	4
9	DESOC515	FUNDAMENTALS OF SOCIOLOGY	Sociology	4	30	70	0	3
10	DESOC506	GLOBALIZATION AND SOCIETY	Sociology	4	30	70	0	4

Note:

1. Students can adopt only one area from Generic Elective basket that will be applicable for the Generic Electives I and II.
2. In case of Seminar on Summer Training, student may choose one course in lieu of Seminar on Summer Training from the Generic Basket 1 which is not chosen as Generic Elective area.

Course code	DEACC506	Course Title	FINANCIAL REPORTING, STATEMENTS AND ANALYSIS	
			CA	ETE(Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: associate accounting information for decision making in organizations.

CO2: analyse the cash position of an organization by evaluating cash flow from different activities.

CO3: identify various cost accounting techniques, cost concepts & techniques of cost control in decision making.

CO4: identify the accounting terminology and purpose of accounting framework.

CO5: evaluate how activity-based costing can be utilized in the organizations.

CO6: interpret the financial statements in accordance with generally accepted accounting principles.

Unit No.	Content
Unit 1	Introduction to Accounting: Introduction, Accounting Equation, Rules of Accounting, Objectives, Advantages and Limitations of Accounting, Accounting Concepts and Conventions, Accounting Terminology, Concept of IFRS and its relevance, Qualitative features of IFRS, Elements of financial statements, Difference between IFRS and GAAP.
Unit 2	Corporate Financial Statements: Features and Importance, Vertical Format of Corporate Financial Statements, Conceptual framework of depreciation and amortization
Unit 3	Ratio Analysis: Liquidity Ratios, Solvency Ratios, Profitability Ratios, Turnover Ratios, Du-Pont Analysis, Importance and Objectives.
Unit 4	Financial Statement Analysis: Objectives of Analysis, Various Stakeholders and their Interests, Techniques of Financial Statement Analysis- Horizontal Analysis, Common Size Analysis
Unit 5	Artificial Intelligence and Analytics: Finance and Accounting transformation by AI
Unit 6	Cash Flow Statement: Meaning and Significance, Construction of Cash Flow Statement, Analysis of Cash Flow Statement
Unit 7	Basic Aspects of Cost Accounting: Preparation of Cost Sheet and Estimated Cost Sheet, Meaning, Cost Concepts and Cost Classification
Unit 8	Budgetary Control: Need and Steps involved in Budgetary Control, Meaning and Types of Budgets, Preparation of Cash Budget, Preparation of Flexible Budget
Unit 9	Inventory Valuation: Methods of pricing material issues, FIFO, LIFO
Unit 10	Marginal Costing and Profit Planning: Meaning and Objectives, CVP Analysis, Break Even Point and Break Even Analysis
Unit 11	Decision involving Alternative Choices: Concept and Steps involved in Decision Making, Profit Planning, Key factor, Determination of Sales Mix, Make or Buy decision, Exploration of New Markets, Continue or Discontinue a Product Line.
Unit 12	Transfer Pricing: Meaning and Importance, Advantages and Limitations, Methods of Calculating Transfer Price
Unit 13	Activity Based Costing: Concept and Pre-requisites, Activity Based Costing versus Traditional Costing, Steps Involved in Activity Based Costing, Cost Drivers, Determination of Cost under ABC, Benefits and Limitations
Unit 14	Responsibility Accounting: Concept and Significance, Elements, Responsibility Centers.

READINGS:

1. MANAGEMENT ACCOUNTING by KHAN M.Y and JAIN P.K, MCGRAW HILL EDUCATION
2. FUNDAMENTALS OF COST ACCOUNTING by WILLIAM N. LANEN, SHANNON W. ANDERSON, MICHAEL W. MAHER, MCGRAW HILL EDUCATION
3. MANAGEMENT ACCOUNTING by SHAH PARESH, OXFORD UNIVERSITY PRESS
4. A TEXTBOOK OF ACCOUNTING FOR MANAGEMENT by MAHESHWARI. S.N, MAHESHWARI SHARAD.K, MAHESHWARI SUNEEL.K, VIKAS PUBLISHING HOUSE
5. ACCOUNTING FOR DECISION MAKING by NEEDLES BELVERD. E, CENGAGE LEARNING
6. FINANCIAL ACCOUNTING FOR MANAGEMENT: AN ANALYTICAL PERSPECTIVE by GUPTA AMBRISH, PEARSON

Course code	DEECO515	Course Title	MANAGERIAL ECONOMICS
			WEIGHTAGES
			CA
			ETE(Th.)
			30
			70

Course Outcomes: Through this course, the student will be able to

CO1: apply economic principles to management decisions.

CO2: evaluate the managerial decisions making around the theory of the firm with application in a globalized economy.

CO3: evaluate possible strategies in the event a firm is one of just a few companies in a market.

CO4: examine a comprehensive understanding of the current issues influencing economic development of India.

Unit No.	Content
Unit 1	Nature and Scope of Managerial Economics: definition and scope of managerial economics, basic process of decision making in economics, existence of firm and its functions
Unit 2	Demand and supply analysis: determinants of demand and supply, individual and market demand and supply, market equilibrium
Unit 3	Demand Estimation: relevance of demand estimation for a firm, demand forecasting using qualitative forecast and time series analysis
Unit 4	Cost Theory and Estimation: short run cost functions, long run cost curves, economics of scale, learning curves
Unit 5	Production Theory: production function with one and two variables inputs, optimal combination of inputs, returns to scale
Unit 6	Market Structure: introduction to market structure, price and output determination under perfect competition, monopoly and monopolistic competition
Unit 7	Oligopoly: meaning and sources, cartelization and price leadership under oligopoly
Unit 8	Game Theory: meaning and types of games, dominant strategy and Nash equilibrium, prisoner's dilemma, mixed strategy
Unit 9	Indian Economy Since Colonialism: colonialism and development of the Indian economy, trends and composition of national income
Unit 10	Human Development: human development index, characteristics of developing world, state of human development in India
Unit 11	Structure of Indian Economy: introduction to agriculture, industrial sector and service sector, poverty and inequality, emerging energy-economy-environment regulatory framework
Unit 12	Economic Reforms: introduction to reforms, economic reforms for financial sector performance, agriculture, industry and services
Unit 13	Monetary Policy: concept and meaning, objectives, tools of monetary, role of monetary policy after the period of economic reforms, inflation and monetary policy
Unit 14	Fiscal policy: concept and meaning, objectives, tools of fiscal policy, role of fiscal policy after the period of economic reforms, inflation and fiscal policy

READINGS:

1. MANAGERIAL ECONOMICS- PRINCIPLES AND WORLDWIDE APPLICATIONS by SALVATORE, DOMINICK and RASTOGI, SIDDHARTHA K., OXFORD UNIVERSITY PRESS.
2. INDIAN ECONOMY by GAURAV DUTT, ASHWANI MAHAJAN, S. CHAND PUBLISHING
3. MANAGERIAL ECONOMICS: AN INTEGRATIVE APPROACH by HIRSHEY, MARK, CENGAGE LEARNING
4. INDIAN ECONOMY PERFORMANCE AND POLICIES, by UMA KAPILA, ACADEMIC FOUNDATION

Course code	DEMG578	Course Title	INTERNATIONAL BUSINESS ENVIRONMENT
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WEIGHTAGES	
CA	ETE(Th.)
30	70

Course Outcomes: Through this course, the student will be able to

C01: analyze business environment and trends to take decisions with respect to international business operations.

C02: interpret and apply international trade theories in international business operations.

C03: identify and critically analyse the role of foreign exchange market and usage of fundamental instruments for currency exchange.

C04: develop skills on analysing the business data, and problem solving in other functional areas such as marketing, business strategy and human resources.

C05: develop responsiveness to contextual social issues/ problems and exploring solutions, understanding business ethics and resolving ethical dilemmas.

C06: identify aspects of the global business and cross-cultural understanding.

Unit No.	Content
Unit 1	Overview of international business environment: Introduction to international business, types of international business, globalization and international Business;
Unit 2	Components of international Business environment: social environment, political and legal environment, economic environment, technological environment
Unit 3	The external environment and challenges: assessing risk in international business, Recent world trade and foreign Investment trends, environment Influence on Trade and investment patterns
Unit 4	International Trade theories: theory of absolute advantage, theory of comparative advantage, factor proportion theory, the diamond model of national competitive advantage, factor mobility theory
Unit 5	Protectionism and trading environment: Globalization trends and challenges; environment for foreign trade and investment, governmental influence on trade and investments; tariff and non-tariff barriers
Unit 6	Economic Integration and Co-operation: cross national cooperation and agreements, Role of international organizations: WTO, IMF, Regional Economic Integrations
Unit 7	International financial markets: foreign exchange market mechanism, exchange rate arrangement, determinants of exchange Rates, exchange rate movements and their impact
Unit 8	Global Debt and Equity Markets: Euro Currency market, offshore financial centres, International Banks, Non-Banking Financial service firms; stock markets
Unit 9	Global Competitiveness: Export Management, Technology and global Competition, world economic growth and the environment
Unit 10	Internationalization strategies: Theories of internationalization, Modes of operations in International Business, export and import strategy
Unit 11	Forms and Ownership of Foreign Production: Types of collaborative arrangements; Licensing, joint ventures & consortium approaches, Managing International Collaborations
Unit 12	International business diplomacy: Negotiating an International business, issues in asset protection, Multilateral sentiments
Unit 13	Country evaluation and selection: Opportunity and risk matrix, analysis of Macro and micro indicators, country comparison tools
Unit 14	Globalization and society: globalization with social responsibility, Ethical Dimensions of Labor Conditions, Ethics and the Environment, legislation for anti-competitive and unfair trade practices

READINGS:

1. INTERNATIONAL BUSINESS ENVIRONMENTS AND OPERATIONS by DANIELS, RADEBAUGH, SULLIVAN & SALWAN, PEARSON
2. INTERNATIONAL BUSINESS - COMPETING IN THE GLOBAL MARKETPLACE by CHARLES W HILL, ARUN KUMAR JAIN, MCGRAW HILL

Course code	DEMKT503	Course Title	MARKETING MANAGEMENT	
			CA	ETE(Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: analyze and respond to environmental and competitive changes, their impact on marketing planning, strategies and practices.

CO2: apply the conceptual frameworks, theory and techniques to various marketing contexts.

CO3: prepare marketing and sales plan appropriate to the needs of customers and contexts.

CO4: determine strategies for developing new products and services that are consistent with evolving market needs.

Unit No.	Content
Unit-1	Introduction: market and marketing, definition, nature and scope of marketing, exchange process, functions of marketing, core marketing concepts
Unit-2	Marketing orientations: evolution of modern marketing concept, holistic marketing concepts, new marketing orientations selling vs. marketing
Unit-3	Marketing mix: 7 P's & 7 C's of Marketing, 4 A's of Marketing, customer quality, value and satisfaction, Michael E. Porters chain analysis model
Unit-4	Marketing environment: Significance of scanning marketing environment; Analysis of macro environment of marketing – economic, demographic, socio-cultural, technological, political legal and ecological; Impact of micro and macro environment on marketing decisions
Unit-5	Consumer behaviour: buyer behaviour, different consumer roles, need for studying buyer behaviour, different buying motives, consumer buying decision process and influences, consumer vs. business buying behaviour, industrial buying process
Unit-6	Segmentation decisions: market segmentation, characteristics of a segment, bases for segmenting a consumer market, levels of market segmentation, factors influencing selection of market segments
Unit-7	Targeting and positioning: Benefits of market segmentation; Criteria for effective market segmentation; Target market selection and strategies; Positioning – concept, bases and process
Unit-8	Product decisions: concept and classification, layers of products, major product decisions, product-mix, new product development stages, packaging and labelling, product life cycle (PLC) – concept and appropriate strategies adopted at different stages
Unit-9	Pricing decisions: pricing – objectives, price sensitivity, factors affecting price of a product, pricing methods and strategies, ethical issues in product and pricing decisions
Unit-10	Distribution planning: channels of distribution – concept and importance, different types of distribution middlemen and their functions, selection, motivation and performance appraisal of distribution middlemen
Unit-11	Distribution decisions: decisions involved in setting up the channel, channel management strategies, distribution logistics – concept, importance and major logistics decisions, channel integration and systems, ethical issues in distribution decisions
Unit-12	Distribution decisions: retailing and wholesaling, types of retail formats, retail theories, retailing strategies, non-Store retailing, wholesaling – nature and importance, types of wholesalers, developments in retailing and wholesaling in Indian perspective
Unit-13	Promotion decisions: role of promotion in marketing, promotion mix, integrated marketing communication, concept, communication process and promotion, determining promotion mix,

	factors influencing promotion mix, developing promotion campaigns, sales promotion, direct marketing, public relations, digital and social media
Unit-14	Trends in marketing: service Marketing, e-marketing, green marketing, customer relationship management, rural marketing, other emerging trends, ethical issues in marketing

READINGS:

1. MARKETING MANAGEMENT by KOTLER, P. & KELLER, K. L. (2017), PEARSON
2. BASIC MARKETING by MCCARTHY, E. J., CANNON, J. AND PERREAULT, W. (2014), MCGRAW-HILL EDUCATION
3. MARKETING CONCEPTS AND CASES by ETZEL, M. J., WALKER, B. J., STATON, W. J., & PANDIT, A. (2010), TATA MCGRAW HILL

Course Code	DEMG581	Course Title	ORGANISATIONAL BEHAVIOUR AND HUMAN RESOURCE DYNAMICS
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WEIGHTAGES	
CA	ETE(Th.)
30	70

Course Outcomes: Through this course, the student will be able to

C01: enumerate the concept of management practices and organizational behavior.

C02: develop and sharpen acumen of how different management thoughts can be used to improve organization functioning.

C03: analyze the importance of management practices and important organizational behavior dimensions at different levels of organization.

C04: appraise the dynamics of industrial relations and to manage them as per statutory regulations.

C05: apply human resource management functions to handle emerging issues.

Unit No.	Content
Unit-1	Organizational behavior: relationship between management and organization behavior, model of OB and contributing disciplines to the OB field Foundations of individual behavior: values, attitude and job satisfaction, theories of learning and behavior modification
Unit-2	Personality: theories of personality and its assessment, transactional analysis and attribution theory of perception Emotions: emotional intelligence and affective events theory of emotion Motivation: early and contemporary theories of motivation
Unit-3	Group dynamics: group dynamics and its significance, types of groups, formation and stages of group development, group performance factors Team development: team formation, its types and difference between group and team
Unit-4	Organizational conflict and negotiations: conflict sources, types and levels of conflict, traditional and modern approaches to conflict, resolution of conflict through negotiation Stress: sources and consequences of stress, stress management techniques
Unit-5	Introduction: External and Internal Forces of environment affecting HRM, Objectives and functions of HRM. Human Resource Planning: HRP process, Barriers and Prerequisites for Successful HRP.
Unit-6	Job Analysis: Methods of Collecting Job Data, Potential Problems with Job Analysis, Process of Job Analysis, Job Design and its approaches,
Unit-7	Recruitment & Selection: Meaning, Recruitment process, Recruitment Methods, Challenges in India and Selection Process
Unit-8	Talent Management: talent management, talent retention, talent acquisition and sources of talent acquisition Orientation, induction and placement: process of orientation, induction and placement programme, Evaluation of Orientation Programme
Unit-9	Training and Development: employee training, difference in training and development, methods of training, methods of management development, people capability maturity model
Unit-10	Career planning and management: career management, process of career planning, challenges in career planning.
Unit-11	Performance management system: performance management, performance planning, performance appraisal, potential appraisal, feedback and counselling.

Unit-12	Compensation management: types and theories of compensation, concept of wages, factors influencing compensation management, incentives and fringe benefits, employee engagement and retention.
Unit-13	Managing industrial relations: major actors and their roles in IR, factors influencing IR, approaches to IR, grievance handling procedure
Unit-14	Industrial Disputes: industrial disputes, methods of settlement of industrial disputes, trade unions and their challenges in India

READINGS:

1. ORGANIZATIONAL BEHAVIOUR by STEPHEN P. ROBBINS. TIMOTHY A. JUDGE. NEHARIKA VOHRA, PEARSON
2. MANAGEMENT by MANAGEMENT by STEPHEN P. ROBBINS. MARY COULTER. NEHARIKA VOHRA, PEARSON
3. HUMAN RESOURCE MANAGEMENT by DESSLER, G. AND VARKEY, B, PEARSON

Course Code	DEFIN542	Course Title	CORPORATE FINANCE
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WEIGHTAGES	
CA	ETE(Th.)
30	70

Course Outcomes: Through this course, the student will be able to

CO1: understanding finance function with respect to its evolution and growth.

CO2: understanding the concept of Time Value of Money and interpreting the results based on calculations.

CO3: analyzing financing needs of the businesses and designing an optimum capital structure.

CO4: understanding the retention and distribution of profits and impact on business valuation.

Unit No.	Content
Unit-1	Financial Management: overview, evolution of finance, the basic goal: creating shareholder value, agency issues, business ethics and social responsibility.
Unit-2	Sources of Finance: long-term and short-term sources of finance- ordinary shares, preferences shares, redeemable irredeemable debentures, Debt vs. Equity.
Unit-3	Money Market Instruments: treasury bills, commercial papers, certificate of deposits, treasury management and treasury operations in corporate. external commercial borrowings, financing for MSMEs
Unit-4	Time Value of Money concept: compounding and discounting, future value and present value, annuities, effective interest rates.
Unit-5	Investment Decisions: capital budgeting decisions, rationale of capital budgeting, non-discounting capital budgeting techniques - payback period, profitability index, accounting rate of return.
Unit-6	Investment Decisions: discounting techniques of capital budgeting - NPV, IRR, discounting payback period method, estimation of cash flows, NPV v/s IRR, risk analysis in capital budgeting - sensitivity analysis, certainty equivalent approach.
Unit-7	Cost of Capital: meaning and concept, cost of debt, cost of equity, cost of retained earnings, calculation of WACC, international dimensions in cost of capital.
Unit-8	Financing Decisions: capital structure, theories and value of the firm - net income approach, net operating income approach, traditional approach, Modigliani miller model, determining the optimal capital structure, checklist for capital structure decisions, costs of bankruptcy and financial distress.
Unit-9	EBIT-EPS Analysis: concept of leverage, types of leverage: operating leverage, financial leverage, combined leverage.
Unit-10	Dividend Decisions: factors determining dividend policy, theories of dividend Gordon model, Walter model, MM Hypothesis.
Unit-11	Forms of Dividend: cash dividend, bonus shares, stock split, stock repurchase, dividend policies in practice.
Unit-12	Working Capital Management: working capital policies, risk-return trade-off, cash management, receivables management.
Unit-13	Corporate Governance: value-based corporate culture, disclosures, transparency and accountability, corporate governance and human resource management, evaluation of performance of board of directors, succession planning, public sector undertakings and corporate governance, Insider trading, Lessons from corporate failure.
Unit-14	Economic outlook and Business Valuation: impact of changing business environment on corporate valuation, climate change and corporate valuation, business sustainability and corporate valuation, role of environmental, social, and governance (ESG) factors in corporate valuation.

READINGS:

1. FUNDAMENTALS OF CORPORATE FINANCE by JONATHAN BERK, PETER DEMARZO & JARRED HARDFORD, PEARSON
2. CORPORATE FINANCE by STEPHEN A. ROSS, RANDOLPH W. WESTERFIELD & JEFFREY JAFFE, MCGRAW HILL

Course Code	DEOPR639	Course Title	OPERATIONS MANAGEMENT AND RESEARCH
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WEIGHTAGES	
CA	ETE(Th.)
30	70

Course Outcomes: Through this course, the student will be able to

CO1: analyze how to optimally utilize the resources.

CO2: apply the concepts in solving real life problems.

CO3: adapt different opinions and make correct judgment.

CO4: apply mathematical models to a given problem.

CO5: analyze the various decision-making environments and the tools applicable to them.

Unit No.	Contents
Unit- 1	Introduction to Operations Management and Research: introduction and scope of operation management, emerging issues in operations management, history of operations research, definitions and features of operations research approach, models and modelling in operations research, applications of operations research
Unit- 2	Forecasting: introduction, features and elements of forecasting, forecast based on judgment and opinion, forecast based on time-series data, associative forecasting techniques, concept of forecasting errors
Unit- 3	Design and layout: production of goods versus delivery of services, product-process matrix, design process, product design, service design, process types, product and service profiling, automation, facility layout, line balancing
Unit- 4	Location planning and analysis: need and nature of location decisions, factors that affect location decisions, evaluating location alternatives
Unit- 5	Management of quality: defining quality-dimensions of quality, determinants of quality, the cost of quality, quality tools, total quality management, inspection, control charts for variables (mean and range chart), control charts for attributes (p-chart, c-chart), run test
Unit- 6	Planning: Aggregate Production Planning; Master Production Schedule and MRP, MRP-II, ERP
Unit- 7	Inventory management: nature and importance of inventories, inventory counting systems and inventory costs, economic production quantity, quantity discounts, EOQ model
Unit- 8	Supply chain management: need, elements, and benefit of effective SCM, logistics and reverse logistics, requirements, and steps for creating an effective supply chain, lean vs. agile supply chains
Unit- 9	JIT and lean operations: goals and building blocks of lean systems
Unit- 10	Linear Programming: general mathematical model of linear programming, linear programming formulation, graphical solution, simplex method, Big M method, special cases
Unit- 11	Assignment and transportation problem: Hungarian Assignment Model (HAM), special cases in assignment problem, Initial Basic Feasible Solution (IBFS) i.e. NWCM, LCM and VAM Method, optimization using stepping stone and MODI, special cases including concept of degeneracy
Unit- 12	Project Management and Queuing Theory: difference between PERT and CPM, PERT problem with three time estimates and concept of probability, basic concepts and parameters of a queuing model, m/m/1 model characteristics
Unit- 13	Game Theory: basics, saddle point, mixed strategies including odds, dominance, sub games and graphical method

Unit- 14	Decision Theory: basics including decision making environments, decision making under risk, expected value of perfect information, decision making under uncertainty, concept of decision trees, decision tree analysis
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READINGS:

1. OPERATIONS MANAGEMENT by WILLIAM J STEVENSON, MCGRAW HILL EDUCATION
2. OPERATIONS MANAGEMENT by NORMAN GAITHER, GREGORY FRAZIER, CENGAGE LEARNING

Course code	DEMGN801	Course Title	BUSINESS ANALYTICS	
			WEIGHTAGES	
			CA	ETE(Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: apply quantitative modelling and data analysis techniques to problems of real world.

CO2: employ best practices in data visualization to develop charts, maps, tables, and other visual representations techniques to communicate findings to diverse audiences.

CO3: identify and describe complex business problems in terms of analytical models.

CO4: apply appropriate analytical methods to find solutions to business problems that achieve stated objective.

Unit No.	Content
Unit 1	Business analytics and summarizing business data: Overview of business analytics: scope, application, R-studio environment for business analytics, basics of R: packages, vectors, datatypes and data structures
Unit 2	Summarizing business data: One variable and two variables statistics, concept of pipes operator, functions to summarize variables: select, filter, mutate, arrange, summarize and group by
Unit 3	Business data visualization: Basic graphs: bar-graph, line-chart, histogram, box and scatterplot, advanced data visualization: graphics for correlation, deviation, ranking, distribution and composition
Unit 4	Business forecasting using time series: Time series modelling, exploration of time series data using R, ARIMA, GARCH, VAR methodologies for time series analysis
Unit 5	Business prediction using generalised linear models: Logistic regression and statistical inference with application, survival analysis and its application
Unit 6	Machine learning for businesses: Supervised models: K-NN and decision trees, unsupervised models: K-means and hierarchical clustering, classification and prediction accuracy
Unit 7	Text analytics for business: Creating and refining text data, inferences through graphs, topic modelling and TDM analysis, sentiment analysis
Unit 8	Business intelligence: Introduction to business intelligence, role of data and data base management, role of data mining in business strategy
Unit 9	Data visualization: Role of visualization in business intelligence, introduction to charts, graphs and maps
Unit 10	Data environment and preparation: Managing metadata, extracts and live data, cross database joints and union
Unit 11	Data blending: Data prep with text and excel files, understating data types, extracting data from various file formats
Unit 12	Design fundamentals and visual analytics: Filters, sorting, groups and sets, interactive filters, forecasting, use of tooltip, reference line, parameter, drill down and hierarchies
Unit 13	Decision analytics and calculations: Types of calculations, logic calculations (including if comment, nested if command etc.), data calculations, string calculations
Unit 14	Mapping: Role of maps in business intelligence and visualization, editing unrecognized locations

READINGS:

1. R FOR EVERYONE: ADVANCED ANALYTICS AND GRAPHICS by JARED P. LANDER, PEARSON
2. VISUAL DATA STORYTELLING WITH TABLEAU by LINDY RYAN, PEARSON
3. TEXT MINING WITH R: A TIDY APPROACH by JULIA SILGE AND DAVID ROBINS, SHROFF PUBLISHERS & DISTRIBUTORS PVT. LTD
4. MASTERING TABLEAU by DAVID BALDWIN AND MARLEEN MEIER, PACKT PUBLISHING

Course code	DEMGN832	Course Title	RESEARCH METHODOLOGY
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WEIGHTAGES	
CA	ETE(Th.)
30	70

Course Outcomes: Through this course, the student will be able to

CO1: identify critical thinking and scientific approaches to formulate research problems.

CO2: describe research design approaches, methods and conceptual differences to apply across different research contexts.

CO3: generalize familiarity with a phenomenon or to achieve new insights into it.

CO4: interpret results generated from data analysis and report the findings.

Unit No.	Content
Unit 1	Background of research- Developing research proposals, research paradigms- contributions of research to theory and practice and research ethics
Unit 2	An introduction to research- Meaning, process, defining, research problem: selection, understanding and necessity of defined problem, research design, need and types of Research Design
Unit 3	Reviewing literature- Identifying, accessing and managing sources of information and scholarly literature, academic writing and referencing and steps in literature review development
Unit 4	Types of data in research- Primary and secondary data and sources, nature of qualitative and quantitative research, data and variables used in qualitative and quantitative methods, writing up qualitative research
Unit 5	Sampling design- Sampling design process, characteristics of good sample, types of sampling design, sampling techniques- random and non-random
Unit 6	Measurement and scaling technique: Tools of sound measurement, techniques of developing measurement tools, scaling meaning and important scaling techniques, statistical properties of different scales
Unit 7	Data collection methods- Observation, experimentation and survey methods, questionnaire: introduction, design process and coding the questionnaire
Unit 8	Descriptive statistics and time series- Measures for central tendency- ungrouped and ungrouped data, dispersion and distribution, index number and time series analysis
Unit 9	Hypothesis testing- Hypothesis definition and process, types and hypothesis testing procedure for t and z tests differences for single, two populations and paired sample
Unit 10	Test of association- Correlation coefficient- Spearman rank and Karl's Pearson and test of association between nominal data- Chi-square test
Unit 11	Analysis of Variance (ANOVA) and prediction techniques- Analysis of variance for mean difference, reliability and validity, bivariate regression and multiple regression analysis
Unit 12	Multivariate analysis- Classification, important methods of factor analysis, factor analysis procedure, rotation in factor analysis, overview of cluster analysis, discriminant analysis, multi-dimensional scaling and conjoint analysis
Unit 13	Reporting a quantitative study- Technique and precaution of interpretation, significance of report writing, layout and types of report
Unit 14	Writing research proposals- Purpose, nature and evaluation-Content and format- Practical considerations- timelines, budgets, supervision management- Presentation and defense of proposals

READINGS

1. BUSINESS RESEARCH METHODS by NAVAL BAJPAI, PEARSON
2. MARKETING RESEARCH by NARESH K MALHOTRA, PEARSON
3. MARKETING RESEARCH: TEXT AND CASES by NARGUNDKAR, R., MCGRAW HILL
EDUCATION

Course code	DEBSL605	Course Title	LEGAL ASPECTS OF BUSINESS
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WEIGHTAGES	
CA	ETE(Th.)
30	70

Course Outcomes: Through this course, the student will be able to

C01: apply the statutory provisions related to Contract Act and Sales of Goods Act in business organizations.

C02: use legal rights and remedies by applying the provisions related to Consumer and Intellectual Property Rights.

C03: analyze the legal issues related to Negotiable Instruments.

C04: interpret the legal implications of FEMA and Competition Act in designing various business policies and strategies.

C05: develop the understanding of Company form of business organization from its incorporation to winding up.

Unit No.	Content
Unit 1	Indian Contract Act, 1872: essentials of contract, kinds of contract, free consent, discharge of contract, breach of contract
Unit 2	Sale of Goods Act, 1930: contract of sale, conditions and warranties, rights of unpaid seller
Unit 3	Consumer Protection Act 2019: introduction and objectives, rights of consumers, redressal machinery
Unit 4	Intellectual Property Rights: patents, copyrights, trademarks, trade secrets, geographical indications, traditional knowledge, digital library, intellectual property infringement
Unit 5	Negotiable Instruments Act, 1881: characteristics and kinds of Negotiable Instruments, comparison between promissory note, bill of exchange and cheque
Unit 6	FEMA Act, 1999: introduction, definitions, regulation and management of Foreign Exchange
Unit 7	Competition Act, 2002: definitions, anti-competitive agreements, abuse of dominant position, Combinations
Unit 8	Companies Act, 2013 (preliminary): company and its characteristics, kinds of companies, limited liability partnership, formation of a company
Unit 9	Company Documents: Memorandum of Association, Articles of Association, Doctrine of constructive Notice, Doctrine of Indoor management
Unit 10	Prospectus: types of prospectus, legal consequences of misstatement in prospectus
Unit 11	Raising of Capital: Share and share capital, Alteration of share capital, Borrowing powers and charges
Unit 12	Company Management: appointment and removal of directors
Unit 13	Company Meetings: essentials of a valid meeting and types of meeting
Unit 14	Company winding up: modes of winding up under IBC Act and compulsory winding up under Companies Act, 2013

READINGS:

1. ELEMENTS OF BUSINESS LAW by N.D KAPOOR, SULTAN CHAND & SONS (P) LTD.
2. A TEXTBOOK OF COMPANY LAW by P. P. S. GOGNA, S CHAND PUBLISHING
3. A HANDBOOK ON CORPORATE AND OTHER LAWS by CA CS MUNISH BHANDARI,

BESTWORD PUBLICATIONS PVT. LTD.

4. LEGAL ASPECTS OF BUSINESS: CONCEPTS AND APPLICATIONS by PARUL GUPTA,
VIKAS PUBLISHING HOUSE

Course code	DEPEL537	Course Title	COMMUNICATION FOR LEADERS	
			CA	ETE(Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1:develop critical thinking skills employed in small groups and publicspeaking.

CO2:compose business communication documents with structural precision and verbal accuracy.

CO3:formulate business queries and respond to any reason related to the business situation.

CO4:use semantic and syntactic structure as per the advanced level of Common European Framework.

CO5:employ their reading speed and comprehension of business articles.

CO6:demonstrate consistent and appropriate language use in extended conversations and discussions.

Unit No.	Content
Unit 1	Listening- understanding vocabulary and context: matching phrases and words with definitions, taking notes and completing them, understanding phrases and expressions in context
Unit 2	Listening for Details: filling missing details, interpreting listening tracks, identifying key and supporting ideas, taking detailed notes on information
Unit 3	Tenses, Clauses and transitional words or phrases: usage of defining and non-defining relative clauses, pronoun problems, usage of as or like, future time clauses, usage of tenses, infinitives, reference devices, position of adverbs, transitional markers,
Unit 4	Sentences: cleft sentences, synthesis of sentences, complex sentences, conditional sentences, alternatives to if
Unit 5	Vocabulary: one word substitution for a definition, abbreviations, antonyms, synonyms, connotative and denotative meanings, contextual use of words and phrases, substitution, collocation, concession words and phrases
Unit 6	Idioms and Proverbs: phrasal verbs, meaning and usage of idioms and proverbs, formal and informal usage of language
Unit 7	Reading Skills: types of texts – narrative, descriptive, extrapolative, essential skills for reading comprehension – decoding, fluency, vocabulary, reasoning and background knowledge, reading techniques
Unit 8	Comprehension Skills: identifying errors and superfluous words, identifying co-relation of sentences and paragraphs, finding supporting ideas, identifying purpose, different strategies of comprehension, reading texts of different genres and of varying length, reading and interpreting non-linguistic texts, reading and understanding incomplete texts
Unit 9	Group Discussion: brainstorming ideas, taking stance, working in groups and enacting roles, showing agreement and disagreements, discussing possible scenarios, discussing various business possibilities, argument building for persuasion
Unit 10	Presentation Skills: do's and don'ts of presentation skills, presenting information and business proposals, making a short talk
Unit 11	Role Play and debate: useful vocabulary and phrases, assuming and reacting in different business scenarios, interviewing a partner, debate, group-forecasting, negotiation skills, debating pros and cons of a business decision
Unit 12	Writing Techniques and Strategies: types of writing, cohesion and coherence, expansion of ideas, thesis sentence, expansion of given sentence, reorganizing jumbled sentences into a coherent paragraphing, writing style and techniques
Unit 13	Writing: summarizing, explanation of points, paragraph writing, précis writing, essay writing

Unit 14**Business Correspondence:** formats of business correspondence, writing and replying to memo, notice, note, letter, report, and proposal**READINGS:**

1. BUSINESS BENCHMARK- ADVANCED by GUY BROOK- HART, CAMBRIDGE PUBLICATIONS
2. ADVANCED ENGLISH GRAMMAR by MARTIN HEWINGS, CAMBRIDGE UNIVERSITY PRESS
3. THE MCGRAW-HILL HANDBOOK OF ENGLISH GRAMMAR AND USAGE by MARK LESTER, LARRY BEASON, MC GRAW HILL

Course Code	DEMG551	Course Title	SPREADSHEET MODELLING USING EXCEL
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WEIGHTAGE		
CA	ETE (Th.)	ETE(Pr.)
30	0	70

Course Outcomes: Through this course, the student will be able to

C01:

demonstrate the principles of a good spreadsheet design and effectively present the analysis and results.

C02:

obtain basic knowledge of commonly used analytic tools in processing quantitative information and making quantitative business decisions.

C03:

analyze data using excel functions and various data management tools in order to gain greater insight into key business drivers.

C04:

develop robust and dynamic models that automatically change through the use of text, date and time functions.

C05: develop VBA spreadsheet-based solutions to financial problems.

C06:

apply macros for automating tasks in spreadsheet for efficient decisions and effectively present the analysis and results.

Unit No.	Content
Unit 1	Introduction to Spreadsheets: history and importance of spreadsheet, navigating a spreadsheet
Unit 2	Spreadsheet Basics: crafting formulas, common errors in spreadsheets, differences between Sheets and Excel
Unit 3	Basic functions and utilities I: data entry, introduction to fill handles
Unit 4	Basic functions and utilities II: managing rows and columns, protecting worksheets and workbooks
Unit 5	Spreadsheet Calculations: Introduction to range, absolute and relative references
Unit 6	Spreadsheet Formulae and Functions: formulas and functions, calculation across sheets
Unit 7	Formatting Spreadsheets I: formatting the excel sheet, introduction to borders
Unit 8	Formatting Spreadsheets I: alignment tools, introduction to number formats
Unit 9	Data Analysis: find and replace functions, text functions, filtering, sorting, conditional formatting
Unit 10	Spreadsheet Printing: introduction to spreadsheet printing, print preview and adjustments, orientation, margins and scale, headers and footers
Unit 11	Charts and Graphs: basic chart types, move and resize charts, change chart styles and

	types, Modification in chart elements
Unit 12	Elementary Modelling: IF statement analysis, nested if, COUNTIF and COUNTIFS, SUMIF and SUMIFS, AVERAGEIF and AVERAGEIFS
Unit 13	Lookup Functions: Vlookup, Hlookup, Index and match function
Unit 14	Pivot Table and its Applications: introduction to pivot table, filter data using slicers in multiple pivot table, visualize aggregate data using pivot table
Unit 15	VBA Macros programming I: create and record macro in spreadsheet, Msg box, declaring variables, writing a subroutine and function in VBA
Unit 16	VBA Macros programming II: IF Then statement, Case statement, For loop, While loop and Do until, worksheet and range object
Unit 17	Sensitivity Analysis: goal seek, data table, scenario Analysis
Unit 18	Simulation and Optimization: Monte Carlo simulations, introduction to solver, linear programming for optimization, Intrinsic value calculation models
Unit 19	Excel dashboard: introduction, Differences from Reports, creating a dashboard
Unit 20	Excel dashboard: Best practices for creating visually effective Excel Dashboards, Improve your Excel Dashboard, Excel Dashboards Do's and Don'ts

List of Practicals/Experiments:

Basic spreadsheet functions	• basic functions and utilities
	• text functions
	• sorting and filtering data
	• graphs
Elementary modelling I	• if statement analysis
	• countif, countifs, sumif, sumifs
	• conditional formatting
Elementary modelling II	• lookup functions
	• pivot table and its applications
	• filter data using slicers in multiple pivot table
	• dashboard: visualize aggregate data using pivot table
Sensitivity analysis	• goal seek
	• data table
	• scenario analysis
Macros	• recording macros
	• running macros
	• use relative references in macros
	• deleting recorded macros
VBA macros programming	• create and record macro in spreadsheet
	• msgbox, declaring variables
	• writing a subroutine and function in vba
	• if then statement, case statement
	• for loop, while loop and do until
	• worksheet and range object

READINGS:

1. THEHYPERDOCHANDBOOK:DIGITALLESSONDESIGNUSINGGOOGLEAPPSbyLISAHIGHFILL,KE
LLYHILTON,SARAHLANDIS,EDUCREATIONPUBLISHING
2. GOOGLEDRIVEANDDOCSIN30MINUTESbyIANLAMONT,EDUCREATIONPUBLISHING

Course Code	ECAP399	Course Title	MANAGING INFORMATION SYSTEM
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WEIGHTAGES	
CA	ETE(Th.)
30	70

Course Outcomes: Through this course, the student will be able to
 CO1: discuss the basic concepts of managing an information system.
 CO2: understand concept of redesigning the organization with information systems.
 CO3: demonstrate the security and control of information systems.
 CO4: identify data resources and IT usage on different platforms.

Unit No.	Content
Unit-1	Managing the digital firm: Digital convergence and the changing business environment, perspectives on information systems, business perspective on information systems
Unit-2	Dimensions of information systems: Contemporary approaches to information systems, learning to use information systems, new opportunities with technology
Unit-3	Information system in the enterprise: Major types of systems in organizations, four major types of systems, relationship of systems to one another, systems from a functional perspective
Unit-4	Information technology infrastructure and platforms: Levels of IT infrastructure, evolution of IT infrastructure, technology drivers of infrastructure evolution, infrastructure components
Unit-5	Managing data resources: Organizing data in a traditional file environment, the database approach to data management, types of databases, hierarchical and network DBMS, object-oriented databases, designing databases, distributing databases, database trends
Unit-6	Data processing: Data warehouses and data mining, the web and the hyper media databases, linking internal databases to the web, cost benefit consideration, data administration
Unit-7	Managing knowledge in the digital firm: The knowledge management landscape, important dimensions of knowledge, knowledge management value chain
Unit-8	Types of knowledge management systems: Types of knowledge management systems, enterprise-wide management systems, structured and semi structured knowledge systems, knowledge network systems
Unit-9	Knowledge work systems: Knowledge workers and knowledge work, requirements of knowledge work systems, intelligent techniques, expert systems, case-based reasoning, fuzzy logic systems, neural networks, genetic algorithms, hybrid AI systems, intelligent agents
Unit-10	Enhancing decision making for the digital firm: Decision making & decision support systems, systems for decision support, group decision support systems, executive support in the enterprise, management opportunities challenges & solutions
Unit-11	Redesigning the organization with information systems: Systems as planned organizational change, business process re-engineering & process improvement, overview of systems development, system analysis, systems design, alternative system building approaches, traditional systems life cycle, proto typing, end user

	development
Unit-12	Information systems security & control: Internet vulnerabilities, systems vulnerability & abuse, wireless security challenges, malicious software, hackers and cyber vandalism, computer crime and cyber terrorism, business value of security & control, technologies & tools for security and control, access control, firewalls, intrusion detection systems, encryption and public key infrastructure
Unit-13	Business functions and processes: Functional areas of operation, business processes development and related technologies, significance of developing ERP, radio frequency identification, mobile technology
Unit-14	Marketing information systems: marketing, sales, customer relationship management system, sales order process
Unit-15	Production and supply chain management information systems: production, approach towards planning, supply chain management, accounting in enterprise resource planning, accounting concept, concept of finance, financial accounting, managerial accounting
Unit-16	ERP modules: MRP-II, plant maintenance module, quality management module, supplier performance module
Unit-17	ERP lifecycle implementation-I: ATO, MTO, CTO, ETO, reengineering, Gap analysis, project planning, pre-evaluation screening
Unit-18	ERP market-I: Case study Oracle at CISCO system, SAP and its technologies, Baan, Oracle, QAD, SSA, faster implementation methodologies, new market and channels
Unit-19	Cycle time and lead time: CAD/CAM, MRP, DPR, reduction in cycle time, lead time and cost, improved resources utilization
Unit-20	Introduction to Big Data: Data, Definition of Big Data, understanding the four v's, building models to understand the occurrence of rare events in data, understand the characteristics of web and social networks

READINGS:

1. MANAGEMENT INFORMATION SYSTEMS-MANAGING THE DIGITAL FIRM by KENNETH C. LAUDON & JANE P. LAUDON, PEARSON
2. MANAGEMENT INFORMATION SYSTEM, CONCEPTUAL FOUNDATIONS, STRUCTURE & DEVELOPMENT by GORDAN B. DAVIS AND MARGRETTE H. OLSAN, MCGRAW HILL EDUCATION
3. MANAGEMENT INFORMATION SYSTEMS by RAMESH BEHL, JAMES A. OBRIEN, GEORGE M. MARAKAS, MCGRAW HILL EDUCATION

Course Code	DECAP51 7	Course Title	DATABASEMANAGEMENTSYSTEMS						
			WEIGHTAGE						
			<table border="1"> <tr> <td>CA</td> <td>ETE(Th.)</td> <td>ETE (Pr.)</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">40</td> <td style="text-align: center;">30</td> </tr> </table>	CA	ETE(Th.)	ETE (Pr.)	30	40	30
CA	ETE(Th.)	ETE (Pr.)							
30	40	30							

Course Outcome

CO1:analyze the relational data base model to understand the Logical and Physical aspects of the DBMS architecture

CO2:apply refined queries to fetch information from large datasets.

CO3:understand the normalization theory and apply such knowledge to normalization of a database.

CO4:apply and relate the concept of transaction, concurrency control and recovery in database.

CO5:describe the principles of storage structure and recovery management.

CO6:discuss distributed databases and be familiar with cloud databases.

Unit No.	Contents
Unit1	IntroductiontofundamentalsofDBMS: Databaseapplications,Purposeofdatabase systems,ComponentsofDBMS,DBMSArchitecture,DifferentDataModels,DataIndependence, Various types of constraints.
Unit2	Database design and ER model: Overview of Design process, Entity relationship model, constraints, ER Diagrams, ER Design issues, Weak entity sets, extended ER features
Unit3	Relational Databases: Relational Model, Structure of Relational databases, fundamental, additionalandextended
Unit 4	Relationalalgebraoperations: Views,DDLstatementsinSQL, DMLstatementsinSQL, JOINS
Unit5	SQL (DDL): Implementation of Data Definition Language, data types, schema definition, Basic structure of SQL Queries- CREATE, ALTER, DROP and RENAME, TRUNCATE.
Unit6	SQL(DML): DMLcommands-SELECT,INSERT,DELETEandUPDATEoperations, implementationofconstraints,implementationofjoins,Nestedsubqueries,Complex queries, Views, Joined relations.
Unit7	Relationallanguages: TupleRelationalcalculus,Domainrelationalcalculus,Queryby Example,Datalog.
Unit8	SetOperations: UNION,INTERSECT,EXCEPT,AggregateFunctions, NULL values.
Unit9	Relational Database Design: Features, Atomic Domains and first normal form, Functional dependency theory decomposition using functional dependencies, decompositionusing
Unit 10	Multivalueddependencies: morenormalforms,databasedesign process.
Unit11	ConcurrencyControl: Lockbasedprotocols,Timestampbasedprotocols,and Validation basedprotocols,Deadlockhandling,InsertandDeleteoperations,Weaklevelsof consistency.

Unit12	SQL(DCL/TCL): implementationofGRANT,REVOKE,ROLLBACK,COMMIT,SAVEPOINT, implementationofaggregatefunctions
Unit 13	Implementationofinbuiltcharacter: functions, implementationofinbuiltnumericfunctions,implementationofinbuiltdate&timefunctions
Unit14	Recovery system: Failure classification, storage structure, recovery and atomicity, log- based recovery
Unit 15	Recovery with concurrent transactions: buffer management, failure with loss of non-volatile storage
Unit16	Distributed Databases: Distributed Databases, Data Fragmentation, Replication and Allocation Techniques, Semi Join, Homogeneous and Heterogeneous Databases, Distributed Data Storage, Distributed Transactions
Unit17	Cloud-Based Databases: From collaborative to the Cloud – A short history, Introduction to Client – Server Computing, Peer-to-Peer Computing
Unit18	Distributed Computing: Grid Computing, Collaborative Computing, Cloud Computing. Functioning of Cloud Computing, Differences between Distributed computing and Cloud computing
Unit19	TransactionManagement: ConceptofTransaction,TransactionState,Implementation ofatomicityanddurability,concurrentexecution,Serializability,Recoverability, Implementation of Isolation, testing for Serializability.
Unit20	Introduction to PL/SQL: introduction to PL/SQL blocks, conditional statements, loops, cursors and triggers.

LABORATORYWORK:

1. SQL(DDL):ImplementationofDataDefinitionLanguage,datatypes,schemadefinition,Basicstructureof SQL Queries- CREATE, ALTER, DROP, RENAME, TRUNCATE.
2. SQL(DML):DMLcommands- SELECT,INSERT,DELETEandUPDATEoperations,implementationof constraints, implementation of joins, Nested sub queries, Complex queries, Views, Joined relations.
3. SQL (DCL/TCL): implementation of GRANT, REVOKE, ROLLBACK, COMMIT

READINGS:

1. H.F.KORTH&A.SILBERSCHATZ,DATABASESYSTEMCONCEPTS,PUBLISHERS:TATAMCGRAWHILL, NEW DELHI, YEAR 2006
2. IVANBAYROSS,SQL,PL/SQLTHEPROGRAMMINGLANGUAGEOFFORACLE,BPBUBLICATION.
3. ELMASRI&NAVATHE,FUNDAMENTALSOFDATABASESYSTEMS,ADDISON&WELSELY,NEWDELHI.
4. C.J.DATE,DATABASESYSTEMS,PRENTICEHALLOFINDIA,NEWDELHI.
5. P.BHATIA&G.SINGH,SIMPLIFIEDAPPROACHTODBMS,KALYANIPUBLISHERS.
6. MARTINGRUBER,UNDERSTANDINGSQL,BBPUBLICATION,NEWDELHI.
7. VALOCCARDI,RELATIONALDATABASE:THEORY&PRACTICE,BBPUBLICATION,NEWDELHI.

Course Code	DECAP518	CourseTitle	DATA ANALYTICS WITH PYTHON
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WEIGHTAGE		
CA	ETE (Th.)	ETE(Pr.)
30	0	70

Course Outcomes: Through this course, the student will be able to

C01: understand the basic structure and features of Python programming.

C02: interpret object-oriented programming concepts such as encapsulation, inheritance and polymorphism as implemented in Python.

C03: apply pandas and NumPy for data analysis.

C04: implement machine learning algorithms.

C05: analyze real-life situation specific problems and perceive solutions.

C06: build exploratory data analysis and visualizations.

Unit No.	Content
Unit- 1	Python basics: Introduction, data types and operators
Unit- 2	Control Statements and functions: conditional statements, branch statements and loop statements, types of functions
Unit- 3	Python data structures: strings, lists, sets, tuples and dictionaries
Unit- 4	OOP concepts: OOP features, encapsulation, inheritance
Unit- 5	More on OOP concepts: function overloading, operator overloading and method overriding,
Unit- 6	Exception handling: catching exceptions, catching multiple exceptions, raising exceptions, custom exception
Unit- 7	Introduction to NumPy: arrays vs lists, array creation routines, arrays from existing data, indexing and slicing
Unit- 8	Operations on NumPy arrays: array manipulation, broadcasting, binary operators
Unit- 9	NumPy functions: mathematical functions, statistical functions,
Unit- 10	NumPy functions for sorting, searching and counting functions
Unit- 11	Handling data with pandas: Introduction to pandas, series, Dataframe, sorting
Unit- 12	Working with csv File using NumPy, Operations on files using NumPy
Unit- 13	Data cleanup: Investigation, matching and formatting
Unit- 14	Data visualization: Introduction to matplotlib, line plot, multiple subplots in one figure
Unit- 15	More about Data visualization: bar chart, histogram, box and whisker plot,
Unit- 16	More about Data Visualization: scatter plot, pie charts
Unit- 17	Introduction to seaborn: seaborn, seaborn Vs matplotlib, data visualization using seaborn
Unit- 18	Machine learning: Introduction, types of machine learning
Unit- 19	Machine learning algorithms: linear regression, k-nearest neighbors
Unit- 20	More about ML: decision trees, random forests, k-means clustering

LABORATORY WORK:

Implementation of Python programming concepts (control statements, functions, strings, lists, sets, tuples, dictionaries, OOP concepts, exception handling, NumPy arrays and functions, pandas, data visualization, machine learning algorithms)

READINGS:

1. PROGRAMMING AND PROBLEM SOLVING WITH PYTHON by ASHOK KAMTHANE, AMIT ASHOK KAMTHANE, MCGRAW HILL 2ND EDITION

2. HANDS-ON DATA ANALYSIS WITH NUMPY AND PANDAS by CURTIS MILLE, KINDLE EDITION
3. PYTHON FOR DATA ANALYSIS by WES MCKINNEY, O'REILLY MEDIA
4. MACHINE LEARNING FOR ABSOLUTE BEGINNERS by OLIVER THEOBALD, KINDLE EDITION

Course code	DEMG571	Course Title	CORPORATE STRATEGY AND ENTREPRENEURSHIP
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Course Outcomes: Through this course, the student will be able to

CO1: integrate understanding of functional aspects of management and explore their contribution to strategic management within organizations.

CO2: appraise the importance of environmental and industry analysis in formulating strategy.

CO3: analyze the role of marketing, accounting, finance, operations management and human resource management in strategy formulation.

CO4: evaluate strategic alternatives.

CO5: evaluate the role of leadership, organizational structure and organizational culture in strategy implementation.

CO6: develop marketing plan, operations plan, HR plan and financial plan for new business ventures.

Unit No.	Content
Unit-1	Overview of strategic management: Strategic management, dimensions of strategic decisions, benefits of strategic management, strategy, strategic management process, mission, vision
Unit-2	External & Internal analysis: Firm's external environment, remote environment, industry environment, operating environment, SWOT analysis, internal factors, external factors, discovering core competencies, value chain, resource-based view, the internal analysis tool- Vrio framework, benchmarking, types of benchmarking, external factor evaluation matrix, internal factor evaluation matrix, competitive profile matrix
Unit-3	Corporate level strategies: Growth strategy, integration strategy, diversification strategy, turnaround strategy, defensive strategy
Unit-4	International strategy: Globalization, global strategic management, strategic orientations of global firms, competitive strategies in foreign market, management contracts, turnkey operations, equity alliance, globalization & India
Unit-5	Business level strategies: Business level strategies/generic strategies, evaluating & choosing business strategies, dominant product/service building value
Unit-6	Multi-business strategy & strategy implementation: Portfolio strategy, the synergy approach, parenting approach, patching approach, strategy implementation, organization culture
Unit-7	Evaluation, control & contemporary issues: Strategic evaluation & control, balanced scorecard, corporate governance, business ethics, social responsibility, environmental sustainability
Unit-8	Strategic management and entrepreneurship: Strategic management for start-ups, strategies for growing and maturing businesses, strategies for technology-oriented businesses
Unit-9	Latest trends in entrepreneurship: Social entrepreneurship, intrapreneurship, women entrepreneur, challenges and strategic solutions for problems faced by entrepreneurs in India
Unit-10	Overview of business plan: Components of a business plan, business ideas, business ideas selection, feasibility study, legalities involved for business plan, forms of ownership, SWOT analysis
Unit-11	Strategic marketing plan: Market segmentation, targeting & positioning, marketing mix, product mix, promotions mix, marketing communication, pricing

	strategies
Unit-12	Strategic operations plan: Operations plan, people and suppliers, manufacturing or outsourcing, plant location, plant layout, inventory management
Unit-13	Strategic human resources plan: Manpower planning, organizational structure, recruitment & selection, training & development, motivational techniques, performance appraisal
Unit-14	Strategic financial plan: Types of industrial finance, working capital, breakeven analysis, balance sheet, cash flow statement, payback period, return on investment

READINGS:

1. STRATEGIC MANAGEMENT by JOHN PEARCE II, RICHARD B ROBINSON, AMITA MITAL, MCGRAW HILL EDUCATION
2. ENTREPRENEURSHIP by ROBERT D HISRICH, MICHAEL P PETERS AND DEAN A. SHEPHERD, MCGRAW HILL EDUCATION

Course code	DECAP782	Course Title	ADVANCE DATA VISUALISATION
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WEIGHTAGE		
CA	ETE (Th.)	ETE(Pr.)
30	40	30

Course Outcomes: Through this course, the student will be able to

CO1: discuss the terminology used in Tableau Prep.

CO2: identify how Tableau Prep approaches data sampling.

CO3: construct and understand data prep flows that address common scenarios encountered in data preparation, as applied to common data use cases.

CO4: review the quality of the data and perform exploratory analysis.

Unit No.	Content
Unit 1	Introduction to Data Visualization: Acquiring and Visualizing Data, Simultaneous acquisition and visualization, Applications of Data Visualization, Keys factors of Data Visualization. Reading Data from Standard text files (.txt, .csv, XML), Displaying JSON content. Data visualization tools.
Unit 2	Introduction to TABLEAU: Installation of TABLEAU, Tableau Interface Data Types, Tableau features
Unit 3	Tableau Data Sources: Connecting data with tableau, joining data sources, combine data sources using data blending, Creating and Using Sets, Creating & using Parameters
Unit 4	Basic Visualizations: Creating Basic Visualizations, Creating Groups, Bar chart, Geographic map, Crosstab report, Scatter plot, Line chart
Unit 5	Creation of Hierarchies: Create hierarchies to drill down into data, creating groups for data, Creating and Using Sets Create data filters, create calculated fields, combine data sources using data blending, Creating & using Parameters, Bringing in More data with Joins
Unit 6	Advance Data Visualization/Graph: Bar Chart, Stacked Bar Chart, Bar in Bar Chart. Combo Chart, Line Chart, Single Axis, Dual Axis, Blended Axis, Dual Axis Chart, Line, Bar Lollipop Chart, Donut, Bullet Graph, Histogram Chart, Animated Graph
Unit 7	Building View Advance Map Option: Explain latitude and longitude, Default location/Edit locations, Symbol map & Filled Map, Map Layer, Image in map, Map option.
Unit 8	Tableau Calculations & Filters: Calculated Fields, Basic Approach to Calculate Rank, Advanced Approach to Calculate Rank, Calculating Running Total, Filters Introduction, Quick Filters, Filters on Dimensions, Conditional Filters, Top and Bottom Filters, Filters on Measures, Context Filters, Slicing Filters, Data Source Filters, Extract Filters
Unit 9	Managing, organizing and enhancing data in tableau: Splitting data, Pivoting & Transforming data, Blue & green pills Filters, Blue & green pills effect on dates, cleaning data by Bulk Re-aliasing, setting data defaults, create hierarchies to drill down into data, Creating groups for data, Create calculated fields
Unit 10	Making Comparisons and Basic Calculation: Sorting, Calculation – String, Basic, Date and Logic, Continuous and Discrete data, Working with Dates, Creating calculated Fields i. Logical Function ii. Case if Function iii. ZN Function iv. Else if Function v. Ad-hoc Function, Manipulating Text – left and right function
Unit 11	Advance Calculation: Table Calculation, Running total, Percent, Percent total, Year over Year Growth, LOD i. Include ii. Exclude iii. Fixed
Unit 12	Analytical Topic/Capability: Trend Line, Forecasting, Cluster, Reference Line, Box Plot (Understanding Outliers in Data), Distribution Band, Reference Band

Unit 13	Interactive Dashboards Tableau: Creating a dashboard, designing dashboard, add motions, adding interactivity with actions, Dashboard layout and formatting, add extra detail to visualization using Marks Shelf, Add Size, Shape, Labels
Unit 14	Sharing Your Dashboard: Publishing to PDF, Exporting to Pivot Table and Images, Exporting Packaged workbooks, Tableau Reader, Tableau Online, Tableau Server, Tableau Public, Version Control, Publishing to Tableau Server
Unit 15	Designing with Tableau: Story Points and how to create them, designing effective slide presentations to showcase data story, publish online business dashboards with Tableau, Exporting Pdfs, Sharing Dashboard Securely
Unit 16	Mathematical and visual analytics in tableau: Aggregate calculations, Date calculations, Logic calculations, Number calculations, String calculations, Type calculations, LOD Expressions, Add reference lines and trend lines
Unit 17	Advanced Data Modeling: Data Modeling, The Broader Tableau Ecosystem, Data Preparation: Where and When
Unit 18	Making charts interactive and animated: Data joins, updates and exits, interactive buttons, updating charts, adding transactions, using keys, wrapping the update phase in a function, adding a Play button to the page, Making the Play button go, Allow the user to interrupt the play, sequence. Visualization of groups, trees, graphs, clusters, networks, software, Metaphorical visualization
Unit 19	Visualization of Data with advanced technology: Visualization data with advanced analytics Polygon Maps, Bump Charts, Control charts, Funnel charts, Pareto charts, Waterfall charts, Usage and filtration of data with charts, visualizing categorical data, visualizing time series data, visualizing multiple variables, Visualizing geospatial data, Map box integrations, Web Mapping Services, Background Images
Unit 20	Projects: Financial Analysis Dashboard, HR Analysis Dashboard, Market Analysis Dashboard, Tourism Analysis Dashboard, New Business Analysis Dashboard, Banking Sector Analysis, Issue & Bug reporting Analysis, Population Trend Analysis

READINGS:

1. DESIGNING DATA VISUALIZATIONS: REPRESENTING INFORMATIONAL RELATIONSHIPS by JULIE STEELE, NOAH ILIINSKY, KINDLE EDITION
2. MASTERING PYTHON DATA VISUALIZATION PAPERBACK by KIRTHI RAMAN, PACKT PUBLISHING

Course Code	DECAP519	CourseTitle	INFORMATION SECURITY AND PRIVACY
			WEIGHTAGE
			CA ETE (Th.)
			30 70

Course Outcomes: Through this course, the student will be able to

- CO1:** understand the fundamental concepts of information security.
- CO2:** identify and categorize various security threats, vulnerabilities, and attacks.
- CO3:** understand different cryptography concepts like encryption, decryption, hashing, and digital signatures.
- CO4:** understand the legal and ethical aspects of information security, including data privacy regulations.
- CO5:** understand network security, web application security principles.

UnitNo.	Content
Unit- 1	Introduction to Information Security and Privacy, Overview of Information Security, Importance of Privacy, Basic Concepts and Terminology, Threat Landscape
Unit- 2	Fundamentals of Cryptography: Encryption Techniques, Symmetric and Asymmetric Cryptography, Hash Functions and Message Authentication Codes, Digital Signatures
Unit- 3	Access Control Mechanisms: Access Control Models (DAC, MAC, RBAC), Authentication Methods (Passwords, Biometrics, Tokens), Authorization and Accountability
Unit- 4	Network Security Principles: Network Architecture and Protocols, Firewalls and Intrusion Detection Systems, Secure Communication Protocols (SSL/TLS, IPsec), Virtual Private Networks (VPNs)
Unit- 5	Secure Software Development Practices: Secure Coding Standards, Threat Modeling, Code Review and Testing, Secure Development Lifecycle (SDLC)
Unit- 6	Web Application Security: Common Web Vulnerabilities (SQL Injection, XSS, CSRF), Web Application Firewalls, Security Headers, Secure Development Frameworks (OWASP)
Unit- 7	Operating System Security: OS Hardening Techniques, User Authentication and Access Controls, Patch Management, Endpoint Security
Unit- 8	Database Security: Database Encryption, Access Controls and Privilege Management, Database Auditing and Monitoring, Secure Database Design
Unit- 9	Malware Analysis and Detection: Types of Malware (Viruses, Worms, Trojans), Antivirus and Antimalware Solutions, Behavior Analysis and Sandboxing, Incident Response to Malware Attacks
Unit- 10	Intrusion Detection and Prevention Systems: Intrusion Detection Technologies, Network and Host-Based IDS/IPS, Signature-Based vs. Anomaly-Based Detection Real-Time Threat Intelligence
Unit- 11	Wireless and Mobile Security: Wi-Fi Security (WEP, WPA, WPA2), Mobile Device Management (MDM), Mobile App Security Best Practices, BYOD Policies and Implementation
Unit- 12	Cloud Security: Cloud Computing Models (IaaS, PaaS, SaaS), Cloud Security Challenges, Identity and Access Management in the Cloud, Data Encryption and Compliance
Unit- 13	Identity and Authentication Management: Identity Management Lifecycle, Single Sign-On (SSO) Solutions, Multifactor Authentication, Federated Identity Management
Unit- 14	Risk Management and Compliance: Risk Assessment Methodologies, Regulatory Compliance (GDPR, HIPAA, PCI-DSS), Security Controls Frameworks (ISO 27001, NIST, CIS), Business Continuity Planning (BCP) and Disaster Recovery (DR)
Unit- 15	Incident Response and Recovery: Incident Response Planning, Threat Intelligence and Incident Detection, Incident Analysis and Containment, Lessons Learned and Post-Incident Review

Unit- 16	Privacy Laws and Regulations: Overview of Privacy Laws (GDPR, CCPA, PIPEDA), Data Protection Principles, Privacy Impact Assessments, International Data Transfers and Safe Harbor Frameworks
Unit- 17	Privacy-Enhancing Technologies: Privacy-Preserving Data Mining Techniques, Anonymization and Pseudonymization, Differential Privacy, Privacy-Enhanced Identity Management
Unit- 18	Secure Communication Protocols: Transport Layer Security (TLS), Secure Email Protocols (S/MIME, PGP), Secure File Transfer Protocols (SSH, SFTP), Virtual Private Networks (VPNs)
Unit- 19	Security in Emerging Technologies (IoT, AI, Blockchain): Security Challenges in IoT Devices, AI for Cybersecurity, Blockchain Security Considerations, Integration of Security in Emerging Tech
Unit- 20	Ethical Hacking and Penetration Testing: Introduction to Ethical Hacking, Penetration Testing Methodologies, Vulnerability Assessment Tools, Reporting and Remediation Strategies

List of Practicals / Experiments:

Introduction to Big Data Tools

- Introduction about Tools used in Big Data Analysis

Introduction to Virtual Box

- learning usage of VirtualBox installing and working with VirtualBox
- Installation of cloud era (for HADOOP, Hive installation)

Introduction to Hadoop Administration

- Hadoop - Environment Setup Hadoop - HDFS Overview
- File Management in HADOOP
- Understanding the layers of HADOOP HDFS, YARN and Map Reduce

Working with HIVE

- Introduction to Data Types in Hive, Creating Data tables, Alter Table, Drop Table, inserting data into the tables, creating views, Apply various functions.

MAP REDUCE Programming

- Understand the concept of Map Reduce, Execute the basic programs using Map Reduce such as Basic Word Count, Matrix Multiplication, Finding average age of Male and Female died in Titanic Disaster and similar ones.

Introduction to No-SQL with MongoDB (basic Commands)

- Create database / select, checking database, See all your databases, Show your collections / dB's, delete your collection, Drop selected database, Create collection, Capped option *(for create collection), Insert Data, Updating Data, removing data, Applying Projection and Limit, Sorting data.

READINGS:

1. BIG DATA by ANIL MAHESHWARI, MC GRAW HILL
2. UNDERSTANDING BIG DATA: ANALYTICS FOR ENTERPRISE CLASS HADOOP AND STREAMING DATA by GEORGE LAPIS, CHRIS EATON, TOM DEUTSCH, PAUL ZIKOPOULOS, DIRK DEROOS, MC GRAW HILL.
3. BIG DATA AND ANALYTICS by SEEMA ACHARYA, SUBHASHINI CHELLAPPAN, WILEY
4. BIG DATA FUNDAMENTALS by THOMAS ERL, PEARSON
5. MINING OF MASSIVE DATASETS by JURE LESKOVEC, AND RAJARAMAN, JEFF ULLMAN, STANFORD UNIVERSITY PRESS

Course Code	DECAP520	Course Title	PLANNING ENTERPRISE RESOURCES	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: understand the core concepts of Enterprise Resource Planning (ERP) systems.

CO2: understand on-premise, cloud-based and hybrid ERP systems.

CO3: understand the importance of data integration and master data management within an ERP system.

CO4: understand the impact of ERP systems on business processes, organizational structure, and decision-making.

CO5: understand the implementation process of ERP systems, including business process analysis, system selection, configuration, data migration, and user training.

UnitNo.	Content
Unit- 1	Introduction to ERP, Definition and Concept of ERP, Evolution of ERP Systems, Benefits and Challenges of ERP Implementation, Role of ERP in Business Transformation
Unit- 2	ERP Architecture, Client-Server Architecture, Three-Tier Architecture, Cloud-Based ERP Solutions, Mobile ERP Access
Unit- 3	ERP Modules Overview, Financial Management Module, Human Resource Management Module, Supply Chain Management Module, Customer Relationship Management Module
Unit- 4	ERP Implementation Methodologies, Traditional Waterfall Approach, Agile Methodology for ERP Implementation, Prototyping and Iterative Implementation, Change Management Strategies
Unit- 5	ERP Selection Process, Needs Assessment and Requirements Gathering, Vendor Evaluation and Selection Criteria, Request for Proposal (RFP) Process, Contract Negotiation and Finalization
Unit- 6	Business Process Mapping and Reengineering involves analyzing existing business operations through current state analysis, designing future states for optimized workflows, and conducting gap analysis to identify areas for improvement and implement effective process enhancements.
Unit- 7	Data Migration and Integration focuses on preparing and transforming data through cleansing and applying migration strategies to ensure smooth transition from legacy systems, with careful attention to data mapping and system integration.
Unit- 8	ERP Configuration and Customization addresses available system configuration options and the trade-offs between customization and configuration, following best practices for ERP customization and extending functionality through add-on modules as needed.
Unit- 9	ERP Training and User Adoption emphasizes comprehensive end-user training programs, the train-the-trainer methodology, and executing User Acceptance Testing (UAT) along with change management strategies and effective communication to encourage adoption.
Unit- 10	ERP Security and Access Controls are maintained through role-based access controls (RBAC), robust user authentication and authorization processes, clear segregation of duties (SoD), and maintenance of audit trails to ensure

	compliance with regulatory requirements.Audit Trails and Compliance Requirements
Unit- 11	ERP Vendor Management includes building strong vendor relationships, drafting clear service level agreements (SLAs), managing support and maintenance contracts, and regularly evaluating vendor performance to ensure service quality.
Unit- 12	ERP Project Management involves detailed project planning and scheduling, efficient resource allocation and budgeting, proactive risk management, and ongoing projectMonitoring and control.
Unit- 13	ERP Governance and Strategy focuses on establishing effective governance models,aligning ERP strategies with broader business goals, developing an ERP Center ofExcellence (CoE), and promoting a culture of continuous improvement and innovation.
Unit- 14	ERP Integration with Business Intelligence facilitates data warehousing and mining, the use of reporting and analytics tools, defining and tracking key performance indicators(KPIs), and designing intuitive dashboards for effective visualization.In industry-specific contexts
Unit- 15	ERP for the Manufacturing Industry supports production planning and control, materials management, inventory control, quality management, and shop floor integration with automation.
Unit- 16	ERP for the Service Industry streamlines project management, resource allocation, service delivery, billing, customer support, and SLA management.
Unit- 17	ERP for the Retail Industry integrates point-of-sale (POS) systems, manages inventory and replenishment, supports merchandising and assortment planning, and enhances customer loyalty programs.
Unit- 18	ERP for the Healthcare Industry facilitates integration of electronic health records (EHR), patient management, billing systems, medical supply chain operations, and compliance with healthcare regulations such as HIPAA and GDPR.
Unit- 19	ERP for the Financial Services Industry provides robust accounting and financial reporting, risk and compliance management, investment tracking, and banking operations with customer relationship management.
Unit- 20	Emerging Trends in ERP include the adoption of mobile ERP and wearable technology, integration with the Internet of Things (IoT), incorporation of artificial intelligence and machine learning capabilities, and exploring applications of blockchain and cryptocurrency within ERP systems.

READINGS:

1. ENTERPRISE RESOURCE PLANNING: IMPLEMENTING AND INTEGRATING BUSINESS APPLICATIONS by ALEXIS LEON, CENGAGE LEARNING
2. ERP SYSTEMS FOR DUMMIES by STEVEN M. BRAGG, JOHN WILEY & SONS
3. ENTERPRISE RESOURCE PLANNING by MARY SUMNER, PUBLISHER: PEARSON
4. ERP: MAKING IT HAPPEN: THE IMPLEMENTERS' GUIDE TO SUCCESS WITH ENTERPRISE RESOURCE PLANNING by THOMAS F. WALLACE AND MICHAEL H. KREMZAR, WILEY
5. ENTERPRISE SYSTEMS FOR MANAGEMENT by LUVAI MOTIWALLA AND JEFFREY THOMPSON, PEARSON

Course code	DEPEA515	Course Title	ANALYTICAL SKILLS-I	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

C01: apply the procedural fluency with number system and mathematical operations to solve the stated problems.

C02: apply an appropriate approach to solve problems related to percentage and profit & loss.

C03: analyze the reasoning aptitude problems such as blood relation, direction sense and number ranking & time sequence test to solve related problems.

C04: apply the analytical concepts learnt to solve the questions of ratio & proportion and alligation & mixture.

C05: use the concepts of permutation & combination and probability to solve related problems.

C06: apply the concepts learnt to solve the questions related to syllogisms and data interpretation.

Unit No.	Content
Unit 1	Number system: classification of numbers, rules of divisibility, multiplication and squaring of numbers, HCF & LCM of numbers, cyclicity of unit digit, remainder theorem
Unit 2	Average: average of numbers, arithmetic mean, weighted average
Unit 3	Mathematical operations: BODMAS rule, calculation based problem, conversion of symbols into signs
Unit 4	Percentage: commodity price increase/decrease, comparison based questions, population based examples, successive percent changes, budget based problems
Unit 5	Profit and loss: cost price, selling price, profit and loss, calculation of profit/loss percent, false weight, discount, successive discount, marked price
Unit 6	Direction sense test: understanding of directions, different types of practice problems
Unit 7	Blood relation: cracking jumbled up descriptions, relation puzzle, coded relations
Unit 8	Number, ranking and time sequence: number test, ranking test, time sequence test
Unit 9	Ratio and proportion: ratio and its types, proportion and its types, direct and indirect variations, partnership
Unit 10	Alligation or mixture: concept and rules of alligation, problem based on mixing of liquids/items
Unit 11	Problem on ages and numbers: problems on ages, problem on numbers
Unit 12	Permutation and combination: factorial, difference between permutation & combinations, circular permutation, arrangement and selection based problems, distribution and division Probability: experiment, sample space, event, probability of occurrence of an event, bayes theorem, odds of an event, selection based problems, binomial distribution
Unit 13	Logical Venn diagram and set theory: Venn diagram based problems, concept of set theory Syllogism: all, some and none relations, related statements with Venn diagram
Unit 14	Data interpretation: basics of data interpretation, average and percentage, tabulation, bar graphs, pie charts, line graphs

READINGS:

1. QUANTITATIVE APTITUDE FOR COMPETITIVE EXAMINATIONS by Dr. R S AGGARWAL, S CHAND PUBLISHING
2. A MODERN APPROACH TO VERBAL & NON-VERBAL REASONING by Dr. R S AGGARWAL, S CHAND PUBLISHING
3. MAGICAL BOOK ON QUICKER MATHS by M TYRA, BANKING SERVICE CHRONICLE
4. ANALYTICAL REASONING by M.K. PANDEY, BANKING SERVICE CHRONICLE

Course code	DEPEA516	Course Title	ANALYTICAL SKILLS-II	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: employ the concepts learnt to analyze and solve the problems related to work based on time and efficiency.

CO2: use an appropriate approach to solve problems related to time, speed and distance.

CO3: analyze the various logical reasoning techniques to solve problems related to series completion, coding decoding in minimum possible time.

CO4: utilize analytical skills to calculate simple and compound interest.

CO5: articulate an appropriate approach to solve the problems related to clock and calendar.

CO6: analyze the logical reasoning aptitude problems related to puzzle test and non-verbal reasoning to solve accordingly.

Unit No.	Content
Unit 1	Time and Work: chain rule, computation of work done together, men, women, children-based problems, wages-based work problems, alternate day work
Unit 2	Pipes and Cisterns: inlet-outlet, part of tank filled, time-based problems, alternate work
Unit 3	Time and Distance: concept of time speed and distance, conversion of Units, average speed concept, different types of problems
Unit 4	Problem on trains: relative speed concept, faster and slower train Boats and streams and races: downstream and upstream, linear and circular track
Unit 5	Sequence and series completion: series completion, analogy, classification, arithmetic and geometric progression
Unit 6	Alphabet test and logical sequence of words: alphabetical order of words, letter-word problems, rule detection, alphabetical quibble, word formation by unscrambling letters, word formation using Letters of a given word, alpha-numeric sequence puzzle, logical sequence of words
Unit 7	Coding-Decoding: letter coding, number/symbol coding, substitution, matrix coding, mixed letter coding, mixed number coding
Unit 8	Simple interest: basics of principal, rate and time, rate computation, time computation, amount computation
Unit 9	Compound interest: concept of simple and compound interest, questions based on relation between compound and simple interest
Unit 10	Calendar: calculating odd days, basic concept of calendar, finding the exact day
Unit 11	Clocks: concept of clock, angle computation, loss or gain in time
Unit 12	Data sufficiency: reasoning and quantitative data sufficiency problems Coding inequalities: basic operations, rules of inequalities, coded relations
Unit 13	Puzzle test: seating/placing arrangements, comparison type questions, sequential order of things, family-based problems
Unit 14	Non-Verbal Reasoning: series of figures, analogy of figures, classification of figures

READINGS:

1. QUANTITATIVE APTITUDE FOR COMPETITIVE EXAMINATIONS by DR. R S AGGARWAL, S CHAND PUBLISHING
2. A MODERN APPROACH TO VERBAL & NON-VERBAL REASONING by DR. R S AGGARWAL, S

CHAND PUBLISHING

3. MAGICAL BOOK ON QUICKER MATHS by M TYRA, BANKING SERVICE CHRONICLE
4. ANALYTICAL REASONING by M.K. PANDEY, BANKING SERVICE CHRONICLE

Course code	DEENG539	Course Title	ACADEMIC ENGLISH	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

C01: differentiate between a range of authentic academic texts.

C02: observe actively to lectures, presentations and interviews to understand key information.

C03: construct a variety of essays and other assignments.

C04: appraise academic grammar.

C05: apply academic English and vocabulary in professional life.

Unit No.	Content
Unit 1	Academic writing: introduction, texts and academic texts, ways of writing, balanced versus weighted essays
Unit 2	Academic writing: brainstorming and outlining, gathering information
Unit 3	Writing paragraphs: introduction, types of paragraphs, enumeration
Unit 4	Writing paragraphs: exemplification, complex paragraphs, sequence
Unit 5	Writing paragraphs: comparison of items, cause effect in paragraph writing, visuals in paragraph writing
Unit 6	Basics of reports and research papers: introduction, types of reports, format of a report, assessment reports
Unit 7	Basics of reports and research papers: writing a report, understanding the text, data collection, writing a research paper
Unit 8	Basics of reports and research papers: overview of a research paper, selection of a research paper, plagiarism, citing sources, publication sources
Unit 9	Presenting your ideas: purpose of a presentation, components of a presentation, when to read or speak, preparation
Unit 10	Presenting your ideas: before the talk, on the podium, handling questions, strategic planning
Unit 11	Grammar for editing: basic sentences, verbs, nouns, editing a sentence
Unit 12	Grammar for editing: delayed subjects: it, there and what, the long and winding sentence, short sentences, parallelism
Unit 13	Working with words: misleading words, one word for many, complicated words, avoiding metaphors, redundant words
Unit 14	Working with words: linking words, expressing the degree of certainty, capitalization, sexist language

READINGS:

1. A COURSE IN ACADEMIC WRITING by RENU GUPTA, ORIENT BLACKSWAN PVT. LTD.
2. ENGLISH GRAMMAR by RAJEEVAN KARAL, OXFORD UNIVERSITY PRESS
3. OXFORD EAP: A COURSE IN ENGLISH FOR ACADEMIC PURPOSES by EDWARD DE CHAZALAND SAM MCCARTER, OXFORD UNIVERSITY PRESS
4. MLA HANDBOOK by MODERN LANGUAGE ASSOCIATION OF AMERICA, MODERN LANGUAGE ASSOCIATION.

Course code	DEENG514	Course Title	INTRODUCTION TO THE STUDY OF LANGUAGE	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

C01: identify vowels and consonants in phonetics.

C02: distinguish between different parts of speech organs, place of articulation and manner of articulation.

C03: describe syllable and stress patterns in relationship with aspects of connected speech in English language.

Unit No.	Content
Unit 1	Language and Phonetics: introduction to first and second language, introduction to phonetics
Unit 2	Language and Phonetics: meaning and importance of phonetics, difference between phonetics and phonology
Unit 3	The Production of Speech Sounds: introduction to the speech organs, articulators above the larynx
Unit 4	The Production of Speech Sounds: vowels and consonants, long vowels and short vowels
Unit 5	Vowels, Diphthongs, and Triphthongs: introduction to vowels, long vowels, short vowels
Unit 6	Vowels, Diphthongs, and Triphthongs: introduction, diphthongs, triphthongs
Unit 7	Voicing and Consonants: the larynx, respiration and voicing, plosives
Unit 8	Voicing and Consonants: place of articulation, manner of articulation, fortis and lenis
Unit 9	The Phoneme and Phonology: the functioning and patterning of sounds, the phoneme
Unit 10	The Phoneme and Phonology: the phonology, symbols and transcription, minimal pairs
Unit 11	The Syllable and Stress: strong and weak syllables, close front and close back vowels
Unit 12	The Syllable and Stress: syllabic consonants, nature of stress
Unit 13	The Syllable and Stress: levels of stress, placement of stress within the word
Unit 14	Aspects of Connected Speech: rhythm, assimilation, elision, linking

READINGS:

1. LINGUISTICS by CRYSTAL, DAVID, PENGUIN BOOKS INDIA
2. ENGLISH PRONOUNCING DICTIONARY by JONES, DANIEL, CAMBRIDGE UNIVERSITY PRESS
3. ENGLISH PHONETICS AND PHONOLOGY: A PRACTICAL COURSE by ROACH, PETER, CAMBRIDGE UNIVERSITY PRESS
4. MODERN LINGUISTICS: AN INTRODUCTION by VERMA, S.K & N. KRISHNASWAMY, OXFORD UNIVERSITY PRESS

Course code	DEENG519	Course Title	POST-INDEPENDENCE INDIAN LITERATURE	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: understand the social cultural and political dimensions of Indian Writing in English.

CO2: deduce the historical elements and theoretical orientation of Indian Writing in English.

CO3: analyze the stylistic techniques of Indian Writing in English.

CO4: trace the essential features of Indian Writing in English.

Unit No.	Content
Unit 1	Literary Terms: feminism, patriarchy, sexism
Unit 2	Literary Terms: misogynoir, misandry, LGBTQ
Unit 3	Literary Terms: gender issues, male gaze, womanism
Unit 4	Rupa Bajwa - The Sari Shop: plot and narrative technique
Unit 5	Rupa Bajwa - The Sari Shop: social and political background, character analysis and thematic analysis
Unit 6	Tagore - Leave this chanting and singing: textual, analysis, thematic analysis, symbols and motifs, stylistic features
Unit 7	Tagore - Kamala Das - My Grandmother's House: textual analysis, thematic analysis
Unit 8	Tagore - Kamala Das - My Grandmother's House: symbols and motifs, stylistic features
Unit 9	Difficult Daughters by Manju Kapur: about the author, plot, character analysis
Unit 10	Difficult Daughters by Manju Kapur: thematic analysis and gender issues, critical analysis
Unit 11	Mahesh Dattani - Final Solution: character analysis and thematic analysis
Unit 12	Mahesh Dattani - Final Solution: plot, narrative technique
Unit 13	Girish Karnad - Nagamandala: thematic analysis, narrative technique
Unit 14	Girish Karnad - Nagamandala: plot summary, character analysis

READINGS:

1. THE VINTAGE BOOK OF MODERN INDIAN LITERATURE by AMIT CHAUDHURI, VINTAGE BOOKS
2. THE SARI SHOP by RUPA BAJWA, PENGUIN BOOKS INDIA
3. NAGAMANDALA by GIRISH KARNAD, OXFORD UNIVERSITY PRESS
4. GITANJALI: RABINDRANATH TAGORE by RABINDRANATH TAGORE, RUPA PUBLICATIONS
5. KAMALA DAS by DR. N. K. SHARMA, Unique Publisher
6. FINAL SOLUTIONS by MAHESH DATTANAI, PENGUIN BOOKS INDIA
7. DIFFICULT DAUGHTERS by MANJU KAPUR, PENGUIN BOOKS INDIA

Course code	DEENG527	Course Title	POSTCOLONIAL LITERATURES AND CULTURAL STUDIES	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: identify the impact of colonialism on culture.

CO2: estimate the significance of the post-colonial era in the life of its inhabitants.

CO3: apply the post-colonial theory of Homi Bhabha and Edward Said in the prescribed texts.

CO4: justify new trends in post-colonial discourse through the lens of selected texts.

Unit No.	Content
Unit 1	Salman Rushdie: Midnight's Children: Midnight's Children as a post-colonial epic, technique of magic realism of Rushdie
Unit 2	Salman Rushdie: Midnight's Children: discussion of the plot of the novel, epical features of the novel
Unit 3	Salman Rushdie: Midnight's Children: character of Saleem and his importance, the themes of alienation and cultural dislocation
Unit 4	Chinua Achebe: Things Fall Apart: Struggle for dominance and identity crisis, introduction to the African culture
Unit 5	Chinua Achebe: Things Fall Apart: theme of cultural destruction, hybridity and marginalization
Unit 6	Chinua Achebe: Things Fall Apart: theme of gender discrimination in the novel, conflict between tradition and modernity
Unit 7	Bapsi Sidhwa: The American Brat: the life and achievements of the writer, the theme of male domination in society, Feroza's American experience
Unit 8	Bapsi Sidhwa: The American Brat: cultural assimilation of Feroza and the application of Bhabha's theory of hybridity, loss of identity of Feroza in America, cultural conflicts between Parsee culture and American culture, the character of Zareen
Unit 9	Jean Rhys: Wide Sargasso Sea: introduction to the writer, race, relations and prejudice, the theme of oppression of slavery
Unit 10	Jean Rhys: Wide Sargasso Sea: the episodes of magic and incantation in the novel, male domination and patriarchal power structure, discussion on the characters and themes
Unit 11	Derek Walcott: Dream On Monkey Mountain: the significance of the title of the drama, the post-colonial elements in the drama, the theme of the loss of identity
Unit 12	Derek Walcott: Dream On Monkey Mountain: the theme of marginalization and the application of the theory of Homi Bhabha, Makak and his confrontation with the colonial rulers, the significance of the ending of the drama
Unit 13	Margaret Atwood: Surfacing: the life and achievements of the writer, the significance of the title, the theme of alienation and the application of the theory of hybridity of Homi Bhabha
Unit 14	Margaret Atwood: Surfacing: the postcolonial elements in the novel, the theme of feminism in the novel, the role of nature in the novel, the plot structure of the novel

READINGS:

1. MIDNIGHT'S CHILDREN by SALMAN RUSHDIE, VINTAGE BOOKS
2. THINGS FALL APART by CHINUA ACHEBE, ANCHOR BOOKS
3. SURFACING by MARGARET ATWOOD, ANCHOR BOOKS
4. AMERICAN BRAT by BAPSI SIDHWA, MILKWEED EDITIONS
5. DREAM ON MONKEY MOUNTAIN by DEREK WALCOTT, FARRA, STRAUS

6. WIDE SARGASSO SEA by JEAN RHYS, PENGUIN CLASSICS

Course Code	DEPOL525	Course Title	POLITICAL INSTITUTIONS IN INDIA
			WEIGHTAGE
			CA
			ETE (Th.)
			30
			70

Course Outcomes: Through this course, the student will be able to

CO1: understand the leading institutions of the Indian political system and the changing nature of these institutions.

CO2: assess the laws pertaining to elections and analyse the electoral system of India.

CO3: enumerate the working of the Indian federalism in the constitutional context.

CO4: distinguish the powers and functions of various organs of the government.

CO5: discuss about various constitutional and statutory bodies of India.

CO6: evaluate the functioning of the local government institutions.

Unit No.	Content
Unit-1	Indian National Movement to the Making of the Indian Constitution: Definitions of Constitution, Functions of Constitution, Evolution of the Indian Constitution 1858-1935, The Company Rule (1773-1858), The Crown Rule (1858-1947)
Unit-2	Constituent Assembly: Meaning of Constituent Assembly, Evolution of the Concept of Constituent a Assembly in India, Cabinet Mission Plan and the Formation of the Constituent Assembly, Composition of the Constituent Assembly, Working of the Constituent Assembly, Objective Resolution, Gandhian Ideology, Constitution Assembly Debates, Decision Making in the Constituent Assembly
Unit-3	Philosophy of the Constitution: Key Words in the Preamble, Salient Features of the Constitution, Fundamental Rights, Directive Principles of State Policy
Unit-4	Constitutionalism in India: Democracy, Features of the Indian Democracy, Social Change, Factors of Social Change, National Unity, Separation of Powers, Basic Structure Doctrine, Evolution of Basic Structure Doctrine, Procedure of Amendment
Unit-5	Union executive: President, Powers and Functions of the President, Prime Minister, Council of Ministers
Unit-6	Union Parliament: Composition of the Parliament, Officials of Rajya Sabha, Sessions of Parliament, Functions of Parliament, Parliamentary Committees
Unit-7	Judiciary Part-I: Supreme Court: Jurisdiction and Powers, High Court: Jurisdiction and Powers
Unit-8	Judiciary part -II: Judicial Review, Judicial Activism, Judicial Restraint, Judicial Reform
Unit-9	State executive: Governor, Powers and Functions of Governor, Position and Role of the Governor, Chief Minister, Powers and Functions of Chief Minister, Council of Ministers
Unit-10	State Legislature: Composition of Two Houses, Duration of Two Houses, Membership of State Legislature, Presiding Officer, Sessions of State Legislature, Powers and Functions of the State Legislature, Position of legislative council, Privileges of State Legislature
Unit-11	Federalism in India: Nature and Scope, Centre-State Relations, Federalism with a Strong Central Government, Role of Intergovernmental Coordination Mechanisms in Indian Federalism
Unit-12	Electoral Process and Election Commission of India: Election Commission, Electoral Reforms, Issues in Electoral Politics in India, Electoral Reforms Undertaken, Functioning and Reforms of the Local Government Institutions
Unit-13	Constitutional and Statutory Bodies Part -I: Comptroller and Auditor General: Duties and Powers, National Commission for Scheduled Castes: Evolution and Functions, National Commission for Scheduled Tribes: Function and Reports
Unit-14	Constitutional and Statutory Bodies Part -II: National Commission for Human Rights, National Commission for Women, National Commission for Minorities

READINGS:

1. INDIAN GOVERNMENT AND POLITICS by BIDYUT CHAKRABARTY, RAJENDRA KUMAR PANDEY, SAGE PUBLICATIONS.
2. THE INDIAN CONSTITUTION: CORNERSTONE OF A NATION by AUSTIN GRANVILLE.

Course Code	DEPOL527	Course Title	PUBLIC POLICY AND GOVERNANCE IN INDIA	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: understand the nature and scope of public policy and administration in India.

CO2: assess the major problems and complexities in India's governance system.

CO3: appreciate the methodological pluralism and synthesizing nature of knowledge in public policy and administration.

CO4: analyse the changing dimensions and patterns in India's public governance and administrative processes.

CO5: evaluate the role of non-state actors and civil society in India's public governance system.

Unit No.	Content
Unit-1	Public Policy and Administration in India: Meaning and Concept of Public Policy; Meaning, Evolution, Scope and Importance of Public Administration; Public Policy & Public Administration in India, Evolution of Indian Administration
Unit-2	Public and Private Administration: Approaches, System Theory, Organization Theory, Decision Making Theory,
Unit-3	Public Administration Theories and Concepts: Meaning, Ecological Approach
Unit-4	Scientific Management Theory, Rational Choice theory, New Public Administration, Development Administration
Unit-5	Comparative Public Administration in India: Comparative Public Administration in India
Unit-6	New Public Management: Themes, Significance, Consequences, Good Governance
Unit-7	Changing Nature of Public Administration: Case of Bureaucracy, Characteristics of Bureaucracy, Impact of Globalization
Unit-8	Theories and Principles of Organisation and its Operations in India: Principles of Organisation, Theories of Organisation: Classical, Neo-classical & Modern Bureaucratic Theory, Human Relations Theory
Unit-9	Managing the Organization: Theories of Leadership, Types of Theories of Leadership, Trait Theory, Behavioural Theory, Theories of Motivation
Unit-10	Organisational Communication: Theories and Principles, Theory X & Theory Y, Functioning in India and its impacts
Unit-11	Chester Bernard: Principles of Communication, Information Management in the Organization
Unit-12	Conflict in the Organization: Factors influencing conflict, Views of Mary Parker Follett, Views of Peter Drucker
Unit-13	Public Policy and Governance in India: Types of Public Policy, Stages, Basis of Policy-Making
Unit-14	Public Policy Issues and Challenges in India: Constraints in Policy Implementation

READINGS:

1. INTRODUCTION TO THE STUDY OF PUBLIC ADMINISTRATION by SHAFRITZ, J.M. AND HYDE, WADSWORTH
2. PUBLIC ADMINISTRATION IN INDIA by STERLING PUBLICATIONS, STRELING

PUBLICATIONS.

Course Code	DESOC515	Course Title	FUNDAMENTALS OF SOCIOLOGY	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

CO1: articulate all the methodical concepts to understand the social system and function.

CO2: collect information regarding various social units in terms of structural and functional analysis.

CO3: examine structural and functional significance of social institution.

CO4: innovate ideas to create pathways for the social problems.

CO5: apply theoretical understanding in the process of social change and mobilization.

CO6: analyse the process of social exclusion and inclusion in terms of policy making and development program.

Unit No.	Content
Unit-1	Introduction to Sociology: Definition, Nature and Importance, Relation of Sociology with other social sciences-Economics, History, Political Science, Psychology and Social Anthropology
Unit-2	Sociology and other Social Studies: Branches of Sociology-Industrial Sociology, Political Sociology, Sociology of Family, Sociology of Education, Medical Sociology, Urban and Rural Sociology
Unit-3	Sociological Imagination: Development of Sociology as a Social Science and Sociological Prospective
Unit-4	Basic Concepts: Society, Community, Association and Institution –Social Groups, Social Structure and function, Role and Status, Social Stratification and Mobility, Social Control, Social process and Social Change.
Unit-5	Sociology of Culture: Culture and Socialization Definition-Features, Elements, Types, Cultural Relativity, Ethnocentrism, Cultural lag, Cultural System & sub-system, cultural change.
Unit-6	Social Institutions: Marriage, Family, Kinship, Religious Institutions, Economic Institution, Educational Institution and Political Institutions
Unit-7	Indian Social Institutions (I): Caste System, Jajmani System, Major religious practices
Unit-8	Indian Social Institutions (II): Indian Agriculture: farmers movements, Primary education, Mid-day meal, privatization of higher education, Research and development
Unit-9	Social Problems (I): Definition, Nature, Cause, Proposals, Legal and Constitutional measures in controlling social problems.
Unit-10	Social Problems (II): Family Disorganisation, Problem of Child Labour, Problem of Aged, Gender issues and Gender problems,
Unit-11	Social Problems (III): Communal Riots, corruption, terrorism, Alcoholism and Drug Addiction, problem of Unemployment, untouchability, population problem, Rural and Urban Problems, Nepotism
Unit-12	Social Change: Meaning Definition, Nature and Importance, Types of Social Change
Unit-13	Social Movement: Peasant movement, Dalit Movement, Backward Classes movement, Social Reform Movement
Unit-14	Social Inclusion and Exclusion: Meaning-Nature-issues and problems of Social Inclusion/Exclusion among Scheduled Caste and Class-Scheduled Tribes, Neo Buddhist movement, Women empowerment

READINGS:

1. SOCIOLOGY: PRINCIPLES OF SOCIOLOGY WITH AN INTRODUCTION TO SOCIAL THOUGHTS by RAO C.N. SHANKAR. S CHAND.
2. FUNDAMENTALS OF SOCIOLOGY by VIDYA BHUSHAN, PEARSON EDUCATION.
3. FUNDAMENTALS OF SOCIOLOGY by GIBERT P. ORIENT BLACK SWAN, THIRD EDITION (2010).
4. FUNDAMENTALS OF SOCIOLOGY by RAJENDRA KUMAR SHARMA, ATLANTIC.1ST EDITION (2013).

Course Code	DESOC506	Course Title	GLOBALIZATION AND SOCIETY	
			WEIGHTAGE	
			CA	ETE (Th.)
			30	70

Course Outcomes: Through this course, the student will be able to

C01: understand the concept and evolution of globalization.

C02: analyze the impact of globalization on Indian society and economy.

C03: evaluate globalization's influence on culture and communication.

C04: examine economic transformations in a globalized world.

C05: critically assess globalization's environmental and social challenges.

C06: predict the future of globalization and India's role in it.

Unit No.	Content
Unit-1	Introduction to globalization: concept, history of globalization
Unit-2	Dimensions of globalization (i): social, cultural, political
Unit-3	Dimensions of globalization (ii): Economic and ecological dimension
Unit-4	Globalization in India: Perspectives, Globalization and reforms in India, Impact of Globalization on women and poor
Unit-5	Globalization in society: Family, marriage, relationship
Unit-6	Globalization in Culture: Language and communication, Social Structure
Unit-7	Globalization in education: Learning, Access to education, Technological gap
Unit-8	Globalization in economy: Globalization of Indian banks with WTO regime
Unit-9	Business Process Outsourcing (BPO): an emerging trend in India
Unit-10	Micro finance, Economic liberalization: free market policy
Unit-11	Globalization in the environment: Tourism, Pollution, Global warming
Unit-12	Global crises: globalization as an inevitable process, The East Asia crises
Unit-13	Globalization in Indian society: Indian economy after globalization, Impact of globalization on Indian Agrarian class structure and culture, towards an Alternative view and vision
Unit-14	Future of globalization: future of globalization, Broken promises of global institution

READINGS:

1. GLOBALIZATION IN INDIA: NEW FRONTIERS AND EMERGING CHALLENGES by S.K. PRAMANIK, R GANGULY, PHI LEARNING PVT LTD.
2. GLOBALIZATION AND INDIAN SOCIETY by BABITA AGARWAL, ANIL AGARWAL, AP PUBLISHER
3. GLOBALIZATION: A VERY SHORT INTRODUCTION by MANFRED B. STEGER, OXFORD UNIVERSITY PRESS