ONLINE MBA

MASTER OF BUSINESS ADMINISTRATION – BUSINESS ANALYTICS

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INTRODUCTION

If not the real world, the classes of MBA are simulated as real world, making the learning close to reality. Wide range of emerging specialization areas are on offer.

Programme Outcomes

Program outcomes are narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge and behaviours that students acquire in their matriculation through the program

- 1. **Decision Making:** Developing responsiveness to contextual social issues and exploring solutions, understanding business ethics and resolving ethical dilemmas
- 2. **Problem Solving:** Apply analytical decision-making skills and solve problems using cross functional information and research tools
- 3. **Global Outlook**: Demonstrate a global outlook with the ability to identify aspects of the global business and Cross-Cultural Understanding
- 4. **Domain Knowledge:** Leveraging domain knowledge for organizing information, analysis and exploring business opportunities
- 5. **Communication:** Exercise effective written and oral communication skills for different business situations
- 6. **Leadership:** Demonstrate proactive leadership and build effective teams.
- 7. **Entrepreneurship:** Evaluate and execute ideas for entrepreneurship
- 8. **ICT usage:** Leverage Technology for organizing information, analysis and research

PROGRAMME SPECIFIC OUTCOMES

- **1. PSO1:** Application of management concepts and research tools to understand ever changing laws, policies and competition in world of business.
- **2. PSO2:** Synthesize knowledge of different functional areas to take decisions that provide competitive edge and enable efficient execution of projects.

SALIENT FEATURES

Internationally Accredited: Accredited by Accreditation Council for Business Schools and Program (ACBSP).

Entrepreneurship: Entrepreneurship projects are integral part of curriculum and help establish themselves as successful entrepreneurs.

Professional Enhancement: In addition to core curricula, course offers subjects like communication, analytical and soft skills to enhance personality and employability.

Contemporary Curriculum: Instill advanced knowledge about contemporary area in management such as Green Marketing

Projects: Opportunity to work on business projects to enhance managerial skills.

Community Development Projects: Opportunity to work on community development project on social issues to cultivate social sensitivity and sense of responsibility.

Holistic Development: Participation in technical events, sports and cultural activities help in the holistic development of students

Case Based Teaching: Usage of real-life case studies to provide interactive teaching and learning methodology

PROGRAMMECODE: 0L3521

DURATION OF THE PROGRAMME:

Minimum Duration 2 years

Maximum Duration 4 years

MEDIUM OF INSTRUCTION/EXAMINATION:

Medium of instruction and Examination shall be English.

PROGRAMMESTRUCTURE

	ONLINE MBA – BUSINESS ANALYTICS					
Term	Core Courses (CRI, CRII, CRIIIA, CRIIIB) CRI+II - (8+3) 11x4 Credits CRIIIA - 1x4 Credits CRIIIB - 1x6 Credits	Discipline Specific Electives (DSE) 6x6 Credits	Ability Enhancement Courses (AECC) 1x4 Credits	Generic Electives (GE) 2x4 Credits	Credits	
I	Discipline Specific Core - I Discipline Specific Core - II Discipline Specific Core - III Discipline Specific Core - IV Discipline Specific Core - V				20	
	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	
	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	36 Credits	4 Credits	8 Credits	102	

		PROGRAMME SCHEME				
COURSE TYPE	COURSE CODE	COURSE TITLE	Cr.	CA	ETE (Th.)	ETE (Pr.)
	TERM 1					
DSC-I	EACC506	FINANCIAL REPORTING, STATEMENTS AND ANALYSIS	4	30	70	0
DSC-II	EECO515	MANAGERIAL ECONOMICS	4	30	70	0
DSC-III	EMGN578	INTERNATIONAL BUSINESS ENVIRONMENT	4	30	70	0
DSC-IV	EMKT503	MARKETING MANAGEMENT	4	30	70	0
DSC-V	EMGN581	ORGANISATIONAL BEHAVIOUR AND HUMAN RESOURCE DYNAMICS	4	30	70	0
		TERM 2				
DSC-VI	EFIN542	CORPORATE FINANCE	4	30	70	0
DSC-VII	EOPR639	OPERATIONS MANAGEMENT AND RESEARCH	4	30	70	0
DSC-VIII	EMGN801	BUSINESS ANALYTICS	4	30	70	0
DSC-IX	EMGN832	RESEARCH METHODOLOGY	4	30	70	0
DSC-X	EBSL605	LEGAL ASPECTS OF BUSINESS	4	30	70	0
AECC-I	EPEL537	COMMUNICATION FOR LEADERS		30	70	0
		TERM 3				
DSE-I	EMGN551	SPREADSHEET MODELLING USING EXCEL	6	30	0	70
DSE-II	EMGN534	PREDICTIVE ANALYTICS	6	30	40	30
DSE-III	EMKT507	WEB AND SOCIAL MEDIA ANALYTICS	6	30	0	70
DSC-XI	EMGN571	CORPORATE STRATEGY AND ENTREPRENEURSHIP	4	30	70	0
GE-I		GENERIC ELECTIVE I	4	30	70	0
CR-IIIA	EMGN583	SEMINAR ON SUMMER TRAINING OR	4	0	0	100
		Course from the GE basket 1 which is not chosen as Generic Elective (GE).	4	30	70	0
	TERM4					
DSE-IV	ECAP782	ADVANCE DATA VISUALIZATION	6	30	40	30
DSE-V	ECAB302	BIG DATA ANALYTICS	6	30	70	0
DSE-VI	EMKT535	FUNCTIONAL ANALYTICS	6	30	70	0
GE-II		GENERIC ELECTIVE II	4	30	70	0
CR-IIIB	EMGN696	CAPSTONE PROJECT	6	0	0	100
		TOTAL CREDITS	10)2		

	GENERIC ELECTIVE (GE) BASKET (PICK ANY ONE AREA)							
S. No.	Course Code	Course Title	Area	Cr.	CA	ETE (Th.)	ETP (Pr.)	Term
1	EPEA515	ANALYTICAL SKILLS-I	Professional Enhancement	4	30	70	0	3
2	EPEA516	ANALYTICAL SKILLS-II	Professional Enhancement	4	30	70	0	4
3	EENG539	ACADEMIC ENGLISH	English Language	4	30	70	0	3
4	EENG514	INTRODUCTION TO THE STUDY OF LANGUAGE	English Language	4	30	70	0	4
5	EENG519	POST-INDEPENDENCE INDIAN LITERATURE	English Literature	4	30	70	0	3
6	EENG527	POSTCOLONIAL LITERATURES AND CULTURAL STUDIES	English Literature	4	30	70	0	4
7	EPOL525	POLITICAL INSTITUTIONS IN INDIA	Political Science	4	30	70	0	3
8	EPOL527	PUBLIC POLICY AND GOVERNANCE IN INDIA	Political Science	4	30	70	0	4
9	ESOC515	FUNDAMENTALS OF SOCIOLOGY	Sociology	4	30	70	0	3
10	ESOC506	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 against Seminar on Summer Training from the Generic Basket 1 which is not chosen as GE.

Course code	EACC506	Course Title	FINANCIAL REPORTING,
			STATEMENTS AND ANALYSIS

WEIGHTAGES		
CA ETE(Th.)		
30	70	

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,		
11 :10	Meaning, Cost Concepts and Cost Classification Budgetary Control: Need and Steps involved in Budgetary Control, Meaning and Types		
Unit 8			
11:+ 0	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		
IIi. 11	V		
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,		
IInit 12	Exploration of New Markets, Continue or Discontinue a Product Line. Transfer Printing Manning and Importance Advantages and Limitations Methods of		
Unit 12	Transfer Pricing: Meaning and Importance, Advantages and Limitations, Methods of		
Unit 13	Calculating Transfer Price		
UIIIL 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.		
OIIIL 14	Nesponsionity Accounting. Concept and Significance, Elements, Nesponsionity Centers.		

- 1. MANAGEMENT ACCOUNTING by KHAN M.Y AND JAIN P.K, MCGRAW HILL EDUCATION
- 2. FUNDAMENTALS OF COST ACCOUNTING by WIILIAM 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	EECO515	Course Title	MANAGERIAL ECONOMICS

WEIGHTAGES			
CA ETE(Th.)			
30	70		

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	•			
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			
omit 12	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			

- 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 sode	EMGN578	Course Title	INTERNATIONAL BUSINESS
Course code	EMGN3/0	Course Title	ENVIRONMENT

WEIGHTAGES			
CA ETE(Th.)			
30	70		

- CO1: analyze business environment and trends to take decisions with respect to international business operations
- CO2: interpret and apply international trade theories in international business operations
- CO3: identify and critically analyse the role of foreign exchange market and usage of fundamental instruments for currency exchange
- CO4: develop skills on analysing the business data, and problem solving in other functional areas such as marketing, business strategy and human resources
- CO5: develop responsiveness to contextual social issues/ problems and exploring solutions, understanding business ethics and resolving ethical dilemmas
- CO6: identify aspects of the global business and cross-cultural understanding

Unit No.	Content
Unit 1	Overview of international business environment: Globalization and international
	Business; introduction to international business, types of 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
** ** 6	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
IIi+ O	arrangement, determinants of exchange Rates, exchange rate movements and their impact
Unit 8	Global Debt and Equity Markets: Euro Currency market, offshore financial centres,
Unit 9	International Banks, Non-Banking Financial service firms; stock markets Global Competitiveness: Export Management, Technology and global Competition, world
Unit 9	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

- 1. Daniels, Radebaugh, Sullivan & Salwan, International Business Environments and Operations by Pearson
- 2. International Business Competing in the Global marketplace by Charles W Hill, Arun Kumar Jain, McGraw Hill

Course code	EMKT503	Course Title	MARKETING MANAGEMENT

WEIGHTAGES	
CA	ETE(Th.)
30	70

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
IInit (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
	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
Onit 7	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
IIni+ 11	performance appraisal of distribution middlemen Distribution decisions decisions involved in setting up the shappel shappel
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

- 1. Kotler, P. & Keller, K. L. (2017). Marketing Management. Pearson
- 2. McCarthy, E. J., Cannon, J. & Perreault, W. (2014). Basic Marketing. McGraw-Hill Education
- **3.** Etzel, M. J., Walker, B. J., Staton, W. J., & Pandit, A. (2010). Marketing Concepts and Cases. Tata McGraw Hill

Course Code	EMGN581	Course Title	ORGANISATIONAL BEHAVIOUR AND
			HUMAN RESOURCE DYNAMICS

WEIGHTAGES	
CA	ETE(Th.)
30	70

- **CO1**: enumerate the concept of management practices and organizational behavior
- **CO2**: develop and sharpen acumen of how different management thoughts can be used to improve organization functioning
- **CO3**: analyze the importance of management practices and important organizational behavior dimensions at different levels of organization
- **CO4**: appraise the dynamics of industrial relations and to manage them as per statutory regulations
- **CO5**: 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, Job Design and its approaches, Process of Job Analysis		
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

- 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 Varkkey, B, Pearson

Course Code EFIN542 Course Title CORPORATE FINANCE
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WEIGHTAGES	
CA	ETE(Th.)
30	70

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: An 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.
	Money Market Instruments: Treasury Bills, Commercial Papers, Certificate of Deposits,
Unit-3	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
	Investment Decisions: Capital Budgeting Decisions, Rationale of Capital Budgeting,
Unit-5	Non-Discounting Capital Budgeting Techniques - Payback period, Profitability Index,
	Accounting Rate of Return
**	Investment Decisions: Discounting Techniques of Capital Budgeting - NPV, IRR,
Unit-6	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
	Financing Decisions : Capital Structure, Theories and Value of the firm - Net
	Income Approach, Net Operating Income Approach, Traditional Approach, Modigliani
Unit-8	Miller Model, Determining the optimal Capital Structure, Checklist for Capital Structure
	Decisions, Costs of Bankruptcy and Financial Distress.
** ** 0	EBIT-EPS Analysis: Concept of Leverage, Types of Leverage: Operating Leverage,
Unit-9	Financial Leverage, Combined Leverage.
IIit 10	Dividend Decisions: Factors determining Dividend Policy, Theories of Dividend Gordon
Unit-10	Model, Walter Model, MM Hypothesis
Unit-11	Forms of Dividend: Cash Dividend, Bonus Shares, Stock Split, Stock Repurchase,
OIIIC-11	Dividend Policies in practice.
Unit-12	Working Capital Management: Working Capital Policies, Risk-Return trade-off, Cash
Onit-12	management, Receivables management
	Corporate Governance: Value-based Corporate culture, Disclosures, transparency and
Unit-13	accountability, Corporate Governance and Human Resource Management, Evaluation of
Omt-13	performance of board of directors, Succession planning, Public sector undertakings and
	corporate governance, Insider trading, Lessons from corporate failure
	Economic outlook and Business Valuation: Impact of changing business environment
Unit-14	on corporate valuation, climate change and corporate valuation, Business sustainability
	and corporate valuation, Role of environmental, social, and governance (ESG) factors in
	corporate valuation

- 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 EOPR639 Course Title 0	OPERATIONS MANAGEMENT AND RESEARCH
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WEIGHTAGES	
CA	ETE(Th.)
30	70

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
Ullit- 1	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

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

Course code	EMGN801	Course Title	BUSINESS ANALYTICS

WEIGHTAGES	
CA	ETE(Th.)
30	70

- 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
Unit 3	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
Ome i	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 business- 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,
11!- 10	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
Omtil	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

- 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	EMGN832	Course Title	RESEARCH METHODOLOGY

WEIGHTAGES	
CA	ETE(Th.)
30	70

- 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
TT '1 C	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,
Heit 7	statistical properties of different scales
Unit 7	Data collection methods- Observation, experimentation and survey methods,
Unit 8	questionnaire: introduction, design process and coding the questionnaire Descriptive statistics and time series- Measures for central tendency- ungrouped and
Onto	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 proposal- Purpose, nature and evaluation-Content and format-
	Practical considerations-timelines, budgets, supervision management- Presentation
	and defense of proposals.

- 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 EBSL605	Course Title	LEGAL ASPECTS OF BUSINESS
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WEIGHTAGES	
CA	ETE(Th.)
30	70

- CO1: apply the statutory provisions related to Contract Act and Sales of Goods Act in business organizations.
- CO2: use legal rights and remedies by applying the provisions related to Consumer and Intellectual Property Rights.
- CO3: analyze the legal issues related to Negotiable Instruments
- CO4: interpret the legal implications of FEMA and Competition Act in designing various business policies and strategies.
- CO5: 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 and trademarks, trade secret,
	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 mis-statement 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.

References:

- 1. A TEXTBOOK OF COMPANY LAW by P P S GOGNA, S Chand Publishing
- 2. A HANDBOOK ON CORPORATE AND OTHER LAWS by CA CS MUNISH BHANDARI, Bestword Publications Pvt. Ltd.
- 3. LEGAL ASPECTS OF BUSINESS: CONCEPTS AND APPLICATIONS by PARUL GUPTA, VIKAS PUBLISHING HOUSE

Course code	EPEL537	Course Title	COMMUNICATION FOR LEADERS
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WEIGHTAGES		
CA	ETE(Th.)	
30	70	

CO1: develop critical thinking skills employed in small groups and public speaking

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

CO3: formulate business queries and respond to any reason related to 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
TIit 4	of tenses, infinitives, reference devices, position of adverbs, transitional markers,
Unit 4	Sentences : cleft sentences, synthesis of sentences, complex sentences, conditional
TIiE	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
Onico	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
TT 1: 40	various business possibilities, argument building for persuasion
Unit 10	Presentation Skills : do's and don'ts of presentation skills, presenting information and
Unit 11	business proposals, making a short talk Pole Play and debate, useful vessbulary and phrases, assuming and reacting in different
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 EMGN551 Course T	le SPREADSHEET MODELLING USING EXCEL
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WEIGHTAGE			
CA	ETE (Th.)	ETE (Pr.)	
30	0	70	

- **CO1**: Demonstrate the principles of a good spreadsheet design and effectively present the analysis and results.
- **CO2**: Obtain basic knowledge of commonly used analytic tools in processing quantitative information and making quantitative business decisions.
- **CO3**: Analyze data using excel functions and various data management tools in order to gain greater insights to key business drivers.
- **CO4**: Develop robust and dynamic models that automatically change through the use of text, date and time functions
- **CO5**: Develop VBA spread sheet-based solutions to financial problems.
- **CO6**: Apply macros for automating tasks in spreadsheet for efficient decisions and effectively present the analysis and results

List of Practicals / Experiments:

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

READING:

THE HYPERDOC HANDBOOK: DIGITAL LESSON DESIGN USING GOOGLE APPS by LISA HIGHFILL, KELLY HILTON, SARAH LANDIS, EDUCREATION PUBLISHING

References

GOOGLE DRIVE AND DOCS IN 30 MINUTES by IAN LAMONT, EDUCREATION PUBLISHING

WEIGHTAGE			
CA	ETE (Th.)	ETE (Pr.)	
30	40	30	

CO1: explain the basics of data processing and its implementation by using R programming Language.

CO2: discuss the basics of classification by using Supervised Learning Algorithms

CO3: use of different Supervised Learning techniques to predict numeric values

CO4: demonstrate the predictive models by using Neural networks and Support vector machines

CO5: categorize the data by implementing unsupervised Learning Algorithms

CO6: illustrate the techniques to evaluate the model performance and various methods to improve it

** ** **	
Unit No.	Content
Unit-1	Understand of data : Managing data, Exploring and understanding data, Exploring the structure of data
	Data Preprocessing - I : Exploring numeric variables, exploring categorical variables,
Unit-2	exploring relationships between variables, Splitting the dataset into the Training set
	and Test set, Feature Scaling
Unit-3	Data Preprocessing - II: Splitting the dataset into the Training set and Test set,
	Feature Scaling
Unit-4	Regression - I: Simple Linear Regression Intuition, Simple Linear Regression
	Implementation Page 2 gior II. Multiple Linear Regression Intuition Multiple Linear Regression
Unit-5	Regression - II: Multiple Linear Regression Intuition, Multiple Linear Regression Implementation, Correlations
Unit-6	Regression - III: Polynomial Linear Regression Intuition, Polynomial Linear Regression Implementation, Decision Tree, random Forest
Unit-7	Evaluation Classification Model Performance: False positive and False Negative,
	Confusion matrix, CAP Curve
Unit-8	Classification - I: Logistic Regression Intuition, Logistic Regression Implementation,
	KNN Intuition, KNN implementation Classification - II: Naïve bayes Intuition, Naïve Bayes Implementation, SVM for
Unit-9	classification
	Classification - III: Decision Tree for classification, Random Forest for
Unit-10	classification
Unit-11	Defining Relationship between Numeric Values: Implementation of Ordinary least
- Oint 11	squares estimation and Correlation algorithms.
Unit-12	Clustering - I : K-Mean Clustering, K-Mean random initialization trap, Selecting the
	number of clusters, K-Mean Implementation
Unit-13	Clustering - II: Hierarchal clustering Intuition, Dendrograms, find the right number
	of clusters, Hierarchal Clustering Implementation
Unit-14	Association Rule learning: Apriori Intuition, Apriori Implementation, Market basket
Analysis	
Unit-15	Dimensionality reduction: Principal Component Analysis, Linear Discriminant Analysis
Unit-16	Neural Network - I: The neuron, Activation Function, Gradient Descent, Stochastic
	Gradient Descent, Back-Propagation
Unit-17	Neural Network - II: ANN Intuition, ANN Implementation
	, · · · · · · · · · · · · · · · · · · ·

Unit-18	Model Selection & Boosting: K- Fold Cross Validation, Grid Search		
Unit-19	XGBoost: XGBoost Intuition, XGBoost Implementation		
Unit-20	Model Performance Testing : Evaluation Model Performance, Improving Model Performance		

THE HYPERDOC HANDBOOK: DIGITAL LESSON DESIGN USING GOOGLE APPS by LISA HIGHFILL, KELLY HILTON, SARAH LANDIS, EDUCREATION PUBLISHING

References:

GOOGLE DRIVE AND DOCS IN 30 MINUTES by IAN LAMONT, EDUCREATION PUBLISHING

Course Code	EMKT507	Course Title	WEB AND SOCIAL MEDIA ANALYTICS

WEIGHTAGE			
CA	ETE (Th.)	ETE (Pr.)	
30	0	70	

- **CO1**: Use various Application Programming Interface (API) services to collect data from different social media sources such as YouTube, Twitter etc.
- **CO2**: Illustrate processing the collected data using different methods to derive insights about the data.
- **CO3**: Analyze unstructured data primarily textual comments –for sentiments expressed in them.
- **CO4**: Use different libraries for collecting, analyzing, and exploring social media data for research and development purposes
- CO5: Use the R-markdown language to generate dashboards for presenting data
- **CO6:** Identify the role of social media data and analytics in helping organizations achieve their goals and understand their publics

Unit No.	Content
Unit-1	Introduction: Social Media Analytics, Web Analytics, Google Analytics
Unit-2	Installation: Use of R for Social Media Analytics, R installation, R/RStudio Setup Guide (on Windows), libraries in R and R studio, Installation of Packages
Unit-3	Collecting and Extracting Social Media Data - I: Collecting Data from Twitter and YouTube, Creating Developer's Account, exploring libraries for data collection
Unit-4	Collecting and Extracting Social Media Data - II: Twitter data download, Scraping YouTube comments, Web Scraping using rvest
Unit-5	Data Analysis: Social Media Data Analysis with R, Statistical Analysis with R
Unit-6	Visualization, and Exploration: Scripts for converting json to csv, Data Visualization with ggplot2 (R), Statistical Analysis with Twitter Data
Unit-7	Case Studies Social Media Analysis - I: Sentiment Analysis with Twitter Data, Text Mining of Twitter Data,
Unit-8	Case Studies Social Media Analysis - II: YouTube Comments Analysis, Word Clouds in R
Unit-9	Visitor Insights: Understanding Segmentation, Visitors Versus Visitors by Type, extract visitor data
Unit-10	Social media analytics in R - I: segmentation of revenue sources by class of product
Unit-11	Social media analytics in R - II: design an effective marketing campaign, Segmented Email Campaigns, Email open Rates
Unit-12	Web Analytics - I: Web Analytics, Google Analytics
Unit-13	Web Analytics - II: Use of R for Web Analytics, Installing and Setting Up Google Analytics Account,
Unit-14	Web Analytics - III: Google Analytics R Package, performing basic authentication and query in R
Unit-15	Dashboards - I: Creating Dashboards in R, Benefits of Dashboarding
Unit-16	Dashboards - II: Combining Results of Multiple Analyses, Flex dashboards
Unit-17	Dashboards - III : Demonstration of a dashboard generated using flex dashboard in RStudio, Understanding Visitors to a site, how does Google track visitors
Unit-18	Case study Web Analytics - I: Demonstration of building business dashboard in R
Unit-19	Case study Web Analytics - II: Interpretation of business dashboard
Unit-20	Case study Web Analytics - III: recommended actions to improve results

1. SOCIAL MEDIA ANALYTICS: TECHNIQUES AND INSIGHTS FOR EXTRACTING BUSINESS VALUE OUT OF SOCIAL MEDIA by MATTHEW GANIS, AVINASH KOHIRKAR, IBM.COM/ REDBOOKS

References:

1. DATA ANALYTICS WITH R by DR. BHARTI MOTWANI, WILEY SOCIAL MEDIA ANALYTICS: EFFECTIVE TOOLS FOR BUILDING, INTERPRETING, AND USING METRICS by MARSHALL SPONDER, MC GRAW HILL

Course sode	EMGN571	Course Title	CORPORATE STRATEGY AND
Course code			ENTREPRENEURSHIP

WEIGHTAGES		
CA	ETE(Th.)	
30	70	

- 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 the role of leadership, organizational structure and organizational culture in strategy-implementation
- CO5: analyse the business environment and identify the opportunities for starting up a venture.
- CO6: develop marketing plan, operations plan, HR plan and financial plan for new business ventures

Unit No.	Content		
Unit 1	Strategic management: strategic decisions, strategic management process		
	Strategic intent: mission, vision, goals and objective		
Unit 2	External analysis: remote environment, industry environment, EFE Matrix,		
	Matrix		
	Internal analysis: SWOT analysis, IFE Matrix, Value chain analysis, resource-based view of the firm, benchmarking		
Unit 3	Corporate level strategies: growth strategy, integration strategy, diversification		
	strategy, turnaround strategy, defensive strategy		
Unit 4	International strategy: globalization of firms, global strategic planning, competitive		
	strategies for firms in foreign markets, strategies for emerging markets		
Unit 5	Business level strategy: cost leadership, differentiation, focus		
Unit 6	Multi-business strategy: portfolio approach, BCG growth-share matrix, IE matrix,		
	synergy approach, parenting framework, patching approach		
	Strategy implementation: nature of strategy Implementation, matching structure		
	with strategy, creating a strategy supportive culture		
Unit 7	Evaluation and control: nature of strategy evaluation, strategy evaluation		
	framework, strategic control, balanced scorecard		
	Contemporary Issues: corporate governance, business ethics, social responsibility,		
II '- 0	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, women		
Onit)	entrepreneurship, intrapreneurship, 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		
01110 20	ideas selection, feasibility study, legalities involved for business plan, forms of		
	ownership, SWOT Analysis		
Unit 11	Strategic Marketing plan: segmentation, targeting, positioning, marketing mix (7P),		
	product mix, promotions mix, Pricing strategies		
Unit 12	Strategic Operations plan: people and suppliers, manufacturing or outsourcing		
	plant size, location decision, inventory management		
Unit 13	Strategic Human resources plan: manpower planning, organization structure,		
	recruitment, selection, training and development, motivational techniques,		
	performance appraisal		

Unit 14	Strategic Financial plan: capital requirement, sources of funds, break even analysis,
	balance sheet, cash flows, payback period, ROI (return on investment)

- 1. STRATEGIC MANAGEMENT by JOHN PEARCE II, RICHARD B ROBINSON, AMITA MITAL, MCGRAW HILL EDUCATION
- 2. STRATEGIC MANAGEMENT by HITT, IRELAND, HOSKISSON, MANIKUTTY, CENGAGE LEARNING

Course code	ECAP782	Course Title	ADVANCE DATA VISUALISATION
course coue	Edin 702	course ricie	TID THIT OF DITTIL TID OF LEIGHT TO IT

WEIGHTAGE			
CA	ETE (Th.)	ETE (Pr.)	
30	40	30	

- Discuss the terminology used in Tableau Prep.
- Identify how Tableau Prep approaches data sampling.
- Construct and understand data prep flows that address common scenarios encountered in data preparation, as applied to common data use cases.
- Review the quality of the data and perform exploratory analysis.

Unit No.	Content
Unit 1	Introduction to Data Visualization: Acquiring and Visualizing Data, Simultaneou
	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 da
	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 fo
	data, Creating and Using Sets Create data filters, create calculated fields, combine dat
	sources using data blending, Creating & using Parameters, Bringing in More data with
	Joins
Unit 6	Advance Data Visualization/Graph:
	Bar Chart i. Stacked Bar Chart ii. Bar in Bar Chart iii. Combo Chart •
	Line Chart i. Single Axis ii. Dual Axis iii. Blended Axis •
	Dual Axis Chart i. Line ii. Bar iii. Lollipop Chart iv. Donut v. Bullet Graph vi. Histogram
	Chart vii. Animated Graph •
Unit 7	Building View Advance Map Option: Explain latitude and longitude, Defaul 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 Ran • Advanced Approach to Calculate Rank • Calculating Running Total • Filter
	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, Pivotin
	&Transforming data, Blue & green pills Filters, Blue & green pills effect on date:
	cleaning data by Bulk Re-aliasing, setting data defaults, create hierarchies to drill dow
	into data, Creating groups for data, Create calculated fields
Unit 10	Making Comparisons and Basic Calculation: Sorting, Calculation – String, Basic, Dat
Onit 10	and Logic, Continuous and Discrete data, Working with Dates, Creating calculated Field
	i. Logical Function ii. Case if Function iii. ZN Function iv. Else if Function v. Ad-ho
	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
	35

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		
** 1: 40	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,		
Unit 19	networks, software, Metaphorical visualization Visualization of Data with advanced technology: Visualization data with advanced		
Omt 17	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:

• DESIGNING DATA VISUALIZATIONS: REPRESENTING INFORMATIONAL RELATIONSHIPS by JULIE STEELE, NOAH ILIINSKY, KINDLE EDITION

Reference

• MASTERING PYTHON DATA VISUALIZATION PAPERBACK by KIRTHI RAMAN, PACKT PUBLISHING

Course Code	ECAB302	Course Title	BIG DATA ANALYTICS		
				WI	EIGHTAGE
				CA	ETE (Th.)
				30	70

CO1: analyze the need and importance of fundamental concepts and principles of Big DataCO2: apply internal functioning of different modules of Big Data and HadoopCO3: evaluate the big data ecosystem and appreciate its key components

Unit No.	Content
IIi. 1	Introduction to Big Data: Big Data and its importance, The V's of Big Data, Challenges
Unit- 1	and Applications of Big Data, Tools used in Big Data Scenario.
Unit- 2	Foundations for Big Data: Distributed file system, scalable computing over internet,
	programming models for big data.
Unit- 3	Data Models: Data model vs. data format, data stream, understanding data lakes,
ome 5	exploring streaming sensor data.
	NOSQL Data Management: Introduction to NoSQL, aggregate data models, aggregates
Unit- 4	key-value and document data models relationships, graph databases, schema less
	databases, materialized views, distribution models, sharding, version, Map reduce
	partitioning and combining, composing map-reduce calculations.
	Introduction to Hadoop: Understand what Hadoop is, learning about other open-
Unit- 5	source software related to Hadoop, understand how Big Data solutions can work on the
	Cloud, Hadoop - Big Data Overview, Hadoop - Big Data Solutions.
Unit- 6	Hadoop Administration: Hadoop - Environment Setup, Hadoop - HDFS Overview,
	Starting HDFS, Hadoop - Command Reference.
IIi. 7	Hadoop Architecture: Understand the main Hadoop components, learn how HDFS
Unit- 7	works, List data access patterns for which HDFS is designed, describe how data is stored
	in an HDFS cluster.
II:- 0	Hadoop Master Slave Architecture: Hadoop – Map Reduce, Hadoop – Streaming,
Unit-8	Hadoop – Multi Node Cluster, Creating User Account, Configuring Key Based Login,
	Installing Hadoop and Configuring Hadoop on Master Server. Hadoop Node Commands: Configuring Master Node, Configuring Slave Node, Format
Unit- 9	Name Node on Hadoop Master, Starting Hadoop Services, Adding a New Data Node in
UIIIt- 9	the Hadoop Cluster, Adding User and SSH Access.
	Map Reduce Applications: Map Reduce workflows – unit tests with MR Unit – test data
	and local tests, anatomy of Map Reduce job run, classic Map-reduce, YARN failures in
Unit- 10	classic Map-reduce and YARN job scheduling, shuffle and sort, task execution, Map
	Reduce types, input formats, output formats.
	Hadoop Ecosystem: Applications on Big Data Using Pig and Hive, Data processing
Unit- 11	operators in Pig, Hive services, HiveQL, Querying Data in Hive, fundamentals of HBase
	and Zookeeper, IBM Info Sphere Big Insights and Streams.
	Predictive Analytics: Simple linear regression- Multiple linear regression-
Unit- 12	Interpretation of regression coefficients. Visualizations, Visual data analysis techniques,
	interaction techniques, Systems and applications
II:. 40	Data Analytics with R: Machine Learning, Introduction, Supervised Learning,
Unit- 13	Unsupervised Learning, Collaborative Filtering, Big Data Analytics with Big R.
	Big data management using SPLUNK: data integration process, Big Data Management
Unit- 14	and Processing using Datameer, Installing Splunk Enterprise on Windows, Installing
	Splunk Enterprise on Linux, Exploring Splunk Queries.
Unit- 15	Natural Language Processing (NLP): Introduction to NLP, Text Preprocessing
omr. 12	Techniques, Sentiment Analysis and Named Entity Recognition (NER)
Unit- 16	Big Data Security and Privacy: Challenges in Big Data Security, Access Control and

	Encryption Techniques, Compliance and Regulatory Considerations
Unit- 17	Big Data Governance and Ethics: Data Governance Frameworks, Ethics in Big Data
Unit- 17	Analytics, Data Privacy Laws and Regulations
	Big Data Applications and Case Studies: Industry-Specific Applications (Healthcare,
Unit- 18	Finance, Retail, etc.), Case Studies of Successful Big Data Implementations, Emerging
	Trends and Future Directions in Big Data Analytics
	Scalable Data Storage and Management: Introduction to NoSQL Databases
Unit- 19	(MongoDB, Cassandra, etc.), Scalable Data Storage Solutions (HBase, Amazon
	DynamoDB, etc.), Data Lake Architecture and Implementation
Unit- 20	Capstone Project: Final Project to Apply Knowledge and Skills, Real-World Big Data
UIIIt- 20	Analytics Project, Presentation and Demonstration of Capstone Project

List of Practical's / 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

References:

1. MINING OF MASSIVE DATASETS by JURE LESKOVEC, ANAND RAJARAMAN, JEFF ULLMAN, STANFORD UNIVERSITY PRESS

Course Code	EMKT535	Course Title	FUNCTIONAL ANALYTICS		
			-	WI	EIGHTAGE
				CA	ETE (Th.)
				30	70

CO1: focus on the role and importance of analytics in functional areas of business.

CO2: apply analytical techniques and tools to analyze data in marketing, finance, operations, and human resources.

CO3: develop critical thinking and problem-solving skills through practical application of analytics.

CO4: analyze analytical findings effectively to both technical and non-technical stakeholders.

Unit No.	Content
Unit 1	Overview of analytics in business functions:
	Types of business analytics (descriptive, predictive, prescriptive)
	• Applications of analytics in different functions (marketing, finance, HR, operations)
	Benefits and challenges of using analytics in business
Unit 2	Role of analytics in decision-making:
	Data-driven decision-making frameworks
	Identifying the right data for decision-making
	Communicating analytics insights for effective decision support
Unit 3	Data Collection and Preparation:
	Methods of data collection (surveys, interviews, sensors, social media)
	Data quality management practices
	Data cleaning and transformation techniques
Unit 4	Descriptive Analytics-Exploratory data analysis:
	Central tendency measures (mean, median, mode)
	Variability measures (range, standard deviation, variance)
	Data visualization techniques (bar charts, histograms, scatter plots)
	Statistical analysis techniques (hypothesis testing, correlation analysis)
Unit 5	Key performance indicators (KPIs) and metrics:
	Developing KPIs aligned with business goals
	Examples of KPIs in different business functions
	Selecting the right metrics to track KPIs
	Building dashboards for KPI monitoring
Unit 6	Customer segmentation and targeting:
	Customer segmentation methods (demographic, behavioral, psychographic)
	Developing customer personas for different segments
	Targeted marketing strategies for specific segments
Unit 7	Marketing Mix Optimization:
	The 4Ps of marketing (product, price, place, promotion)
	Market research techniques for optimizing the marketing mix
	A/B testing for marketing campaigns
	Marketing attribution modeling
Unit 8	Customer churn prediction:
	Customer churn factors (price dissatisfaction, poor service quality)
	Customer lifetime value (CLV) analysis
	Developing churn prediction models using machine learning
	Retention strategies to reduce churn
Unit 9	Financial statement analysis:
	• Understanding the three main financial statements (income statement, balance
	sheet, cash flow statement)
	• Financial ratios and their interpretation (liquidity ratios, profitability
	ratios, solvency ratios)

	- Common size statements and trend analysis
	Common-size statements and trend analysis Financial foregraphing techniques.
11	Financial forecasting techniques Distribution Property Property
Unit 10	Risk assessment and management:
	• Identifying and classifying different types of risks
	(financial, operational, compliance)Risk quantification methods
	Developing risk mitigation strategies
	Business continuity planning
Unit 11	Portfolio optimization:
Omt 11	 Modern portfolio theory (MPT) concepts (risk-return trade-off, efficient frontier)
	 Asset allocation strategies based on risk tolerance
	 Performance evaluation of investment portfolios
Unit 12	Supply chain optimization:
OIIIC 12	Supply chain network design (inventory management, transportation optimization)
	 Supplier relationship management (SRM)
	 Demand forecasting techniques
	Logistics and distribution planning
Unit 13	Process improvement and efficiency:
	Lean Six Sigma methodology
	Process flow mapping and analysis
	Identifying bottlenecks and root causes of inefficiencies
Unit 14	Quality control and defect reduction:
	Statistical process control (SPC) techniques
	Six Sigma defect reduction methodologies
	Quality management systems (ISO 9001)
	Total quality management (TQM) principles
Unit 15	Employee attrition analysis:
	Reasons for employee turnover (dissatisfaction, lack of growth opportunities)
	Cost of employee turnover
	Developing employee retention strategies
	Employee engagement surveys
Unit 16	Diversity and inclusion analytics:
	Measuring diversity metrics (workforce demographics, pay equity)
	Identifying unconscious bias in decision-making
	Promoting diversity and inclusion initiatives
IIi. 45	Analytics for tracking progress on D&I goals
Unit 17	Workforce planning and succession:
	Forecasting future workforce needs based on business strategy Skills gap analysis.
	Skills gap analysisIdentifying and developing high-potential employees
	 Succession planning for key leadership positions
Unit 18	Hands-on projects applying predictive analytics techniques:
omit 10	 Regression analysis for predicting continuous variables
	 Classification algorithms for predicting categorical outcomes
	Time series forecasting techniques
	Building and evaluating predictive models
Unit 19	Real-world examples of predictive analytics in management:
- 	Case studies of successful applications of predictive analytics in different industries
	Ethical considerations in using predictive analytics
Unit 20	Application of AI tool in predictive analytics:
	Machine learning algorithms for predictive modeling (e.g., decision trees, random
	forests)
	Natural language processing (NLP) for text analytics

- Computer vision for image and video analysis
- Deep learning architectures for complex predictions

Text Books:

1. BUSINESS INTELLIGENCE, ANALYTICS AND DATA SCIENCE by RAMESH SHARDA, DURSUN DELEN, EFRAIM TURBAN, PEARSON

References:

1. MARKETING ANALYTICS by MOUTUSY MAITY, PAVANKUMAR GURAZADA, OXFORD & IBH

Course code	EPEA515	Course Title	ANALYTICAL SKILLS-I		
			-	WI	EIGHTAGE
				CA	ETE (Th.)

30 70

Course Outcomes:

CO1: observe the basic concepts of reasoning and quantitative aptitude

CO2: apply the learned concepts to solve the company specific reasoning and quantitative aptitude tests

CO3: analyze the problem and use logic to interpret and handle different situations

CO4: understand the concepts to solve the problems in given time

CO5: reproduce the concepts and use it to solve the applications

CO6: evaluate the knowledge by cracking online tests

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

- 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 ANALYTICAL REASONING BY M.K. PANDEY, BANKING SERVICE CHRONICLE

Course code	EPEA516	Course Title	ANALYTICAL SKILLS-II		
				WI	EIGHTAGE
				CA	ETE (Th.)
				30	70

CO1: apply logical reasoning to understand, interpret and handle different situations.

CO2: solve efficiently the company specific logical reasoning tests.

CO3: apply logical reasoning to prioritize and manage time.

CO4: decide to build the logic

CO5: examine the problem and handle it

CO6: apply the logics

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, facts
	Insert the missing character: set of figures, set of arrangements, set of matrix
Unit 12	Data sufficiency: check sufficiency of data to answer the given questions, Coding
	inqualities: 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

- 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	EENG539	Course Title	ACADEMIC ENGLISH		
			-	WI	EIGHTAGE
				CA	ETE (Th.)
				30	70

CO1: differentiate between a range of authentic academic texts

CO2: observe actively to lectures, presentations and interviews to understand key information

CO3: construct a variety of essays and other assignments

CO4: appraise academic grammar

CO5: 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

- 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 CHAZAL AND SAM MCCARTER, OXFORD UNIVERSITY PRESS
- 4. MLA HANDBOOK by MODERN LANGUAGE ASSOCIATION OF AMERICA, MODERN LANGUAGE ASSOCIATION.

Course code	EENG514	Course Title	INTRODUCTI L	ON TO TH ANGUAGE	
				WE	EIGHTAGE
				CA	ETE (Th)

CA ETE (Th.) 30 70

Course Outcomes:

CO1: identify vowels and consonants in phonetics

CO2: distinguish between different parts of speech organs, place of articulation and manner of articulation

CO3: 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			

- 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
- 5. MODERN LINGUISTICS: AN INTRODUCTION by VERMA, S.K & N. KRISHNASWAMY, OXFORD UNIVERSITY PRESS

Course code	EENG519	Course Title	 EPENDE! ITERATU	NCE INDIAN IRE
			WI	EIGHTAGE

WEIGHTAGE			
CA	ETE (Th.)		
30	70		

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			

- 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	EENG527	Course Title	ONIAL LITERATURES JLTURAL STUDIES
			WEIGHTAGE

WEIGHTAGE			
CA ETE (Th.)			
30	70		

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 applicati			
	of Bhabha's theory of hybridity, loss of identity of Feroza in America, cultural conf			
	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			
TT 1: 40	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 Bhabaha, Makak and his confrontation with the			
II:4 12	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				
UIIIL 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			

- 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	EPOL525	Course Title	POLITICAL	INSTITUTIONS IN INDIA
			-	WEIGHTAGE

WEIGHTAGE			
CA ETE (Th.)			
30	70		

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	Making of the Indian Constitution: Indian national movement to the making of the			
OIIIt-1	Indian constitution			
Unit-2	Constituent Assembly: composition of constituent assembly, ideological moorings,			
UIIIt-Z	constitutional debates			
Unit-3	Philosophy of the Constitution: preamble, fundamental rights, directive principles of			
UIII-3	state policy			
Unit-4	Constitutionalism in India: democracy, social change, national unity, checks and			
UIIIt-4	balances, basic structure debates, constitutional amendments			
Unit-5	Union executive : president as the head of the state, prime minister and council of			
UIII-3	ministers			
Unit-6	Union Parliament: structure of the union parliament, role and functioning,			
UIII-U	parliamentary committees			
Unit-7	Judiciary part - I: Supreme Court, high court			
Unit-8	Judiciary part - II: judicial review, judicial activism, judicial reform			
Unit-9	State executive: Governor, Chief Minister and council of ministers			
Unit-10	State Legislature: Legislative council and Legislative assembly			
	Federalism in India: strong centre framework, asymmetrical federal provisions and			
Unit-11	adaption, role of intergovernmental coordination mechanisms, inter-state council,			
	emerging trends.			
Unit-12	Electoral Process and Election Commission of India: conduct of elections, rules,			
UIIIt-12	electoral reforms. functioning and reforms of the local government Institutions			
Unit-13	Constitutional and Statutory Bodies Part - I: Comptroller and Auditor General,			
UIIIt-13	National Commission for Scheduled Castes, National Commission for Scheduled Tribes			
Unit-14	Constitutional and Statutory Bodies Part - II: National Commission for Human			
01111-14	Rights, National Commission for Women, National Commission for Minorities			

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

Course Code	EPOL527	Course Title	PUBLIC POLICY AND GOVERNANG IN INDIA	
			WEIGHTAGE	

WEIGHTAGE		
CA	ETE (Th.)	
30	70	

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 evolution;
Unit-2	Public and private administration Approaches and its replications in India: System Theory, Decision Making,
Unit-3	Ecological Approach Public administration theories and concepts
Unit-4	Scientific Management Theory, Rational Choice theory, New Public Administration, Development Administration
Unit-5	Comparative Public Administration in India
Unit-6	New Public Management
Unit-7	changing nature of Public Administration: Indian public administration in the era of liberalization and Globalisation
Unit-8	Theories and Principles of Organization and its operations in India: Scientific Management Theory, Bureaucratic Theory, Human Relations Theory
Unit-9	Managing the organization: The case of India: Theories of leadership and motivation.
Unit-10	Organizational Communication: Theories and Principles, functioning in India and its impacts
Unit-11	Chester Bernard Principles of Communication, Information Management in the organization Managing
Unit-12	Conflict in the Organization: Mary Parker Follett Management by Objectives- Peter Drucker
Unit-13	Public Policy and Governance in India
Unit-14	Public policy issues and challenges in India.

- 1. Introduction To The Study Of Public Administration by Shafritz, J.M. and Hyde,
- 2. Public Administration in India by Sterling Publications, Streling Publications.

Course Code	ESOC515	Course Title	FUNDAM	ENTALS OF SOCIOLOGY
				WEIGHTAGE

WEIGHTAGE		
CA	ETE (Th.)	
30	70	

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

- **1.** Sociology: Principles of Sociology with an Introduction to Social Thoughts. Rao C.N. Shankar. S Chand.
- 2. Fundamentals of Sociology. Vidya Bhushan. Pearson Education.
- 3. Fundamentals of Sociology Gisbert P. Orient Black Swan. Third edition (2010).
- **4.** Fundamentals of Sociology Rajendra Kumar Sharma. Atlantic.1st edition (2013).

Course Code	ESOC506	Course Title	GLOBALIZATION AND SOCIETY		
				Ţ	WEIGHTAGE
				CA	ETE (Th.)
				30	70

Course Outcomes:

CO1: identify concept of globalization as academic contested

CO2: locate the economic dimension of globalization **CO3:** consider the political dimension of globalization

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
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 environment: Tourism, Pollution, Global warming
Unit-12	Global crises: globalization as an inevitable process, The East Asia crises
Unit-13	Globalization in Indian society
Unit-14	Future of globalization: future of globalization, Broken promises of global institution

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