#### **CURRICULUM STRUCTURE**

#### Semester - I (Total Credit=4\*6=24)

MB – 101 Managerial Economics (Micro)

MB – 102 Organizational Behaviour

MB – 103 Business Communication

MB – 104 Introduction to Data Science and Business Analysis

MB – 105 Indian Ethos and Business Ethics

MB – 106 Quantitative Techniques

# Semester - II (Total Credit=4\*6=24)

MB – 201 Big Data Analytics in Business

MB – 202 Financial Reporting, Statements and Analysis

MB-203 Marketing Management and corporate strategy

MB – 204 Operations Management

MB – 205 Management Information System

MB – 206 Human Resource Management

#### Semester - III

#### Common Papers: (Credit 4\*2=8)

MB – 302 Business Research Method

MB – 301 Entrepreneurship and Project management

#### Major Papers (Core Papers) (Credit 4\*2=8)

BDA – 301: Data Science using R and Python

BDA – 302: Business Intelligence

#### A Minor Papers (any two papers from the following functional areas) (Crdeit4\*2=8)

FM/ HR/MM/MIS-301

FM/HR/MM/MIS-302

FM/ HR/MM/ MIS- 303

FM/HR/MM/MIS - 304

MB – 303 Internship Project and Viva Voice (Credit=4)

#### **Minor Elective Papers for THIRD Semester (any two)**

	FINANCE		HUMAN RESOURCE
CODE	COURSE NAME	CODE	COURSE NAME
FM 301	TAXATION	HR 301	TEAM DYNAMICS AT WORK
FM 302	PROJECT APPRAISAL & FINANCE	HR 302	HR METRICS AND ANALYTICS
FM 303	BEHAVIORAL FINANCE	HR 303	CROSS CULTURAL MANAGEMENT
FM 304	CORPORATE FINANCE	HR 304	ORGANIZATIONAL DESIGN
	MIS		MARKETING MANAGEMENT
MIS 301	DATA MINING FOR BUSINESS DECISIONS	MM 301	B2B MARKETING
MIS 302	E-COMMERCE & DIGITAL MARKETS	MM 302	SALES & DISTRIBUTION MANAGEMENT
MIS 303	MANAGING SOFTWARE PROJECTS	MM 303	IMC/ PROMOTION STRATEGY
MIS 304	DATA SCIENCE USING R	MM 304	MARKETING RESEARCH

#### $\underline{Semester-IV}$

MIS 403

MIS 404

EXCEL

#### A Major Papers (Core Papers) (Four papers from Big Data Analytics) (Credit 4\*4=16)

BDA- 401 Data Visualization with Tableau and Power BI

BDA-402 Marketing Analytics

STRATEGIC MANAGEMENT FOR IT

BUSINESS DECISION USING ADVANCE

BDA-403 Data Mining and Advanced Data Handling

BDA- 404 Machine Learning and Unstructured Data Analytics

(Any Two from Minor Functional areas) (Credit 4\*2=8)

## The Major and Minor Functional areas will be same as chosen in the 3rd Semester.

#### **Minor Elective Papers for Fourth Semester (any two)**

	FINANCE		HUMAN RESOURCE
CODE	COURSE NAME	CODE	COURSE NAME
FM 401	INVESTMENT ANALYSIS & PORTFOLIO	HR 401	MANPOWER PLANNING RECRUITMENT &
	MANAGEMENT		SELECTION
FM 402	MANAGING BANKS & FINANCIAL	HR 402	EMPLOYEE RELATIONS & LABOUR LAWS
	INSTITUTIONS		
FM 403	MERGERS, ACQUISITION &	HR 403	COMPENSATION & BENEFITS MANAGEMENT
	CORPORATE RESTRUCTURING		
FM 404	FINANCIAL DERIVATIVES	HR 405	STRATEGIC HRM
	MIC		MADIZETINO MANACEMENT
	MIS		MARKETING MANAGEMENT
MIS 401	DATA WAREHOUSING	MM	CONSUMER BEHAVIOUR
		401	
MIS 402	MANAGING DIGITAL PLATFORMS	MM	RETAIL MANAGEMENT

402

MM 403

MM

404

PRODUCT & BRAND MANAGEMENT

SERVICE MARKETING

# FIRST SEMESTER MB 101 -MANAGERIAL ECONOMICS (MICRO)

Name of	f the Course:	MANAGE	RIAL ECONOMICS (MICRO	O)	
Course C	Course Code: MB 101 Semester I		•		
Duration: 6 months Maximum Marks: 100			Marks: 100		
Teaching	Teaching Scheme Examination Scheme				
Theory: 5 Days /week Mid Semester exam: 15					
Tutorial:	NIL		Assignment and Quiz: 10 m	arks	
			Attendance: 5 marks		
			End Semester Exam: 70 Ma	arks ——————	
Credit Po					
Unit	Conten			Hrs/Unit	Marks/Unit
1	Introduction to Man  (a) Basic problems of  (b) Goals of manageri  (c) Resource allocation	an economic sys al decision maki	stem	2L	
2	demand, Violations of Demand: Price Elastic affecting price elastici MR and Price elastici Elasticity, Inferior, Su Share in Total Expend Complements.	The Law of Dencity (at a point arty, Price elasticity, Range of Valperior and Normaliture; Cross-Priceurves, budget lin	Demand, Explaining the law of mand, Shifts in Demand; Elasticity of and over and interval), Factors ty and Change in Total Revenue, AR, uses of Price Elasticity; Income and goods, Income Elasticity and ce Elasticity, Substitutes and me and consumer equilibrium	10L	
3	<b>Production and Cost</b>	Analysis:		14L	
	One Variable Input, T	otal Product, Av	un and Long Run, Production with erage and Marginal Products, Law of ween TP, AP and MP.		
	Run Total, Average at Marginal Cost and Re Relationship between	nd lationship betwe AVC, MC, AP a	n, Fixed and Variable Costs, Short en them, Short Run Cost Curves, and MP; Long LAC and SAC, Economies		
	Characteristics, Margi to Scale, Isocost Curv Production of a given	nal Rate of Teches, * # Finding to output at Minim	e Inputs, Isoquants – nnical Substitution, Laws of Returns he Optimal Combination of Inputs, num Cost, Production of Maximum pansion Path, Finding the Long Run		

	Cost Schedules from the Production Function,		
	D. Law of supply, elasticity of supply, market equilibrium, changes in equilibrium.		
4	Alternate Goals of Managerial Firms:  (A) Profit maximization (B) Revenue maximization (C) Managerial utility maximization	2L	
5	Managerial Decision Making under Alternative Market Structures:  A. Characteristics of Perfect Competition, #Profit Maximization in Competitive Markets, Output Decision in the Short Run, Shut Down Point, Short Run Supply for the Firm and Industry; Output Decision in the Long Run, Break Even Point, Long Run Supply for the Perfectly Competitive Industry B. Price and output decision under different market structure – Monopoly, Monopolistic Competition, Oligopoly – cartel, price leadership	6L	
6	Pricing Decisions: A. Price Discrimination under Monopoly, Transfer Pricing. B. Market Failure C. Game theory &Asymmetric information	6L	

#### Suggested Readings:

- 1. Damodaran, Suma Managerial Economics Oxford University Press
- 2. Premvir Kapoor Sociology for Economics and Engineers, Khanna Publishing
- 3. Lipsey & Chrystal Economics Oxford University Press 3. Peterson & Lewis
  - Managerial Economics Pearson Education.
- 4. Pindyck and Rubenfeld Micro Economics Pearson Education
- H.L. Ahuza- Managerial Economics, S. Chand 6. D.N. Dwivedi-Managerial Economics, Prentice Hall.

# **MB 102: ORGANIZATIONAL BEHAVIOUR**

Name of the Course:	ORGANIZATIONAL BEHAVIOUR					
Course Code: MB 102	Semester I	Semester I				
Duration: 6 months	Maximum Marks: 100					
Teaching Scheme	Examination Scheme					
Theory: 5 Days /week	Mid Semester exam: 15					
Tutorial: NIL	Assignment and Quiz: 10 marks					
Credit Points: 4	Attendance: 5 marks					
	End Semester Exam: 70 Marks					
Unit (	Content	Hrs/Unit	Marks/Unit			

1	OB – Overview – Meaning of OB, Importance of OB, Field of OB, Contributing Disciplines, Applications in Industry.	2L	
2	Personality– Meaning of Personality, Determinants of Personality, Theories of Personality, Measurement of Personality, Development of Personality	6L	
3	Perception – Process and Principles, Nature and Importance, Factors Influencing, Perception, Perceptual Selectivity, Social Perception, Fundamentals of Decision making	4L	
4	Work Motivation – Approaches to Work Motivation, Theories of Motivation – Maslow's Hierarchy of Need Theory, Alderfer's ERG Theory, Herzberg's Motivation-Hygiene Theory, McClelland's Achievement – Motivation Theory, McGregor's Theory X & Y, Vroom's Expectancy Theory, Porter Lawler Expectancy Model	6L	
5	Attitudes and Job Satisfaction – Sources of Attitudes, Types of Attitudes, Attitudes and Consistency, Cognitive Dissonance Theory, Attitude Surveys.	2L	
6	Organization - Mission, Goals, Characteristics, Types, Organizational Theory- Classical Theories: Scientific Management, Administrative Principals, Bureaucracy, Human Relation Approach, Modern Theories: System Approach, Contingency Approach, Quantitative Approach, Behavioral Approach, Managing Organizational Culture.	6L	
7	Group Behavior - Characteristics of Group, Types of Groups, Stages of Development, Group Decision-making, difference work group and work team, Why work Teams, Work team in Organization, Team Building, Organizational Politics.	4L	
8	Leadership - Leadership Theories, Leadership Styles, Skills and influence process, Leadership and power, Examples of Effective Organizational Leadership in India, Cases on Leadership, Success stories of today's Global and Indian leaders.	4L	
9	Conflict in Organization - Sources of Conflict, Types of Conflict, Conflict Process, Johari Window, Conflict Resolution, Cases on Conflict Resolution.	2L	
10	Organizational Change - Meaning and Nature of Organizational Change, Types of Organizational Change, Forces that acts as stimulant to change. Resistance to change, How to overcome resistance to change, Approaches to managing Organizational Change, Kurt Lewin's three Step model, Action research model, Kotter's eight step mode	4L	

- 1. Robbins, S.P. Judge, T.A. & Sanghi, S.: Organizational Behaviour, Pearson
- 2. Luthans, Fred: Organizational Behaviour, McGraw Hill
- 3. Newstrom J.W. &Devis K.: Organizational Behaviour, McGraw Hill
- 4. Aswathappa ,K: Organisational Behaviour ,Himalaya Publishing House
- 5. Shukla, Madhukar: Understanding Organizations Organizational Theory & Practice in India, Prentice Hall
- 6. Sekharan, Uma: Organisational Behaviour, The Mc Graw -Hill Companies.

#### **MB 103: BUSINESS COMMUNICATION**

Name of the Course: BUSINES		BUSINESS CO	MMUNICATION		
Course Code: MB 103 Semester I		Semester I			
Duration: 6 months Maximum Marks: 100		ks: 100			
Teaching S	Scheme		Examination Scheme		
Theory: 5	Days /week		Mid Semester exam: 15		
Tutorial: N	NIL .		Assignment and Quiz: 10 marks		
			Attendance: 5 marks		
			End Semester Exam : 70 Marks		
Credit Poir	nts: 4				
Unit	Cont	ent		Hrs/Unit	Marks/Unit
1		Principles of Communication – Definition, Purposes, Types, Process, Models and Barriers		2L	
2	(Planning and Prep	Verbal and Non Verbal Communication – Presentation Skills (Planning and Preparation/ Using Visual Aids/ Delivery), Individual and Team Presentations, Public Speaking, Listening and Feedback,			
3	Written Communi	s, Preparing Notes	Writing, Composing s, Style, Punctuation, Using	4L	
4	Report Writing – I Developing an out Points, Logical S	Report Writing – Report Planning, Types of Reports, Developing an outline, Nature of Headings, Ordering of Points, Logical Sequencing, Graphs, Charts, Executive Summary, List of Illustration, Report Writing.			
5			, Notices, Memos, Agenda and	4L+2P	
6	External Commun	External Communication – Resume/CV, Using Facsimiles (Fax), Electronic Main, Handling Mail		4L	
7	Writing Business I Enquiry, Placing C	Writing Business Letters – Formats, Styles Types – Request, Enquiry, Placing Order, Instruction, Action, Complaint, Adjustment, Sales, Reference, Good News & Bad News,			
8		Information – A	nnual Report, House Magazine,	2L + 2P	

- 1. Monipally: Business Communication, Tata McGraw Hill
- 2. Kulbhushan Kumar: Effective Business Communications, Khanna Publishing.
- 3. Business Communication Essentials (6th Edition) by Courtland L. Bovee & John V. Thill, Pearson
- 4. Business English: A Complete Guide for All Business and Professional Communications by Prem P. Bhalla; UBS Publishers
- 5. The Effective Presentation: Talk your way to success by Asha Kaul; SAGE
- 6. Madhukar: Business Communications; Vikas Publishing House
- 7. Senguin J: Business Communication; Allied Publishers

# MB 104: Introduction to Data Science and Business Analysis

Name of the Course:		Introduction to Data Science & Business Analysis				
			mester -I			
Durat	ion: 6 months	Maximuı	num Marks: 100			
Teacl	hing Scheme		Examination	Scheme		
Theory: 3hrs/week			Mid Semester	r exam: 15		
Tutorial: NIL				and Quiz: 10 marks		
			Attendance: 5	marks		
Practical:			End Semester	Exam : 70 Marks		
Credi	t Points: 3					
Unit Content				Hrs/Unit	Marks/Unit	
1	Introduction: Objective, scope and outc	ome of the	course 1	1L		
2	Toolboxes: Python, fundamental librarie Integrated development environment (IDE). Data of selecting, filtering, manipulating, sorting, grouping, rearran plotting.	operations:	Reading,	7L		
3	Descriptive statistics, data preparation. In Analysis data summarization, data distribution, measurand estimated mean, variance and standard score. Statisfrequency approach, variability of estimates, hypothesis testing intervals, using pvalues.	ring asymn	netry. Sample	7L		
4	4 Supervised Learning: First step, learni validation and test. Learning models generalities, support ve forest. Examples			7L		
5	Regression analysis, Regression: linear regression, multiple & Polynomial regression, Sparlearning, clustering, similarity and distances, qual clustering, case study.	se model. U	Insupervised	7L		

6	Network Analysis, Graphs, Social Networks, centrality, drawing centrality of Graphs, PageRank, Ego-Networks, community Detection.	7L	
7	Analytics in Business and Management	4L	

#### Suggested Readings:

- 1. Beginner's Guide for Data Analysis using R Programming, Jeeva Jose, Khanna Publishing House. (AICTE Recommended)
- 2. The Essentials Beginner's Guide to Data Science, Author Manasa Kalaimalai, Notion Press,
- 3. An Introduction to Data Science, by Jeffrey S. Saltz (Author), Jeffrey Morgan Stanton (Author), 3. SAGE Publication, DATA Science from Scratch, by Joel Grus, Data Science Fundamentals And 4. Practical Approaches by Rupam Kumar Sharma Gypsy Nandi, BPB Publications

#### MB 105: INDIAN ETHOS AND BUSINESS ETHICS

Name of t	ne of the Course: INDIAN ETHOS AND BUSINESS ETHIC		IOS AND BUSINESS ETHICS			
Course Co	ode: MB 105	Semester I				
Duration:	6 months	Maximum Ma	arks: 100			
Teaching	Scheme		Examination Scheme			
Theory: 5	Days /week		Mid Semester exam: 15			
Tutorial: 1	NIL		Assignment and Quiz: 10 marks			
		Attendance: 5 marks				
			End Semester Exam: 70 Marks			
Credit Po	Credit Points: 4					
Unit	Con	ent		Hrs/Unit	Marks/Unit	
Indian	Indian Ethos					
1	History & Releva	nce; Principles, prac	eticed by Indian	6L		
1	Companies; Role	of Indian Ethos (Ma	anagement lessons from	6L		
1	Companies; Role Vedas, Mahabhar	of Indian Ethos (Ma ta, Bible, Quran, A	nnagement lessons from rthashastra,) Indian	6L		
1	Companies; Role Vedas, Mahabhar Heritage in Busin	of Indian Ethos (Ma ta, Bible, Quran, A ess. Ethics Vs Ethos	nagement lessons from rthashastra,) Indian s, Indian Vs Western	6L		
-	Companies; Role Vedas, Mahabhar Heritage in Busin Management; Wo	of Indian Ethos (Ma uta, Bible, Quran, A ess. Ethics Vs Ethos ek ethos and values	anagement lessons from rthashastra,) Indian s, Indian Vs Western for Indian Managers			
2	Companies; Role Vedas, Mahabhar Heritage in Busin Management; Wo Relevance of Valu	of Indian Ethos (Ma ta, Bible, Quran, A ess. Ethics Vs Ethos ek ethos and values he-based Manageme	anagement lessons from rthashastra,) Indian s, Indian Vs Western for Indian Managers ent in Global change impact of	6L 4L		
-	Companies; Role Vedas, Mahabhar Heritage in Busin Management; Wo Relevance of Valu Values on stake h	of Indian Ethos (Ma ta, Bible, Quran, A ess. Ethics Vs Ethos ek ethos and values te-based Manageme olders; Trans-cultura	anagement lessons from rthashastra,) Indian s, Indian Vs Western for Indian Managers ent in Global change impact of al human values; Secular - Vs			
-	Companies; Role Vedas, Mahabhar Heritage in Busin Management; Wo Relevance of Valu Values on stake h	of Indian Ethos (Ma ta, Bible, Quran, A ess. Ethics Vs Ethos ek ethos and values he-based Manageme	anagement lessons from rthashastra,) Indian s, Indian Vs Western for Indian Managers ent in Global change impact of al human values; Secular - Vs			
-	Companies; Role Vedas, Mahabhar Heritage in Busin Management; Wo Relevance of Valu Values on stake h Spiritual values; v	of Indian Ethos (Ma ta, Bible, Quran, A ess. Ethics Vs Ethos ek ethos and values te-based Manageme olders; Trans-cultura alue system in work	anagement lessons from rthashastra,) Indian s, Indian Vs Western for Indian Managers ent in Global change impact of al human values; Secular - Vs			

4	Contemporary Approaches to Leadership – Joint Hindu Family business; Leadership qualities of Karta	2L	
5	Indian systems of learning- Gurukul system of learning, advantages – disadvantages of Karma, Importance of Karma to managers, Nishkama Karma- laws of Karma; Law of creation- Law of humility- Law of growth – Law of Responsibility- Law of connection – Corporate Karma Leadership	6L	
Busines	ss Ethics	<u> </u>	
6	Understanding Business Ethics – Ethical Values, Myths and Ambiguity, Ethical Codes, Ethical Principles in Business; Theories of Ethics, Absolutism vs. Relativism	6L	
7	Approaches to Business Ethics: Teleological Approach, The Deontological Approach, Kohlberg's Six Stages Of Moral Development (CMD)	4L	
8	Managing Ethical Dilemma: Characteristics, Ethical Decision Making, Ethical Reasoning, The Dilemma Resolution Process; Ethical Dilemmas In Different Business Areas Of Finance, Marketing, HRM and International Business	4L	
9	Ethical Culture in Organizations – Developing Code of Culture in Organization, Ethical and Value-Based Leadership. Role of Scriptures in Understanding Ethics, Ethics in Business, Strategies of Organizational Culture Building, Ethical Indian Wisdom and Indian Approaches towards Business Ethics.	6L	

#### **Suggested Readings**

- 1. Premvir Kapoor, Professional Ethics and Human Values, Khanna Publishing House (AICTE Recommended)
- 2. Beteille, Andre Society and Politics in India, OUP
- 3. Chakraborty, S. K. Values and Ethics for Organisations, OUP 3. Fernando, A.C.
  - Business Ethics An Indian Perspective, Pearson
- 4. Gupta, Dipankar Social Stratificaiton, OUP.
- 5. Srinivas, M. N.- Social Structure and Caste and Other Essays, OUP.
- 6. Sandhya, N- Indian Society, Vrindya Publication.

#### **MB 106: QUANTITATIVE TECHNIQUES**

Name of	the Course:	QUANTITAT	IVE TECHNIQUES		
Course Code: MB 106 Semester I					
Duration:	6 months	Maximum Ma	rks: 100		
Teaching	Scheme		Examination Scheme		
Theory: 5	Days /week		Mid Semester exam: 15		
Tutorial: NIL		Assignment and Quiz: 10 marks			
Credit Points: 4					
Unit	Conten	t	1	Hrs/Unit	Marks/Unit
Linear Programming: Formulating maximization/minimization problems, Graphical solution, Simplex method, Artificial Variables – Big M – Method, Special cases of LP, Duality of LP and its interpretation, Post Optimality/Sensitivity Analysis, Applications of LP.		6L			

2	Transportation Problems: Introduction - Mathematical formulation of transportation problem - the Transportation method for finding initial solutions- North West Corner Method - Least Cost Method - Vogel's Approximation method - test for optimality - steps of MODI method-loops in transportation table – Degeneracy	6L	
3	Assignment Problems: Introduction - Mathematical statement of the problem-Hungarian method of solution - Maximization case in assignment problem— unbalanced assignment problem - restrictions on assignment - Travelling salesman problem	4L	
4	Theory of Games: Introduction - Two person zero sum games - Pure strategies – games with saddle points - rules to determine saddle points - mixed strategies - Game without saddle points - the rules of dominance - Methods of solution for games without saddle points—algebraic methods, graphical methods.	4L	
5	Basic Statistics: Basic Concept (Variables, Population v/s Sample, Central tendency, Dispersion, data Visualization, Simple Correlation and Regression.	4L	
6	Probability & Distribution: Probability – Introduction, Rules of Probability, Conditional Probability (Baye's Theorem), Random Variables, Discrete and Continuous Distributions (Binomial, Poisson and Normal), Sampling – Types and Distribution.	6L	
7	Theory of Estimation: Estimation – estimation problems, standard error, margin of error, confidence interval, characteristics of estimators, consistency unbiasedness, sufficiency and efficiency, most sufficient estimators.	4L	
8	Statistical Inference: Hypothesis Testing, Parametric Test – Z, F, t test, ANOVA, Non Parametric Test – Chi square test (goodness of fit, independence of attributes) Spearman's Rank Correlation Coefficient	6L	

Software Packages to be used in illustrating the above methods

- 1. Statistics by Wayne L. Winston
- 2. Business Statistics by GC Berry
- 3. Business Statistics, Problems & Solutions by JK Sharma
- 4. Operations Research by A Ravindran, Don T Philips and James J Solberg..
- 5. Operations Research by V K Kapoor
- 6. Operations Research by S K Kalavathy

# **SEMESTER II**

#### MB 201: BIG DATA ANALYTICS IN BUSINESS

Name of the Course:	BIG DATA ANALYTICS IN BUSINESS	
Course Code: MB 201	Semester II	
Duration: 6 months	Maximum Marks: 100	
<b>Teaching Scheme</b>	Examination Scheme	
Theory: 3hrs/week	Mid Semester exam: 15	
Tutorial: NIL	Assignment and Quiz: 10 marks	
	Attendance: 5 marks	
Practical:	End Semester Exam: 70 Marks	
Credit Points: 4		

Unit	Content		Hrs/Unit	Marks/Unit
1	Need for Data Engineering, a Basic Principle	Marketing Analytics: Driven Marketing Approach, Marketing and Model Building in Marketing Engineering, es of Marketing Analytics to Business Problems, acing Marketing data with Pivot Tables, Excel marize data.	6L	
2		tics: Basic Concept of Pricing, Estimating Demand ptimize Price, Price Bundling, Non Linear Pricing and ng	6L	
3	Marketing Forecasting: Simple Regression and Correlation, Multiple Regression to forecast sales, Modelling trend and Seasonality, Ratio to Moving Average Method, Winter's Method		6L	
4	through STP f Segmentation Hierarchical -	keting Analytics: The STP framework, Value generation framework, Managing the segmentation process, in Real world: Cluster Analysis, Hierarchical and Non-K Means Clustering, Prediction of Customer's segment Discriminate Analysis (DA), two Group DA.	6L	
5	Positioning Strategies: Concept of Product positioning, Conduct a Positioning Study, Perceptual Mapping using Principal Component Analysis (PCA), Multidimensional Scaling (MDS), Incorporating preferences into Perceptual Maps.		8L	
6	Analysis as a Conjoint Anal	ning: Concept of Product Designing, Conjoint decompositional preference model, Steps in ysis, Uses of Conjoint Analysis, Drivers of CLV, metrics & Case Study	8L	

#### **COURSE OUTCOMES**

After successful completion of this course, students shall be able to;

CO1: New Opportunities for Insight

CO2: .Spotting the best business opportunities for big data

CO3 Improving usability as data sources proliferate

CO4: Up skilling IT for big data

Name of the Course:

CO5: Provide flexible and transparent, self-service analytics

#### **Suggested Readings:**

- 1. The Business Case for Big Data, by award-winning author Phil Simon
- 2. The Data Revolution: Big Data, Open Data, Data Infrastructures, And Their Consequences By Rob Kitchin
- 3. Big Data: Principles and Best Practices of Scalable Real-Time Data Systems By Nathan Marz And James Warren
- 4. Analytics In A Big Data World: The Essential Guide To Data Science And Its Applications By Bart Baesens
- 5. Big Data and Analytics By Seema Acharya and Subhashini Chellappan
- 6. Big Data and Hadoop, V.K. Jain, Khanna Book Publishing Company.

#### MB 202: FINANCIAL REPORTING, STATEMENT ANDANALYSIS

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Course Code: MB 202 Semester II		Semester II			
Duration: 6 months Maximum Ma		Maximum Mai	rks: 100		
Teaching	g Scheme		Examination Scheme		
Theory:	5 Days /week		Mid Semester exam: 15		
Tutorial:	: NIL		Assignment and Quiz: 10 marks		
Credit	Points:	4			
Unit	Con	tent		Hrs/Unit	Marks/Unit
1	Basic Financial Accounting Concept: Meaning and Scope of Accounting -Definition of accounting-classification of accounting- GAAP- Accounting Concepts and Conventions –Accounting Equation			2L	
2	Preparation Of Books Of Accounts: Event-Transaction- Accounting Cycle – Golden Rule- Journal-Ledger-Trial Balance-Final Account				
3	Basic Cost Accounting Concept- Cost Concept-Cost Unit- Technique of Costing- Method of Costing- Cost center- Cost Unit- Cost Sheet preparation and Interpretation.				
4	Introduction to Accounting Standard: Introduction to Indian GAAP and IndAS - Introduction to IFRS and IAS- Comparative Analysis of Indian GAAP and IndAS.				
5	Preparation Of Financial Statement: Trading Account-Profit & Loss Account - Balance Sheet (As per Schedule VI, old & new) with Adjustment Entries - Preparation and Interpretation of Annual Report - Corporate Social Responsibility – Human Resource Accounting-Value Added Statement				

FINANCIAL REPORTING, STATEMENT AND ANALYSIS

6	Financial Statement Analysis: Comparative Statement- Common Size	10L	
	Statement-		
	Trend Analysis- Ratio Analysis-Fund Flow Statement - Cash Flow		
	Statement.		

- 1. M. Hanif & A. Mukherjee: Financial Accounting. McGraw Hill
- 2. S. K. Paul: Financial Accounting, New Central book Agency
- 3. S. P. Jain & K. L. Narang: Cost and Management Accounting. Kalyani Publication
- 4. P. M. Rao: Financial Statement Analysis and Reporting. PHI
- 5. T. P. Ghosh, N. Ankarnath, K. J. Mehta & Y. A. Alkafazi: Understanding IFRS Fundamentals, Wiley
- 6. Tulsian & Tulsian: Corporate Financial Reporting, S. Chand

# MB 203: MARKETING MANAGEMENT AND CORPORATE STRATEGY

MARKETING	MANAGEMENT AND CORPORATE STRATEGY
Semester II	
Maximum Mar	rks: 100
	Examination Scheme
	Mid Semester exam: 15
	Assignment and Quiz: 10 marks
4	
4	
	Semester II

UNIT	Content	Hrs/Unit	Marks/Unit
Module I	Introduction: Definitions of marketing; Core Concept of Marketing – need, want, demand, offering and branding, value and satisfaction, Evolution of marketing concepts (orientations); Marketing Mix – 4Ps and 4Cs.  Marketing Environment: Major components of Internal Environment, the microenvironment and macro-environment; SWOT Analysis, PEST Analysis	4L	
2	Strategy and Planning: Concept of SBU, Choice of Corporate level Strategy; BCG matrix, Product-Market Grid, Porter's Five Force Model for Industry Analysis.  Market Segmentation, Targeting and Positioning (STP): Concepts of market segmentation: Various bases for segmentation: Geographic, Demographic, Psychographic (VALS-II) and Behavioural; Targeting: Mass marketing, Segment, Marketing, Niche Marketing, Micro Marketing and Customization; Concept of Differentiation and Positioning.	8L	
3	Consumer Behaviour and Marketing Research: A framework of consumer decision making process, overview of major factors influencing consumer behavior; marketing research: Role in decision making, Steps and process of Marketing Research, B2B Marketing.		
4	Branding and Packaging: Purpose of branding; Brand equity; Branding strategies; Purpose of Packaging; Types of Packaging – primary, secondary, shipping packages.	4L	
5	Marketing Channels: Channel flows and functions; Channel design decisions; Wholesaling and Retailing, Concept of Supply Chain Management and Logistics Management, Channel Conflict Management		
Module II	Strategic Management: Objectives, policies, Tools – Balanced Score Card, Strategic Management process. Strategic Planning: Corporate; Functional and Managerial Goal Setting; Positioning Organization, Models for Resource Allocation, Environmental Turbulence Strategic Investment, Strategic Entry	6L	

7	Formulating Strategies: Corporate, Administrative/Executive and Operating Levels, Developing Functional Strategies – Production/Operations, Finance, Marketing, HR, Materials, R & D; BCG Matrix, Portfolio analysis. Implementation of Strategies: Role of Managers, Leadership, Strategic Control System and Measurement, Structural Implementation, Functional Implementation.		
8	Strategic Actions: Mergers, Acquisitions, Diversification, Joint Ventures, De-Merger, etc.	3L	
9	Case studies – Strategic Planning and Management	5L	

#### Suggested Reading:

- 1. Kotler, P., Keller, K., Koshy, A. & Jha, M. Marketing Management; Pearson
- 2. Ramaswamy & Namakumari Marketing Management; McMillan
- 3. Saxena, R. Marketing Management; TMH
- 4. Kurtz, David L, Boone, Louis E Principles of Marketing; Thomson
- 5. Keith Blois Text Book of Marketing; Oxford University Press
- 6. Etzel, M.J., Walker, B.W. & W.J. Stanton Marketing; TMH
- 7. Corporate Strategies: Banerjee, Bani P.; OUP
- 8. Crafting the Strategy: Das, Ranjan:, Tata McGraw Hill
- 9. Business Policy and Strategic Management: Kazmi, A., Tata McGraw Hill
- 10. Global Strategic Management: Mellahi, K., Frynas, J.G. and Finlay, P., OUP
- 11. Competitive Strategy: Porter, Michael E., The Free Press
- 12. Discourses on Strategic Management: Roy, Dilip; Asian Books

#### **MB 204: OPERATIONS MANAGEMENT**

Name of the Course: OPERATIONS		S MANAGEMENT
Course Code: MB 204	Semester II	
Duration: 6 months	Maximum Ma	rks: 100
Teaching Scheme		Examination Scheme
Theory: 5 Days /week		Mid Semester exam: 15
Tutorial: NIL		Assignment and Quiz: 10 marks
Credit Points:	4	

	Content	Hrs/Unit	Marks/Unit
UNIT			
1	Introduction to Production and Operations Management:	4L	
	Difference between Manufacturing and Service Operations;		
	Product Process Matrix capacity planning-		
	Responsibilities of Production Manager; Production as a		
	Coordination Function; Production Cycle, Production Planning &		
	Control Concept.		
2	Characteristics of Manufacturing Systems: Classification of	2L	
	Manufacturing Systems with Examples; Differences between		
	Intermittent and Continuous Production		

3	Plant Location: Need for a Good Plant Location; Factors influencing Plant Location – Tangible and Intangible Factors; Economic Survey of Site Selection	2L	
4	Plant Layout: Need for a Good Plant Layout; Characteristics of a Good Layout; Costs associated with Plant Layout; Process Layout vs. Product Layout; Optimization in a Process Layout and Product Layout; Designing Product and Process Layout; Assembly Line Balancing – Concept and Problems; Cellular Manufacturing Concept	6L	
5	Maintenance Management: Types of Maintenance – Breakdown and Preventive Maintenance; Total Productive Maintenance (TPM)	3L	
6	Purchase Management: Purchasing Procedure; Value Analysis; Vendor Selection; Negotiation; Make or Buy Decision	2L	
7	Inventory Management: Classification of inventory items – ABC, FSN, VED classification; Introduction to EOQ and EBQ; MRP – Concept, inputs and outputs, benefits, examples; Deterministic demand model–EOQ- Continuous and Periodic review Inventory models; Master Production Schedule and MRP; Concepts of MRP II, JIT and ERP	6L	
8	Inspection & Quality Control: Types of Inspection; Statistical Quality Control – Acceptance Sampling and Control Charts	5L	
9	Scheduling: Sequencing – Definition and Assumptions; Sequencing of n jobs on a single machine – Shortest Processing Time, Longest Processing Time, Earliest Due Date and First Come First Serve basis; Sequencing of 2 jobs on 2 machines – Gantt Charts, Limitations of Gantt Charts; Sequencing of n jobs on 2 and 3 machines – Johnson's Rule; Introduction to Project Management – CPM and PERT, Identification and Importance of the Critical Path	6L	
10	Work Study: Definition and its Importance; Basic Procedure in Performing a Work Study; Method Study –Objectives and Procedure; Work Measurement–Objectives and Procedure; Concepts of Performance Rating, Basic Time, Allowances and Standard Time	4L	

- 1. Chary, S.N. Production and Operations Management; TMH
- 2. Panneerselvam, R. Production and Operations Management, PHI
- 3. Bedi, K. Production and Operations Management; Oxford University Press
- 4. Chase, Jacobs, Aquilano and Agarwal Operations Management for Competitive Advantage; TMH  $\,$
- 5. Buffa, E. S. and Sarin, R.K. Modern Production / Operations Management; John Wiley
- 6. Collier, Evans and Ganguly Operations Management; Cengage Learning

# MB 205: MANAGEMENT INFORMATION SYSTEM

Name of the Course: MANAGEMEN		ENT INFORMATION SYSTEM
Course Code: MB 205	Semester II	
Duration: 6 months	Maximum Mai	rks: 100
Teaching Scheme		Examination Scheme
Theory: 5 Days /week		Mid Semester exam: 15
Tutorial: NIL		Assignment and Quiz: 10 marks
C. I'v D. '		
Credit Points:	4	

	Content	Hrs/Unit	Marks/Unit
UNIT	Content	111 5/ С 111	Wiai Ks/ Offic
1	E-commerce / E-business  Overview, Definitions, Advantages & Disadvantages of E- commerce  Business models of e-commerce: models based on transaction party (B2B, B2C, B2G,C2B, C2C, E-Governance), models based on revenue models  Implementation ecommerce business, online and offline marketing	3L	
2	ERP, CRM, SCM ERP (Enterprise Resource Planning): Concepts of ERP, architecture of ERP, Generic modules of ERP, Applications of ERP, concept of XRP (extended ERP) Features of commercial software like SAP, Oracle Apps, MS Dynamics NAV CRM (Customer Relationship Management): Concepts of CRM, Features, application of CRM Sales force automation SCM (Supply Chain Management): Concepts of SCM, drivers of SCM, inbound & outbound Definition, brief description and applicability of: eProcurement, eTailing,eLogistics, eCollaboration, eIntegration. Case studies for ERP, CRM, and SCM	10L	
3	Data Communication & Networking  Need for computer networking, components of a data communication system, Network topology  Types of networks: LAN, MAN, WAN; concepts of Internet, Intranet, Extranet, and  WWW. Network protocols, Network Architecture	4L	
4	Threats to Computer Systems and Control Measures Concepts of threats: Virus, hacking, phishing, spyware, spam, physical threats (fire, flood, earthquake, vandalism) Concepts of security measures: firewall, encryption	2L	

5	Database Management Systems (DBMS) [e.g. MS-Access/Oracle/ MS SQL Server / MySQL etc.] What is a DBMS; Need for using DBMS. Concepts of tables, records, attributes, keys, integrity constraints SQL: DDL & DML, DCL concepts, SQL commands [ANSI standard].	4L+2P	
6	Data Warehousing and Data Mining Concepts of Data warehousing, data mart, meta data, multidimensional modeling, Online Analytical Processing (OLAP), Online Transaction Processing (OLTP), Data mining concepts, knowledge discovery v. data mining, data mining applications.	3L	
7	MS Office Applications MS Excel: Graphs and Charts–Calculation of various financial functions Performing Mathematical Calculations (using Formula and Functions), Searching, Sorting and Filtering, Min Media Mode, Reference Operators, Functions: Typing a Function, Creating a Column Chart: Changing the Size and Position of a Chart Saving MS Access: Tables and Queries, Forms, Relationship MS Power Point: Introduction–Toolbar, their Icons and Commands– Navigating in Power point-Creation of slides, animation, and templates-Designing Presentations– Slide show controls–Making notes on Pages and Handouts– Printing Presentations– Customizing Presentations-Auto content Wizard.	12L+ 4P	

#### **Suggested Readings:**

- 1. Waman S Jawadekar: Management Information Systems Text and Cases 3ed. McGraw Hill
- 2. Mahadeo Jaiswal & Monica Mittal: Management Information Systems, OUP
- 3. Forouzan: Data Communication & Networking, TMH.
- 4. Tanenbaum: Computer Networks, Pearson Education
- 5. Ivan Bayross: SQL & PL/SQL, BPB ISRD, Introduction to Database Management Systems, Tata McGraw Hill
- 6. Sadagopan: ERP: A Managerial Perspective, Tata McGraw Hill
- 7. Mahapatra: Database Management Systems, Khanna Publishing House.

#### **MB - 206: HUMAN RESOURCE MANAGEMENT**

Name of the	e Course:	HUMAN RES	OURCE MANAGEMENT		
Course Cod	e: MB 206	Semester II			
Duration: 6	months	Maximum Mar	rks: 100		
Teaching So	cheme		Examination Scheme		
Theory: 5 D	ays /week		Mid Semester exam: 15		
Credit Poi	nts:	4			
UNIT	Con	tent		Hrs/Unit	Marks/Unit

1	Human Resource Management: Meaning, Scope, objectives, and functions of HRM, HR as a Factor of Competitive Advantage, Structure of HR Department, , Line and staff responsibility of HR Managers, Environmental factors influencing HRM	21	
2	Human Resource Planning: definition, objective, process of HRP. Supply and Demand Forecasting techniques, Manpower Inventory, Career Planning & Development, Succession Planning, Rightsizing, Restructuring. Human Resource Information System (HRIS)	6L	
3	Recruitment and Selection: Process, Sources, Methods of selection, Interviewing Methods, Skills and Errors.	4L	
4	Human Resource Development: Definition, objective, process of HRD, Assessment of HRD Needs, HRD Methods: Training and Non-Training, Training Process; Designing, Implementation and Evaluation of Training Programmes, Induction Training. Developing Managerial Skills for: team management, collaboration, interaction across business functions, presentation, Negotiation, and Networking	6L	
	Performance Appraisal Systems: Purpose, Methods, Appraisal instruments, 360 degree Appraisal, HR Score Card, Errors in appraisal, Potential Appraisal, Appraisal Interview.	4L	
5	Compensation Management : Concepts, Components; System of Wage Payment, job evaluation, wage/ salary fixation, incentives, bonus, ESOPs, Fringe Benefits, Retirement Benefits. Compensation Plans	4L	
6	Industrial Relations in India: Parties; Management and Trade Unions, Industrial Disputes: Trends, Collective Bargaining, Settlement Machineries, Role of Government, Labour Policy in India.	4L	
7	Workers' Participation in Management: Concept, Practices and Prospects in India, Quality Circles and other Small Group Activities.	2L	
8	Discipline Management : Misconduct, Disciplinary action, Domestic Enquiry, Grievance Handling	4L	
9	Strategic HRM: Meaning, Strategic HRM vs Traditional HRM, SHRM Process, barriers to SHRM. Nature of e-HRM, eRecruitment & Selection, e-Performance Management, e-Learning	4L	

# **SEMESTER III**

# MB 302: BUSINESS RESERCH METHOD

Name of the Course: Business			Research Method		
Course Code: MB 302 Semester					
Duration: 6		Maximum	Marks: 100		
Teaching Scheme Examination Scheme			<b>Examination Scheme</b>		
Theory: 3h	rs/week		Mid Semester exam: 15		
Tutorial: N	IL		Assignment and Quiz: 10 marks		
			Attendance: 5 marks		
Practical:			End Semester Exam : 70 Marks		
Credit Poin	ts: 4				
Unit	Content			Hrs/Unit	Marks/Unit
	vs. Analytical, Appli Conceptual vs. Emprocess, criteria of research problem, so problem, importance literature review-p monograph, patents, the web, critical I	ed vs. Fund pirical, con good resea electing the e of literat rimary ar research di iterature re	ogy. Types of research – Descriptive lamental, Quantitative vs. Qualitative, cept of applied and basic research arch. Defining and formulating the problem, necessity of defining the ure review in defining a problem, and secondary sources, reviews, atabases, web as a source, searching eview, identifying gap areas from development of working hypothesis.		
2	methods of data col analysis strategies a	validation, lection, san and tools,da	NALYSIS observation and collection of data, npling methods, data processing and ata analysis with statically package for student t-test, ANOVA, etc.),	10L	
3	committees (human patent law, comme aspects of intellectua IMRAD concept a	RY PUBLI & animal); reialization, al property: and design	SHING Ethics-ethical issues, ethical IPR- intellectual property rights and copy right, royalty, trade related rights (TRIPS); scholarly publishing of research paper, citation and eproducibility and accountability	10L	

4	INTERPRETATION AND REPORT WRITING	10L	
	Meaning of Interpretation, Technique of Interpretation, Precaution in		
	Interpretation, Significance of Report Writing, Different Steps in		
	Writing Project Report, Layout of the Project/Research Report, Types		
	of Reports, Oral Presentation, Mechanics of Writing a		
	Project/Research Report, Precautions for Writing Research Reports,		
	Conclusions.		

#### On successful completion of this course students will be able to:

- Apply an advanced understanding of business research design options, methodologies and analysis methods (both qualitative and quantitative), including respective terms, definitions and applications to the design, implementation and evaluation of a research project.
- Distil an identified business problem into a succinct research problem (or problems) and articulate this into a comprehensive research brief for investigation by a research team locally or internationally.
- This brief will include a statement of the resulting research problem and the objectives that need to be achieved to provide the information necessary to tackle the business problem and the decisions that need to be made respective to it.
- Complete, from the brief created, a research proposal for implementation at either a local or international level.
- o This will include (but not be restricted to), a literature summary at the necessary level of depth to ensure a thorough understanding of what is already known about the problem to be addressed, the proposed research design, data collection, sampling, analysis methods to be employed along with an indicative time frame for each stage of the research proposed and budget.
- Apply a broad understanding of issues specific to undertaking business research across international boundaries, including cultural, geographical, language and cost related challenges and respective strategies and approaches that may be employed to solve them to the design, implementation and evaluation of a research project.
- Recognise, and take account of, the importance of ethical conduct in undertaking research, including potential implications for business relationships, effects on potential respondents and sensitivity to cultural differences and honesty and integrity in analysis and reporting in the design, implementation and evaluation of a research project.

#### Text book and Reference books:

- 1. Garg, B.L., Karadia, R., Agarwal, F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
- 2. Kothari, C.R., 1990. Research Methodology: Methods and Techniques. New Age International. 418p.
- 3. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology, Ess Ess Publications. 2 volumes.
- 4. Trochim, W.M.K., 2005. Research Methods: the concise knowledge base, Atomic DogPublishing. 270p.
- 5. Wadehra, B.L. 2000. Law relating to patents, trade marks, copyright designs and geographical indications. Universal Law Publishing.

#### Additional reading

- 1. Anthony, M., Graziano, A.M. and Raulin, M.L., 2009. Research Methods: A Process of Inquiry, Allyn and Bacon.
- 2. Carlos, C.M., 2000. Intellectual propertyrights, the WTO and developing countries: the TRIPS agreement and policy options. Zed Books, New York.
- 3. Coley, S.M. and Scheinberg, C. A., 1990, "Proposal Writing", Sage Publications.

# $\frac{\text{MB 301: ENTREPRENEURSHIP \& PROJECT}}{\text{MANAGEMENT}}$

Name of the Course: ENTREPRENEURSHIP & PROJEC			NEURSHIP & PROJECT MANAGEMENT		
Course Co	ode: MB 301	Semester III			
Duration:	6 months	Maximum Ma	rks: 100		
Teaching Scheme Examination Scheme					
Theory: 5	Days /week		Mid Semester exam: 15		
Tutorial:	NIL		Assignment and Quiz: 10 marks		
			Attendance: 5 marks		
Practical:	hrs./week		End Semester Exam : 70 Marks		
Credit Po	ints: 4				
Unit	Content	t		Hrs/Unit	Marks/Unit
ENT	REPRENEURSHI	P			
1	Introduction: M Entrepreneurship, Ir entrepreneurs to the mitigation of risks	2L			
2	Entrepreneurship – Innovation Manager Management System Thinking, Qualities	2L			
3	segment, blue ocea	nining competitive advantage, Market dustry and Competitor Analysis (market ential), Demand- supply analysis	4L		
4	Entrepreneurial Mod Innovation, TRIZ (T Inventive Problem S entrepreneurship – T	2L			
5	Information: Government incentives for entrepreneurship, Incubation, acceleration. Funding new ventures – bootstrapping, crowd sourcing, angel investors, Government of India's efforts at promoting entrepreneurship and innovation – SISI, KVIC, DGFT, SIDBI, Defense and Railways				
6	Closing the Window Competitive Advant	2L			
7	Applications and Project Reports Preparation 4L				
PROJE	CT MANAGEMENT	Γ			

8	Definitions of Project and Project Management, Issues and Problems in Project Management, Project Life Cycle - Initiation  Conceptualization Phase, Planning Phase, Implementation / Execution_Phase, Closure / Termination Phase	4L	
9	Project Feasibility Studies – Pre-Feasibility and Feasibility Studies, Preparation of Detailed Project Report, Technical Appraisal, Economic/Commercial/Financial Appraisal including Capital Budgeting Process, Social Cost Benefit Analysis	2L	
10	Project Planning – Importance of Project Planning, Steps of Project Planning, Project Scope, Work Breakdown Structure (WBS) and Organization Breakdown Structure (OBS), Phased Project Planning	2L	
11	Project Scheduling and Costing – Gantt chart, CPM and PERT Analysis, Identification of the Critical Path and its Significance, Calculation of Floats and Slacks, Crashing, Time Cost Trade-off Analysis, Project Cost Reduction Methods	6L	
12	Project Monitoring and Control – Role of Project Manager, MIS in Project Monitoring, Project Audit	2L	
13	Case Studies with Hands-on Training on MS-Project	4L	

#### **Suggested Readings:**

- 1. Innovation and Entrepreneurship by Drucker, P.F.; Harper and Row 2. Business, Entrepreneurship and Management: Rao, V.S.P.; Vikas 3. Entrepreneurship: Roy Rajeev; OUP.
- 4. Text Book of Project Management: Gopalkrishnan, P. and Ramamoorthy, V.E.; McMillan
- 5. Project Management for Engineering, Business and Technology: Nicholas, J.M., and Steyn, H.; PHI
- 6. Project Management: The Managerial Process: Gray, C.F., Larson, E.W. and Desai, G.V.; MGH

#### **BDA 301: DATA SCIENCE USING R AND PYTHON**

Name of the Course:	DATA SCIENCE USING R and Python
Course Code: BDA 301	Semester III
Duration: 6 months	Maximum Marks: 100
Teaching Scheme	<b>Examination Scheme</b>
Theory: 3hrs/week	Mid Semester exam: 15
Tutorial: NIL	Assignment and Quiz: 10 marks
	Attendance: 5 marks
Practical:	End Semester Exam: 70 Marks
Credit Points: 4	·
Unit Content	Hrs/Unit Marks/Unit

OD	ULE-I		
1	Programming in R: Basics of R, Conditional and loops, R packages/libraries, Data mining GUI in R, Data structures in R, Exceptions/ debugging in R	2L	
2	Data Wrangling: Reading CSV, JSON, XML, .XLSX and HTML files using R,ETL operations in R, Sorting/ merging data in R, Cleaning data, Data management using dplyr in R	2L	
3	Modeling in R:Linear regression model in R, Multiple linear regressions model, Representation of regression results, Non Linear Regression	5L	
ИOD	ULE-II		
4	Mining Algorithms using R: Association analysis, Market-based analysis/ rules, Apriori algorithm, Segmentation analysis- types of segmentation, k-means clustering, Bayesian clustering, Principal Component Analysis	5L	
5	Time Series Forecasting in R and model deployment: Basics of time series, Components oftime series, Time series forecasting, Deploying predictive models	5L	
6	. Case Study	2L	
MOD	ULE-III		
7	Python Basics: Python variables, expressions, statements Variables, Keywords, Operators & operands, Expressions, Statements, Order of operations, String operations, Comments, Keyboard input.	2L	
8	Conditions & Iterations: Conditions, Modulus operator, Boolean expression, Logical operators, if, if else, if-elif-else, Nested conditions, Iteration - while, for, break, continue, Nested loop.	2L	
9	Functions: Type conversion function, Math functions, Composition of functions, defining own function, parameters, arguments, Importing functions	2L	
10	Recursion: Python recursion, Examples of recursive functions, Recursion error, Advantages & disadvantages of recursion. Strings: Strings Accessing values in string, Updating strings, Slicing strings, String methods – upper(), find(), lower(), capitalize(), count(), join(), len(), isalnum(), isalpha(), isdigit(), islower(), isnumeric(), isspace(), isupper() max(), min(), replace(), split(). List: Introduction, Traversal, operations, Slice, Methods, Delete element, Difference between lists and strings, Example program, Dictionaries - idea of dictionaries Tuples: idea of lists & tuples, Brief idea of dictionaries & tuples.	6L	

11	Object-Oriented Programming with Python: Concepts, Creating class, Instance objects, Accessing attributes, built in class attributes, destroying objects, Inheritance, Overloading, Overriding, Data hiding	2L	
12	Python Exceptions: Exception handling, except clause, User Defined Exceptions Regular expression- Match function, Search function, Matching VS Searching, Modifiers, Patterns	2L	
13	File Operations in Python: create, open, read, write, append, close files; Stack and Queue, Stacks and Queues using lists	2L	
14	8. NumPy, SciPy, SymPy: basic concepts Pandas: Object creation, Viewing data, Selection, Missing data, Operations, Merge, Grouping, Reshaping, Time series, Categoricals, Plotting, Getting data in/out from CSV, Excel.	3L	
15	Case Studies	2L	

#### **COURSE OUTCOMES**

After successful completion of this course, students shall be able to;

- CO1: Use analytic approaches to data warehousing and Data mining.
- CO2: The candidate will get knowledge of Data pre-processing and data quality
- CO3: Modeling and design of data warehouses
- CO4: Algorithms for data mining. Skills
- CO5: Ability to apply acquired knowledge for understanding data and select suitable methods for data analysis

- 1. R for Data Science Hadley Wickham and Garrett Grolemund
- 2. R in Action Robert Kabacoff
- 3. R for Everyone: Advanced Analytics and Graphics Jared P. Lander
- 4. The R Book Michael J. Crawley
- 5. R and Data Mining: Examples and Case Studies Yanchang Zhao
- 6. Data Analytics using R Seema Acharya, Mc Graw Hill Publication
- 7. Python Programming By Anurag Gupta, G Biswas Mcgraw Hill Education
- 8. Learn Python The Hard Way, Zed A. Shaw, ADDISON-WESLEY
- 9. Learning Python, Mark Lutz, O'REILY 4. Programming In Python, Dr. Pooja Sharma, BPB
- 10. Python Programming Using Problem Solving Approach, Reema Thareja, OUP
- 11. Taming Python by Programming, Jeeva Jose, Khanna Publishing House (AICTE Recommended Textbook)
- 12. Beginner's Guide for Data Analysis using R Programming, Jeeva Jose, Khanna Publishing House (AICTE Recommended)
- 13. Introduction to Machine Learning using R Programming, Jeeva Jose, Khanna Publishing House (AICTE Recommended)

# **BDA 302: BUSINESS INTELLEGENCE**

Name of the Course:			Business Intelligence		
Course Coo	de: BDA 302	Semester	III		
Duration: 6			n Marks: 100		
Teaching S	Scheme		<b>Examination Scheme</b>		
TI 21	/1		M:10 4 - 15		
Theory: 3h	rs/week		Mid Semester exam: 15		
Tutorial: N	IL		Assignment and Quiz: 10 marks		
			Attendance: 5 marks		
Practical:			End Semester Exam: 70 Marks		
Credit Poin	its: 4		,		
Unit	Content			Hrs/Unit	Marks/Unit
1	History and Evolution Difference between Business Intelligence	ution, Bus Informatice Value Real time	action: Introduction, Definition, siness Intelligence Segments, on and Intelligence, Defining Chain, Factors of Business Business Intelligence, Business	4L	
2	Landscape, Types	ce Enviro of Bus	nment, Business Intelligence	4L	
3	Business Intelligenc	e Tools, T	Introduction, Multiplicity of Types of Business Intelligence igence, the Enterprise Business ers	6L	
4	Data Model, Enterpri Conceptual Model, E Granularity of the Da	ion, Types of Data, Enterprise Area Model, Enterprise conceptual Entity Model, eporting and Query Tools, Data ata Quality Management	4L		
5	Mining, Data mining p Types of relationships, Data which can be min Classification on Data	arameters, larchitectured, Function Mining systems and disadvan	oduction, Definition of Data How Data Mining works?, re of Data Mining, Kinds of nalities of Data Mining, tem, Various risks in Data tages of Data Mining, Ethical f Ethical issues	8L	

6	Data Mining Techniques: Introduction, Statistical Perspective on Data Mining, Statistics-need, Similarity Measures, Decision Tree-Illustrations, Neural Network, Neural Network versus Conventional Computers, Kohonen's Self-Organizing Maps, Genetic Algorithms, Applications of Genetic Algorithm	4L	
7	Introduction to Data Warehousing: Introduction, Data Warehousing, Advantages and Disadvantages of Data Warehousing, Data Warehouse, Data Mart, Aspects of Data Mart, Online Analytical Processing, Characteristics of OLAP, OLAP Tools, OLAP Data Modeling, OLAP Tools and the Internet	4L	
8	Different Ways of Data Warehousing: Introduction, Types of Business Models, B2B Business Intelligence Model, Electronic Data Interchange & E-Commerce Models, Advantages of E-Commerce for B2B Businesses, Systems for Improving B2B E-Commerce, B2C Business Intelligence Model, Need of B2C model in Data warehousing, Different types of B2B intelligence Models & Case Study	6L	

#### On successful completion of this course students will be able to:

- Spotting business issues that need to be resolved.
- Working hard to improve and speed up decision making.
- Optimization of company processes internally.
- Greater running performance.
- Improve and strengthen advantage over its competitors.

#### Text book and Reference books:

- 1. Data Strategy: How To Profit From A World Of Big Data, Analytics And The Internet Of Things" by Bernard Marr.
- 2. Big Data Demystified: How To Use Big Data, Data Science And AI To Make Better Business Decisions And Gain Competitive Advantage" by David Stephenson PhD
- **3.** The Wall Street Journal Guide To Information Graphics: The Dos And Don'ts of Presenting Data, Facts, And Figures" by Dona M. Wong
- 4. Data Analytics For Beginners: Your Ultimate Guide To Learn And Master Data Analysis. Get Your Business Intelligence Right Accelerate Growth And Close More Sales" by Victor Finch
- 5. Beginner's Guide for Data Analysis using R Programming, Jeeva Jose, Khanna Publishing House (AICTE Recommended)
- 6. Performance Dashboards Measuring, Monitoring, And Managing Your Business" by Wayne Eckerson

# **ELECTIVE PAPERS**

# **FM 301: TAXATION**

Name of the Course: TAXATION			ON		
Course Code: FM 301 Semester II			III		
Duration: 6 months Maximum			n Marks: 100		
Teaching S	cheme		Examination Schen	me	
Theory: 5 d	ays./week		Mid Semester exam	: 15	
Tutorial: NI	L		Assignment and Qu	iz: 10 marks	
			Attendance: 5 mark	S	
Practical: h	rs./week		End Semester Exam	n: 70 Marks	
Credit Point	ts: 4				
Unit	Content			Hrs/Unit	Marks/Unit
DIREC	T TAX				
1	Concepts: Cannons Income, Previous You Year, Gross Avoidar Planning, Exemption Rebate, Relief.	ear, Assessm	ent g, Exemption,	2L	
2	Residential Status ar Corporate	nd Tax Incide	ence: Individual and	4L	
	Income Exempted from Tax: Indiv Corporate			2L	
3	Computation of Tax	able Income	of Individual, HUF.	8L	
	Firm and Corporate: Income – Salaries, Inc	Heads of			
	Profits and Gains from				
	Profession, Capital Gasources. Deduction from				
	Income – 80CCC, 801				
	80GGA, 80C, 80U; S				
	Forward of Losses – I		Ieaning, Inter –		
	sources and Inter – he Carry Forward and Se		ses under sections		
	71, 72and 73.	TOIT OF LOS	ses under sections		
4	Computation of Tax for Individual, H.U.F, Firm and			6L	
	Corporate: Rate of Tax and Surcharge Tax, Rebate Tax Managemen				
Submission of Return and Procedure					
Assessment, Pan, Tan, Preliminary i					
Deduction and Collection of Tax at Source, Advance Payment of Tax, Refund of Tax,					
	Minimum Alternate T		Kelulia of Tax,		
INDIRECT					
	Customs Act and Val	uation: Basic	: Concepts only	2L	
			. ,		

5	Goods and Service Tax: GST in India. Features and	8L	
	Advantages, Structure of GST in		
	India: CGST, SGST, UTGST, IGST, Taxes		
	subsumed by GST, Commodities kept		
	outside the scope of GST. Procedure for		
	Registration; Deemed Registration,		
	Cancellation of Registration, Revocation of		
	Cancellation of Registration. Levy and		
	Collection of Tax under GST: 16 Rates structure of		
	GST, Scope of supply,		
	Composition Scheme under GST		
6	Tax Planning: Scheme of Tax Planning, Tax	6L	
	Planning for Salaries, Tax Planning for		
	Profits and gains of Business or Profession, Tax		
	Planning for Capital Gains		
7	Case Study	2L	

#### **Suggested Readings:**

- 1. Lal and Vasisht, Direct Taxes, Pearson Education
- 2. Singahnia, Direct Taxes, Taxman
- 3. Singhania, Indirect Taxes, Taxman
- 4. Bhagawati Prasad, Direct tax law and Practice.
- 5. Gaur and Narang, Income Tax law and Practices, Kalyani Publisher
- 6. T. B. Chatterjee and V. Jalan, How to handle GST-TDS and GST-TCS, GST audit, GST Annual Return, Book Corporation

# FM 302: PROJECT APPRAISAL and FINANCE

Name of t	he Course: PROJECT APPRAISAL and FINANCE						
Course Co	ode: FM 302	Semester	Semester III				
Duration:	6 months	Maximur	n Marks: 100				
Teaching	Scheme		<b>Examination Scheme</b>				
Theory: 5 days./week		Mid Semester exam: 15					
Tutorial: N	NIL		Assignment and Quiz: 10 marks				
			Attendance: 5 marks				
Practical:	hrs./week		End Semester Exam : 70 Marks				
Credit Poi	nts:		4				
Unit	Content			Hrs/Unit	Marks/Unit		
1	Introduction to Project Finance, Overview and		4L				
	Fundamentals- Concepts, Functions, Types, Advantages and						
	Disadvantages, Parties, Perquisites of Project Finance.		s of Project Finance.				

2	Project Finance Risks and Risk Mitigation- Project Conceptualization Risk, Financial Closure Risk, Project Construction Risk, Political Risk, Market Risk, Supply Chain Risk, Policy Risk, Exchange Risk, Environmental Risk, Force Majeure	6L	
3	Sources of Capital- Various sources of debt and equity, Prudence in Mix of Long Term and Short Term Finance, Forms of Long Term Project Finance, Forms of Short Term Project Finance, Lease, Role of Non-Banking Finance Companies (NBFC)	6L	
4	Project Selection- Projects Procurement Process, Life – Cycle Costing, Market Analysis, Competencies and Promoter Analysis, Loan Documentation - Infrastructure and Public Private Partnership	6L	
5	Cost of Project -Project specifications, Estimating Fixed Capital Investment in Project, Estimating Working Capital investment in the project, Means of Financing, Concepts of Depreciation and Amortization	4L	
6	Project Feasibility Analysis - Background, Net Present Value (NPV), Profit v/s Cash Flow, Discount Rate, Tax-Shield on Interest, Tax-Shield on depreciation ,Internal Rate of Return (IRR), XIRR, MIRR , Project IRR and Equity IRR, Payback Period, Discounted Payback Period, Economic IRR	6L	
7	Financial Projections-Projected Profit and Loss Account, Projected Balance Sheet, Projected Funds Flow, Project IRR, Equity IRR, Loan Servicing Capability: (a) Interest Coverage Ratio (ICR) (b) Debt Service Coverage Ratio (DSCR) (c) Long Term Debt Service Coverage Ratio (LDR) d) Sensitivity Analysis	6L	
8	Case Study	2L	

- 1. Project Financing: Asset-Based Financial Engineering-John D. Finnerty, Wiley and Sons
- 2. Project Finance in Theory and Practice: Designing, Structuring, and Financing Private and Public Projects, Stefano Gatti-Academic Press
- 3. Principles of Project Finance- E. R. Yescombe, Academic Press
- 4. Corporate and Project Finance Modeling: Theory and Practice- Edward Bodmer, Wiley and Sons
- 5. Introduction to Project Finance-Andrew Fight, Elsevier
- 6. PPP And Project Finance -Das, Prabuddha, McGraw-Hill Education

# **FM 303: BEHAVIORAL FINANCE**

Name of the Course:	BEHAVI	IORAL FINANCE
Course Code: FM 303 Semester		III
Duration: 6 months	Maximun	n Marks: 100
Teaching Scheme	I	<b>Examination Scheme</b>
Theory: 5 days./week		Mid Semester exam: 15
Tutorial: NIL		Assignment and Quiz: 10 marks
		Attendance: 5 marks
Practical: hrs./week		End Semester Exam: 70 Marks
Credit Points: 4		

Credit Point	ts: 4		
Unit	Content	Hrs/Unit	Marks/Unit
1	Introduction to the Practical Application of	4L	
	Behavioral Finance: Concept of		
	Behavioral Finance, History, Incorporating		
	Investment Behavior into the Asset Allocation Process.		
2	Investment Decision Cycle: Judgment under Uncertainty	2L	
3	Intro to Neoclassical Economics and Expected	4L	
	Utility Theory-Utility/ Preference		
	Functions: Expected Utility Theory [EUT]		
4	Brief History of Rational Thought: Pascal- Fermat to Friedman-Savage	4L	
	Paradoxes		
5	Prospect Theory :Capital Asset Pricing Model,	4L	
	Misconceptions about Market Efficiency, and Agency Theory Prospect		
	Theory, Framing, and Mental Accounting		
6	Information Screening Biases: Anomalies, Noise Trading, and Limits to	2L	
	Arbitrage		
7	Information Processing: Bayesian Decision Making, Heuristics and	6L	
	cognitive biases, Overconfidence, Emotional Foundations,		
	Implication of Heuristics and Biases for Financial Decision-Making,		
	Implications for Overconfidence for Financial Decision- Making,		
	Individual Investors and the Force of Emotion		
8	Forecasting Biases	2L	
9	Emotion and Neuroscience	4L	
10	Group Behavior: Conformism, Herding, Fatal Attractions	4L	
11	Investing Styles and Behavioral Finance	4L	
12	Case Study	2L	

- 1. Behavioural Finance Chandra. Prasanna. Mcgraw Hill
- 2. Behavioural Finance M. M. Sulphey. PHI
- 3. Understanding Behavioral Finance Lucy AckertCengage Learning India
- 4. Behavioural Finance, William Forbes, Wiley
- 5. Behavioral Finance: Psychology, Decision-Making, and Markets ,Richard Deaves , South-Western College Publishing
- 6. Behavioural Finance, Shuchita Singh Vikas Publishing House

#### FM 304: CORPORATE FINANCE

Name of the Course:	CORPO	RATE FINANCE
Course Code: FM 304	Semester	III
Duration: 6 months	Maximun	n Marks: 100
Teaching Scheme	l .	<b>Examination Scheme</b>
Theory5 days./week		Mid Semester exam: 15
Tutorial: NIL		Assignment and Quiz: 10 marks
		Attendance: 5 marks
Practical: hrs./week		End Semester Exam: 70 Marks
Credit Points: 4		

Hrs/Unit Marks/Unit Content Unit 1 Introduction to Financial Management: Scope, Objectives, Functions 2L Capital Structure: Concepts, Component of 6L 2 Capital, Leverage, Models of Capital Structure Introduction to Corporate Finance: Meaning of Corporation, Role of 3 2LFinancial Manager, Agency Problem. 4 NPV as Investment Decision Criteria: 4L Comparing NPV with other methods of Investment Decisions, The problems of multiple rates of Return, Mutually Exclusive Projects, Capital Rationing. 5 The Investment Decision: The Cash Flow, 4L Equivalent annual Costs, Project Interactions Capital Budgeting and Risk: Company and Project Costs of 6 4L Capital, Measuring Cost of Equity, Cost of Capital, and Risk Adjusted Discount Rate, Sensitivity Analysis, Monte Carlo Simulation, Real Options and Decision Trees 7 Alignment of Managers and Owners Goal: 4L Practical aspects of Capital Investment Process, Information and Capital Investment, Incentives and their role in agency Problem, Measuring and Rewarding Performance: EVA, Pros and Cons of EVA 8 Market efficiency and Corporate Financing Basics of EMH, The 4L Anomalies, The lessons for the Corporate Manager 9 The Financing Decision: The Financing Process, 4L The Financing Mix: Tradeoffs and Theory, The Optimal Financing Mix, The Financing Mix and Choices

10	The Dividend Decision: Dividend Policy, analyzing Cash Returned to Stockholders, Buybacks, Spinoffs, and Divestures	4L	
11	Case Study	2L	

- 1. Brearly, Myers, Mohanty: Corporate Finance, Tata McGraw-Hill
- 2. Copeland Weston Shastri: Financial theory and Corporate Policies, Pearson Education
- 3. Damodaran: Corporate Finance, Wiley
- 4. Ehrhardtand Brigham: Corporate Finance- a Focused approach, Thomson Learning
- 5. Megginson, Smart and Gitman: Principles of Corporate Finance, Thomson Learning
- 6. Ross, Westerfield and Jaffe: Corporate Finance, Tata McGraw-Hill

# **HUMAN RESOURCE MANAGEMENT**

# **HR 301: TEAM DYNAMICS AT WORK**

Name of the Course:			TEAM D	YNAMICS AT WORK		
Course Code: HR 301 Semester			Semester	III		
Duration: 6 months Maximum			Maximum	n Marks: 100		
Teaching S	Scheme			<b>Examination Scheme</b>		
Theory: 5 o	days./week			Mid Semester exam: 15		
Tutorial: N	IL			Assignment and Quiz: 10 marks		
				Attendance: 5 marks		
Practical: h	rs./week			End Semester Exam: 70 Marks		
Credit Poir	nts:	4				
Unit	(	Content			Hrs/Unit	Marks/Unit
	Informal g Why peop Theories of Theodore Five stage model of of Manageria	ole join group of group for Newcomb's group deve developmen al Implication	nmand, Task ps. The dyn mation: Class Balance the clopment mot t of temporations.	s, Interest and Friendship groups.  lamics of group formation.  ssic theory of George Homans,  leory, Exchange theory.  odel, Punctuated Equilibrium  ary groups with deadlines.		
2	Group Properties: Roles, Norms, Status, Size, Cohesiveness - factors that increase, Decrease group cohesiveness, relationship between group cohesiveness, Performance norms and productivity. Deviant workplace behaviour, Typology of Deviant workplace behaviour, groups and deviant behaviour. Managerial Implications.				4L	
3	Implications.  The Schachter Study - Implication Sociogram, Sociometry. The dynamics of Informal Groups Roles in informal groups, informal Roles and the informal organization Groups - Positive and negative att dysfunctions of group norms violated Groups' contribution to employee Managerial Implications.			s - Norms and al on. The dynamics of formal tributes of committees. The ation and role ambiguity conflict.	4L	

4	Group decision making: Group versus the Individual, strength and weakness of group decision making, Effectiveness and efficiency. Group Think – conformity problem, symptoms of groupthink. Group Shift - risky shift phenomenon.  Dysfunctions perspective, social loafing. Group decision making techniques - Interacting groups, Brainstorming, Nominal Group Technique, Electronic meeting, Dialectic Decision Method (DDM), Delphi Technique Managerial Implications	4L	
5	Case Studies, Presentations, quizzes, experiential exercises, Team exercises, Group Discussions, Role Playing.	4L	
6	Teams in the modern workplace, why teams have become so popular, difference between group and team, types of teams – problem-solving teams, self- managed work teams, crossfunctional teams, virtual teams. Managerial Implications.	4L	
7	Creating effective teams, the Team Effectiveness Model – context, composition, work design, process. Ingredients of effective teams – supportive environment, skills and role clarity, super ordinate goals, team rewards. Potential team problems – changing composition, social loafing. Guidelines for developing effective self-managed teams.  Turning individuals into team players, shaping team players – selection, training, rewards. Managerial Implications.	6L	
8	Team building: meaning of team building, need of team building, the process, specific building issues, team leadership, skills useful in team building – process consultation, T- group sensitivity training, communication skills, Negotiation skills, conflict resolution in teams, competitive vs collaborative behavior, developing collaboration facilitating behaviours, feedback. Managerial Implications.	4L	
9	Contemporary issues in managing teams: teams and quality management, teams and workforce diversity. Cultural/global issues. Characteristics of mature teams - individual territories versus team spaces.  Managerial Implications.	2L	
10	Case Studies, Presentations, quizzes, experiential exercises, Team exercises, Group Discussions, Role Playing.	4L	

- 1. Robbins, S.P. Judge, T.A. and Sanghi, S.: Organizational Behaviour, Pearson
- 2. Luthans, Fred: Organizational Behaviour, McGraw Hill
- 3. Newstrom J.W. and Devis K.: Organizational Behaviour, McGraw Hill
- 4. Aswathappa, K: Organisational Behaviour, Himalaya Publishing House
- 5. Shukla, Madhukar: Understanding Organizations Organizational Theory and Practice in India, Prentice Hall
- 6. Sekharan, Uma: Organisational Behaviour, The Mc Graw -Hill Companies

# **HR 302: HUMAN RESOURCE METRICS AND ANALYTICS**

	Name of the Course: HUMAN		N RESOURCE METRICS AND ANALYTICS		
		Semester			
Duration:		Maximun	n Marks: 100		
Teaching	Scheme		<b>Examination Scheme</b>		
Theory: 5	days./week		Mid Semester exam: 15		
Tutorial: 1	NIL		Assignment and Quiz: 10 ma	rks	
			Attendance: 5 marks		
Practical:	hrs./week		End Semester Exam: 70 Mar	rks	
Credit Poi	nts: 4				
Unit	Content			Hrs/Unit	Marks/Unit
1	should HR measure? Examples of HR metric Analytics? Big data and Stages in Data Analytic	s. HR Analytics, Types of Analytics?	,	6L	
2	and the role of technologorganizational success. Analytics. IMPACT Cy Linking HR metrics to tools and techniques: Identifications.	ogy. Levera Mapping E vele. Pillars business ou lentifying I measureme	es, Stages of HR Analytics ging HR Analytics for Business Analytics and HR of HR Analytics success. atcomes. HR measurement HR metrics, sources of data, ent. Excel, SPSS, SAP and	8L	
3	Predictive Management	oducing, Pr t. Value Ch tal measure	redicting. The Model for	4L	
4	HR Analytics and the F effective HR Analytics. Hiring, HR Operations, Development, Performa Compensation and Rew Planning, Employee En	HR analyt Learning a ance Manag vards, Succ	ics modules: HR Planning, and gement,	10L	
5	Human Resource Information HRIS, Framework of HRIS. Benefits of HRIS Management Analysis, Social media, cloud modern Engagement Analysis.	S. HRIS Tr Data Analy bile enable	ytics, d, Employee	6L	

6	Data and Information needs for HR Manager - Role of IT in	4L	
	HRM - IT for HR Managers - Concept, Structure, and Mechanisms of HRIS, survey of		
	Software Packages for Human Resource Information		
	System including ERP Software such as		
	SAP, Oracle. EHRM-objectives, advantages and disadvantages.		
7	Case Study	2L	

#### **Suggested Readings:**

Name of the Course:

- 1. Michael Armstrong, A Handbook Of Human Resource Management Practice, Kogan Page
- 2. Gueutal and Stone, The Brave New World Of e-HR
- 3. Monk and Wagner, Concepts In Enterprise Resource Planning, Thomson
- 4. Steve VanWieren, Quantifiably Better: Delivering Human Resource Analytics from start to finish.
- 5. Bernard Marr, Data-driven HR: How to use Analytics and Metrics to drive performance.
- 6. Ramesh Soundararajan, Kuldeep Singh, Winning on HR Analytics: Leveraging data for competitive advantage.

## HR 303: CROSS CULTURAL MANAGEMENT

CROSS CULTURAL MANAGEMENT

Course Cod	e: HR 303	Semester	III		
Duration: 6	months	Maximun	n Marks: 100		
Teaching S	cheme		<b>Examination Scheme</b>		
Theory: 5 d	ays./week		Mid Semester exam: 15		
Tutorial: NI	L		Assignment and Quiz: 10 m	arks	
			Attendance: 5 marks		
Practical: h	ractical: hrs./week End Semester l		End Semester Exam: 70 Ma	nrks	
Credit Poin	ts: 4				
Unit	Content			Hrs/Unit	Marks/Unit
1	Introduction - Concept of Culture For A Business Context; Organizational Culture and Its Dimensions; Cultural Background of Business Stake-Holders [Managers, Employees, Share -Holders, Suppliers, Customers and Others – An Analytical Framework		kground of olders, Suppliers, ytical Framework	10L	
2	Culture and Global M Scenario and Role of Analysis; Elements an Across Cultures; Con Indian MNC and Ford Performance Winning Implications for Tean	Culture; A land Processes munication eign MNC at Teams and	Frame Work for s of Communication a Strategy for/ of An and High	10L	

3	Cross Culture – Negotiation and Decision Making - Process of Negotiation and Needed Skills and Knowledge Base – Over view with two illustrations from multi cultural contexts [India – Europe/ India – US settings, for instance]; International and Global Business Operations- Strategy Formulation and Implementation; Aligning Strategy, Structure and Culture in an organizational Context	8L	
4	Global Human Resources Management - Staffing and Training for Global Operations – Expatriate - Developing a Global Management Cadre  Motivating and Leading; Developing the values and behaviors necessary to build high-performance organization personnel [individuals and teams included] – Retention strategies.	4L	
5	Corporate Culture - The Nature of Organizational Cultures Diagnosing the As-Is Condition; Designing the Strategy for a Culture Change Building; Successful Implementation of Culture Change Phase; Measurement of ongoing Improvement	6L	
6	Case Study	2L	

#### **Suggested Readings:**

- 1. Cashby Franklin, Revitalize Your Corporate Culture: PHI, Delhi
- 2. Deresky Helen, International Management: Managing Across Borders And Cultures, PHI, Delhi
- 3. Esenn Drlarry, Rchildress John, The Secret Of A Winning Culture: PHI, Delhi
- 4. Deepak Kr. Bhattacharya, Cross Cultural Management, PHI
- 5. Jessica. L. Whiteman, Richard, L. Griffith, Critical Issues in Cross Cultural Management, Springer
- 6. Broweays, Understanding Cross Cultural Management; Pearson

### HR 304: ORGANIZATIONAL DESIGN

Name of the	Course:		ORGANIZATIONAL DESIGN			
Course Code	e: HR 304		Semester	III		
Duration: 6	months		Maximun	n Marks: 100		
Teaching So	cheme			Examination Scheme		
Theory: 5 da	ays./week			Mid Semester exam: 15		
Tutorial: NI	L			Assignment and Quiz: 10 marks		
				Attendance: 5 marks		
Practical: hr	s./week			End Semester Exam: 70 Marks		
Credit Point	s:	4				
Unit	(	Content			Hrs/Unit	Marks/Unit

1	Organization Theory – Classical Theories: Scientific	4L	
1	Management, Administrative Principles, Theory of	TL	
	Bureaucracy, Human Relations Approach; Modern Theories:		
	Systems Approach, Information processing Approach, Contingency		
	Approach. Managerial Implications.		
2	The Bureaucratic model, dysfunctions of Specialization, Hierarchy,	4L	
2	Rules, Impersonal characteristics. Modern view of Bureaucracies,	4L	
	Modifications of Bureaucratic structuring, types of centralization and		
	decentralization, optimum degree of decentralization,		
	Flat and tall structures, Behavioral implications of Flat versus Tall		
	Structure. Managerial Implications.		
3	Organizational Structure and Design – Understanding organizational structure, Elements of Designs of organization's	6L	
	structure: Work Specialization, Departmentalization, Chain of		
	command, Span of control, Centralization and Decentralization,		
	Formalization Understanding Departmentalization by Function,		
	Product, Location, process, customer. Types of structures: Line,		
	Line and Staff, Functional, Project, Matrix structures.		
	Managerial Implications		
4	Case Studies, Presentations, quizzes, experiential exercises,	6L	
	Team exercises, Group Discussions.		
5	Mechanistic and Organic Models: Determinants of an	4L	
	Organization's Structure –		
	Strategy, the strategy and structure relationship,		
	Organization Size, Technology and		
	Environment, Three Dimensional Model of the Environment.		
	Organizational Designs and Employee Behaviour. Managerial		
	Implications.		
6	Emerging Organizational Designs: Horizontal design, Network	6L	
	design, Virtual	02	
	Organization, Boundary less Organization, Learning		
	Organisation, Empowered Organizations, e-		
	Organization: implications for Individual Behaviour, Group		
	behaviour, effects on interpersonal relationships. Restructuring		
	Indian Organisations,		
	Regrouping business activities, strategic business units. Managerial		
	Implications.		
7	Forces reshaping Organizations: Organizational Life	6L	
	Cycles, Impact of Culture on organization Structure, Types		
	and forces of organizational change: Globalization,		
	Changes in Information processing technologies,		
	Automation, Demands on organizational processes.		
	Roles and responsibilities in the changed process.  Managerial Implications.		
8	Case Studies, Presentations, quizzes, experiential exercises, Team	4L	
	exercises, Group Discussions.		

#### **Suggested Readings:**

Name of the Course:

Course Code: MM 301

- 1. Robbins, S.P. Judge, T.A. and Sanghi, S.: Organizational Behaviour, Pearson
- 2. Luthans, Fred: Organizational Behaviour, McGraw Hill
- 3. Newstrom J.W. and Devis K.: Organizational Behaviour, McGraw Hill
- 4. Aswathappa, K: Organisational Behaviour, Himalaya Publishing House
- 5. Shukla, Madhukar: Understanding Organizations Organizational Theory and Practice in India, Prentice Hall

**B2B MARKETING** 

Semester III

6. Sekharan, Uma: Organisational Behaviour, The Mc Graw -Hill Companies

#### **MARKETING**

## **MM 301: B2B MARKETING**

Duration:	ion: 6 months Maximum Marks: 100					
Teaching	Scheme			<b>Examination Scheme</b>		
Theory: 5	Cheory: 5 days./week			Mid Semester exam: 15		
Tutorial:	NIL			Assignment and Quiz: 10 marks		
				Attendance: 5 marks		
Practical:	hrs./week			End Semester Exam : 70 Marks		
Credit Po	ints:	4				
Unit	Content				Hrs/Unit	Marks/Unit
2	Concept, I Marketing Markets, T Products a Services, I Organizat Characteri  Organizat Types of p Inter Perso Buying Bo Resolution	Business vs.  Experience of Business custonal Procurents on Business custonal Procurents on Business Custonal Business (business) business (busine	Consumer s of Industrisiness Customers' purement onment Analysing situations of Busin, The Web	ng centre, Conflict	6L	
3		B Marketing	g Research,	Sales Forecasting Approaches,	2L	
4		rket, Value	based segm	Targeting and Positioning of tentation, Model for segmenting	4L	

5	Product Policy of established products: Classification of the product types; the life cycle of the product; Management products; Strategies for established products. Product policy of new product development: Strategies for the development of new products; Marketing systems; Marketing of engineering services	4L	
6	Formulating Channel Strategy: Nature of Business Marketing channels, Intermediaries, Direct and Indirect Channels, Channel Objectives, Channel Design, Managing Channel Members, Selection and Motivation of Channel Members, Channel conflicts	4L	
7	Pricing Strategy: Price Determinants, Factors that Influence the Pricing Strategies, Pricing Methods, concept of learning curves, Pricing Strategies, Pricing Policies, Terms of Payment, Competitive Bidding, Leasing	2L	
8	Case Study The Promotional Strategies: Communication Objectives, Role of personal relation, Advertising, Sales Promotion in Industrial Markets, Trade shows and Exhibitions	2L	
9	Management of Sales Force: Personal Selling, steps involved in B2B personal selling, process of tendering, Key Account Management, Managing the Industrial Sales Force, Organizing and controlling the industrial sales force activity, planning for sales force deployment	4L	
10	B2B through E-Commerce: Business-to-Business forms of E-Commerce, Models for B2B ecommerce, marketing strategy for the electronic market place.	4L	
11	Case Studies in Indian context only	2L	

#### **Suggested Readings:**

- 1. Industrial Marketing by P. K. Ghosh; Oxford University Press
- 2. Indian Cases in B2B Marketing by Dilip Sarwate
- 3. Fundamentals of Business to Business by Coe John; McGraw-Hill Education
- 4. Business Market Management by Jr. Anderson James C; Pearson
- 5. Driving Demand: Transforming B2B Marketing to Meet the Needs of the Modern Buyer by Carlos Hidalgo; Palgrave Macmillan
- 6. The Challenger Sale by Matthew Dixon, Brent Adamson; Penguin

#### MM 302: SALES & DISTRIBUTION MANAGEMENT

Name of the Course:	SALES & DIST	TRIBUTION MANAGEMENT
Course Code: MM 302	Semester III	
Duration: 6 months	Maximum Mark	s: 100
Teaching Scheme		Examination Scheme
Theory: 5 Days /week		Mid Semester exam: 15

Tutorial: NIL	Ass	Assignment and Quiz: 10 marks				
	Att	Attendance: 5 marks				
Practical: hrs./	week End	d Semester Exam: 70 Marks				
Credit Points:	4					
Unit	Content		Hrs/Unit	Marks/Unit		
1	Introduction to Sales Management Nature & scope of personal selling & sales manage manager	Evolution of sales department, ement, Roles and functions of a sales	2L			
2		ing situations, Buyer- seller dyad, ing process (pre-approach, approach, follow-up)	4L			
3	Planning and Organizing Sales For sales organization, Sales department relations, Sales forecasting, Sales be territories and quotas, functions of	nt relations, Distribution network	4L			
4	_	es of recruitment, Selection process, urpose of training, Types of training, ACMEE model	4L			
5	Supervision, Territory managemen	ermination of compensation of sales alysis of sales, Costs and	6L			
6	channel	Functions and advantages, Types of distributors, sales agents, brokers, flicts and remedies	4L			
7	Channel Design and Management: & constraints, Identification, evaluation and selection of channel Channel management and control recruiting and selecting channel me channel arrangements	l alternatives,	4L			
8	Physical Distribution & Logis warehousing, inventory & transport	stics: Goals, function, processing, tation	2L			
9	of retail formats, Stores layout Planning of assortment,	ent: Retail strategies, Location, Types, Visual merchandising techniques, ndise, Supply chain management in	6L			
10	Case Studies		4L			
				1		

- 1. Cundiff, Still & Govoni: Sales Management Decision, Strategies & Cases; PHI./Pearson Education
- 2. Levy, M. & Weitz, B.A.- Retailing Management McGrawHill
- 3. Panda, Sahadev: Sales & Distribution Management; OUP
- 4. Shapiro, R.L., Stanton, W.J. & Rich, G.A.: Management of Sales Force; TMH
- 5. S.L. Gupta Sales and Distribution Management, Excel Books India, 2009
- 6. Krishna K Havaldar Vasant M Cavale Sales and Distribution Management: Text and Cases, Tata McGraw-Hill Education,

# MM 303: IMC/ PROMOTION STRATEGY

Name of th		IOTION STRATEGY		
	de: MM 303 Semester III			
Duration: 6	months Maximum M	arks: 100		
Teaching S	Scheme E.	xamination Scheme		
Theory: 5 o	lays./week M	lid Semester exam: 15		
Tutorial: N	IL A	ssignment and Quiz: 10 marks		
	A	ttendance: 5 marks		
Practical: h	rs./week E1	nd Semester Exam: 70 Marks		
Credit Poir	ts: 4			
Unit	Content		Hrs/Unit	Marks/Unit
1	Introduction to Integrated Marketing Definition, features and role of IMC program Concept, Evolution of IMC, Features. Promotional Tools for IMC Communication Process, AIDA and Establishing Objectives and Budgetin Promotional Objectives, Sales vs. Co Objectives, DAGMAR, Problems in Objectives for the IMC Program.	and its relation with marketing Reasons for Growth and GIMC Planning Process, Hierarchy of Effect Model, ng: Determining	4L	
2	Elements of IMC: Sales Promotion – Sales Promotion, Advantages and Di- Publicity – Types of PR, Process, Ad Types of Publicity, Direct Marketing Disadvantages, Personal Selling – Features, Advantages and Disadvantages and Disadvantages, New Media.	sadvantages. Public Relation and lyantages and Disadvantages, - Features, Advantages and htages, Advertising – Features,	6L	
3	Sales Promotion: Definition, Reasons promotion, Objectives of sales promotions and techniques of consumer an and demerits, Role of sales promotion	otion, Types of sales promotion, and trade promotion with merits	4L	
4	Public Relations and Corporate Adverse PR, Objectives, tools and techniques and demerits, Corporate advertising-IMC programme	of public relations with merits	2L	
5	Evaluation of Promotional Effectiver effectiveness, What, when, where, ho testing and post testing techniques, E Problems with current methods, Mea promotion	ow to test, Testing methods - presentials of effective measures,	2L	
6	Advertisement: Introduction to Adve Definition, features and role of adver advertising with other promotional melements, Various forms of Advertisi (national, retail, cooperative, trade, industrial financial, corporate, public	tising, Relationship of iixes and marketing mix ng:	2L	

7	Advertising Industry: Advertisers, Advertising agencies and support organizations, Types of agencies, Structure, role and functions of ad agencies, Agency compensation and evaluation.	2L	
8	Advertising Planning and Budgeting: Planning process, steps, situation analysis, objective setting, budgeting, developing promotional strategies, implementation and control, Budgeting approaches – different methods, allocation of budget	2L	
9	Designing an Advertisement: Different dimensions, Importance of creativity to advertising, Creative process, developing a creative brief, Message Strategies: Message structure, Message appeals- rational, emotional, Message source- credibility, attractiveness, power.	4L	
10	Execution frameworks: for print and electronic media - copywriting, body copy, headlines, layout, visuals, slogans, logos, signatures, storyboards	2L	
11	Media Strategies: Media planning process, Media mix, Coverage, Reach, Frequency, Impact, Scheduling, Different types of media – television, radio, print, outdoor, characteristic features, advantages and limitations, Factors influencing choice of media flows and functions, Channel design decisions	4L	
12	Social Media marketing: Concept, role and features of SMO, SEO, Facebook, Twitter, Linked in, youtube as means of marketing communication	2L	
13	Advertising and Society: Social – social and cultural, Ethical – deceptive, offensive, economical- effect on consumer choice, competition, cost and prices, and Regulatory aspects of advertising – ASCI	2L	
	Case Study on aspects of Advertising	2L	

#### **Suggested Readings:**

- 1. Contemporary Advertising: Arens W.F.; TMH
- 2. Advertising and Promotion: Belch G.E. and Belch M.A; TMH
- 3. Integrated Advertising, Promotion and Marketing Communications: Clow K.E., Baack D.; Pearson
- 4. Advertising and Integrated Brand Promotion: O'Guinn T. C., Allen C.T.; South Western
- 5. Ogilvy on Advertising: Ogilvy David; Pan Books
- 6. Understanding Digital Marketing: Damian Ryan, Pearson

#### **MM 304: MARKETING RESEARCH**

Name of the Course:	MARKET	MARKETING RESEARCH	
Course Code: MM 304	Semester II	emester III	
Duration: 6 months	Maximum	Marks: 100	
Teaching Scheme	•	Examination Scheme	
Theory: 5 days/week		Mid Semester exam: 15	

Tutorial: NIL	Assignment and Quiz: 10 marks	
	Attendance: 5 marks	
Practical: hrs./week	End Semester Exam: 70 Marks	
Cradit Daintar	·	

Credit Poir Unit	nts: 4 Content	Hrs/Unit	Marks/Unit
1	Marketing Research: Introduction, Application of research in managerial decision making, Aims, roles, functions and sources of research, Client-user interface – role conflict and resolution	2L	
2	Research Process: Steps in planning – research purpose and objectives, Converting a manager's problem to a researcher's problem, Problem formulation, research design, data collection, analysis, report presentation, Preparation of the research proposal.	4L	
3	Research Design: Types of research - exploratory studies, descriptive studies, causal studies, Types of information needed - behavioural and non- behavioural correlates	4L	
4	Sources of Data: Primary and secondary source (govt., non- govt. and syndicated research), Errors in data collection	4L	
5	Primary Source – Methods of Data Collection: Focus groups, Observations, Case histories; Surveys – survey methods - structured and unstructured, direct and indirect methods, indepth interviews, panels, interview media: personal, telephone, internet and mail, questionnaire construction and pre-testing, qualitative and quantitative research.	4L	
6	Case Study Measurement and Scaling: Types of scales (data/levels of measurements), nominal, ordinal, interval, ratio scales, Attitude measurement methods - variability methods (paired comparison, ranking, rating, ordered category sorting), Quantitative judgment methods	6L	
7	Sampling: Census vs. sample, Steps in sampling process, Definition of population, frame, unit and element, Types of sampling: Probabilitistic and non-probabilitistic sampling techniques Determination of sample size	4L	
8	Analysis of Data: Classification of data, Analytical techniques – univariate analysis, hypothesis testing- parametric and non-parametric tests, bivariate analysis. Some multivariate analysis techniques like multiple regression, discriminant analysis, factor analysis, cluster analysis, multi - dimensional scaling and conjoint analysis, forecasting methods (application and interpretation only)	10L	
9	Application Areas: Advertising Sales analysis and forecasting, Case Studies	2L	

- 1. Research for Marketing Decisions: P. Green and D. Tull and G. Albaum; PHI
- 2. Marketing Research: Text and Cases; Boyd and Westfall; AIT Bookseller
- 3. Marketing Research: Luck and Rubin; PHI
- 4. Marketing Research: D.R. Cooper and P.S. Schindler; TMH
- 5. Marketing Research: Naresh K Malhotra; Pearson
- 6. Marketing Research: G C Beri; Tata McGraw Hill

### **MANAGEMENT INFORMATION SYSTEM**

### **MIS 301: DATA MINING FOR BUSINESS DECISION**

Name of	the Course:	DATA MINING FOR BUSINESS DECISI	ON				
Course C	ode: MIS 301	Semester III					
Duration:	6 months	Maximum Marks: 100	n Marks: 100				
Teaching	Scheme	Examination Scheme	Examination Scheme				
Theory: 5	Days /week	Mid Semester exam: 15	Mid Semester exam: 15				
Tutorial:	NIL	Assignment and Quiz: 10 marks	Assignment and Quiz: 10 marks				
		Attendance: 5 marks					
Practical:	hrs./week	End Semester Exam: 70 Marks					
Credit Po	ints: 4	,					
Unit	Content		Hrs/Unit	Marks/Unit			
1	Introduction to Data Mi Concept, Goals, Stages Knowledge representati	4L					
2	summarization – centra	ta types, Quality, Descriptive data tendency and dispersion measure, Data on, Data integration and transform, Data	6L				
3	l .	g: Market-basket analysis basics, Naïve ithm, Software for Association Rule Mining.	4L				
4	Classification and Predi Bayesian classification, Regression	ction: Decision Tree, Rule-based classification, Prediction – Linear	4L				
5		LAP: Data Warehouse and DBMS, model, OLAP operations	6L				
6		AP: Data Warehouse and DBMS, model, OLAP operations	8L				
7	attributes (keywords), structural a approach to classifying extracting knowledge fi	nd Applications: Text mining: extracting pproaches (parsing, soft parsing), Bayesian text, Web mining: classifying web pages, om the web, Social impacts of data mining, data security, IT Act overview.	6L				
8	Case Study		2L				

- 1. Tan, Steinbach and Kumar, Introduction to Data Mining, Pearson
- 2. Han and Camber, Data Mining: Concepts and Techniques, Morgan Kaufmann
- 3. Foreman, Data Smart: Using Data Science to Transform Information into Insight, John Wiley

- 4. Dunham, Data Mining: Introductory and Advanced Topics, Pearson
- 5. Vipin Kumar: Introduction to Data Mining, Pearson
- 6. Ian, H. Witten, Frank: Data Mining: Practical Machine Learning Tools and Techniques, Elsevier.

#### MIS 302: E-COMMERCE and DIGITAL MARKETS

Name of the Course: <b>E-COMM</b>			ERCE and DIGITAL MARKET	S			
Course Co	ode: MIS 302	Semester I	II				
Duration:	6 months	Maximum	Marks: 100				
Teaching	Scheme		Examination Scheme				
Theory: 5	days /week		Mid Semester exam: 15				
Tutorial: 1	NIL		Assignment and Quiz: 10 marks				
			Attendance: 5 marks				
Practical:	hrs./week		End Semester Exam: 70 Marks				
Credit Po	ints: 4						
Unit	Content			Hrs/Unit	Marks/Unit		
1	Model based on revenue ECommercebusiness, Inf Different types of Networ	Features, B models, Imprastructure king for E-0 m, Risk of	usiness models of E-Commerce, plementation Requirement for E-Commerce, Commerce ,Internet, Extranet and Ecommerce –Overview, Security	8L			
2	M-Commerce: Definition, Classification, Advantages and Disadvantages, Benefits, Pitfalls of M-Commerce, Hand Held Devices, Mobility and Commerce, Mobile Computing, Wireless Web, Payment Mode.			6L			
3	E-Strategy: Overview, St Commerce, E-Advertiser Threats and Protection	-	hods for developing E- ent Mode, E-Cheque, E-cash, E-	6L			
4	4 ERP and SCM: Definitions-ERP,CRM,SCM, Concept of ERP, Evolution of ERP, Scope and Problem of ERP selection and Implementation ,Selection of EEP process, Feature of Commercial Software, Concept of CRM, Features ,Applications, SRM portal, SCP tools, SCE, Framework, Internet's Effect on Supply Chain Power, Case Study			8L			
5	Marketing and Offline m	arketing, SI ceting in Dig	shopping, Role, Policies ,Online EO,SMM,SEM, Meta Tags, gital Age, Telemarketing, portal, Case Study	6L			
6	EDI: Introduction, Defining Protocol	ition, Featur	res, Benefits, Application, Model,	4L			
7	Case Study			2L			

- 1. Dropshipping E-commerce Business Model 2019: Steven Sparrow
- 2. Electronic Commerce: Gray P. Schneider
- 3. E-Commerce Website Optimization: Dan Croxen-John, Johann van Tonder
- 4. Electronics Commerce Technologies and Applications: Bhaskar Bharat, TMH
- 5. Frontiers of Electronic Commerce: Kalakota , Whinston, Pearson Education
- 6. E-Commerce, Sarika Gupta, Khanna Publishing House.
- 7. E-Commerce: Strategy Technologies and Applications: Whiteley, David, TMH

# **MIS 303: MANAGING SOFTWARE PROJECTS**

Name of the Course:	me of the Course: MANAGING SOFTWARE PROJECTS	
Course Code: MIS 303	Semester I	II
Duration: 6 months	Maximum	Marks: 100
Teaching Scheme	•	Examination Scheme
Theory: 5 days./week		Mid Semester exam: 15
Tutorial: NIL		Assignment and Quiz: 10 marks
		Attendance: 5 marks
Practical: hrs./week		End Semester Exam: 70 Marks
Credit Points: 4		

Unit	Content	Hrs/Unit	Marks/Unit
1	Project Evaluation and Project Planning: Importance of Software Project Management –Activities Methodologies – Categorization of Software Projects – Setting objectives – Management Principles – Management Control – Project portfolio Management – Cost benefit evaluation technology – Risk evaluation – Strategic program Management – Stepwise Project Planning	8L	
2	Project Life Cycle: Software process and Process Models – Choice of Process models – mental delivery – Rapid Application development – Agile methods – Extreme Programming – SCRUM – Managing interactive processes	4L	
3	Effort Estimation: Basics of Software estimation – Effort and Cost estimation techniques – COSMIC Full function points – COCOMO II. Parametric Productivity Model – Staffing Pattern	4L	
4	Activity Planning And Risk Management: Objectives of Activity planning – Project schedules – Activities – Sequencing and scheduling – Network Planning models – Forward Pass and Backward Pass techniques – Critical path (CRM) method – Risk identification – Assessment – Monitoring – PERT technique – Monte Carlo simulation – Resource Allocation – Creation of critical patterns – Cost schedules.	6L	
5	Project Management and Control: Framework for Management and control – Collection of data Project termination – Visualizing progress – Cost monitoring – Earned Value Analysis – Project tracking – Change control- Software Configuration Management – Managing contracts – Contract Management.	8L	
6	Staffing in Software Projects: Managing people – Organizational behavior – Best methods of staff selection – Motivation – The Oldham-Hackman job characteristic model – Ethical and Programmed concerns – Working in teams – Decision making – Team structures – Virtual teams – Communications genres – Communication plans.	8L	
7	Case Study	2L	

- 1. Project Management: K. Nagarajan New Age International Publishers
- 2. Applied Softer Project Management: Andrew Stellman, Jenifer Greene O' Reilly Media
- 3. Software Project Management: Bob Hughes, Mike Cotterell and Rajib Mall:- Tata McGraw Hill, New Delhi.
- 4. Effective Software Project Management: Robert K. Wysocki Wiley Publication.
- 5. Software Project Management: Walker Royce Addison-Wesley.
- 6. Managing Global Software Projects: Gopalaswamy Ramesh McGraw Hill Education (India).

### MIS 304: DATA SCIENCE USING R

Name of the Course: DATA SCIENCE USING R							
Course Code: 1	MIS 304	Semester II	r III				
Duration: 6 mc	onths	Maximum	Marks: 100				
Teaching Scheme		Examination Scheme					
Гheory: 5 days ./week			Mid Semester exam: 15				
Tutorial: NIL			Assignment and Quiz: 10 marks				
			Attendance: 5 marks				
Practical: hrs./	week		End Semester Exam: 70 Marks				
Credit Points: 4							
Unit Content				Hrs/Unit	Marks/Unit		
		ata mining C	Conditional and loops, R GUI in R, Data structures in R,	4L			
	Data Wrangling: Reading CSV, JSON, X HTML files using R,ETL operations in R in R, Cleaning data, Data management us		ons in R, Sorting/ merging data	4L			
3 Modeling in R:Linear regression model in R, Multiple linear regressions model, Representation of regression results, Non Linear Regression		,	10L				
	Mining Algorithms using R: Association analysis, Market-based analysis/rules, Apriori algorithm, Segmentation analysis- types of segmentation, k-means clustering, Bayesian clustering, Principal Component Analysis (PCA)		12L				
Time Series Forecasting in R and model deployment: Basics time series, Components of time series, Time series forecasting Deploying predictive models		* *	8L				
6	Case Study			2L			

- 1. Beginner's Guide for Data Analysis using R Programming, Jeeva Jose, Khanna Publishing House
- 2. R for Data Science Hadley Wickham and Garrett Grolemund
- 3. R in Action Robert Kabacoff
- 4. R for Everyone: Advanced Analytics and Graphics Jared P. Lander
- 5. The R Book Michael J. Crawley
- 6. R and Data Mining: Examples and Case Studies Yanchang Zhao
- 7. Data Analytics using R Seema Acharya, Mc. Graw Hill Publication

### **FOURTH SEMESTER**

## BDA 401 DATA VISUALIZATION WITH TABLEAU AND POWER BI

Name of	the Course:	DATA VISUALIZA	TION WITH TABLEAU A	ND POWER BI			
Course C	Code: BDA 401	Semester IV					
Duration	: 6 months	Maximum Marks: 10	00				
Teaching	g Scheme	Exam	Examination Scheme				
Theory: :	5 days./week	Mid S	emester exam: 15				
Tutorial:	NIL	Assign	Assignment and Quiz: 10 marks				
		Attend	ance: 5 marks				
Practical	: hrs./week	End Se	emester Exam : 70 Marks				
Credit Po	oints: 4	ı					
Unit	Content			Hrs/Unit	Marks/Unit		
1	Description, and	n.,The Effects of Outlier	n Data Set, Description, rs Video Introduction to	8L			
2	The Effects of Outliers Video Introduction to Linear Regression Data Sets Needed in , Examples of Tableau Dashboards and StoriesDesigning and Delivering an Effective Business Presentation			8L			
3		CHITECTURE, POWER Des,data SOURCES, Da		6L			
4		wer Bi And Visualizatio Using Power Bi Tool, E Power Bi		8L			
5	Dax Basics, Adm	inistration Role.		6L			
6	CASE STUDY			4L			

#### Course Outcomes:

After successful completion of this course, students shall be able to

CO1: Understand the concept TABLEAU Analyzing

CO2: Evaluate the impact of a Linear Regression Techniques On Data. CO3: How to Design Using Power Bi.

- 1. Introducing Microsoft Power Bi By Alberto Ferrari And Marco Russo-Wiley Publications
- 2. Analyzing Data With Power Bi By Anthony S. Williams
- 3. Visual Analytics With Tableau-Alexander Loth
- 4. Advanced Analytics With R And Tableau By Jenstirrup, Ruben Olive Ramos-Packt Publishers

## **BDA 402: MARKETING ANALYTICS**

Name of the	Course:	Marketing	Analytics		
Course Code	e: BDA 402	Semester IV	V		
Duration: 6 1	months	Maximum 1	Marks: 100		
Teaching Scheme		Examination Scheme			
Theory: 5 days./week		Mid Semester exam: 15			
Tutorial: NII	L		Assignment and Quiz: 10 marks		
			Attendance: 5 marks		
Practical: hrs	s./week		End Semester Exam : 70 Marks		
Credit Points	s: 4				
Unit Content				Hrs/Unit	Marks/Unit
1	Introduction to marketing research, Research des research, quantitate research, Concept developme development, Exploring Data, Descriptive Statistics		ept development, scale	8L	
2	Inbound marketing analytics, Click analytics, Google analytics, Social Media Analytics, Web analytics, Or traffic analytics, conversion analytics, Online and Offline ana		alytics, Web analytics, Online	8L	
3	Product analytics- featubenefits, Price analytics Multiple Discriminate a	s, Promotion	es, analytics, Channel analytics,	6L	
4	Customer Analytics, Analyzing customer satisfaction, Prospecting and Targeting the Right Customers, Covariance and Correlation analysis, Developing Customers, Retaining Customers, Customer lifetime value case, Factor analysis,		8L		
5	1	ion Analysis	alysis, s, Linear Regression, Model ing analytics, Cross tabulation	12L	

#### COURSE OUTCOMES

After successful completion of this course, students shall be able to;

CO1: Use analytic approaches to transform marketing and sales data into actionable and appropriate marketing decisions CO2: Justify the use of a particular marketing analytics approach and communicate its managerial implications to a non-technical audience

- CO3: Recommend marketing strategies that align forces in the external environment with the core competencies of the firm.
- CO4: Recognize trends based on current research related to consumer analytics behavior
- CO5: Analyze the challenges that might influence the formulation of effective marketing analytics from a consumer behavior perspective.

#### BDA 403: DATA MINING AND ADVANCED DATA HANDLING

Name of the Course: DATA MIN			NG & ADVANCED DATA HANDLING					
Course Co	de: BDA 403	Semester IV						
Duration: 6	months	Maximum Ma	nrks: 100					
Teaching S	Scheme		Examination Scheme					
Theory: 5 o	days /week		Mid Semester exam: 15	Mid Semester exam: 15				
			Assignment and Quiz: 10 marks					
			Attendance: 5 marks					
Practical: h	rs./week		End Semester Exam: 70 Marks					
Credit Poir	nts: 4							
Unit	Content			Hrs/Unit	Marks/Unit			
1	Definition, KDD, Cl Data Cleaning, Miss	nallenges, Dat ing data, Dim ition and Bina	oduction, What is Data Mining, ia Mining Tasks, Data Preprocessing, iensionality Reduction, Feature Subset iryzation, Data Transformation; inilarity-Basics.	10L				
Association Rules: Problem Definition, Frequent Item Set Generation, TheAPRIORI Principle, Support and Confidence Measures, Association Rule Generation; APRIOIRI Algorithm, The Partition Algorithms, FP- Growth Algorithms, Compact Representation of Frequent Item Set- Maximal Frequent Item Set, Closed Frequent Item Set.			and Confidence Measures, Association orithm, The Partition Algorithms, FP-presentation of Frequent Item Set-	10L				
3	classification proble techniques, Decision Expressing attribute Split, Algorithm for	m , Evaluation Trees-Decisi test condition Decision tree	n, General Approaches to solving a n of Classifiers, Classification fon tree Construction, Methods for as, Measures for Selecting the Best Induction; Naive-Bayes Classifier, arest neighbor classification- Algorithm	8L+2P				
4	web structure mining	g, we usage m	on, web mining, web content mining, nining, Text mining – unstructured text, ierarchy of categories, text clustering.	12L				

#### **COURSE OUTCOMES**

After successful completion of this course, students shall be able

CO1: Ability to perform the preprocessing of data and apply mining techniques on it.

CO2: Ability to identify the association rules, classification and clusters in large data sets.

CO3: Ability to solve real world problems in business and scientific information using data mining CO4: Ability to classify web pages, extracting knowledge from the web

#### **SUGGESTED READING:**

- 1. Data Mining-Concepts and Techniques-Jiawei Han, Micheline Kamber, Morgan Kaufmann Publishers, Elsevier, 2 Edition, 2006.2.Introduction to Data Mining, Pang-Ning Tan, Vipin Kumar, Michael Steinbanch, Pearson Education.
- 3. Data mining Techniques and Applications, Hongbo Du Cengage India Publishing
- 4. Data MiningTechniques, Arun K Pujari, 3rdEdition, Universities Press.
- 5 .Data Mining Principles & Applications –T.V Sveresh Kumar, B.Esware Reddy, Jagadish S Kalimani, Elsevier.
- 6. Data Mining, Vikaram Pudi, P Radha Krishna, Oxford University Press

### BDA 404 MACHINE LEARNING AND UNSTRUCTURED DATA ANALYTICS

Name of	the Course:	Machine Lear	ning & Unstructured Data Analyt	ics			
Course C	ode: BDA 404	Semester IV					
Duration	6 months	Maximum Mar	Marks: 100				
Teaching Scheme		E	xamination Scheme				
Theory: 5	Cheory: 5 days./week		fid Semester exam: 15				
Tutorial:	NIL	A	ssignment and Quiz: 10 marks				
		A	ttendance: 5 marks				
Practical:	hrs./week	E	nd Semester Exam: 70 Marks				
Credit Po	oints: 4	1					
<b>T.T. 6.</b>	- Ia						
Unit	Content			Hrs/Unit	Marks/Unit		
1	What is unstruct structured, semi str	4L					
2	Unstructured analytics tools, data tools, tools equipped with machine learning, NLP, capabilities, importance of data analytics tools.			4L			
3	Structuring Unstructured Data, Ai-Power Tools, Using Saas Tools To Analyse, Using AMAZON AWS, MICROSOFT AZURE, IBM Cloud			4L			
4	Basic Text Processing, Frequency, Analysis Basic Text Analysis Demo, Co- Occurrence Analysis Finding Possibly, Related Entities, PCA, Isomap			6L			
5	Introduction To C Clustering And Cl Of K With CH Inc Introduction To Pr Trees/Forests	4L					
6	Introduction To N	eural Nets And De	eep Learning–Recitation: SVM,	6L			

#### **Course outcomes:**

After successful completion of this course, students shall be able to;

CO1: Understand About Common Methods For Exploratory And Predictive Analysis Of Unstructured Data

ROC Curve, Image Analysis With Convolutional, Neural Nets Time

CO2: Able To Execute Write Python Code For Exploratory And Predictive Data Analysis That Handles Large Datasets

CO3: Understand Working With Cloud Computing Using Amazon Web Services (Aws)

Series Analysis With Recurrent Neural Nets

CO4: Apply Unstructured Data Analysis Techniques To Solve Problems

#### **SUGGESTED READINGS:**

- 1. Data Analytics By Darryl barton
- 2. Too Big To Ignore By Phil Simon, Wiley Publications
- 3. Data Analytics For Business By Edward Brown
- 4. Machine Learning Quick Reference By Rahul Kumar By Packt Publishers
- 5. Machine Learning Algorithms By Giuseppe Bonaccorso.
- 6. Machine Learning by Jeeva Jose By Khanna Publishing House.

## **ELECTIVE PAPERS**

# **FINANCE**

### FM 401: INVESTMENT ANALYSIS & PORTFOLIO MANAGEMENT

Name of the Course: INVESTMENT ANAI			IENT ANALYSIS & PORTFOLIO	MANAGE	MENT	
Course Code: FM 401 Semeste			IV			
Duration	Duration: 6 months Maximu		Marks: 100			
Teaching Scheme			<b>Examination Scheme</b>			
Theory: 5 days./week			Mid Semester exam: 15			
Tutorial: NIL			Assignment and Quiz: 10 marks			
Tutoriur. TVIE		Attendance: 5 marks				
Practical	: hrs./week		End Semester Exam: 70 Marks			
Credit Po	oints: 4					
Unit	Content			Hrs/Unit	Marks/Unit	
1	Overview of Ind	lian Capital	nagement: Financial Instruments, Market, Brief ideas on portfolio tion, hedging, arbitraging	4L		
2	Security Analysis: Concept of Security- Fundamental and Technical Analysis difference between Fundamental and Technical Analysis – (support and resistance- Charts and graph – line chart – Candlestick Chart – various patterns) – Dow Theory – Elliot Wave Theory			6L		
3	Security Valuation: Valuation of Bond  - YTM and its calculation- Duration of Bond - Concept of Immunization- Valuation of Shares		6L			
4	Risk and Return: Definition of Risk and Return- Different types of Risk measurement of Risk and Return of single security – Beta of Security					
5	Portfolio Theory: Concept of Portfolio, measurement of Portfolio risk and return, Markowitz Portfolio theory – Efficient Frontier and selection of Optimum Portfolio.			4L		
6	CAPM Model: Id and interpretation-	_	pretation - SML and CML. Analysis	4L		
7	Other Portfolio T pricing theory and	-	rp Single Index Model - Arbitrage r Theory.	6L		

8	Market efficiency and Portfolio Evaluation: Concept of market efficiency - Different types of market efficiency and their interpretation - Techniques of analyzing portfolio performance - analysis and modification of portfolio.		
9	Case Studies	4L	

#### Suggested readings:

- 1. Fischer and Jordon, Security Analysis and Portfolio Management, Prentice Hall.
- 2. Kevis, S, Security Analysis and Portfolio Management, Prentice Hall
- 3. Copeland, Weston & Shastri, Multinational financial analysis, Pearson
- 4. Nagarajan & Jayabal, Security analysis and portfolio management, New Age International 5
- 5. Avadhani, V.A., Security Analysis and Portfolio Management, Himalaya Publishing
- 6. . Bhalla. B.K. Investment Management, S Chand Publication.

#### FM 402: MANAGING BANKS & FINANCIAL INSTITUTIONS

Name of th	of the Course: MANAGING BANKS & FINANCIAL INSTITUTIONS					
Course Co	de: FM 402		Semester IV			
Duration: 6	months		Maximum Maximu	imum Marks: 100		
Teaching	Scheme			<b>Examination Scheme</b>		
Theory: 5	days./week			Mid Semester exam: 15		
Tutorial: N	IL			Assignment and Quiz: 10 marks		
				Attendance: 5 marks		
Practical: l	rs./week			End Semester Exam: 70 Marks		
Credit Poir	nts:	4				
Unit	Content				Hrs/Unit	Marks/Unit
1	Organiza	tion and	Functions o	f banking industry: types of banks,	6L	
	compara	tives feat	ures of differ	ent banks, banking business models,		
	factors, 1	necessitat	ing banker's	role in the economy, intermediation		
	functions	s of bank,	x, credit creation			
2	Competi	tion in ba	nking indust	ry: competition in commercial &	2L	
	investme	nt banks,	changes in b	pank's operation, managing		
	competit	ion amon	g banks.			
3	Failures	of banks	& Need for 1	regulation: risk associated in banking	6L	
				ures, warning signals in predicting		
	bank fa	ilures. B	ank suppor	t mechanism, problems to bank,		
	regulator	y suppor	t, bank's su	pervision, financial crisis to bank.		
	Regulato	Regulatory cycle.				
4	Basel committee norms: capital adequacy, 3 pillars, Basel-I & II.			4L		
	measurement of market & operational					
5	Interest	rate & R	isk Manager	ment: asset & liability management,	4L	
	GAP ana	ılysis, dur	ration analysi	is.		

6	Business loan & Micro credit: loan proposals, classification of loans based on pricing, methods of sanctioning loans, loan portfolio of banks, fundamentals of micro finance, micro finance credit model, institutions.		
7	Credit rating & risk management: structure of credit risk management, evaluation of credit risk, internal rating system, credit risk distribution.	4L	
8	Liquidity functions of banks: liquidity management & conflict, action plan, time bucket.	2L	
9	Bank Merger: Merger objectives, Stewart's motivating forces, evaluating mergers.	4L	
10	Rating of banks: business risk of banks, ratio used in bank rating, application of bank grading.	2L	
11	Case Studies	2L	

#### **Suggested Readings:**

- 1. M.Y. Khan, Indian Financial System, Tata Mc Graw Hill, Delhi
- 2. Jeff Madura, Financial Markets And Institutions, CenGage Learning, Delhi
- 3. H.R. Machiraju, Indian Financial System, Vikas Publishing House, Delhi
- 4. Pathak, The Indian Financial System, Pearson Education India
- 5. Suresh Padmalata & Paul Justin, Management of Banking and Financial Services; Pearson
- 6. . Joel Bessis, Risk Management in Banking; Wiley

### FM 403: MERGERS, ACQUISITIONS & CORPORATE RESTRUCRING

Name of the Course: MERGERS, A		MERGERS	, ACQUISITIONS & CORPORATE RES	TRUCRING		
Course Code:	FM 403	Semester IV				
Duration: 6 mg	onths	Maximum M	farks: 100			
Teaching Sch	eme		<b>Examination Scheme</b>	Examination Scheme		
Theory: 5 days	./week		Mid Semester exam: 15			
Tutorial: NIL			Assignment and Quiz: 10 marks			
			Attendance: 5 marks			
Practical: hrs./	Practical: hrs./week		End Semester Exam: 70 Marks			
Credit Points:	4					
Unit	Content			Hrs/Unit	Marks/Unit	
1	Introduction to mergers and acquisitions: Meaning, types, advantages & disadvantages		2L			
2 Strategic evaluation of M & A opportunities: Selection criteria, key steps in the strategic planning of a merger, feasibility analysis, features of acquisition of sick companie		4L				

3	Strategizing and structuring M & A activities: Merger process from planning to implementation, five stage model, and methods of financial mergers	4L	
4	Synergy and value creation in mergers: Types of synergy, role of industry life cycle, value creation in synergy, factors contributing to M & A.	4L	
5	Corporate Restructuring: Meaning & need, different methods of corporate restructuring.	4L	
6	Demergers: Meaning & characteristics, structure of demerger, tax implications	4L	
7	LBOs, MBOs, MLPs, ESOPs: Concepts, mode of purchase in LBO, key motives behind an MBO, classify types of MLP, & ESOP.	4L	
8	Joint ventures: Meaning & characteristics, role of joint venture in business strategy, Tax aspect of joint venture, reasons for failure in joint venture.	4L	
9	Valuation of assets: basis of valuation, different methods of valuation, valuation of synergy.	6L	
10	Legal & regulatory framework of M& A: Provisions of the Companies Act 1956 relating to M & A., buy back of shares, provisions for SEBI act 1992, income tax act for M & A.	6L	
11	Case Studies	2L	

#### **Suggested Readings:**

- 1. Kamal Ghosh Roy (2010).Merger & Acquisitions. PHI
- 2. Rabi Narayan Kar & Minakshi (2017). Mergers Acquisitions & CorporateRestructuring. Taxmann
- 3. Kapil & Kapil (Mergers and Acquisitions: Valuation Leveraged Buyouts and Financing. Willey
- 4. Donald M. De Pamphilis ,Mergers, Acquisitions, and Other Restructuring Activities,Academic Press
- 5. Robert F. Bruner, Applied Mergers and Acquisitions, University Edition, Wiley
- 6. Jean Tirole, The Theory of Corporate Finance, , Princeton University Press

#### FM 404: FINANCIAL DERIVATIVES

Name of the Course:	FINANCIAI	DERIVATIVES
Course Code: FM 404	Semester IV	
Duration: 6 months	Maximum Ma	arks: 100
Teaching Scheme		Examination Scheme
Theory: 5 days./week		Mid Semester exam: 15
Tutorial: NIL		Assignment and Quiz: 10 marks
		Attendance: 5 marks
Practical: hrs./week		End Semester Exam: 70 Marks
Credit Points:	4	

Unit	Content	Hrs/Unit	Marks/Unit
1	Introduction to Forward Contract: Forward contracts, Limitations of forward markets, pay-offs, Forward Rate Agreement (FRA) and Forward Foreign Exchange Contract – Cost of Carry Model	6L	
2	Introduction to Futures: Introduction to futures, Stock Futures, Index futures, Commodity Futures and Currency Futures - Distinction between futures and forwards contracts	4L	
3	Concept of Margin – Types of Margin in Futures – ITM, ATM, OTM - Concept of Lot size - Open Interest- Hedging through Forward and Futures – Contango and Backwardation – Basis Risk	4L	
4	Credit Derivatives: Types of Credit Derivatives- Types of Swap-Credit Default Swaps - Collateralized Debt Obligations(CDO) - The Indian Scenario, credit risk mitigation, Weather and Energy Derivatives	6L	
5	Option: Call and Put Option- American and European Option- Put Call Parity	4L	
6	Different Option Strategies: Bully, Bearish, Neutral Non Directional Strategy, Option Strategy – Profit & Loss Chart	4L	
7	Option Valuation: Pricing and Valuation of Option Contract- Binomial Option Pricing Model - Black Scholes Model - their interpretations	8L	
8	Option Greeks: Theta, Vega, Gamma, Delta	2L	
9	Case Studies	2L	

- 1. Options, Futures and other Derivatives, John C. Hull, Pearson Education
- 2. Derivatives, Dubofsky and Miller, Oxford University Press
- 3. Financial Derivatives, Gupta, S.L., Prentice Hall.
- 4. Financial Derivatives and Risk Management, O.P. Agarwal, Himalaya Publishing
- 5. Derivatives & Risk Management, Rajiv Srivastava, Oxford Publication House 6. Financial Derivatives: Risk Management, Bhalla. V. K., S. Chand & Company.

### **HUMAN RESOURCE MANAGEMENT**

### HR401: MANPOWER PLANNING, RECRUITMENT& SELECTION

Name of the	Course:	MANPOWE	R PLANNING, RECRUITMENT& SELEC	CTION			
Course Code: HR 401 Semes		Semester IV	emester IV				
		Maximum Maximu	arks: 100				
Teaching Scheme			<b>Examination Scheme</b>				
Theory: 5 days./week Mid S		Mid Semester exam: 15					
Tutorial: NIL			Assignment and Quiz: 10 marks				
		Attendance: 5 marks					
Practical: hrs./week End Semester Exam : 70 Marks							
Unit	Content			Hrs/Unit	Marks/Unit		
1	planning, Mac Scenario of m planning, Proc	Manpower Planning: Concept, Benefits, Types of manpower planning, Macro Level Scenario of manpower planning, Factors affecting manpower planning, Process of manpower planning, barriers, requisites for successful manpower planning.					
2	Methods and Techniques: Demand Forecasting: Managerial judgement, Ratio- Trend Analysis, Work Study Techniques Delphi Technique, Regression Analysis, New Venture analysis, Markov Analysis, Supply Forecasting: Analysis of existing Manpower, Analysis of internal supply; inflows and outflows, turnover rate, productivity level movement among jobs, Analysis of external supply, Balancing Supply & Demand, Issues of Shortage and Surplus.						
3	Process, Job D	Description, J	luation: Job Analysis - Concepts, ob Specification, Uses, Limitations; , Methods, Uses, Limitations	4L			
4		man Resource Information System (HRIS): Understanding IS, its objectives, HRIS Framework, Benefits, Trends.					
5	HR Audit, HR	Accounting		2L			
6		Manpower Plan Implementation Strategies: Recruitment, Redeployment, Downsizing Plan, Retention Plan, Training Plan, Career Plan, Succession Plan, Compensation Plan					
7	Process, Tools	,	nning: Concepts, objectives, SMP Card, HR Dash Boards, HR score	4L			

8	Recruitment and Selection: Concepts, Factors influencing recruitment, reservation rules, resettlement and rehabilitation rules, policy and programmes in Public Sector, Private Sector, MNCs, Government Establishments, Educational Institutions, Health Care & Hospitals, Process of Recruitment, Sources of Recruitment, alternatives to recruitment, The New Techniques: Web, Social Media, Mobile, Recruitment Issues in Core sector, Service sector and IT sector. Selection: Meaning, use of selection for competitive advantage, Selection Process— Tests, types of tests, Group Discussions, Interviews, types of interviews, Common Interview Problems, Assessment Centres, Gamification, Physical fitness tests, Hiring Decisions, Barriers to effective selection, Evaluation of selection process, making selection effective, Outsourcinggains, problems, issues		
9	Case Studies	4L	

#### **Suggested Readings:**

- 1. Turner, Paul: HR Forecasting and Planning, Jaico Publishing House
- 2. Armstrong, Michael: A Handbook of Personnel Management Practice, Kogan Page ,London
- 3. Dessler, Gary: Human Resource Management, Pearson Education
- 4. Aswathappa, K: Human Resource Management, Tata McGraw Hill
- 5. Pattanayek, B: Human Resource Management, PHI
- 6. Saiyadain, M.S: Human Resource Management : Tata McGraw Hill

#### HR 402: EMPLOYEE RELATIONS & LABOUR LAWS

Name of the Course: EMPLOYEE		E RELATIONS & LABOUR LAWS			
Course Code: HR 402 Semester IV					
Duration: 6 mc	onths	Maximum Ma	arks: 100		
Teaching Scho	eme		<b>Examination Scheme</b>		
Theory: 5 days	./week		Mid Semester exam: 15		
Tutorial: NIL			Assignment and Quiz: 10 marks		
			Attendance: 5 marks		
Practical: hrs./v	week		End Semester Exam: 70 Marks		
Unit	Content			Hrs/Unit	Marks/Unit
1			gement (ERM): Overview, Tools,	4L	
	Core Issues ,EI	RM in multi	union situations in Core Sector,		
	ERM in Servic	e & IT Secto	or, Strategic ERM Strategy and		
	Employment Policies, Future Challenges, Performance				
Management					
	Services, Involvement and		Commitment as Competitive		
	Advantages, Tl	he Psycholog	gical Contract: Interest and		
		•	cture, Employee Surveys		

2	Industrial Relations: Overview, importance, Approaches to IR, Parties to IR, System Model of IR, Industrial Employees of India, Problems of Industrial Workers (absenteeism, commitment, Work Ethics), Contemporary Issues in Employee Relations	4L	
3	Employee Discipline: Types, Misconduct, Disciplinary Action, Disciplinary Enquiry and Procedures, Grievance Handling and Redressal.	2L	
4	Collective Bargaining: Theories, Prerequisites, Process, Negotiating Skills and Strategies, Agreement – content, Validity, Implementation, Productivity Bargaining, Growth of Collective Bargaining in India	2L	
5	Trade Unionism in India: Introduction, Trade Unions, Reasons for Joining Trade Unions, Types and Functions of Trade Unions, Type of Trade Union Agitations, Trade Unions in India and its Problems, Employers' Organizations in India, Managerial Associations.	2L	
6	Employee Welfare and Employee Participation: Concept, Purpose, Statutory and Non-Statutory Provisions, ILO Conventions and its application in India. Meaning of Employee Participation and Empowerment, Advantages, Employee Participation in India- WPM, EPM, Quality Circles- Concept and Practices in India	4L	
7	Legal Framework: Evolution of Labour Laws in India4L	2L	
8	Laws relating to Establishment: Factories Act, 1948; Plantations Labour Act, 1951; Mines Act, 1952; Shops & Establishment Act.	4L	
9	Laws relating to Wages: Payment of Wages Act, 1936; Minimum Wages Act, 1948; Payment of Bonus Act, 1965; Equal Remuneration Act, 1976.	2L	
10	Laws relating to Industrial Relations: Trade Unions Act, 1926; Industrial Employment (Standing Orders) Act, 1946; Industrial Disputes Act, 1947;	6L	

11	Laws relating to Social Security – Employees' Compensation Act, 1923; Employees' State Insurance Act, 1948; Employees' Provident Funds & Misc. Provisions Act, 1952; Maternity Benefit Act, 1961; Contract Labour (Regulations and Abolitions) Act, 1970; Payment of Gratuity Act, 1972, The. Protection of. Human Rights Act, 1993, The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013.	4L	
12	Case Studies	4L	

- 1. Agarwal, S.L.: Labour Relations in India, McMillan
- 2. Pathak, A: Legal Aspects of Business, Tata McGraw Hill
- 3. Samant, S.R. & Dongle, B.N. (eds). CLR's Yearly Labour Digest, Dwivedi
- 4. Srivastava, S.C.: Labour Law in Factories, Mines, Plantations etc., Prentice Hall
- 5. Labour Laws: Taxman Publications
- 6. Labour Laws in India: P.L. Malik

# HR 403: COMPENSATION AND BENEFITS MANAGEMENT

			TION AND BENEFITS MANAGE	EMENT		
		Semester IV	1 100			
Duration: 6 1		Maximum Mar				
Teaching So	eneme		Examination Scheme			
Theory: 5 Days /week			Mid Semester exam: 15			
Tutorial: NIL			Assignment and Quiz: 10 marks			
			Attendance: 5 marks			
Practical: hrs	s./week		End Semester Exam: 70 Marks			
Unit	Content			Hrs/Unit	Marks/Unit	
1	Rules, Emplo and Depend Provisions an	yment of Wom	ment of Land Oustees - ler the	6L		
2		ment Practice	s: Outsourcing, Contingent	4L		
3	Labour Mark	et: Concept, Br	oad Types of Labour Market	2L		
4	Employment Provisions an	of Contra d Practices und	act Labourers: er the relevant Act	4L		
5	Fair Wage, L. Real Wage, C Allowances, Compensator Fixation, Pa Managerial/	Components of House Ry Allowance, by for differ Executive	ensation: Minimum Wage, age Policy, Wage/Salary, Wages: Basic, Dearness Lent Allowances, City Other Allowances, Wage ent types of employees, CompensationWage anagement, Deductions etc	6L		
7		owance: Metho ice Index, Neut	ds of DA payment, ralization	2L		
8	Incentive Payments, Pro		Productivity Bargaining, ductivity Linked Bonus, Group, Case Studies on ward strategy	4L		
9	Fringe Benef Gratuity, I fundamentals overtime, etc	its , Retirement Pension, Med		6L		
10	Employee	Welfare a	and Working Conditions:	2L		

	Statutory and voluntary measures		
11	Case Studies	4L	

#### **Suggested Readings:**

- 1. Belcher, D.W.: Wage and Salary Administration, Practice Hall
- 2. Mondy, R.W. & Noe, R.M.: Human Resource Management, Pearson
- 3. Raynolds, G.L.: Labour Economics & Labour Relations, Practice Hall
- 4. Sarma: Understanding Wages in India,
- 5. Govt. of India: Report on National Commission on Labour (1st 1969, 2nd 2002)
- 6. ILO: Payments by Results.

# **HR 405: STRATEGIC HRM**

Name of the Course:		STRATEGIC HRM				
Course Code:	HR 405	Semester IV				
Duration: 6 mg	onths	Maximum Mar	ks: 100			
Teaching Sch	eme		<b>Examination Scheme</b>	<b>Examination Scheme</b>		
Theory: 5 Day	s /week		Mid Semester exam: 15			
Tutorial: NIL			Assignment and Quiz: 10 marks			
			Attendance: 5 marks			
Practical: hrs./	week		End Semester Exam: 70 Marks			
Credit Points:	4					
Unit	Content			Hrs/Unit	Marks/Unit	
1	Introduction: Concept of Strategy, types of strategies, Competitive advantage, value chain, Core competencies and distinctive capabilities, the resource-based view, Meaning of Strategic Management, Strategic Management Process					
2	Strategic HRM: Meaning, elements, components, objectives. Conventional HRMversus Strategic HRM, Integrating HR with Strategic Management: drawing inputsfrom environment, identifying unique strengths, Formulating plans, identifying HRstrategies, implementing strategy and evaluation. Different classifications of HR Strategies. Strategic FIT: A Conceptual Framework. The Best Fit approach and its drawbacks. The "HR" Bundles approach, theoretical perspectives of SHRM, Benefits of SHRM. Challenges of SHRM.					
3	Human Capital Management (HCM) Strategy: Concepts of Human capital, Objectives of HCM, Role of HCM Strategy, The link between HCM and Business Strategy, Developing a HCM Strategy.					
4		•	definition, objectives, SHRP HR score card.	2L		

5	High Performance Work Systems: Meaning, definition of High Performance Work Systems, Characteristics of HPWS. Components of HPWS. Developing a high Performance Strategy, Developing high performance work systems	4L	
6	Resourcing Strategy: Understanding Resourcing, The strategic HRM approach to resourcing, Integrating business and resourcing strategies, Bundling resourcing strategies and activities, The components of employee resourcing strategy:  Workforce planning, Employee, Value proposition, Resourcing plans, Retention Strategy, Flexibility strategy.	4L	
7	Talent Management Strategy: Understanding Talent Management, Strategic talent	2L	
	management, the process of Talent Management, Developing a talent management strategy, Components of a talent management strategy.		
8	Learning and Development Strategy: Understanding learning and development, Strategic HRD, Strategies for creating learning culture, Organizational learning strategies, Single and Double Loop learning, Learning organization strategy, Individual Learning Strategies	4L	
9	Reward Strategy: Understanding Reward management, Reward strategy: definition, characteristics, basis, content of reward strategy. Broad- brush reward strategy, Specific reward initiatives. Guiding principles, developing reward strategy, effective reward strategies, criteria for effectiveness, reward strategy and line management capability, the problem with the concept of reward strategy.	4L	
10	HR Evaluation: Balance Scorecard, HR score card, Malcom Baldrige business excellence model.	2L	
11	Case Studies	2L	

- 1. Armstrong, Michael: Armstrong's Handbook of Strategic Human Resource Management, Kogan Page
- 2. L.Holbeche: Aligning Human Resources and Business Strategy, 2002, Butterworth Heinemann
- 3. M.Porter: Competitive Advantage, 1985, Free Press
- 4. G.Hamel & C.K.Prahalad: Competing for the Future, 1994, HBR
- 5. Dessler, Gary: Human Resource Management, Pearson Education 6. Agarwala Tanuja: Strategic Human Resource Management, OUP 7. Aswathappa, K: Human Resource Management, Tata McGraw Hill

# **MANAGEMENT INFORMATION SYSTEM**

# **MIS 401: DATA WAREHOUSING**

Name of the Course:		DATA WARE	CHOUSING				
Course Code: 1	MIS 401	Semester IV					
Duration: 6 mc	onths	Maximum Mar	ks: 100				
Teaching Sch	eme		<b>Examination Scheme</b>				
Th 5 D	- /1-		M: 1 C 15	NC10			
Theory: 5 Days	s /week		Mid Semester exam: 15	1			
Tutorial: NIL			Assignment and Quiz: 10 i	marks			
			Attendance: 5 marks				
Practical: hrs./	week		End Semester Exam: 70 N	1arks			
Credit Points:	4						
Unit	Content			Hrs/Unit	Marks/Unit		
1	Warehouse, O OLTP Syst	LTP Systems tems and s of Data War	Introduction to Data , Differences between Data Warehouse, rehouse, Functionality dvantages of Data	2L			
2 Data Warehouse Applications of Data Applications: Top- Down Up, Development Metho Data warehouse developmen Types			and Bottom- odology, Tools for	2L			
Data Warehouse Architectures: Data Warehouse Architect Architectures, Tool Selection, Warehouse Architecture			nitecture, Technical	4L			
4 Dimensional Modelling: Dimensional Modelling, E-l Dimensional Modelling, Da Schemas, Snowflake Schem Schema			R Modelling VS ata Warehouse	6L			
5		ETL Ove and Steps, Da	formation and rview, ETL ata Transformation,	6L			

6	Access Information and Delivery in Data Warehouse: Information from Data warehouse versus Operational systems, Users of information - their needs and how to provide information, Information delivery - queries, reports, analysis, and applications, Information delivery tools - Desktop environment, Methodology and criteria for tool selection, Information delivery framework, Business Activity Monitoring, Dashboards and Scorecards	4L	
7	Data Warehouse & OLAP: Introduction to OLAP, Multidimensional Data, OLAP Architectures, Data Warehouse and OLAP, Hypercube & Multi cubes	4L	
8	Metadata Management in Data Warehouse: Introduction to Metadata, Categorizing Metadata, Metadata management in practice, Tools for Metadata management	4L	
9	Web in Data Warehouse Architectures: Webenabled Data Warehouse, adapting data warehouse for the web, Web-based information delivery, Browser technology for data warehouse and Security issues, OLAP and Web Enterprise OLAP, Web- OLAP approaches, OLAP Engine design	6L	
10	Case Studies	2L	

#### **Suggested Readings:**

- 1. Alex Berson and Stephen Smith Data Warehousing, Data Mining, & OLAP-Mc Graw Hill Education
- 2. Reema Thareja Data Warehousing Oxford University Press
- 3. Singh M Data Warehousing & Data Mining PB–Technical Publications
- 4. Varsha Bhosale Data Warehousing & Data Mining Technical Publications
- 5. Paulraj Ponniah- Data Warehousing Fundamentals Wiley India
- 6. Ralph Kimball The Data Warehouse Toolkit Wiley India
- 7. I. Singh Data Mining and Warehousing, Khanna Publishing House.

### **MIS 402: MANAGING DIGITAL PLATFORMS**

Name of the Course:	MANAGING	MANAGING DIGITAL PLATFORMS		
Course Code: MIS 402	Semester IV	Semester IV		
Duration: 6 months Maximum Mar		rks: 100		
Teaching Scheme		Examination Scheme		
Theory: 5 Days /week		Mid Semester exam: 15		
Tutorial: NIL		Assignment and Quiz: 10 marks		

	A	ttendance: 5 marks		
Practical: hrs./	week E	End Semester Exam: 70 Marks		
Credit Points: 4				
Unit Content			Hrs/Unit	Marks/Unit
1		ness Models, ong Tail	10L	
2	Product platforms: Internal an	d Supply Chain platforms	4L	
3	Collaborative Computing System, technologies	4L		
4	Ecological Approaches to Strategy & Digital Business digital platform Ecosystem- Two-sided m Internet of Things (IoT): Impl	*	8L	
5	Network Effect: Direct and modularity, Managing the deg	d Indirect, the limitations of tree of openness	6L	
6	The Future of Digital Platforn for Future	ns: ReVisioning Game Changers	4L	
7	Case Studies		4L	

- 1. Michael A. Cusumano, Annabelle Gawer, David B. Yoffie, The Business of Platforms: Strategy in the Age of Digital Competition, Innovation, and Power, Harper Business
- 2. Swaminathan T. N., Karthik Kumar, Digital Marketing: From Fundamentals to Future, Andrew McAfee and Erik Brynjolfsson, Cengage Learning India
- 3. Dave Chaffey, Fiona Ellis-Chadwick, Digital Marketing, Pearson
- 4. Abhishek Das, Applications of Digital Marketing for Success in Business, BPB Publications
- 5. Chris Westfall, The New Elevator Pitch: The Definitive Guide to Persuasive Communication in the Digital Age, Marie Street Press
- 6. Feras Alhlou, Shiraz Asif, Eric Fettman Google Analytics Breakthrough: From Zero to Business Impact, Wiley

# **MIS 403: STRATEGIC MANAGEMENT FOR IT**

Name of the Course: STRATEGIC			MANAGEMENT FOR IT			
Course Code:	MIS 403	Semester IV				
Duration: 6 m	onths	Maximum Mar	xs: 100			
Teaching Sch	eme		<b>Examination Scheme</b>			
Theory: 5 Day	s /week		Mid Semester exam: 15			
Tutorial: NIL			Assignment and Quiz: 10 marks			
			Attendance: 5 marks			
Practical: hrs./	/week		End Semester Exam: 70 Marks			
Credit Points:	4					
Unit	Content			Hrs/Unit	Marks/Unit	
1			on Technology: Fundamentals of troduction to Computers & Bull	2L		
2	Database Mai	nagement Sys	Management System: Overview of stem, Concept of ement Systems (RDBMS)	2L		
3	Network and Security: Overview of Network, The Internet Revolution, Internet and Internet technologies, Security and Internet Firewalls					
4	Disadvantage	orld Wide V s, Internet Vs rvice Provider	4L			
5	Commerce - Payment Syst	: E-Commerc Advantages tem, Electronic Online Bankin	6L			
6	Introduction to Strategies: Conceptual Evolution of Strategy, Scope and Importance of Strategies, Purpose of Business, Difference between Goals and Objectives of Business, Strategic Intent through Vision and Mission Statements, Core Competencies of Business.			4L		
7	importance, Strategists at Limitations.	Strategic Management: Need, Scope, Key features and importance, Role of Strategists in Decision Making, Strategists at various management levels, Types of Strategies, Limitations.				
8	Formulation, for Strategy	Strategy Implo Failure and nd Strategy Ir	mplementation: Process in Strategy ementation and its Stages, Reasons Methods to overcome, Strategy mplementation, Strategic Business	6L		

9	Business Policy and Decision Making: Overview and importance of Business Policies Procedures, Process and Programmes, Types of Policies, Corporate Culture, Factors Considered Before Framing Business Policies, Steps Involved in Framing Business Policies, Policy Cycle and its Stages, Role of Policies in Strategic	6L	
10	Management Strategic Management for IT: Application of Strategy	2L	
	Management in IT, Advantages and Disadvantages of IT in Strategy Management		
11	Case Studies	2L	

#### **Suggested Readings:**

- 1. Olivier Furrer Corporate Level Strategy: Theory and Applications-Routledge
- 2. CA Nikhil Singhal, Deepali Singhal Information Technology and Strategic Management For CA-IPCE Mukhaksh Publications
- 3. Chandan Patni Information Technology & Strategic Management for CA IPCC Taxmann
- 4. Bhandari, Verma Strategic Management: A Conceptual Framework McGraw Hill Education
- 5. . Anthony Henry; Understanding Strategic Management Oxford University Press
- 6. Mellahi; Global Strategic Management– Oxford University Press.
- 7. Computers Today, A. Ravichandran, Khanna Publishing House.

## MIS 404: BUSINESS DECISION USING ADVANCE EXCEL

Name of the Course: BUSINESS I		ECISION USING ADVANCE EXCEI	 L			
Course Code: 1	MIS 404	Semester IV				
Duration: 6 mc	onths	Maximum Ma	rks: 100			
Teaching Scho	eme		Examination Scheme			
Theory: 5 Days	s /week		Mid Semester exam: 15			
Tutorial: NIL			Assignment and Quiz: 10 marks			
			Attendance: 5 marks			
Practical: hrs./week			End Semester Exam: 70 Marks	End Semester Exam: 70 Marks		
Credit Points:	4					
Unit	Content			Hrs/Unit	Marks/Unit	
Basics of Excel: Referencing functions, date and time.			ng, functions and formulas, Text	4L		
2	Functions: Math functions, Financial functions, Charts Dynamic named ranges, dynamic charting. Pivot table and pivot chart, Visual display of quantitative information best practice guidelines.			6L		
3 Statistical functions: Descriptive statistics, Basic formatting, Frequency function, histograms, Data scenario manager, Macros, Vlookup			action, histograms, Data tables,	6L		

4	Data Formatting: Auto filter, advanced filter, sorting, Error proofing, conditional formatting, data validation, audit Tool, data cleaning.		
5	Getting external Data: Text, web, database	4L	
6	Use of excel for statistical analysis: Anova, sampling, generating random numbers, Test of Independence-contingency table	4L	
7	Bivariate Analysis: Correlation, Methods of Regression (scatter plot, excel functions, data analysis tool), Multiple Linear Regression	4L	
8	Time series data Analysis Sensitivity analysis: Forecasting techniques and Simulation	4L	
9	Case Studies	2L	

- 1. Bill Jelen, Tracy Syrstad: Microsoft Excel 2019 VBA and Macros, Microsoft Press
- 2. David Whigham, Business Data Analysis Using Excel, Oxford
- 3. Mastering Excel, Khanna Publishing House.
- 4. Ritu Arora, Advance Excel 2016: Training guide, BPB Publications
- 5. John, Microsoft Excel 2016 Bible, Wiley
- 6. McFedris Excel 2016 Formulas and Functions 1/e -Pearson Education India
- 7. Shmuel Oluwa, Hands-On Financial Modeling with Microsoft Excel 2019: Build practical models for forecasting, valuation, trading, and growth analysis using Excel 2019, Packt Publishing Limited.

# **MARKETING**

# **MM 401: CONSUMER BEHAVIOUR**

Name of the Course: CONSUMER BEHAVIOUR					
Course Code: 1					
Duration: 6 months Maximum Marks: 100					
Teaching Scho	eme		Examination Scheme		
Theory: 5 Days /week Mid Semester exam: 15					
Tutorial: NIL			Assignment and Quiz: 10 marks		
			Attendance: 5 marks		
Practical: hrs./	week		End Semester Exam : 70 Marks		
Credit Points:	4				
Unit	Content			Hrs/Unit	Marks/Unit
1	Introduction		Behaviour: Defining consumer	2L	
	behaviour, Impo		s strategies, Current trends in		
2	Consumer Decision Process: Need recognition, information search, evaluation of alternatives, purchase decision, consumption and post- purchase evaluation, Variables that shape decision process-individual differences, psychological processes, environmental influences, Types of decision process – complex decision making, variety seeking, impulse buying, loyalty, degree of involvement in buying		hase decision, consumption and ables that shape decision process- logical processes, environmental rocess – complex decision making,	6L	
3	Individual Characteristics: Demographic and psychographic characteristics and market segmentation, Personality, personal values, lifestyle concepts and measurements		4L		
4			ng stimuli and perception, Perceptual pretation, and selective perception	2L	
5	_	•	tion acquisition and processing, emory processes	2L	
6	6 Consumer Motivation: Nature and role of motives, Classifying motives, Motive arousal, Motivation and Involvement			2L	
7	Self-concept: P Gender roles	erspective of sel	f, Consumption and self concept,	2L	
8	development, A	ttitude theories on, Relationship	nctions of attitude, Attitude and models, Role of belief in of attitude and behaviour, Attitude	6L	
9	values, Chang consumer beha	ing values, C viour, Types of	Class: Nature of culture, Cultural Cross- cultural understanding of f subculture and their influence on s, Social stratification	4L	

10	Reference Group Influence: Nature and types of reference groups, How groups influence individuals, Opinion leadership, Word-of-mouth, Innovation and diffusion	2L	
11	Family and Household: Structural and sociological variables affecting families and households, Family life cycles, Role behaviour, Conflict resolution, Changing role of women, Children and household consumer behavior	4L	
12	Case Studies	4L	

#### **Suggested Readings:**

- 1. Assael, H.: Consumer Behaviour & Marketing Action; South-Western
- 2. Blackwell, R.D., Miniard, P.W. & Engel, J,F.: Consumer Behaviour; South-Western
- 3. Hawkins, D.I., Best, R.J. Koney, K.A.& Mookerjee, A.: TMH
- 4. Kumar: Conceptual issues in Consumer Behaviors; Pearson Education
- 5. Loudon & Bitta, Della: Consumer Behaviour; TMH
- 6. Shiffman & Kanuk: Consumer Behaviour; Pearson Education

## **MM 402: RETAIL MANAGEMENT**

Name of	the Course:	RETAIL MANAGE	MENT			
Course Code: MM 402 Semester IV						
Duration:	6 months	Maximum Marks: 100				
Teaching	Scheme	Exam	Examination Scheme			
Theory: 5	Days /week	Mid S	Semester exam: 15			
Tutorial:	NIL	Assig	nment and Quiz: 10 marks			
		Atten	dance: 5 marks			
Practical:	hrs./week	End S	emester Exam : 70 Marks			
Credit Po	ints: 4					
Unit	Content			Hrs/Unit	Marks/Unit	
1	Planning. Retail	Organization, Mode	importance, Strategic Retail ls and Theory of Retail Retailing, Environment and	4L		
2 Retail Operations Management: Retail location research and techniques, Objectives of Store designing, Responsibilities of Store Manager, Store record and accounting system, Logistic and Information system		6L				
Retail Planning: Marketing and Strategic Management, Operations and finance in retailing, HRM in retailing, Mall Management, Relationship Management, Brand Management, Social Marketing in Retailing		6L				
4		notion Impact, Tactic	Advertising communications al analysis, Consumer and	4L		

5	Customer Relationships and Behaviour: Understanding Consumer and Market Segment, Consumer Behaviour and Marketing Strategy, Consumer Perception, Self Concept, Relevance of Culture, Buying Decision, Opinion Leadership, Implications of Personal Influences	4L	
6	International Retailing: International Marketing Research and Information System, Market Analysis, Motives of International Retailing, International Retail Environment and Structure, Analysis of Retailing in Global Setting – methods and competition	6L	
7	Supply Chain Management: Network, Challenges, Forecasting, Sourcing and Vendor Selection, Routing and Route sequencing, Inventory Management, Lead Time uncertainty and Product Availability, Cross Docking and Collaborative Planning.	4L	
8	Electronic Retailing: Use of IT in Retailing, Effective Management of Online catalogues, Direct Retailing Methods, Database Management, Data warehousing, Analysis of E – Retailing Strategies, Digital and Network marketing.	4L	
9	Case Studies	2L	

#### **Suggested Readings:**

- 1. Bajaj, Tuli, & Srivastava ——Retail Management Oxford University Press
- 2. Berman Barry & Evance J.R —Retail Management | Prentice Hall India
- 3. Jain J.N.& Singh P.P Modern Retail Management Principal And Techniques | Regal Publications
- 4. Swapna Pradhan —Retailing Management- Text And Cases| Tata Mcgraw-Hill
- 5. George H, Lucas Jr., Robert P. Bush, Larry G Greshan- Retailing
- 6. Barry Berman, Joel R Evans- Retail Management; A Strategic Approach

#### MM 403: PRODUCT & BRAND MANAGEMENT

Name of t	he Course:	PRODUCT & BRAND MANAGEMENT				
Course Co	ode: MM 403	Semester IV				
Duration:	6 months	Maximum Marks: 100				
Teaching	Scheme	Examination Scheme				
Theory: 5	Days /week	Mid Semester exam: 15	Mid Semester exam: 15			
Tutorial: 1	NIL	Assignment and Quiz: 10 marks				
		Attendance: 5 marks	Attendance: 5 marks			
Practical:	hrs./week	End Semester Exam: 70 Marks	nd Semester Exam: 70 Marks			
Credit Poi	ints: 4	,				
Unit	Content		Hrs/Unit	Marks/Unit		
1		roduct Mix concepts, Product Classification. Product Plan, Portfolio Analysis, Market Potential and	4L			
2	, ,	Strategies. New Product Development, Product de corresponding Strategies, Product Evaluation, n, Line Extension & Brand Extension.	t 6L			

3	Managing Brand: Concept & function of Brand Management, Brand creation, Brand Name, Brand attributes, awareness, loyalty, Personality association, brand extension, co-branding, branding commodities	4L	
4	Strategic Brand Management Process: developing brand strategy Positioning concept, positioning statement, positioning process and steps; Brand Identity, Roles of brand, building Brand image, Brand dimensions	6L	
5	Planning & Implementing Brand Marketing Programs: Criteria for Choosing Brand Elements, Options & tactics for Brand Elements, Use of IMC for Brand Building, Leveraging Secondary Brand Associations to Brand building	6L	
6	Brand Equity: Concept of brand equity, Brand equity vs brand value, brand equity benefits, brand review, brand value, creating brand equity and brand value.	4L	
7	Brand Personality: Concept, advantages, importance of brand personality, brand personality and user imaging. Brand ambassadors, Brand promise	2L	
8	Brand Communication: Understanding branding objective, brand communication strategy, mapping brand strategy with IMC, Media strategy.	2L	
9	Global Brands: Concept of global brand, benefits, advantages of global branding, building on successful global branding global brand strategy.	2L	
10	Case studies	4L	

### **Suggested Readings:**

- 1. Lehmann, R. Donald & Winer, Russel S. (2004), Product Management, Pearson Education
- 2. Donald R. Lehmann and Russell S. Winer, Product Management, Fourth Edition, TMH
- 3. Keller, Kevin Lane (2007), Strategic Brand Management
- 4. Niraj Kumar & Paras Tripathi, Brand Management (text & cases), Himalaya Publishing House.
- 5. M. G. Parameswaran, 2006, Building Brand Value: Five Steps of Building Powerful Brands, New Delhi: Tata McGraw Hill
- 6. H. V. Verma, 2004, Brand Management, New Delhi: Excel Books

#### **MM 404: SERVICE MARKETING**

Name of the Course:	SERVICE MARKETING			
Course Code: MM 404	Semester IV			
Duration: 6 months	Maximum Marks: 100			
Teaching Scheme	Examination Scheme	Examination Scheme		
Theory: 5 Days /week	Theory: 5 Days /week Mid Semester exam: 15			
Tutorial: NIL	Futorial: NIL Assignment and Quiz: 10 marks			
Attendance: 5 marks				
Practical: hrs./week	Practical: hrs./week End Semester Exam: 70 Marks			
Credit Points: 4	,			
Unit Content			Hrs/Unit	Marks/Unit

1	Service Concept: Definition, Characteristics of services, Tangibility continuum, Marketing mix for services, Different types of service sectors – traditional and new, Service experience – moments of truth, zone of tolerance.	6L	
2	Service Strategy Planning: Understanding the customer and competition, Positioning services, Service triangle concept	2L	
3	Creating the Service Product: Creating service product, Customer value hierarchy, Flower of service, Service product mix, Branding service products	4L	
4	Service Marketing Pricing and Communications: Approaches to pricing of services, Elements of promotional mix for services	4L	
5	Designing and Managing Service Demand and Capacity: Designing service delivery system, Service blue printing, Customer as co-producer, Capacity	4L	
	constraints, Demand patterns, Strategies for matching capacity and demand, Wait lines and reservations		
6	Planning the Service Environment: Physical evidence, Servicescapes - types and role, customer response to environment, guidelines for servicescape strategies	2L	
7	Managing People: Critical importance of service employees, Problems and difficulties of boundary- spanning roles, Strategies for delivering service quality through people, Service leadership and culture	4L	
8	Service Quality: Service quality, Integrated Gap model - to identify and correct quality problems, Measuring and improving service quality	4L	
9	Different Services: Nature and characteristics of financial, hospitality, health-care, educational & professional, logistics, entertainment services and their respective marketing mix analysis	6L	
10	Case Studies	2L	

- 1. Zeithaml, V.A., Bitner, M J, Grembler, D.D. & Pandit, A.: Service Marketing;, TMH
- 2. Rao, K.R.M.: Services Marketing, Pearson Education
- 3. Rajendra Nargundkar, Services Marketing: Text & Cases, Tata McGrawHill Publishing Company, New Delhi, 2008
- 4. Apte, G.: Service Marketing; OUP.
- 5. Lovelock, C., Wirtz, J. & Chatterjee, J.: Services Marketing; Pearson Education
- 6. Srinivasan R.: Services Marketing; PH