# **PANIMALAR** ENGINEERING COLLEGE

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai





# M.B.A - MASTER OF BUSINESS ADMINISTRATION •••• REGULATION 2021 ••••

**CURRICULUM & SYLLABUS** 

PANIMALAR ENGINEERING COLLEGE (An Autonomous Institution, Affiliated to Anna University, Chennai) Bangalore Trunk Road, Varadharajapuram, Poonamallee, Chennai - 600 123



#### Department of MASTER OF BUSINESS ADMINISTRATION

Curriculum and Syllabus Regulation-2021

M.B.A - MASTER OF BUSINESS ADMINISTRATION

#### Vision:

Emerge as a leading business school by empowering the next generation of managers to be globally adept, innovative, and industry-ready, while fostering responsibility and contributions to the nation.

#### Mission:

M1: Foster critical thinking and decision-making in managerial aspirants through quality education.

M2: Cultivate industry-ready leaders, blending professional competence with intellectual acuity.

M3: Émpower students to master diverse managerial skills and competencies across functional areas.

#### PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

MBA programme curriculum is designed to prepare the post graduate students

**PEO1:** Shall possess a robust understanding of core business practices, enabling them to adeptly analyze situations and strategize effectively in decision-making.

**PEO2:** Shall be well-versed in emerging technologies and will acquire the skills necessary to meet evolving industry competencies.

**PEO3:** Shall be equipped with a comprehensive perspective, empowering them to tackle complex business challenges through innovative solutions.

**PEO4:** Shall have leadership prowess, a strong ethical foundation, and a lifelong commitment to learning.

#### Programme Outcomes (POs):

On successful completion of the programme:

**PO1: Domain Knowledge** - Apply knowledge of management theories and practices to solve business problems

**PO2: Problem Analysis** - Foster analytical and critical thinking abilities for data-based decision making

PO3: Leadership - Ability to develop value-based leadership ability.

**PO4: Environmental Sustainability** - Ability to understand, analyse and communicate global, economic, legal and ethical aspects of business.

**PO5: Team Collaboration** - Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to team environment.

**PO6: Life Long Learning** - Display commitment to continuous learning in all functional management domains in a technology-based environment.

**PO7: Ingenious Skills** - Ability to prioritize and demonstrate resourcefulness in taking up challenging assignments in a dynamic organizational context.

**PO8: Social Responsiveness and Ethics** - Ability to understand the significance of social responsibility and ethics values in business for its long run sustainability in a competitive scenario.

#### <u>CURRICULUM</u>

### <u>Semester I</u>

S. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	т	Ρ	С
THEO	RY							
1.	21MA3101	Statistics for Management	PCC	4	3	1	0	4
2.	21MB3102	Management Concepts and Organizational Behavior	PCC	3	3	0	0	3
3.	21MB3103	Managerial Economics	PCC	3	3	0	0	3
4.	21MB3104	Accounting for Decision Making	PCC	4	3	1	0	4
5.	21MB3105	Legal Aspects of Business	PCC	3	3	0	0	3
6.	21MB3106	Information Management	PCC	3	3	0	0	3
7.	21MB3107	Marketing Management	PCC	3	3	0	0	3
PRAC	TICALS							
8.	21MB3108	Indian ethos and business ethics (Seminar)	EEC	4	0	0	4	2
9.	21MB3109	Business Communications (Laboratory)	EEC	4	0	0	4	2
ΤΟΤΑ	TOTAL			31	21	2	8	27

#### Semester II

S. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	т	Ρ	с	
THEO	THEORY								
1.	21MB3201	Quantitative Techniques for Decision Making	PCC	4	3	1	0	4	
2.	21MB3202	Financial Management	PCC	3	3	0	0	3	
3.	21MB3203	Human Resource Management	PCC	3	3	0	0	3	
4.	21MB3204	Operations Management	PCC	4	3	1	0	4	
5.	21MB3205	Business Research Methods	PCC	3	3	0	0	3	
6.	21MB3206	Business Analytics	PCC	3	3	0	0	3	
7.		Non-Functional Elective	PEC	3	3	0	0	3	
Praction	cal								
7.	21MB3214	Data analysis and Business Modelling (Laboratory)	PCC	4	0	0	4	2	
8.	21MB3215	Rural Community Engagement	EEC	4	0	0	4	2	
ΤΟΤΑ	TOTAL			31	21	2	8	27	

#### SEMESTER III

S.N o	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	т	Ρ	с
THE	ORY							
1.	21MB3301	Strategic Management	PCC	3	3	0	0	3
2.	21MB3302	International Business Management	PCC	3	3	0	0	3
3.		Elective I	PEC	3	3	0	0	3
4.		Elective II	PEC	3	3	0	0	3
5.		Elective III	PEC	3	3	0	0	3
6.		Elective IV	PEC	3	3	0	0	3
7.		Elective V	PEC	3	3	0	0	3
8.		Elective VI	PEC	3	3	0	0	3
PRA	CTICALS	-						
9.	21MB3390	Creativity and Innovation Laboratory	EEC	4	0	0	4	2
10.	21MB3391	Summer Internship	EEC	4	0	0	4	2
		TOTAL		32	24	0	8	28

NOTE: In the third semester Students need to choose - Three electives from 2 functional streams for Dual Specialization

**Summer internship** – Minimum of 4 weeks of internship Training diary has to be submitted. Students need to get attendance certificate from the industry after completion and to be submitted to CoE.

#### SEMESTER IV

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	Т	Ρ	С
PRACT	ICALS							
	21MB3401	Project Work	EEC	24	0	0	24	12
		TOTAL		24	0	0	24	12

TOTAL NO. OF CREDITS: 94

## NON-FUNCTIONAL ELECTIVES

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	Т	Ρ	С
1	21MB3207	Entrepreneurship Development	PEC	3	3	0	0	3
2	21MB3208	Corporate Governance	PEC	3	3	0	0	3
3	21MB3209	Event Management	PEC	3	3	0	0	3
4	21MB3210	Micro and Small Business	PEC	3	3	0	0	3
5	21MB3211	Fuzzy logic for Management decision making	PEC	3	3	0	0	3
6	21MB3212	Intellectual Property Rights	PEC	3	3	0	0	3
7	21MB3213	Sustainable Management	PEC	3	3	0	0	3

# PROFESSIONAL ELECTIVES FOR SEMESTER III [PEC]FUNCTIONAL ELECTIVES

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	Т	Р	С
1	21MB3303	Investment Analysis and Portfolio management	PEC	3	3	0	0	3
2	21MB3304	Financial Markets	PEC	3	3	0	0	3
3	21MB3305	Banking Management and	PEC	3	3	0	0	3
4	21MB3306	Financial Derivatives	PEC	3	3	0	0	3
5	21MB3307	Financial Modeling	PEC	3	3	0	0	3
6	21MB3308	International Finance	PEC	3	3	0	0	3
7	21MB3309	Behaviorial Finance	PEC	3	3	0	0	3
8	21MB3310	Business Analysis and Valuation	PEC	3	3	0	0	3
9	21MB3311	Financial Risk Management and Insurance	PEC	3	3	0	0	3
10	21MB3312	Project Appraisal and Finance	PEC	3	3	0	0	3
11	21MB3313	Venture Capital and Private Equity	PEC	3	3	0	0	3

#### Stream/ Specialization: Finance (8 subjects)

#### Stream/ Specialization: Human Resource Management (9 subjects)

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	Т	Ρ	С
1	21MB3316	Strategic Human Resource Management	PEC	3	3	0	0	3
2	21MB3317	Industrial Relations and Labor Legislations	PEC	3	3	0	0	3
3	21MB3318	Social Psychology	PEC	3	3	0	0	3
4	21MB3319	Organizational Design, Change and Development	PEC	3	3	0	0	3
5	21MB3320	Negotiation and Conflict Management	PEC	3	3	0	0	3
6	21MB3321	Reward and Compensation management	PEC	3	3	0	0	3

7	21MB3322	International Human Resource Management	PEC	3	3	0	0	3
8	21MB3323	Human Resource Analytics	PEC	3	3	0	0	3
9	21MB3324	Training and Development	PEC	3	3	0	0	3
10	21MB3325	Learning and Development	PEC	3	3	0	0	3
11	21MB3326	People Analytics	PEC	3	3	0	0	3
12	21MB3327	Performance Management	PEC	3	3	0	0	3
13	21MB3328	Talent Acquisition and Management	PEC	3	3	0	0	3

# Stream/ Specialization: Operations (7 subjects)

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	Т	Ρ	С
1	21MB3331	Supply Chain Management	PEC	3	3	0	0	3
2	21MB3332	Quality Management	PEC	3	3	0	0	3
3	21MB3333	Materials Management	PEC	3	3	0	0	3
4	21MB3334	Services Operations Management	PEC	3	3	0	0	3
5	21MB3335	Supply Chain Analytics	PEC	3	3	0	0	3
6	21MB3336	Project Management	PEC	3	3	0	0	3
7	21MB3337	Logistics Management	PEC	3	3	0	0	3
8	21MB3338	Design Thinking	PEC	3	3	0	0	3
9	21MB3339	New Product Development	PEC	3	3	0	0	3
10	21MB3340	Total Productive Maintenance and Lean Management	PEC	3	3	0	0	3

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	Т	Ρ	С
1	21MB3346	Retail Marketing	PEC	3	3	0	0	3
2	21MB3347	Consumer Behavior	PEC	3	3	0	0	3
3	21MB3348	Integrated Marketing Communication	PEC	3	3	0	0	3
4	21MB3349	Services Marketing	PEC	3	3	0	0	3
5	21MB3350	Sales and Distribution Management	PEC	3	3	0	0	3
6	21MB3351	Product and Brand Management	PEC	3	3	0	0	3
7	21MB3352	Digital Marketing	PEC	3	3	0	0	3
8	21MB3353	Marketing Analytics	PEC	3	3	0	0	3
9	21MB3354	Marketing Logistics	PEC	3	3	0	0	3
10	21MB3355	Inbound Marketing	PEC	3	3	0	0	3
11	21MB3356	Customer Relationship	PEC	3	3	0	0	3

# Stream/ Specialization: Business Analytics (6 subjects)

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	Т	Ρ	С
1	21MB3361	Deep Learning and Artificial Intelligence	PEC	3	3	0	0	3
2	21MB3362	Social Media Web Analytics	PEC	3	3	0	0	3
3	21MB3363	Big Data Analytics	PEC	3	3	0	0	3
4	21MB3364	Data Mining for Business Intelligence	PEC	3	3	0	0	3
5	21MB3365	R Programming	PEC	3	3	0	0	3
6	21MB3366	Python Programming	PEC	3	3	0	0	3

7	21MB3367	Artificial Intelligence for Business	PEC	3	3	0	0	3
8	21MB3368	Machine Learning for Business	PEC	3	3	0	0	3

S.No.	Subject Area		(	Credi	ts Pe	r Sei	meste	ər		Credits	Percentage
	Semester	I	II		IV	V	VI	VII	VIII	Total	%
1.	Professional Core Course [PCC]	23	20	6	-	-	-	-	-	49	52
2.	Professional Elective Course [PEC]	-	3	18	-	-	-	-	-	21	22
3.	Employability Enhancement Course [EEC]	4	4	4	12	-	-	-	-	24	26
	Total	27	27	28	12	-	-	-	-	94	100

		L	Т	Ρ	С				
21MA3101	STATISTICS FOR MANAGEMENT	3	1	0	4				
OBJECTIVES:	To impart Knowledge on the following topics:								
To intro	oduce students to the fundamental concepts of statistics measures of central tendency and dispersion, probabilit				ta				
samplir	ng techniques, and hypothesis testing.	-		<b>y</b> ,					
	n the applications of statistics in business decision makir	-							
	ce students to the principles of statistical inference inclue pothesis testing.	aing	esti	mati	on				
UNIT - I	INTRODUCTION				12				
of events, Bay	ons and rules for probability, conditional probability yes theorem, and random variables, Probability distribut orm and Normal distributions.								
UNIT - II	SAMPLING DISTRIBUTION AND ESTIMATION	N			12				
	nates for population parameters of large sample and the sample size. TESTING OF HYPOTHESIS - PARAMETIRC TESTING OF HYPOTHESIS - PARAMETIRC TESTING AND ADD ADD ADD ADD ADD ADD ADD ADD ADD		ll sa	-	les, 12				
large samples	sting: one sample and two sample tests for means and (z-test), one sample and two sample tests for means of for two sample standard deviations. ANOVA one and tw	sma	all s						
UNIT - IV	NON-PARAMETRIC TESTS				12				
independenc data. Rank s	Chi-square test for single sample standard deviation. Chi-square tests for independence of attributes, goodness of fit and homogeneity. Sign test for paired data. Rank sum test. Kolmogorov-Smirnov – test for goodness of fit, comparing two populations. Mann – Whitney U test and Kruskal Wallis test. One sample run test.								
UNIT - V	CORRELATION AND REGRESSION				12				
	Coefficient of Determination - Rank Correlation - F Regression line - Method of Least Squares - Standard				-				
	ΤΟΤΑ	L: 6	0 PI	ERIC	DDS				
OUTCOMES:									
On successful	completion of the course student will be able to:								

1.	Apply the basic concepts of random variables and probability theory to solve industrial problems
2.	Apply the concept of sampling distribution and estimation theory in industrial production and forecasting
3.	Apply hypothesis for various researchquestions or business scenarios.
4.	Evaluate the principles and concepts underlying non-parametric tests.
5.	Apply how to identify situations where non-parametric tests areappropriate.
6.	Apply the concept of correlation, regression, time series analysis in real life situation
TEXT	BOOKS:
1.	Richard I. Levin, David S. Rubin, Sanjay Rastogi Masood Husain Siddiqui, Statistics for Management, Pearson Education, 7th Edition, 2016.
2.	Aczel A.D. and Sounderpandian J., "Complete Business Statistics", 6th edition, Tata McGraw Hill Publishing Company Ltd., New Delhi, 2012.
REFE	RENCES:
1.	Prem.S.Mann, Introductory Statistics, 7th Edition, Wiley India, 2016.
2.	Gareth James, Daniela Witten, Trevor Hastie, Robert Tibshirani, An Introduction to Statistical Learning with Applications in R, Springer, 2016.
3.	Anderson D.R., Sweeney D.J. and Williams T.A., Statistics for business and economics, 11th edition, Thomson (South - Western) Asia, Singapore, 2012.
4.	Srivatsava TN and Shailaja Rego, Statistics for Management, Tata McGraw Hill, 2008.
5.	N. D. Vohra, Business Statistics, Tata McGraw Hill, 2012.
6.	Ken Black, Applied Business Statistics, 7th Edition, Wiley India Edition, 2012.

	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO	-	-	-	-	-	-	-	-
CO1	3	2	-	-	2	-	1	-
CO2	2	3	1	2	-	1	2	-
CO3	-	-	-	-	-	-	-	-
CO4	2	3	-	3	2	2	3	2
CO5	-	-	-	-	-	-	-	-
CO6	-	3	1	-	-	2	3	2

	MANAGEMENT CONCEPTS & ORGANIZATIONAL	L	т	Ρ	С				
21MB3102	BEHAVIOR	3	0	0	3				
		•		•					
OBJECTIVES	To impart Knowledge on the following topics:								
	miliarize the students to the basic concepts of		<u> </u>						
in order to aid in understanding how an organization functions, and in									
	standing the complexity and wide variety of issues man 's business firms.	age	rs ta	ace	n				
	quaint the students with the fundamentals of manag	ina	hus	sine	20				
	understand individual and group behaviour at work								
	rove the effectiveness of an organization. The course	•							
	on Indian experiences, approaches and cases.								
UNIT - I	INTRODUCTION TO MANAGEMENT			<u> </u>	0				
		• •			9				
	: meaning, levels, management as an art or science I Roles of a manager, Managerial Skills - Evolution of								
	sical Era (Contributions of F.W.Taylor & Henry Fayol), N								
	Hawthorne Experiments), and Modern Era (system &								
approach).				0	,				
UNIT - II	PLANNING & ORGANIZING	<u>.</u>			9				
	ture, purpose, steps in Planning process, Scope,								
	plans, Characteristics of a sound Plan - Management ategies & Policies - Decision Making: Types, Tec								
Processes.	ategies & Folicies - Decision Making. Types, Tec	miq	ues	5 ai	iu				
	Organization structure, Authority and Responsibility F	Rela	tion	ship	S,				
	f Authority and Decentralization, Formal and informal				n,				
Departmenta	ization. Control: meaning, function, Process and types of	Co	ntro	I.					
UNIT - III	INDIVIDUAL BEHAVIOUR				9				
Organizationa	Behavior: Meaning, contributing disciplines, in	npor	tan	се	-				
Perception a	nd Learning - Personality and Individual Differences				on				
	Job Performance - Values, Attitudes and Beliefs - Co	mmı	unic	atio	n:				
Types, Proce	ss, Barriers and Making Communication Effective.								
UNIT - IV	GROUP BEHAVIOUR				9				
Groups and		and	te	eam	-				
•	roup Development, Group Cohesiveness, Types of te								
Dynamics - L	eadership: Styles & Approaches - Power and Politics - C	rgai	niza	tion	al				
	Conflict: Concept, Sources, Types, Management o	of o	conf	lict	-				
Organizationa	al Change and Development.								
UNIT - V	EMERGING ASPECTS OF ORGANIZATIONAL BEHA		UR		9				
	Management Styles and approaches: American				-				
	Practices -Organizational Creativity and Ir				-				
		roo			al				
	al Culture: OB across cultures, Conditions affecting of			ultur	u				
organizationa	I operations, Managing International Workforce, Cross ci			uitur					
organizationa		ultur	al						

	OMES:
	ccessful completion of the course student will be able to:
-	Summarize the various management concepts and skills required in the
	business world.
2.	Apply the various functions of management in a real time management
	context.
3.	Analyze the complexities associated with management of individual behavior in
	the organizations.
4.	Evaluate the significance of employee motivation and communication in
	organizational productivity.
5.	Apply the skillset to manage group behavior in Organizations.
6.	Analyze the current trends in managing organizational behavior.
	BOOKS:
	Andrew J. Dubrin, Essentials of Management, Thomson Southwestern, 9th Edition, 2012.
2.	Harold Koontz and Heinz Weihrich, Essentials of Management: An
	International & Leadership Perspective, 9th edition, Tata McGraw-Hill
	Education, 2012.
	Stephen P. Robbins, David A.DeCenzo and Mary Coulter, Fundamentals of management, Prentice Hall of India, 2012.
4.	Robbins.S. Organisational Behaviour, X edn., Prentice-Hall, India.
5.	Fred Luthans, Organisational Behavior, McGraw Hill, 12th Edition, 2013.
REFE	RENCES:
1.	Samuel C. Certo and Tervis Certo, Modern management: concepts and skills, Pearson education, 12th edition, 2012.
2.	Charles W.L Hill and Steven L McShane, Principles of Management, McGraw Hill. Education, Special Indian Edition, 2007.
3.	Durai, P. (2015). Principles of Management, Text and Cases. New
	Delhi: Pearson Education.
4.	Heinz Weihrich, Mark V Cannice and Harold Koontz, Management- A global entrepreneurial perspective, Tata McGraw Hill,
	12th edition, 2008.
5.	Nelson, Quick, Khandelwal. ORGB – An innovative approach to learning
	and teaching. Cengage learning. 2nd edition. 2012.
6.	Robert Konopaske, John M Ivancevich, Michael T Matteson, Oranizational
	Behavior and Management, 11th edition, Tata McGraw Hill, 2017.
	IE COURSES / RESOURCES:
1.	https://onlinecourses.swayam2.ac.in/cec20_mg03/preview
2.	https://www.mooc-list.com/course/organizational-behavior-managing-people-
	coursera

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	3	-	3	3	2	3
CO2	3	-	-	-	-	3	-	2
CO3	2	2	2	-	3	3	2	2
CO4	3	2	3	-	3	3	-	-
CO5	2		3	-		2	3	2
CO6	3	2	2	-	3	3	3	3



21ME	MB3103 MANAGERIAL ECONOMICS									
OBJE		To impart Knowledge on the following topics:								
•	To ena	able the students to understand the Economic conceptss	ot to a	nalys	se					
•	To enable the students to analyse and understand the consumer and producer behaviour.									
•		ble the students to understand the features and forms and factor market.	s of pro	oduc	ts					
•	To imp	art knowledge about Macro economic principles and poli	cies.							
•		lain demand and supply of money and determinants of m	ioney s	upp	ly					
UNIT -		INTRODUCTION			9					
funda fronti growt	mental ers (PP h & stat	ing. The themes of economics - scarcity and effici economic problems - society's capability - Production PF) - Productive efficiency Vs economic efficiency pility - the role of markets and government - Externalitie	on pos - eco s.	sibili	ity lic					
UNIT -	Π	CONSUMER AND PRODUCER BEHAVIOUR			9					
dema Meas consu run a disec	nd and uremen ımer eq nd long onomies	nand and Supply - Determinants - Market equilibrium supply - consumer behaviour: Utility - Meaning, Uti t of utility, Law of diminishing marginal utility, Indiffe uilibrium - Approaches to consumer behaviour. Produ- g-run Production Function – Returns to scale – ec s of scale - Analysis of cost - Short-run and long-run c ween Production and cost function.	lity an rence ction - onomi	alysi curv Sho ies \	is, re, rt- /s					
UNIT -		PRODUCT AND FACTOR MARKET			9					
Product market - perfect and imperfect market - different market structures - Firm"s equilibrium and supply, Price Determination under Perfect Competition, Price-Output Determination under Perfect Competition, Pricing Under Imperfect Competition - Market efficiency - Economic costs of imperfect competition. Factor market - Land, Labour and capital - Demand and supply - determination of factor price - Interaction of product and factor market - General equilibrium and efficiency of competitive markets.										
UNIT -	NZ	PERFORMANCE OF AN ECONOMY - MACRO ECON			9					

activi Macru incon Fisca	o Economics -Economic aggregates - circular flow of macroeconomic ty - National income determination - Aggregate demand and supply - oeconomic equilibrium - Components of aggregate demand and national ne - Multiplier, Accelerator, Multiplier effect - Demand side management - al policy in theory.
UNIT -	
law - -Inflat Supp	
	TOTAL: 45 PERIODS
OUTC	OMES:
	ccessful completion of the course student will be able to:
	Remember the Economic concept to analyze Businesses and be familiar with micro-economics terms.
2.	Analyse and understand the consumer and producer behavior from a managerial perspective.
	Examine the forms of products market and identify the various issues in an economics context.
4.	Summarize the features of factor market and demonstrate their significance from the perspective of business decision making.
	Comprehend the knowledge about Macro economic principles and policies and its real time impact on economy.
	Analyse the macroeconomics trends in business and assess their impact on business enterprises.
TEXT	BOOKS:
1.	Paul A. Samuelson, William D. Nordhaus, Sudip Chaudhuri and Anindya Sen, Economics, 19th edition, Tata McGraw Hill, New Delhi, 2010.
2.	William Boyes and Michael Melvin, Textbook of economics, Biztantra,9th Edition, 2012.
3.	Managerial Economics: Concepts and Applications (SIE), THOMAS & MAURICE, McGrawHill Education.
REFE	RENCES:
1.	N. Gregory Mankiw, Principles of Economics, 7th edition, Cengage, New Delhi, 2017.
2.	Richard Lipsey and Alec Charystal, Economics, 12th edition, Oxford, University Press, New Delhi, 2011.
3.	Managerial Economics, D.N.Dwivedi, Vikas Publication.

P0 C0	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	-	3	-	-	3	3
CO2	2	3	-	3	-	-	3	3
CO3	2	2	-	3	-	-	3	3
CO4	2	3	-	3	-	-	3	3
CO5	2	2	-	3	-	-	3	3
CO6	3	3	-	3	-	-	3	3



		1	Т	Ρ	С					
21MB3104	ACCOUNTING FOR DECISION MAKING	3	· 1	0	4					
	To impart Knowledge on the following topics: roduce complex problems of financial accountin	g :	sucl	h a	as					
<ul> <li>valuation, measuring and reporting issues related to assets and liabilities and preparing the financial statements.</li> <li>To gain the ability of using accounting information as a tool in applying</li> </ul>										
solution	n the ability of using accounting information as a toon no for managerial problems, evaluating the financial perfecting the financial structure.				•					
UNIT - I	FINANCIAL ACCOUNTING			1	2					
Capital of a F Reporting; C Qualitative C Accounting P Accounting P Book, Gener Balance She Classification Secured and Standards Co 4).	Framework of Accounting: Users of Financial Firm; Structure of Business Firms; Objectives of Corpor Components of Financial Statements; Accounting haracteristics of Financial Statements; True and Fa olicy and Accounting Standards; Accounting Standards Policies (AS1). Accounting Records and Systems: (Jo al Ledger, Trial Balance) Balance Sheet: Accounting eet Structure; Assets; Current Assets; Non- Curr of Assets; Liabilities; Current Liabilities; Non-Curre d Unsecured Liabilities; Classification of Liabilities; Intingencies and Events Occurring after the Balance Sheet ANALYSIS OF FINANCIAL STATEMENTS	ate Con ir V Disc ourna ng I rent nt L Ac eet [	Fina ven iew clos al, Equ As _iab ccou Date	tion ; ar ure Cas atio sset ilitie untir e (As	al s; nd of sh n; s; s; s; ng S- <b>2</b>					
Dupont Ratio	tio analysis, Interpretation of ratio for financia os – Comparative statements - common size state Accounting Standard 3 and Funds flow statement ana	men	its.	Cas	sh					
UNIT - III	COST ACCOUNTING			1	2					
Process cos	its – Classification of costs – Job cost sheet – Job or sting - (excluding Interdepartmental Transfers and Joint and By Product Costing - Activity Based Cos	d e	quiv	/ale	nt					
UNIT - IV	MARGINAL COSTING AND DECISION MAKING	<u> </u>		1	2					
Even Analys renovate, Sell new product elimination de costs and irre	sting and profit planning – Cost, Volume, Profit Anal is – Decision making problems -Retain or replace a or further process, Incremental reasoning in pricing; pr pricing, Product decisions - product modification decis ecision, product mix decision; product distribution decis elevant costs. Incremental analysis / differential costing ing: Pricing, Product Decisions.	and oduo sion ion.	rep ct pi ; pr Rel	air ricin odu leva	or g; ct nt					
UNIT - V	BUDGETING AND VARIANCE ANALYSIS			1	2					

Budgetary Control: Budgets as Key to Planning & Control, Budgets, budgetary control, Budget preparation & monitoring procedures, Functional, Cash & Master Budget, Flexible Budgets. Standard costing and analysis of variances: Standard costing & budgetary control, Establishment of standard costs - keeping standards meaningful and relevant, Accounting for standard costs, Analysis of variances: Material, Labour, Overhead, and Profit. (Usage, Price, Volume & Sale Price variances

#### TOTAL: 60 PERIODS

	OMES:
	ccessful completion of the course student will be able to:
	Apply grounding knowledge of financial accounting concepts.
	Analyze to prepare financial statement analysis.
	Analyze the concepts of management and cost accounting techniques.
	Apply marginal costing and profit planning process during decision making analysis.
5.	Assess the accountancy standards of practices across sectors.
6.	Analyze managerial decision using budgetary techniques.
TEXT	BOOKS:
1.	R. Narayanaswamy, Financial Accounting, PHI, sixth edition, 2017.
2.	M.Y. Khan & P.K. Jain, Management Accounting, Tata McGraw Hill, 8 <sup>th</sup> edtion, 2018.
3.	T.S. Reddy & A. Murthy, Financial Accounting, Margham Publications, 2014.
4.	Ashish K. Battacharya, Introduction to Financial Statement Analysis, Elsiever, 2012.
REFE	RENCES:
1.	Ashish K. Bhattacharya : Financial Accounting for Business Managers: Prentice-Hall of India Pvt Ltd. : Year of Publication 2006
2.	R. Narayanaswamy : Financial Accounting : A Managerial Perspective : Prentice-Hall of India Pvt.Ltd. : Year of Publication 2002
3.	S.P.Jain, K.L.Narang, Simmi Agrawal : Accounting for Managers : Kalyani Publishers : Year of Publication 2006
WEB F	REFERENCES:
1.	Accounting Coach(http://www.accountingcoach.com/
2.	Coursera(https://www.coursera.org/course/accounting
3.	Principles of Accounting(http://www.principlesofaccounting.com/
ONLIN	IE COURSES / RESOURCES:
1.	MIT Open CourseWare (http://ocw.mit.edu/courses/sloan-school-of- management/
2.	NJIT Open CourseWare (http://ocw.njit.edu/som/acct/acct-615- anandarajan/index.php

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	3	-	3	3	3	3
CO2	3	3	3	-	3	3	3	3
CO3	3	3	3	-	3	3	3	3
CO4	2	2	2	-	3	3	2	3
CO5	2	2	3	-	3	3	3	3
CO6	3	3	3	-	3	3	3	3



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21MB3105	LEGAL ASPECTS OF BUSINESS	L 3	Т 0	P 0	C 3							
OBJECTIVES: To impart Knowledge on the following topics:												
Familiarize with the laws that have an influence on business.												
	Enable the students to comprehend the basic rules of laws.											
	n aptitude to interpret laws and legal language.											
Apply r	ules of business laws to real world conflicts and management	cnai	ieng	jes.								
To provide a basic understanding of various statutory provisions that confronts business managers while taking decisions.												
UNIT - I	COMMERCIAL LAW				9							
THE INDIAN CONTRACT ACT 1872 Definition of contract, essentials elements and types of a contract, Formation of a contract, performance of contracts, breach of contract and its remedies, Quasi contracts. Contract of Agency: Nature of agency, Creation and types of agents, Authority and liability of Agent and principal: Rights and duties of principal and agents, termination of agency. THE SALE OF GOODS ACT 1930 Nature of Sales contract, Documents of title, risk of loss, Guarantees and Warranties, performance of sales contracts, conditional sales and rights of an												
negotiable in	r. Negotiable Instruments Act 1881: Nature and restruments. Types of negotiable instruments, liability of periods of the set of the	artie	es, l	hold	er							
	ples – Nature and types of companies, Formation, N	lem	ora	ndu	m							
and Articles	of Association, Prospectus, Power, duties and nding up of companies, Corporate Governance.											
UNIT - III	INDUSTRIAL LAW				9							
An overview - Industrial D	of Factories Act, Payment of Wages Act, Payment of sputes Act.	of B	onu	is A	ct							
UNIT - IV	CORPORATE TAX & GST				9							
Corporate Tax Planning, Corporate Taxes and Overview of Latest Developments in Indirect tax Laws relating to GST: An introduction including constitutional aspects, Levy and collection of CGST & IGST, Basic concept of time and value of supply, Input tax credit, Computation of GST Liability, Registration, Tax Invoice, Credit & Debit Notes, Electronic Way bill, Returns, Payment of taxes including Reverse Charge.												
UNIT - V	CONSUMER PROTECTION ACT AND INTRODUCT CYBER LAWS	ION	OF	:	9							
CYBER LAWS Consumer Protection Act – Consumer rights, Procedures for Consumer grievances redressal, Types of consumer Redressal Machineries and Forums- Competition Act 2002- Cybercrimes, IT Act 2000 and 2002, Cyber Laws, Introduction of IPR Intellectual Property Laws- Introduction, Legal Aspects of Patents, Filing of Patent Applications, Rights from Patents, Infringement of Patents, Copyright and its Ownership, Infringement of Copyright, Civil Remedies for Infringement. – Copy rights, Trade marks, Patent Act. Introduction, Right to Information Act, 2005.												

	TOTAL: 45 PERIODS
OUTC	OMES:
On suc	ccessful completion of the course student will be able to:
1.	Comprehend the fundamental legal principles in developing various contracts and commercial laws in the business world.
2.	Interpret the various forms of business associations and elements of Corporate Governance.
3.	Understand the laws related to industrial environment.
4.	Apply the guidelines of Corporate Tax and Goods and Services Tax.
5.	Summarize the Consumer Protection Act.
6.	Interpret Cyber Laws and Intellectual Property Rights for evolving businesses.
TEXT	BOOKS:
1.	N. D. Kapoor, Elements of Mercantile Law, Sultan Chand and Company, India, 2017.
2.	P. K. Goel, Business Law for Managers, Biztantatara Publishers, India, 2017.
3.	Akhileshwar Pathak, Legal Aspects of Business, Tata McGraw Hill, 6th Edition 2018.
4.	Ravinder Kumar, Legal Aspects of Business, New Delhi: Cengage Learning, 4th edition, 2016.
5.	Sinha P.K, Dr. Vinod Singhania, Text Book of Indirect Tax, Taxman Publication, New Delhi.
6.	Taxmann, GST Manual with GST Law Guide & Digest of Landmark Rulings, 11 <sup>th</sup> Edition, 2019.
REFE	RENCES:
1.	P. P. S. Gogna, Mercantile Law, S. Chand & Co. Ltd., India, Fourth Edition, 2015.
2.	Dr. Vinod K. Singhania, Direct Taxes Planning and Management, 11th, 2007.
3.	Richard Stim, Intellectual Property- Copy Rights, Trade Marks, and Patents, Cengage Learning, 15th edition 2017.
4.	Daniel Albuquerque, Legal Aspect of Business, Oxford,2nd edition, 2017
5.	Ravinder Kumar- Legal Aspect of BusinessCengage Learning, 4th Edition-2016.
6.	V.S. Datey, GST Ready Reckoner, 9 th edition, 2019.
ONLIN	E COURSES / RESOURCES:
1.	https://onlinecourses.nptel.ac.in/noc21_mg96/preview
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СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	-	-	-	3	1	2	2	2
CO2	3	-	-	3	-	2	2	3
CO3	2		-	3	2	2	1	3
CO4	2	-	-	3	-	2	-	2
CO5	2	-	-	3	-	2	-	2
CO6	3	-	-	3	-	-	-	3

Data, Information, Intelligence, Information Technology, Information System, Evolution, Types based on Functions and Hierarchy, Functional Information Systems, DSS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.         UNIT - II       SYSTEM ANALYSIS AND DESIGN       9         Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.       9         UNIT - III       DATABASE MANAGEMENT SYSTEMS       9         DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.       9         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         INIT - V       NEW IT INITIATIVES       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9				Ŧ								
To create awareness about data, information and different types of information systems in business for effective decision making.           To understand the system development methodologies.           To understand the system development methodologies.           To learn about the case tools and UML diagram and its types.           To understand database management system.           To learn the various technologies in information system and its security and control.           To gain knowledge on new IT initiatives in business.           UNIT - I         INTRODUCTION         9           Data, Information, Intelligence, Information Technology, Information System, Evolution, Types based on Functions and Hierarchy, Functional Information System, SDS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.         9           UNIT - II         SYSTEM ANALYSIS AND DESIGN         9           Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.         9           DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.         9           UNIT - IV         SECURITY, CONTROL AND REPORTING         9           Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.         9	21MB3106	INFORMATION MANAGEMENT	L 3	-	-							
To create awareness about data, information and different types of information systems in business for effective decision making.           To understand the system development methodologies.           To understand the system development methodologies.           To learn about the case tools and UML diagram and its types.           To understand database management system.           To learn the various technologies in information system and its security and control.           To gain knowledge on new IT initiatives in business.           UNIT - I         INTRODUCTION         9           Data, Information, Intelligence, Information Technology, Information System, Evolution, Types based on Functions and Hierarchy, Functional Information System, SDS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.         9           UNIT - II         SYSTEM ANALYSIS AND DESIGN         9           Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.         9           DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.         9           UNIT - IV         SECURITY, CONTROL AND REPORTING         9           Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.         9	OBJECTIVES	<b>OBJECTIVES:</b> To impart Knowledge on the following topics:										
Image: To understand the system development methodologies.           Image: To learn about the case tools and UML diagram and its types.           Image: To understand database management system.           Image: To learn the various technologies in information system and its security and control.           Image: To gain knowledge on new IT initiatives in business.           UNIT - I         Image: Imag												
•       To learn about the case tools and UML diagram and its types.         •       To understand database management system.         •       To learn the various technologies in information system and its security and control.         •       To gain knowledge on new IT initiatives in business.         UNIT - I       INTRODUCTION       9         Data, Information, Intelligence, Information Technology, Information System, Evolution, Types based on Functions and Hierarchy, Functional Information System, DSS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.       9         Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.       9         UNIT - III       DATABASE MANAGEMENT SYSTEMS       9         DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.       9         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing - Artificial Intelligence - Block Chain Technology - Robotic Process Automation. Machine Learning.       0         OUTCOMES:												
To learn the various technologies in information system and its security and control.           To gain knowledge on new IT initiatives in business.           UNIT -1         INTRODUCTION         9           Data, Information, Intelligence, Information Technology, Information System, Evolution, Types based on Functions and Hierarchy, Functional Information Systems, DSS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.           UNIT -II         SYSTEM ANALYSIS AND DESIGN         9           Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.         9           UNIT - III         DATABASE MANAGEMENT SYSTEMS         9           DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.         9           VINT - IV         SECURITY, CONTROL AND REPORTING         9           Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.         9           Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing - Artificial Intelligence - Block Chain Technology - Robotic Process Automation. Machine Learning.         9           OUTCOMES:         On successful completion of the course student will be able to:         1.         <												
control.       To gain knowledge on new IT initiatives in business.         UNIT - I       INTRODUCTION       9         Data, Information, Intelligence, Information Technology, Information System, Evolution, Types based on Functions and Hierarchy, Functional Information Systems, DSS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.         UNIT - II       SYSTEM ANALYSIS AND DESIGN       9         Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.       9         UNIT - III       DATABASE MANAGEMENT SYSTEMS       9         DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.       9         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Recurity, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         INIT - V       NEW IT INITIATIVES       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       TOTAL: 45 PERIODS         OUTCOMES:       On successful completion of the course student will be able to:       1.       Describe the basic concep	• To und	lerstand database management system.										
UNIT - I       INTRODUCTION       9         Data, Information, Intelligence, Information Technology, Information System, Evolution, Types based on Functions and Hierarchy, Functional Information Systems, DSS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.         UNIT - II       SYSTEM ANALYSIS AND DESIGN       9         Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.       9         UNIT - III       DATABASE MANAGEMENT SYSTEMS       9         DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.       9         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES:       On successful completion of the course student will be able to:       1.         0       Describe the basic concepts of data, types of information system & its application in Business.		•	s se	cur	ity a	nd						
Data, Information, Intelligence, Information Technology, Information System, Evolution, Types based on Functions and Hierarchy, Functional Information Systems, DSS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.         UNIT - II       SYSTEM ANALYSIS AND DESIGN       9         Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.       9         UNIT - III       DATABASE MANAGEMENT SYSTEMS       9         DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.       9         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES:       On successful completion of the course student will be able to:       1.         0       Describe the basic concepts of data, types of information system & its application in Business.	• To gai	n knowledge on new IT initiatives in business.										
Evolution, Types based on Functions and Hierarchy, Functional Information Systems, DSS, EIS, KMS, GIS, Expert system. System Development Methodologies: Waterfall, Spiral, Agile.         UNIT - II       SYSTEM ANALYSIS AND DESIGN       9         Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.       9         UNIT - III       DATABASE MANAGEMENT SYSTEMS       9         DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.       9         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES:       Outcomest Student will be able to:       1.         0       Describe the basic concepts of data, types of information system & its application in Business.	UNIT - I	INTRODUCTION				9						
Case Tools: System flow chart, Decision table, Data flow Diagram (DFD), Entity Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.         UNIT - III       DATABASE MANAGEMENT SYSTEMS       9         DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.       9         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         UNIT - V       NEW IT INITIATIVES       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES: ON successful completion of the course student will be able to:       1.       Describe the basic concepts of data, types of information system & its application in Business.	Evolution, T Systems, D	ypes based on Functions and Hierarchy, Functiona SS, EIS, KMS, GIS, Expert system. System	il le	nfor	mati	ion						
Relationship (ER), Object Oriented Analysis and Design (OOAD), UML diagram.         UNIT - III       DATABASE MANAGEMENT SYSTEMS       9         DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.       9         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES:       On successful completion of the course student will be able to:       1.         Describe the basic concepts of data, types of information system & its application in Business.       1	UNIT - II	SYSTEM ANALYSIS AND DESIGN				9						
DBMS: HDBMS, NDBMS, RDBMS, OODBMS, SQL: Query Processing, Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         NIT - V       NEW IT INITIATIVES       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES:       On successful completion of the course student will be able to:       1.         1.       Describe the basic concepts of data, types of information system & its application in Business.	Relationship	(ER), Object Oriented Analysis and Design (OOAD), UMI				ity						
Concurrency Management, Big Data -Hadoop Architecture. Data Warehousing and Data Mart.         UNIT - IV       SECURITY, CONTROL AND REPORTING       9         Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         NIT - V       NEW IT INITIATIVES       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES:         On successful completion of the course student will be able to:         1.       Describe the basic concepts of data, types of information system & its application in Business.		A second start and the second start should be a second start of				•						
Security, Testing, Error Detection, Controls, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.         UNIT - V       NEW IT INITIATIVES       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES:       On successful completion of the course student will be able to:       1.         Describe the basic concepts of data, types of information system & its application in Business.	Concurrency	a second s				U,						
Management, Computer Crimes, Securing the Web, Intranets and Wireless Networks, Software Audit, Ethics in IT, User Interface and Reporting.       9         UNIT - V       NEW IT INITIATIVES       9         Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.       9         OUTCOMES:       On successful completion of the course student will be able to:       1.         Describe the basic concepts of data, types of information system & its application in Business.	UNIT - IV	SECURITY, CONTROL AND REPORTING				9						
Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning.         TOTAL: 45 PERIODS         OUTCOMES:         On successful completion of the course student will be able to:         1.       Describe the basic concepts of data, types of information system & its application in Business.	Management	, Computer Crimes, Securing the Web, Intranets										
Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process Automation. Machine Learning. TOTAL: 45 PERIODS OUTCOMES: On successful completion of the course student will be able to: 1. Describe the basic concepts of data, types of information system & its application in Business.	UNIT - V	NEW IT INITIATIVES				9						
TOTAL: 45 PERIODS         OUTCOMES:         On successful completion of the course student will be able to:         1.       Describe the basic concepts of data, types of information system & its application in Business.	Mining, Bus Artificial In	Role of Information Management in ERP, E-business, E-governance, Data Mining, Business Intelligence, Pervasive Computing, Cloud Computing – Artificial Intelligence – Block Chain Technology – Robotic Process										
On successful completion of the course student will be able to:1.Describe the basic concepts of data, types of information system & its application in Business.		TOTAL	45	PEF	RIO	SC						
1. Describe the basic concepts of data, types of information system & its application in Business.	OUTCOMES: On successful	completion of the course student will be able to:	_									
	1. Descri	1. Describe the basic concepts of data, types of information system & its										

3.	Comprehend the skill of case tools and UML diagram.								
4.	Analyze the current trends in database management system and its applications.								
5.	Analyze various technologies in information system and its security.								
6.	Evaluate the knowledge on effective application of information systems in business.								
TEXT	BOOKS:								
1.	Robert Schultheis and Mary Summer, Management Information Systems – The Managers View, Tata McGraw Hill, 2008.								
2.	Kenneth C. Laudon and Jane Price Laudon, Management Information Systems – Managing the digital firm, PHI Learning / Pearson Education, PHI, Asia, 2012.								
3.	Panneerselvam. R, Database Management Systems, 3rd Edition, PHI Learning, 2018.								
4.	James O Brien, Management Information Systems - Managing Information Technology in the E-business enterprise, Tata McGraw Hill, 2004.								
REFEF	RENCES:								
1.	Raplh Stair and George Reynolds, Information Systems, Cengage Learning, 10th Edition, 2012								
2.	Frederick Gallegor, Sandra Senft, Daniel P. Manson and Carol Gonzales, Information Technology Control and Audit, Auerbach Publications, 4th Edition, 2013.								
ONLIN	E COURSES / RESOURCES:								
1.	https://onlinecourses.nptel.ac.in/noc21_mg89/preview.								
<u> </u>									

PO CO	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	3	EDUC	ATION	1	-	3	-
CO2	2	3	3	3	1	3	2	-
CO3	3	1	3	-	2	3	2	-
CO4	2	-	3	-	1	3	-	-
CO5	3	3	3	-	-	3	1	-
CO6	-	1	3	-	2	2	-	-

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21MB3107	'	MARKETING MANAGEMENT	3	0	0	3					
OBJECTIVES: To impart Knowledge on the following topics:											
	To provide an insight on the ideas and nuances of modern marketing through a systematic framework for understanding marketing management.										
<ul> <li>Bette elem</li> </ul>		understanding of the various strategies pertaining to r hts.	narl	ketir	ng n	nix					
marl pron	ket not		ice,	and	ł						
		e students with a comprehensive understanding of buyer ificance in marketing.	bel	navi	or a	nd					
with land	th sca		ing	mai	rketi						
		vide an insight on the ideas and nuances of modern main a systematic framework for understanding marketing				i.					
UNIT - I		MARKETING FOR THE 21st CENTURY				9					
Marketing Customers UNIT - II Marketing for Indust Competito	-Ir stra	ncepts - Relationship marketing,- Performance marketin ternal Marketing- Delivering and Communicating \ MARKETING STRATEGY ategy formulations - Key Drivers of Marketing Strategies I Marketing – Consumer Marketing — Services analysis - Analysis of consumer and industrial marketing in global antiparters	/alu s - ( ma arke	e t Stra rket	tegi	he 9 es					
	- 1	Aarketing in global environment - Prospects and Challe	enge	25.							
UNIT - IIIMARKETING MIX DECISIONS9Market Segmentation - Targeting and Positioning - Marketing Mix elements - Product planning and development - Product life cycle - New product Development and Management- Pricing Objectives, Policies and methods- Channel Management - The role of marketing channels- Vertical horizontal and multichannel marketing systems - Managing Integrated Marketing channels - Retailing, and wholesaling - Integrated Marketing Communication - Marketing Communication Process- Promotion mix - Advertising and Sales Promotion.9											
UNIT - IV		BUYER BEHAVIOUR				9					
Understanding industrial and individual buyer behavior - Influencing factors - Buyer Behaviour Models - Online buyer behaviour - Building and measuring customer satisfaction - Customer relationships management - Customer acquisition, Retaining, Defection.											
UNIT - V		CURRENT TRENDS IN MARKETING				9					

Marketing Information System – Marketing Research – Concepts and applications- Causerelated marketing - Ethical Issues in marketing - Digital Marketing - Emerging Online marketing trends in the current scenario.

TOTAL: 45 PERIODS

OUTC	OMES:
On suc	ccessful completion of the course student will be able to:
1.	Describe Practical application of contemporary marketing theories to the
	demandsof business environment.
2.	Comprehend the enhancement of knowledge and understanding of
	marketing strategies to be implemented for consumer and industrial
	marketing to have a competitive edge.
3.	Apply the effective usage of the various marketing mix elements and
	management of integrated marketing channels.
4.	Analyze the nature of consumer buying behaviour through the various
	influencing factors.
	Analyze the marketing research and awareness towards the current
	marketing practices at the domestic.
6.	Create the new and knowledge pertaining to the new trends in the arena of
	marketing.
TEXT	BOOKS:
-	

- 1. Philip T. Kotler and Kevin Lane Keller, Marketing Management, Prentice Hall India, 15th Edition, 2017.
  - Kotler, Keller, Koshy, Jha, (2008), Marketing Management- A South Asian Perspective, Pearson India Pvt. Ltd.
- **3.** KS Chandrasekar, "Marketing management-Text and Cases", Tata McGraw Hill Education, 2012.

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- **2.** Micheal R.Czinkota, Masaaki Kotabe, Marketing Management, Vikas Thomson Learning, 2nd edition 2006.

WEB REFERENCES:

- 1. https://unbounce.com/content-marketing
- 2. https://www.worldsupporter.org

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	-	-	-	2	-	3	-
CO2	-	-	2	3	-	1	3	-
CO3	3	-	2	2	-	1	-	3
CO4	3	I	-	3	2	I	I	2
CO5	2	-	2	3	-	2	2	3
CO6	3	-	-	-	2	2	-	2

21MB3108		INDIAN ETHOS AND BUSINESS ETHICS	L 0	Т 0	P 4	C 2
			U	U	т	
OBJEC		To impart Knowledge on the following topics:				
•		ourse aims to provide students with an understanding	) of	the		
		phical and cultural principles that shape Indian ethos.			h	
•		<ul> <li>may cover the influence of spiritual traditions and prac neditation, and mindfulness, on Indian ethos and busines</li> </ul>				as
•		ts will examine case studies and examples of ethical				in
	both tra	aditional and modern Indian businesses.				
•		e issues such as corruption, bribery, environmental				
	labor ri challen	ghts, and gender equality, and discuss strategies for add ges.	lres	sing	the	se
•		ts will develop skills in applying ethical frameworks, cond	lucti	na e	ethio	cal
		ments, and proposing ethical solutions aligned with India				
•		ourse aims to provide students with an understanding	) of	the		
	philoso	phical and cultural principles that shape Indian ethos.				
		(HG)			1.4	_
UNIT -		18 North Carl			1	2
		an Ethos and Personality Development				
	Work	ethos and values for Professional Managers				
UNIT -	11				1	2
		<ul> <li>Indian Values, Value Systems and Wisdom for mode</li> <li>Management Lessons from the Vedas, Puranas, Ind</li> </ul>				
UNIT -	III				1	2
	□ Spi	irituality in Business Management				
		Individual Culture and Ethics				
		EDUCATION				
UNIT -	IV	CN(C))C			1	2
	Eth	ical codes of conduct and value Systems				
		Loyalty and Ethical Behaviour.				
UNIT -	V				1	2
		Ethical business issues and solutions				
		Social Responsibilities of Business				
		TOTAL:	60	PEF	RIOI	DS
	OMES:	completion of the course student will be able to:				
1.	Compr	ehend the basic concepts of Indian ethos and value	syst	ems	at	
	work.					
2.	Summa perspe	rize issues of business ethics and offer solutions in eth ctives.	ical			
3.		e professionally efficient and skillful in value systems	and	cult	ure	

Solomon.           8.         "Business Ethics: A Kantian Perspective" by Norman E. Bowie.	4.	Remembering the influence of spirituality on individual values, beliefs, and ethical behavior.
<ul> <li>TEXT BOOKS:</li> <li>1. "Indian Ethos and Values for Managers" by N.S. Rao.</li> <li>2. "Indian Ethos in Management" by S.L. Gupta and V.S. Gupta.</li> <li>3. "Indian Ethos and Values: A Holistic Management Approach" by V. H. Rao.</li> <li>4. "Ethics and Indian Management: Emerging Perspectives" edited by B.N. Patnaik.</li> <li>5. "Business Ethics: Concepts, Cases, and Indian Perspectives" by A.C. Fernando.</li> <li>6. "Indian Business Ethics: Insights and Practices" by Atanu Adhikari.</li> <li>7. "Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.</li> <li>8. "Business Ethics: A Kantian Perspective" by Norman E. Bowie.</li> <li>9. "Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.</li> </ul>	5.	Summarize an ethically manage business towards well-being of the Society.
<ol> <li>"Indian Ethos and Values for Managers" by N.S. Rao.</li> <li>"Indian Ethos in Management" by S.L. Gupta and V.S. Gupta.</li> <li>"Indian Ethos and Values: A Holistic Management Approach" by V. H. Rao.</li> <li>"Ethics and Indian Management: Emerging Perspectives" edited by B.N. Patnaik.</li> <li>"Business Ethics: Concepts, Cases, and Indian Perspectives" by A.C. Fernando.</li> <li>"Indian Business Ethics: Insights and Practices" by Atanu Adhikari.</li> <li>"Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.</li> <li>"Business Ethics: A Kantian Perspective" by Norman E. Bowie.</li> <li>"Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.</li> </ol>	6.	Understand socially effective in undertaking business responsibilities.
<ol> <li>"Indian Ethos in Management" by S.L. Gupta and V.S. Gupta.</li> <li>"Indian Ethos and Values: A Holistic Management Approach" by V. H. Rao.</li> <li>"Ethics and Indian Management: Emerging Perspectives" edited by B.N. Patnaik.</li> <li>"Business Ethics: Concepts, Cases, and Indian Perspectives" by A.C. Fernando.</li> <li>"Indian Business Ethics: Insights and Practices" by Atanu Adhikari.</li> <li>"Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.</li> <li>"Business Ethics: A Kantian Perspective" by Norman E. Bowie.</li> <li>"Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.</li> </ol>	TEXT	BOOKS:
<ol> <li>Indian Ethos and Values: A Holistic Management Approach" by V. H. Rao.</li> <li>"Ethics and Indian Management: Emerging Perspectives" edited by B.N. Patnaik.</li> <li>"Business Ethics: Concepts, Cases, and Indian Perspectives" by A.C. Fernando.</li> <li>"Indian Business Ethics: Insights and Practices" by Atanu Adhikari.</li> <li>"Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.</li> <li>"Business Ethics: A Kantian Perspective" by Norman E. Bowie.</li> <li>"Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.</li> </ol>	1.	"Indian Ethos and Values for Managers" by N.S. Rao.
<ul> <li>4. "Ethics and Indian Management: Emerging Perspectives" edited by B.N. Patnaik.</li> <li>5. "Business Ethics: Concepts, Cases, and Indian Perspectives" by A.C. Fernando.</li> <li>6. "Indian Business Ethics: Insights and Practices" by Atanu Adhikari.</li> <li>7. "Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.</li> <li>8. "Business Ethics: A Kantian Perspective" by Norman E. Bowie.</li> <li>9. "Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.</li> </ul>	2.	"Indian Ethos in Management" by S.L. Gupta and V.S. Gupta.
<ul> <li>Patnaik.</li> <li>5. "Business Ethics: Concepts, Cases, and Indian Perspectives" by A.C. Fernando.</li> <li>6. "Indian Business Ethics: Insights and Practices" by Atanu Adhikari.</li> <li>7. "Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.</li> <li>8. "Business Ethics: A Kantian Perspective" by Norman E. Bowie.</li> <li>9. "Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.</li> </ul>	3.	"Indian Ethos and Values: A Holistic Management Approach" by V. H. Rao.
<ul> <li>Fernando.</li> <li>6. "Indian Business Ethics: Insights and Practices" by Atanu Adhikari.</li> <li>7. "Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.</li> <li>8. "Business Ethics: A Kantian Perspective" by Norman E. Bowie.</li> <li>9. "Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.</li> </ul>	4.	
<ol> <li>"Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.</li> <li>"Business Ethics: A Kantian Perspective" by Norman E. Bowie.</li> <li>"Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.</li> </ol>	5.	
Solomon.           8.         "Business Ethics: A Kantian Perspective" by Norman E. Bowie.           9.         "Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.	6.	"Indian Business Ethics: Insights and Practices" by Atanu Adhikari.
9. "Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B.	7.	"Ethics and Excellence: Cooperation and Integrity in Business" by Robert C. Solomon.
- · · · · · · · · · · · · · · · · · · ·	8.	"Business Ethics: A Kantian Perspective" by Norman E. Bowie.
	9.	"Spirituality, Ethics, and Care: Exploring the Intersection" edited by David B. Couturier and Thomas D. Faucher.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	1.1*	2	신민	2	*/-	-	-
CO2	- 8	2	1	15	(I).	1-	-	3
CO3	2	18	3	-	2	÷ -	-	-
CO4	-	2	HUR	- and	2	-	-	2
CO5	-	2	3	CATIO	3	-	-	-
CO6	-	3	20	25	-	-	-	-
				0				

			1	Т	Р	С					
21MB310	)	BUSINESS COMMUNICATION FOR MANAGERS	L 0	0	<b>4</b>	2					
OBJECTIV	ES	To impart Knowledge on the following topics:									
		p students to acquire some of the necessary skills to managerial roles and responsibilities.	b ha	andl	eda	у-					
		its will study different writing models and formats com	non	hz u	cod	in					
		ss communication.	non	iy u	iseu						
• Stu	ler	ts will learn the appropriate etiquette and professional co	ondu	uct							
		ed during job interviews.									
	re emperer leanere le acquire me prenelency in verbar a rien verbar										
		unication to meet out the industry standards.									
• To i	ncı	ulcate learners to master in the art of written communicat	ion.								
UNIT - I		INTRODUCTION AND TYPES OF BUSINESS			1	10					
		COMMUNICATION				-					
		to Business Communication: Principles of effective co									
		Communication - Principles of Nonverbal Co									
		dressing and body language. Role Playing, Debate									
		s and Extempore - speech of introduction, speecl									
		speech, theme speech Group communication: Mee		gs,	gro	up					
discussion	IS-	Cross Cultural Dimensions of Business Communication.									
UNIT - II		BUSINESS COMMUNICATION WRITING MODELS TOOLS				15					
		es to learn the art of writing E-mails, minutes,				of					
		ds Proposals, Memorandums, Profile of institutions,									
to enquiri	es,	complaints & applications, Business letters, Res	ume	e/C∖	/, <u>j</u>	ob					
application	10	etters, Case Studies. Exercises on Corporate Writin									
Summary		of Documents, Creative Writing, Poster Making				ng					
Auventisen	ier	ts, Slogans, Captions, Preparing Press Release and Pre	ISS I	NOLE	es.						
UNIT - III		EFFECTIVE PRESENTATIONS			1	0					
Principles of	of E	Effective Presentations, Principles governing the use o	f au	idio	visi	ual					
media.											
UNIT - IV		INTERVIEW SKILLS			1	15					
Mastering	th	e art of giving interviews in - selection or	r	blac	eme	ent					
		scipline interviews, appraisal interviews, exit interviews									
conferenci	ng.	tele-meeting. Skillset required for a successful	, i		bloy						
		Personal Relationship, Emotional Intelligence, Stress I									
		ement - Group Discussion, Structure & process of GI									
GD technie	ļue	es.									
UNIT - V		REPORT WRITING & EFFECTIVE WRITING			<u> </u>	10					
		FOR MEDIA				10					

Objectives of report, types of report, 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. Features of publication (Newspapers, magazines, newsletters, noticeboard).

#### TOTAL: 60 PERIODS

#### OUTCOMES:

On successful completion of the course student will be able to:

- **1.** Develop good managerial communication skills.
- Summarize different forms of written communication required in a business context.
- **3.** Develop good presentation skills
- 4. Create In-depth understanding of interview skills.
- 5. Comprehend the ability to prepare Business reports.
- 6. Develop the learners to speak fluently and flawlessly in all kinds of communicative contexts with all nationalities.

**REFERENCES:** 

- 1. E.H. McGrath, S.J. 2012, Basic Managerial Skills for All. 9th edition. Prentice-Hall of India New Delhi.
- 2. Josh Sreedharan. 2014, The Four Skills of Communication, Cambridge University Press, India .
- Sanjay Kumar& Pushpalatha, 2018 Communication Skills- a Workbook. Oxford University Press.
   Delandra Delandra Delandra Communication by
- **4.** Rajendra Pal, J.S.Korlahalli ,Essentials of Business Communication by, Sultan Chand & Sons, 13th Edition.
- 5. Meenakshi Raman, Prakash Singh, Business Communication by, Oxford, 2nd edition, 2012.
- 6. Raymond V. Lesikar, Flatley, Basic Business Communication Skills for Empowering the Internet Generation by, M.E., TMGH, New Delhi, 10th edition, 2004.
- WEB REFERENCES:

   1.
   www.businesscommunicationskills.com

   2.
   www.businesscmmunication.org.

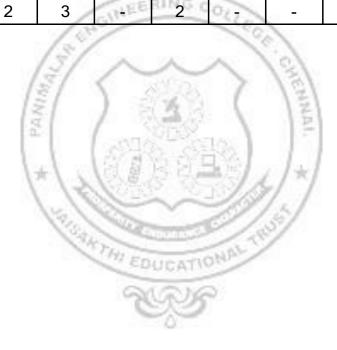
   3.
   https://learnenglishteens.britishcouncil.org/exams/grammar-and-vocabulary exams/word- formation.
- 4. https://cdn.s3waas.gov.in/s347d1e990583c9c67424d369f3414728e/uploads/ 2018/02/2018 031621.pdf

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	-	2	2	3	1	3	2
CO2	1	2	3	1	-	2	3	1
CO3	2		2	2	2	2	2	1
CO4	3	2	2	3	1	1	2	1
CO5	1	2	2	-	2	1	1	2
CO6	2	2	2	1	-	3	2	2

21MB3201	QUANTITATIVE TECHNIQUES FOR DECISION MAKING	L 3	Т 1	P 0	C 4
OBJECTIVES					
	bly quantitative techniques in modeling and solving bus	sines	ss r	elat	ed
	1 5 5	van	ced		
Learn	tical fundamentals in Operational Research how to construct mathematical models that represent re on problems accurately and effectively.	eal-\	vor	ld	
• Learn progra	different optimization methods, such as linear program mming, and nonlinear programming, to maximize ves in decision problems.				
decisio	op an understanding of decision analysis technique on trees, expected value, and utility theory, to make inform uncertainty.				
UNIT - I	INTRODUCTION TO LINEAR PROGRAMMING (LP)			1	2
problem (IP Gomory <sup>®</sup> s Me	<ul> <li>Phase), Special cases. Sensitivity Analysis. Integer p</li> <li>P):- Introduction, solution of IPP using Graphical r</li> <li>ethod. Revised simplex method.</li> </ul>			aı	nđ
UNIT - II	LINEAR PROGRAMMING EXTENSIONS			_	2
Balanced an Corner Rule optimality. So Transhipmen – Balanced a	d Unbalanced Problems – Initial Basic feasible solute, Least cost and Vogel <sup>®</sup> s approximation methods olution by MODI / Stepping Stone method. Case of I Models. Assignment Models (Minimising and Maximising	. C Deg g Pr	by hec ene robl	ÝN- k f erac ems	or y. s)
	and Unbalanced Problems. Solution by Hungarian gorithms. Travelling Salesman problem. Crew Assignme	nt N		els.	
UNIT - III		nt M			2
UNIT - III Decision mak Game Theor	gorithms. Travelling Salesman problem. Crew Assignme	unc anc	lod erta erta	1 ainty Rule	<b>2</b>
UNIT - III Decision mak Game Theor Convex Linea	gorithms. Travelling Salesman problem. Crew Assignme DECISION AND GAME THEORIES ing under risk - Decision trees - Decision making under y-Two person Zero sum games-Saddle point, Domin	unc anc ical	lod erta erta	1 ainty Rule d LF	<b>2</b>
UNIT - III Decision mak Game Theor Convex Linea solutions. UNIT - IV Inventory Mo Quantity Disc	gorithms. Travelling Salesman problem. Crew Assignme DECISION AND GAME THEORIES ing under risk - Decision trees - Decision making under y-Two person Zero sum games-Saddle point, Domin ar Combination (Averages), methods of matrices, graph	unc anc ical S	erta erta and	1 ainty Rule d LF	2 2 S),

	ing Theory - single and Multi-channel models - infinite number of
	mers and infinite calling source. Replacement Models-Individuals cement Models (With and without time value of money) – Group
	acement Models.
	TOTAL: 60 PERIODS
	OMES: ccessful completion of the course student will be able to:
1.	Comprehend the principles of Linear programming in product mix decisions
	Apply transportation networks factors such as costs, Capacities, constraints and demands.
	Apply assignment models optimization techniques such as Hungarian algorithm to solve assignment problems efficiently and effectively.
	Analysis various techniques such as Game theory and decision making under risk and certainty, uncertainty.
	Solutions of various s job sequencing techniques and apply in real time decision making.
	Evaluate the allocation of scarce resources using Queuing and replacement theories in real time scenario.
	BOOKS:
1.	Quantitatve techniques For Decision Making – Anand Sharma, Himalaya publishing house.
2.	Quantitatve TechniquesFor Decision Making - M.P Gupta And R.B Sharma 4th Edition, Prentice Hall India Private Limited.
REFE	RENCES:
1.	N. D Vohra, Quantitative Techniques in Management, TataMcgraw Hill, 2010.
2.	G. Srinivasan, Operations Research – Principles and Applications, 2nd edition, PHI,2011.
3.	Paneerselvam R., Operations Research, Prentice Hall of India, Fourth Print, 2008.
4.	Hamdy A Taha, Introduction to Operations Research, Prentice Hall
	India, Tenth Edition, Third Indian Reprint 2019.
5.	Bernard W.Taylor III, Introduction to Management Science, 9th Edition, Pearson Ed.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2	3	-	2	-	-	2	2
CO2	2	3	-	2	-	-	2	2
CO3	2	3	-	2	-	-	3	2
CO4	2	3	-	2	-	-	3	2
CO5	2	3		2		-	3	2
CO6	2	3	GINEE	2	017.0	- 15	2	2



21MB3202	FINANCIAL MANAGEMENT										
		3	0	0	3						
OBJECTIVES:											
	cate the concept of finance and its concern with investme	ent,									
	ing and dividend decision. vide the concepts of capital budgeting, the appraisal of	can	ital								
	ing decisions and the role of cost of capital in it.	cup	itai								
To Explain various sources of finance, dividend policy and capital structure.											
<ul> <li>To imp forecase</li> </ul>	art knowledge on the working capital management and n st	nake	e the	em t	0						
<ul> <li>To Exp market</li> </ul>	lain various sources of finance and basic knowledge abo s	out c	apit	al							
UNIT - I	FOUNDATIONS OF FINANCE			9							
Financial ma Future and pr	Finance, organization of financial functions, o anagement, Major financial decisions - Time value resent value of securities - Concept of risk and return.										
UNIT - II	INVESTMENT DECISIONS			9							
Specific cost a	of DCF techniques Concept and measurement of cos and overall cost of capital. (Simple Problems)		ταμ								
UNIT - III	FINANCING AND DIVIDEND DECISION			9							
Determinants measuremen Combined lev Dividend deo Irrelevance th	ture - Theories - Features and Approaches of capital of Capital structure. Leverages - Operating and Financiant of leverages – degree of Operating & Financia verage, EBIT - EPS Analysis- Indifference point. (simplicitation - Issues in dividend decisions, Importance, F meories - Walter's Model, Gordon's model and MM mo Factors determining dividend policy - Types of divide dend.	ial le I lev le P Rele odel	ever /era robl van . (Si	rage age ems ce imp	; - ;). & le						
UNIT - IV	WORKING CAPITAL MANAGEMENT			9							
estimation of and factoring	vorking capital: Concepts, Types, Needs, Determinants working capital (Problems) - Accounts Receivables – Inventory management – Cash management – Wo e credit, Bank finance and Commercial paper.	Mar	age	eme	nt						
UNIT - V	LONG TERM SOURCES OF FINANCE			9							
	and stock market, New issues market. Sources of res, debentures and term loans, lease Finance, hir al financing.		•								

	TOTAL: 45 PERIODS
OUTC	COMES:
On su	ccessful completion of the course student will be able to:
1	Comprehend the basic concepts of Financial management and applying to take
	managerial decisions making.
2	Apply the various techniques of Managing finance in an organization and
	explore certain issues in Capital budgeting.
3	Evaluate the relationship between capital structure and cost of capital
4	Comprehend the aspects of dividend decision and determinants of appropriate Dividend Policy
5	Analyze the importance of working capital management and forecast the
	Requirements of working capital.
6	Summarize the characteristics of various sources of long-term financing.
0	
TEXT	BOOKS:
1	Khan, M.Y. and P.K. Jain, Financial Management-Text and Problems, 8th Edition., Tata McGraw Hill Publishing Co., New Delhi, 2017.
2	Srivastava. R.M., Financial Management, Himalaya Publication House, Mumbai, 2016.
REFE	RENCES:
1	Eugene F. Brigham & Michael C. Ehrhardt, Financial Management: Theory and Practice, Cengage Publication, 2015.
2	James C Van Horne, Fundamentals of Financial Management, 13th Edition, PHI Learning Publisher, New Delhi, 2015.
3	Kuchhal, S.C., Financial Management, Allahabad, Chaitanya Publishing House, 2014.
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5	Prasanna Chandra, Financial Management: Theory and Practice, Tata McGraw Hill, 2014.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	2	-	-	2	3	3	3
CO2	2	3	3	-	-	1	2	-
CO3	-	3	1	-	-	2	3	3
CO4	2	-	-	-	1	3	-	-
CO5	-	3	-	-	-	-	2	-
CO6	1	1	-	-	3	2	3	2

21MB	3203	HUMAN RESOURCE MANAGEMENT	L 3	Т 0	P 0	C 3				
OBJEC	TIVES:									
•	manag	ourse aims to introduce students to the field of hur ement and provide an understanding of its strategic s zations.								
•		niliarize students with the theoretical frameworks, mod ots that underpin effective HRM practices	dels,	an	d					
•	Involve	e examining case studies, discussing contemporary HRI g HRM theories and concepts to practical scenarios.	M is	sue	s, a	nd				
•	Develo	Develop students' skills in assessing an organization's workforce needs, conducting job analysis, and implementing effective recruitment and selection strategies to attract and retain talented individuals								
•	perform	students how to establish performance expectati nance appraisals, provide feedback, and implement pe ement strategies.				uct				
UNIT -		PERSPECTIVES IN HRM			8					
Functi Enviro	ons o onmenta	tion of HRM, Concept, Nature, Scope, Object f Human Resource Management - Challenges al, Organizational and Individual - Role of HR manager - ands of HRM in globalized economy and cross cultural environment	of HR	f l poli						
UNIT -	11	HR PLANNING			9					
Foreca and E	asting h External	<ul> <li>Importance of HRP, Job analysis, Job evaluation, Juman resource requirement - matching supply and dem sources - Talent Acquisition: Recruitment Sources &amp; acept and Procedure - induction - Socialization benefits.</li> </ul>	and	- In	tern	al				
UNIT -	III	TRAINING AND EXECUTIVE DEVELOPMENT	•		8					
develo	opment:	es of training methods, purpose, benefits and resistand Executive development programme, , Benefits, Self-development, and Knowledge ma	Со	o m	m o					
UNIT -	IV	COMPENSATION & PERFORMANCE EVALUATION	NC		1	0				
Compensation: Concepts, Types, Factors determining compensation, Compensation plan, and Reward. Performance evaluation: Methods of performance evaluation, Feedback, Industry practices: Promotion, Demotion, Transfer and Separation.										
UNIT -	V	FUTURE OF WORK PLACE			1	0				
Implic	Career management – Development of mentor – Protégé relationships - Implication of job change. Emerging Trends in HR: CSR, Green HR, Work Life Balance (WLB), Computer applications in HRM, HR and Artificial Intelligence (AI).									
		TOTAL	: 45	PEF		DS				
OUTCO On suc		completion of the course student will be able to:			-	-				

1	Students will gain knowledge and skills needed for success as a HR professional.
2	Students would understand the significance of talent acquisition in organizations and the need to enhance individual talent.
3	Enhance knowledge and influence of training and development towards workplace Productivity.
4	Expose the students to understand the various areas of self-development.
5	Students would have understood how performance is evaluated in organizations and the issues related to putting up theory into practice in the workplace.
6	Students would be aware of the emerging concepts in the field of HRM.
TEXT	BOOKS:
1	Decenzo and Robbins, Fundamentals of Human Resource Management, Wiley, 11 <sup>th</sup> Edition, 2013.
2	Gary Dessler, Human Resource Management, Pearson Education Limited, 14th Edition, 2015.
3	Uday Kumar Haldar, Juthika Sarkar. Human Resource management. Oxford. 2012.
4	Durai, P. (2016). Human Resource Management. New Delhi: Pearson Education.
5	Aswathappa, K. (2010). Human Resource Management- Text &Cases. New Delhi: TataMcGraw-Hill.
6	David A. DeCenzo& Stephen P.Robbins, Personnel/Human Resource Management, Third edition, PHI/Pearson, 2006.
7	VSP Rao, Human Resource Management: Text and cases, 3rd Edition, Excel Books, New Delhi - 2010.
REFE	RENCES:
1	Luis R.Gomez-Mejia, David B.Balkin, Robert L Cardy. Managing Human Resource. PHI Learning. 2012.
2	Bernadin , Human Resource Management ,Tata Mcgraw Hill ,8th edition 2012.
3	Wayne Cascio, Managing Human Resource, McGraw Hill, 2007.
4	Ivancevich, Human Resource Management, McGraw Hill 2012.
5	Dr. R.Venkatapathy&AssissiMenacheri, Industrial Relations &Labour Welfare, Adithya Publications, CBE, 2001.
6	Robert L.Gibson and Marianne H.Mitchell, Introduction to Counseling and Guidance, VI edition, PHI, 2005.
7	Jhon Bernardinl, Human Resource Management: An experiential approach, Special Indian Edition, 2007, Tata McGraw Hill, New Delhi.
8	Deepak Kumar Bhattacharya, Human Resource Management, 2nd Edition, 2006, Excel Books, New Delhi.
WEB F	REFERENCES:
1.	https://www.coursera.org/specializations/human-resource-management

2.	https://www.futurelearn.com/courses/introduction-to-engagement-and- motivation-at-work
3.	https://onlinecourses.nptel.ac.in/noc20 mg15/preview

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	-	-	-	3	2	1	-
CO2	2	-	2	1	2	2	-	-
CO3	-	-	1	-	3	2	2	-
CO4	2	-	2	2	2	-	1	-
CO5	-	3	2	2	3	2	-	-
CO6	2	-/3		1	1	1.	2	-



21MB3	204	OPERATIONS MANAGEMENT	3 1 0	-					
OBJECT									
d	iscipli	e students with an overview of operations manage ne, its significance in organizations, and its role zational goals.							
n	nanag	<ul> <li>students to understand the principles of capacity ement, including techniques for forecasting demand ty requirements, and optimizing resource allocation.</li> </ul>							
S	Explore tools and methodologies such as total quality management (TQM), statistical process control (SPC), and Six Sigma for improving and maintaining quality.								
		arize students with the concept of operations strategy and erall business strategy.	d its alignm	ent					
UNIT - I		INTRODUCTION TO OPERATIONS MANAGEME Management – Nature, Importance, historical of		8					
	y – S	functions, challenges, current priorities, recent trends strategic fit, framework. Productivity; World- class m							
UNIT - II		OPERATIONS AND THE VALUE CHAIN		13					
Selectio	ives, n, Loo deci	tools for Capacity planning. Facility Location – Theor cation Models. Sourcing and procurement - Strategic sc sion, procurement process, managing vendors. S	ies, Steps ourcing, ma	in ike					
UNIT - III		DESIGNING OPERATIONS		15					
approac	:h- to	gn - Criteria, Approaches. Product development process ols for efficient development. Process - design, str lity Layout -Principles, Types, Planning tools and technic	ategy, type						
UNIT - IV	/	PLANNING AND CONTROL OF OPERATIONS	<b>}</b>	15					
of Qual planning	litative g - In nts - I	recasting – Need, Types, Objectives and Steps e And Quantitative methods. Operations planning ventory Planning and Control. Operations Scheduling bottlenecks, capacity constrained resources, synchrono	- Resour	rce					
UNIT - V		QUALITY MANAGEMENT		9					
philosop Manage	ohies; ement	of quality, The Quality revolution, quality gu Quality management tools, certification and av - philosophy, elements of JIT manufacturing, Six sigma.	wards. Le	QM ean ous					
		TOTAL	: 60 PERIO	DS					

OUTC	OMES:						
	ccessful completion of the course student will be able to:						
1	Comprehend the strategic importance of operations function leading to						
	competitive advantage.						
2	Understand facility alternatives (location and layout) and the capacity						
3	decisions. Apply the various methods of Designing products and processes.						
_							
4	Deduce different plans for the operations						
5	Apply techniques for forecasting and scheduling of jobs and services.						
6	Comprehend OM practices to comply with quality standards.						
TEXT	BOOKS:						
1	Richard B. Chase, Ravi Shankar, F. Robert Jacobs, Operations and Supply Chain Management, McGraw Hill Education (India) Pvt. Ltd, 14th Edition, 2014.						
2	Mahadevan B, Operations management: Theory and practice. Pearson Education India; 2015.						
REFE	RENCES:						
1	William J Stevenson, Operations Management, Tata McGraw Hill, 9th Edition, 2009.						
2	Russel and Taylor, Operations Management, Wiley, 5th Edition, 2006.						
3	Norman Gaither and Gregory Frazier, Operations Management, South Western Cengage Learning,9th edition, 2015.						
4	Cecil C. Bozarth, Robert B. Handfield, Introduction to Operations and Supply Chain Management, Pearson, 4th Edition, 2016.						
5	Panneerselvam. R, Production and Operations Management, 3rd Edition,. PHI Learning, 2012.						
WEB F	REFERENCES:						
1.	https://www.open.edu/openlearn/money-business/business-strategy- studies/introduction- operations-management/content-section-0						
2.	https://courses.lumenlearning.com/wm- introductiontobusiness/chapter/facility-location- and-layout/						
3.	https://www.designorate.com/stage-gate-new-product-development-process/						
4.	https://pressbooks.senecacollege.ca/operationsmanagement/chapter/forecas						
	ting/						
5.	https://www.isixsigma.com/						
ONLI	NE COURSES / RESOURCES:						
1	https://alison.com/course/advanced-diploma-in-production-and-operation- management						
2	https://www.ioscm.com/courses/manufacturing-courses/						
3	https://www.edx.org/course/operations-management						
4	https://www.classcentral.com/course/swayam-production-and-operation- management-17747						

COPO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	-	-	2	-	1	-
CO2	2	3	-	-	-	-	2	-
CO3	-	3	-	-	-	-	3	-
CO4	-	-	-	-	-	-	2	-
CO5	2	3	-	-	-	-	-	-
CO6	1	1	-	-	2	-	3	-

21MB3205	BUSINESS RESEARCH METHODS	L 3	Т 0	P 0	C 3							
OBJECTIVES												
	ble students to understand basic concepts of Research.											
	art students with strategies for managing research											
	• To be equipped with scientific methodology in business inquiry and develop											
analyti	<ul> <li>analytics skill in Business research</li> <li>To familiarize the students with application of statistical tools in husiness</li> </ul>											
resear	research											
To impart the skills for scientific communications in research and to prepare scientific business reports												
UNIT - I	INTRODUCTION				8							
of Research	search - Definition and Significance - the research pro - Research questions / Problems - Research objective - the role of theory in research.											
UNIT - II	RESEARCH DESIGN AND MEASUREMENT			12	2							
experimenta Variables ir Constructior	arch design - Descriptive and experimental design - different al design – Validity of findings – internal and extern an Research – Measurement and scaling – Different a of instrument Validity and Reliability of instrument.	nal v	alid	ity ∋s	_							
UNIT - III	DATA COLLECTION				7							
- Constructio	a - Primary Vs Secondary data - Methods of primary da n of questionnaire - Sampling plan - Sample size - o ple size - sampling techniques - Probability Vs No ethods.	deter	min	ant	S							
UNIT - IV	DATA PREPARATION AND ANALYSIS			12	2							
test - test of analyses - M Confirmatory Conjoint Ana	ation – editing – Coding -Data entry – Validity of data unidimensionality - Multicollinearity - Qualitative Vs Qua fultivariate statistical techniques - Exploratory Facto / Factor Analysis – Discriminant analysis – cluste lysis - Introduction to Structured Equation Modelling software for data analysis - MS Excel, SPSS, AMOS, R	ntita r an r an - Ap	tive alys alys plica	dat is sis atio	a & 							
UNIT - V	REPORT DESIGN, WRITING AND ETHICS IN BUS RESEARCH	INES	S		6							
Research re ethics in rese	port - Different types - Contents of report - the role of earch.	faud	ieno	ce -	_							
	TOTAL	: 45 F	'ER		DS							
OUTCOMES:	completion of the course student will be											
On successful completion of the course student will be 1 Explain the various stages of research process and types to solve business												
problem 2 Apply 3	ms appropriate research design to address a specific researd		<u>abla</u>	m								
		n hi	JUIG	111								

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3	Apply various measurement scales and instrument construction for a
	given business situation.
4	Analyze appropriate methods to collect qualitative and quantitative data for
	analysis.
5	Application of appropriate statistical tools for managerial decision making and
	hypothesis testing.
6	Design and present the business research report and acknowledge the ethical
	implications of the research.
TEXT	BOOKS:
1	Donald R. Cooper, Pamela S. Schindler and J K Sharma, Business
	Research methods,11 <sup>th</sup> Edition, Tata Mc Graw Hill, New Delhi, 2012.
2	Uma Sekaran and Roger Bougie, Research methods for Business, 5th
	Edition, Wiley India, New Delhi, 2012.
REFE	RENCES:
1	Alan Bryman and Emma Bell, Business Research methods, 3rd
•	Edition, Oxford University Press, New Delhi, 2011.
2	William G Zikmund, Barry J Babin, Jon C.Carr, AtanuAdhikari, Mitch Griffin,
_	Business Research methods, A South Asian Perspective, 8th Edition,
	Cengage Learning, New Delhi, 2012.
3	Panneerselvam. R, Research Methodology, 2nd Edition, PHI Learning, 2014.
4	Barbara M. Byrne, Structural Equation Modeling with AMOS -
	Basic Concepts, Applications, and Programming, Third Edition, Routledge,
	T&F Group, 2016.
5	David M. Levine et al, "Statistics for Managers using MS Excel" (6th
	Edition) Pearson, 2010.
6	Robert I. Kabacoff, R in Action - Data Analysis and Graphics with
	R, Manning Publication Company, New York, 2011.
7	Arnab Kumar Laha, A Note on Test of Normality, IIT Ahmedabad
ONLIN	E COURSES / RESOURCES:
1.	https://onlinecourses.nptel.ac.in/noc21_hs85/preview
2.	https://onlinecourses.nptel.ac.in/noc21_ge15/preview
3.	https://onlinecourses.swayam2.ac.in/nou21_cm03/preview
L	

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	3	-	-	-	-	-	-
CO2	3	-	-	-	3	2	-	2
CO3	3	3	-	-	2	2	-	3
CO4	3	3	-	-	2	3	-	-
CO5	-	2	-	-	-	2	-	-
CO6	3	-	-	-	3	-	-	2

21MB320	06	BUSINESS ANALYTICS	L 3	Т 0	F			
			3	0	Ľ	<u>' </u> `	2	
OBJECTI								
		urse aims to provide students with a solid foundation in ncepts of business analytics.	the	prir	ncip	oles		
		learning statistical techniques, data visualizations, and data mining methods.	n,	pre	dic	tive		
• Co Ex	ourse cel,	may aim to familiarize students with popular analytics SQL, R, Python, or Tableau, and provide hands-on onese tools for data analysis and visualization.						
stu	udent	size developing critical thinking and problem-solving skil is analyze complex business situations, identify pattern decisions				ata-		
be		keep students informed about emerging trends, technactices in the field, preparing them to adapt to the evolution ape.						
UNIT - I		INTRODUCTION TO BUSINESS ANALYTICS (B	A)			9	1.	
Business Organiza		nalytics - Terminologies, Process, Importance al Decision Making, BA for Competitive Advantage.	;,				with	
UNIT - II		MANAGING RESOURCES FOR BUSINESS ANALY	ΤIC	S		9		
change ir		\★\、、(以翻》》》(录)/★/	iity	and			_	
UNIT - III		DESCRIPTIVE ANALYTICS				9		
Statistics	s - Sa	<ul> <li>Descriptive analytics - Visualizing and Exploring Data mpling and Estimation - Probability Distribution for Desc Analysis of Descriptive analytics</li> </ul>			rip	tive		
UNIT - IV		PREDICTIVE ANALYTICS				9	-	
Predictive	e Ana	to Predictive analytics - Logic and Data Drive alysis Modeling and procedure - Data Mining for nalysis of Predictive analytics					_	
UNIT - V		PRESCRITIVE ANALYTICS				9		
		<ul> <li>Prescriptive analytics - Prescriptive Modeling - Non Li</li> <li>Demonstrating Business Performance Improvement.</li> </ul>	nea	r				
		TOTAL	45	PEF	RIC	DS	_ ,	
OUTCOM		completion of the course student will be able to:						
1 Ab	oility t	completion of the course student will be able to: o understand the role of business analytics in decision n	naki	ng a	and		-	
		n solving to achieve the organizational goal.					_	
2 Ability to use analytical tools and technology for to identify business opportunity.								

3	Ability to apply descriptive analytics for to find new opportunities in
	organization and solve operational problem.
4	Understand predictive analytics and its application for finding future
	opportunities.
5	Knowledge of prescriptive analytics and demonstrating business process
	improvement and to understand optimal resource allocation for to increase
	business performance.
6	Ability to comprehend the application of business analytics process to
	identify new opportunity and driving organization decision.
IEXI	BOOKS:
1	James R. Evans, "Business Analytics - Methods, Models and Decisions",
	Pearson Ed, 2012.
DEEE	
REFE	RENCES:
1	Marc J. Schniederjans, Dara G. Schniederjans and Christopher M.
	Starkey, "Business Analytics Principles, Concepts, and Applications -
	What, Why, and How", Pearson Ed, 2014.
2	Christian Albright S and Wayne L. Winston, "Business Analytics - Data Analysis and Decision Making", Fifth edition, Cengage Learning, 2015.
	E COURSES / RESOURCES:
1	https://online.hbs.edu/courses/business-analytics/
2	https://www.udemy.com/courses/business/analytics-and-intelligence/
3	https://online-learning.harvard.edu/course/business-analytics?delta=0
4	https://onlinecourses.nptel.ac.in/noc20_mg11/preview
5	https://onlinecourses.swayam2.ac.in/imb20_mg19/preview
	3. 5. 5.

	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	1	2	61	220	5	1	-	2
CO2	-	3	0	2	-	1	-	1
CO3	1	2	-	-	-	-	-	2
CO4	1	2	-	2	-	1	-	2
CO5	1	2	-	1	-	1	-	2
CO6	2	2	-	1	-	2	-	1

OBJECTIVES: To impart Knowledge on the following topics:         •       To have hands-on experience on decision modeling, Spreadsheet Software and Data Analysis Tools.         •       To develop students proficiency in utilizing software tools such as SPSS. POM (Production and Operations Management) for conducting data analysis and business models.         •       The laboratory aims to provide hands-on experience and practical skills in data analyze data, derive insights, and make informed business decisions.         S.No.       Exp. No.       Details of experiments       Duration         •       Name       1       1       Descriptive Statistics       4         2       2       Hypothesis - Non-parametric       4         3       3       Hypothesis - Non-parametric       4         4       4       Correlation & Regression       4         5       5       Forecasting       4         6       -       Extended experiment - 1       4         7       6       Financial Formulae       4         10       -       Extended experiment - 2       4         11       9       Factor Analysis - EFA & CFA       4         10       -       Extended experiment - 2       4         11       9       Factor Analysis - EFA & CFA       4	21ME	3214	DATA A	NALYSIS AND BUSINESS MODELING	L 0	Т 0	P 4	C 2					
<ul> <li>To have hands-on experience on decision modeling, Spreadsheet Software and Data Analysis Tools.</li> <li>To develop students proficiency in utilizing software tools such as SPSS, POM (Production and Operations Management) for conducting data analysis and building business models.</li> <li>The laboratory aims to provide hands-on experience and practical skills in data analysis and business modeling, enabling students to effectively analyze data, derive insights, and make informed business decisions.</li> <li>S.No. Exp. No. Details of experiments Duration</li> <li>Name</li> <li>1</li> <li>1</li> <li>Descriptive Statistics</li> <li>4</li> <li>2</li> <li>2</li> <li>4</li> <li>4</li> <li>4</li> <li>Correlation &amp; Regression</li> <li>4</li> <li>5</li> <li>5</li> <li>Forecasting</li> <li>4</li> <li>6</li> <li>Extended experiment - 1</li> <li>4</li> <li>7</li> <li>6</li> <li>Financial Formulae</li> <li>4</li> <li>9</li> <li>8</li> <li>Networking Models</li> <li>4</li> <li>10</li> <li>Extended experiment - 2</li> <li>4</li> <li>11</li> <li>9</li> <li>Factor Analysis - EFA &amp; CFA</li> <li>4</li> <li>12</li> <li>10</li> <li>Structured Equation Modeling</li> <li>4</li> <li>4</li> <li>11</li> <li>11</li> <li>11</li> <li>11</li> <li>11</li> <li>12</li> <li>10</li> <li>Structured Equation Modeling</li> <li>4</li> <li>4</li> <li>4</li> <li>13</li> <li>11</li> <li>Linear Programming</li> <li>4</li> <li>4</li> <li>14</li> <li>12</li> <li>Inventory Models</li> <li>4</li> <li>14</li> <li>12</li> <li>Inventory Models</li> <li>4</li> <li>15</li> <li>Extended experiments - 3</li> <li>4</li> <li>OUTCOMES:</li> <li>On successful completion of the course student will be able to:</li> <li>11</li> <li>Comprehend the nature of data and conduc</li></ul>	OBJEC		To impart l	Knowledge on the following topics:									
and Data Analysis Tools.         To develop students proficiency in utilizing software tools such as SPSS.         POM (Production and Operations Management) for conducting data analysis and building business models.         The laboratory aims to provide hands-on experience and practical skills in data analysis and business modeling, enabling students to effectively analyze data, derive insights, and make informed business decisions.         S.No.       Exp. No.       Details of experiments       Duration         1       1       Descriptive Statistics       4         2       2       Hypothesis - Parametric       4         3       3       Hypothesis - Non-parametric       4         4       4       Correlation & Regression       4         5       5       Forecasting       4         6       -       Extended experiment - 1       4         7       6       Financial Formulae       4         9       8       Networking Models       4         10       -       Extended experiment - 2       4         11       9       Factor Analysis - EFA & CFA       4         12       10       Structured Equation Modeling       4         13       11       Linear Programming       4         14       12       Inv	•				heet	So	ftwa	re					
POM (Production and Operations Management) for conducting data analysis and building business models.         •       The laboratory aims to provide hands-on experience and practical skills in data analysis and business modeling, enabling students to effectively analyze data, derive insights, and make informed business decisions.         S.No.       Exp. No.       Details of experiments       Duration         1       1       Descriptive Statistics       4         2       2       Hypothesis - Parametric       4         3       3       Hypothesis - Non-parametric       4         4       4       Correlation & Regression       4         5       5       Forecasting       4         6       -       Extended experiment - 1       4         7       6       Financial Formulae       4         9       8       Networking Models       4         10       -       Extended experiment - 2       4         11       9       Factor Analysis - EFA & CFA       4         11       10       Structured Equation Modeling       4         11       9       Factor Analysis - EFA & CFA       4         12       10       Structured Equation Modeling       4         13       111       Linear Programming													
and building business models.         •       The laboratory aims to provide hands-on experience and practical skills in data analysis and business modeling, enabling students to effectively analyze data, derive insights, and make informed business decisions.         S.No.       Exp. No.       Details of experiments       Duration         1       1       Descriptive Statistics       4         2       2       Hypothesis - Parametric       4         3       3       Hypothesis - Non-parametric       4         4       4       Correlation & Regression       4         5       5       Forecasting       4         6       -       Extended experiment - 1       4         7       6       Financial Formulae       4         8       7       Transportation & Assignment       4         9       8       Networking Models       4         10       -       Extended experiment - 2       4         11       9       Factor Analysis - EFA & CFA       4         12       10       Structured Equation Modeling       4         14       12       Inventory Models       4         15       -       Extended experiments - 3       4         OUTCOMES:       Ourcompretend	•												
<ul> <li>The laboratory aims to provide hands-on experience and practical skills in data analysis and business modeling, enabling students to effectively analyze data, derive insights, and make informed business decisions.</li> <li>S.No. Exp. No. Details of experiments Duration</li> <li>Name</li> <li>1</li> <li>1</li> <li>Descriptive Statistics</li> <li>4</li> <li>2</li> <li>2</li> <li>Hypothesis - Parametric</li> <li>4</li> <li>4</li> <li>Correlation &amp; Regression</li> <li>4</li> <li>5</li> <li>5</li> <li>Forecasting</li> <li>4</li> <li>6</li> <li>Extended experiment - 1</li> <li>4</li> <li>7</li> <li>6</li> <li>Financial Formulae</li> <li>4</li> <li>4</li> <li>Proceasting</li> <li>4</li> <li>6</li> <li>Extended experiment - 1</li> <li>4</li> <li>4</li> <li>9</li> <li>8</li> <li>Networking Models</li> <li>4</li> <li>11</li> <li>9</li> <li>Factor Analysis - EFA &amp; CFA</li> <li>4</li> <li>4</li> <li>12</li> <li>10</li> <li>Extended experiment - 2</li> <li>4</li> <li>13</li> <li>11</li> <li>Linear Programming</li> <li>4</li> <li>14</li> <li>12</li> <li>Inventory Models</li> <li>4</li> <li>15</li> <li>Extended experiments - 3</li> <li>4</li> <li>OUTCOMES:</li> <li>On successful completion of the course student will be able to:</li> <li>Comprehend the nature of data and conducting hypothesis testingusing various data analysis techniques.</li> <li>Analyze and identify the relationship between variables using data analytical tools.</li> <li>Apply the forecasting in real time business world using analytical tools.</li> <li>Apply the forecasting in real time business data.</li> <li>Apply the forecasting in real time business data.</li> <li>Apply the ordicat portfolio selection based on business data.</li> <li>Apply networking, inventory models and queuingtheory usin</li></ul>					data	a ar	alys	sis					
data analysis and business modeling, enabling students to effectively analyze data, derive insights, and make informed business decisions.         S.No.       Exp. No.       Details of experiments       Duration         1       1       Descriptive Statistics       4         2       2       Hypothesis - Parametric       4         3       3       Hypothesis - Non-parametric       4         4       4       Correlation & Regression       4         5       5       Forecasting       4         6       -       Extended experiment - 1       4         7       6       Financial Formulae       4         8       7       Transportation & Assignment       4         9       8       Networking Models       4         10       -       Extended experiment - 2       4         11       9       Factor Analysis - EFA & CFA       4         12       10       Structured Equation Modeling       4         14       12       Inventory Models       4         15       -       Extended experiments - 3       4         0UTCOMES:       On successful completion of the course student will be able to:       1         1       Comprehend the nature of data and cond			<b>T</b>										
analyze data, derive insights, and make informed business decisions.         S.No.       Exp. No.       Details of experiments       Duration         1       1       Descriptive Statistics       4         2       2       Hypothesis - Parametric       4         3       3       Hypothesis - Non-parametric       4         4       4       Correlation & Regression       4         5       5       Forecasting       4         6       -       Extended experiment - 1       4         7       6       Financial Formulae       4         8       7       Transportation & Assignment       4         9       8       Networking Models       4         10       -       Extended experiment - 2       4         11       9       Factor Analysis - EFA & CFA       4         12       10       Structured Equation Modeling       4         13       11       Linear Programming       4         14       12       Inventory Models       4         15       -       Extended experiments - 3       4         OUTCOMES:       On successful completion of the course student will be able to:       1         1       Co	•												
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2	David R. Anderson, et al, "An Introduction to Management Sciences: Quantitative approaches to Decision Making, (13th edition) South-Western College Pub, 2011.
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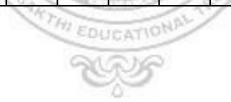
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<ul> <li>To provide practical opportunities for students to participate in rural community mobilization, service engagement and empowerment activities.</li> <li>To promote preparation of strategies for building resilience and community responding system in nutrition including water, food safety and healthcare.</li> <li>To orient the students into Village Development Plans and handling susceptibility of rural communities to impending emergencies arising out of natural and manmade disasters, climate variability.</li> <li>COURSE CONTENT:         <ol> <li>Dynamics of Rural Society: Social, Economic, political and cultural</li> <li>Community Goal setting : Inner Engineering</li> <li>Participatory Learning and social mapping: Approaches and project management, concept and steps, Thematic maps</li> <li>Village development including aspects and process of preparation of village disaster management plan</li> <li>Resource Mapping: Natural and Human resource mapping and management</li> <li>Rural Institutions: Engagement with school/ street/ Health centre / Panchayat/ SHGs</li> <li>Disaster Management; Disaster Preparedness- Risk for programmes / Corruption</li> <li>Disaster Management; Disaster Preparedness- Risk for professional Intervention - Partnership with Public, for Private and Non-governmental organizations</li> </ol> </li> <li>Understand the social, economic, political and cultural framework of the rural society.</li> <li>Address the challenges with suitable solutions in the identified rural issues.</li> <li>Students will develop a comprehensive understanding of participatory learning as an educational approach that actively involves learners in the learning process.</li> </ul> <li>A for the social, economic, political and cultural framework of the rural society.</li> <li>Address the challenges with suitable solutions in the identified rural issues.</li>										0	0	4	2
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COURSE CONTENT:       1.       Dynamics of Rural Society: Social, Economic, political and cultural       6         2.       Community Goal setting : Inner Engineering       6         3.       Participatory Learning and social mapping: Approaches and methods, community project proposal and project management, concept and steps, Thematic maps       12         4.       Village development including aspects and process of preparation of village disaster management plan       6         5.       Resource Mapping: Natural and Human resource mapping and management       6         6.       Rural Institutions: Engagement with school/ street/ Health centre for / Panchayat/ SHGs       6         7.       Community Awareness: Health & Hygience/ Rights/ Policies & for Programmes / Corruption       6         8.       Disaster Management: Disaster Preparedness- Risk reduction, Rehabilitation- Physical and Psychological aspects       6         9.       Professional Intervention- Partnership with Public, for Private and Non-governmental organizations       6         TOTAL: 60 PERIODS         OUTCOMES:         On successful completion of the course student will be able to:         1       Understand the social, economic, political and cultural framework of the rural society.         2       Address the challenges with suitable solutions in the identified rural issues.         3       Students will develop a comprehensive unde		suscep	tibility of ru	ural comm	unities	s to im	pending	g emerge					
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Psychological aspects       Professional       Intervention-Partnership       with       Public,       6         9.       Professional       Non-governmental organizations       TOTAL: 60 PERIODS         DUTCOMES:         On successful completion of the course student will be able to:         1       Understand the social, economic, political and cultural framework of the rural society.         2       Address the challenges with suitable solutions in the identified rural issues.         3       Students will develop a comprehensive understanding of participatory learning as an educational approach that actively involves learners in the learning process.         4       Engage in rural community development programmes.         5       Ability to create community awareness on health and hygiene and disaster management.         6       Knowledge on establishing professional intervention.	ð.							S- KISK				O	
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Private and Non-governmental organizations         TOTAL: 60 PERIODS         OUTCOMES:         On successful completion of the course student will be able to:         1       Understand the social, economic, political and cultural framework of the rural society.         2       Address the challenges with suitable solutions in the identified rural issues.         3       Students will develop a comprehensive understanding of participatory learning as an educational approach that actively involves learners in the learning process.         4       Engage in rural community development programmes.         5       Ability to create community awareness on health and hygiene and disaster management.         6       Knowledge on establishing professional intervention.	9.					Partne	rship	with	Publi	c,		6	
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6 Knowledge on establishing professional intervention.		Ability	o create co						jiene a	nd c	lisas	ster	
	6	•		ablishing	profes	sional i	nterven	ition					
	_				p. 9.00	5.51.011							
REFERENCES:	REFE	RENCES	6: 										

6.	Common core curriculum for Rural Engagement, National council of Rural
	Institutes, MHRD, GOI.
7.	Katarsingh and Anil Shishodia, "Rural development: Principles, Policies
	and Management", Sage publications , 2016.
8.	A Azeez & S.M.J Akhtar, " Rural development in India", Kalpaz publications,
	2016.
9.	Transforming rural India, Ministry of Rural Development, GOI.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	-/	3	3	3	10	13	-	3
CO2	12	2	2	2	>	181	-	3
CO3	ANI	2	2	3	1	NA	-	3
CO4	1-1	3	2	- 3	32	1	-	2
CO5	4	3	3	3	1	14	-	3
CO6	-19	3	3	3	I)	5/	-	3



21MB				Т	Р					
	33207	ENTREPRENEURSHIP DEVELOPMENT	с 3	0	Р 0	3				
OBJEC	CTIVES:	To impart Knowledge on the following topics:								
•		ip and develop the learners entrepreneurial skills and al to undertake business.	qual	ities	ì					
•		art the learners entrepreneurial competencies needed ting business efficiently and effectively.	for							
UNIT -		ENTRÉPRENEURAL COMPETENCE				9				
Entrepreneurship concept - Entrepreneurship as a Career - Entrepreneurial Personality - Characteristics of Successful Entrepreneurs - Knowledge and Skills of an Entrepreneur.										
UNIT -	UNIT - II ENTREPRENEURAL ENVIRONMENT									
Devel	opment	ironment - Role of Family and Society - Entrepreneurship Training and Other Support Organisational Services - ( ment Industrial Policies and Regulations.		ral	and					
UNIT -		BUSINESS PLAN PREPARATION				9				
Evalua UNIT - Finan and C	ation Cr IV ce and Channel	epreneur with theProject - Feasibility Report Preparation iteria. LAUNCHING OF SMALL BUSINESS Human Resource Mobilisation - Operations Plannin Selection - Growth Strategies - Product Launching - Incu al, Start-ups.	ng -	Ma	rke	9 t				
UNIT -	V	MANAGEMENT OF SMALL BUSINESS				9				
Monite	oring an bilitation	d Evaluation of Business - Business Sickness - Prevention of Business Units - Effective Management of small Busi			ase	-				
		TOTAL:	45	PEF	١O	DS				
	OMES:									
OUTCO On suc	ressful	completion of the course student will be able to.								
	Compr	completion of the course student will be able to: ehend the entrepreneurial competence to run the busines	SS							
On suc	Compr efficien The lea	ehend the entrepreneurial competence to run the busines tly. Inners are able to undertake businesses in the entreprene		1						
On suc 1	Compr efficien The lea enviror The lea	ehend the entrepreneurial competence to run the busines tly. Inners are able to undertake businesses in the entreprene Iment Inners are capable of preparing business plans and unde	euria			ble				
On suc 1 2	Compr efficien The lea enviror The lea project	ehend the entrepreneurial competence to run the busines tly. Inners are able to undertake businesses in the entreprene Iment Inners are capable of preparing business plans and unde s. Inners are efficient in launching and develop their busines	euria ertako	e fea						

6	Capability to construct new paradigms by applying the acquired knowledge
TEXT	BOOKS:
3.	S.S.Khanka, Entrepreneurial Development, S.Chand and Company Limited, New Delhi, 2016.
4.	R.D.Hisrich, Entrepreneurship, Tata McGraw Hill, New Delhi, 2018.
REFE	RENCES:
1	Rajeev Roy, Entrepreneurship, Oxford University Press, 2nd Edition, 2011
2	Donald F Kuratko, T.V Rao. Entrepreneurship: A South Asian perspective. Cengage Learning, 2012.
3	Dr. Vasant Desai, "Small Scale Industries and Entrepreneurship", HPH, 2006.
4	Arya Kumar. Entrepreneurship, Pearson, 2012.
5	Prasanna Chandra, Projects - Planning, Analysis, Selection, Implementation and Reviews, Tata McGraw-Hill, 8th edition, 2017.
ONLIN	IE COURSES / RESOURCES:
1	https://onlinecourses.swayam2.ac.in/cec20_mg19/preview
2	https://online-learning.harvard.edu/subject/entrepreneurship
3	https://alison.com/courses/entrepreneurship
4	https://www.udemy.com/courses/business/entrepreneurship/
5	https://nptel.ac.in/courses/110/106/110106141/
6	https://nptel.ac.in/courses/110/107/110107094/
7	https://nptel.ac.in/courses/110/105/110105067/

	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2	2	VI En		2	2	2	3
CO2	-	3	100	IL ALL	-	-	-	2
CO3	3	-	3	2	3	-	-	-
CO4	-	-	1	0	-	2	3	-
CO5	1	2	2	3	3	2	-	2
CO6	-	2	-	2	-	2	3	-

21MB3208	IMB3208CORPORATE GOVERNANCELTP300								
OBJECTIVES	<u> </u>	5	U	0 3					
<ul> <li>This c parado</li> </ul>	ourse will help to explore, recognize and understand exes related to the study and application of corporate g zations.			•					
organiz	ourse will help to relate the corporate government practice zation to its performance								
corpora	niliarize the students with the understanding of issues an ate governance in the global and Indian context.		ctic						
UNIT - I	CONCEPTUAL FRAMEWORK OF CORPORAT GOVERNANCE g Corporate Governance: Corporate governance – a		muid	9					
History of co view of corpo and privilege corporate gov and cash flow	rporate governance-Concept of corporations -Concept rate citizenship, Owners and stakeholders, Types of ow es of shareholders (Fernando, 4), Ownership stru- vernance- Pyramids and Tunneling:- Issues of corpo v rights- Examples from restructure proposals of Vedar estor protection	of ext ners, ctures rate	enc Rig a con	led hts and					
UNIT - II	THEORIES AND PRACTICE OF CORPORATE GOVERNANCE	Ξ		9					
and overview of governanc Model - Ger Corporate Go	ectors - Importance of Independent Directors	ontrol lo-An erger	mo nerio nce	del can of					
UNIT - III	ADMINISTRATIVE AND AUDIT MECHANISM			9					
<ul> <li>Nomination</li> <li>Executive Condition</li> <li>Governance-</li> </ul>	ittees and Chairman - Separation OF CEO & Board C n Committee - Board Selection - Boards Performance ompensation - Role of Remuneration Committee - Hu Financial Oversight and Audit Mechanisms - Audit echanisms - Role of SEBI	e Eva man	ilua Sid	tion- e of					
UNIT - IV	GOVERNANCE METHODS AND RATING			9					
Misconduct & of whistle-blo blower legisla Rating • St	and Risk Management • Risk Management Committee & Misgovernance- Reasons for Corporate Misconduct - owing; types of whistle-blowers; whistle-blower policy; ation across countries; developments in India. Corporate andard & Poor's Corporate Governance Scores Rating Methodology (CRISIL)	The ( the Gove	Con whi erna	cept stle-					
UNIT - V	GOVERNANCE ISSUES AND PRACTICE			9					

Governance of Financial Organizations & PSU"s- Organizational patterns of PSU"s - Powers of PSU Boards - Governance issues in Entrepreneurial Firms - Unique issues among entrepreneurial forms- Choosing Board of Directors and Venture capitalists - Role of venture capitalists and buy- outs- Corporate Governance in Practice - Governance issues in MNC"s & Joint Ventures

TOTAL: 45 PERIODS

OUTC	OMES:
	ccessful completion of the course student will be able to:
1	Comprehend the purpose and nature of corporations.
2	Summarize various stakeholder's roles and significance in relations to corporate governance
3	Comprehend the administrative mechanisms involved in corporate governance.
4	Understand the importance of regulation, markets and information in corporate governance
5	Comprehend the corporate governance methods and practices.
6	Summarize governance concerns for individual corporation and their stakeholders
TEXT	BOOKS:
1	Mandal, S.K (2012). Ethics in Business and Corporate Governance, 2/e; New Delhi:McGraw Hill Education.
2	Cadbury, Adrian, Corporate Governance and Chairmanship: a personalview, Oxford University Press, 2003.
REFE	RENCES:
1	Chandratre, K R and A N Navare, Corporate Governance - A Practical Handbook, Bharat Law House Pvt. Ltd., 2010 Edn
2	Saleem Sheikh & William Rees, Corporate Governance & CorporateControl, Cavendish Publishing Ltd., 1995
3	Fernando, A.C (2012). Corporate Governance: Principles, Policies and Practices, 2/e; New Delhi: Pearson 6. Jain, Arun K (2010). Corporate Governance: Strategy and Ethics, New Delhi: McGraw Hill Education
WEB F	REFERENCES:
4.	https://corpgov.law.harvard.edu/2016/09/08/principles-of-corporate- governance/
5.	https://hbr.org/2015/03/corporate-governance-2-0
6.	https://www.corpgov.net/2015/05/corporate-governance-in-india/

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	-	-	-	-	-	-	-
CO2	-	3	3	2	-	2	2	-
CO3	3	3	-	3	-	-	3	-
CO4	2	2	3	-	-	3	3	-
CO5	-	-	-	-	-	-	-	3
CO6	-	-	-	3	-	3	-	3

				Т	Ρ	0
21ME	3209	EVENT MANAGEMENT	3	0	0	3
			5	U	0	
OBJEC	CTIVES:					
•	This co	ourse is designed to provide an introduction to the princi	ples	of e	ever	ıt
	manag					
•	The co	urse aims to impart knowledge on the various events a	nd h	OW	thes	se
		can be organized successfully.				
UNIT -						9
		olution - Types of events - MICE - Types of Meeting, T Exhibitions- Structure of event industry - Event Mana				
		Perspectives on event : Government, Corporate & Comr				
of Eth		cispectives on event : dovernment, corporate à comi	num	Ly	000	
UNIT -	II	<b>EVENT PLANNING &amp; LEGAL ISSUES</b>				9
		zing the event – Host, sponsor, Media, Guest, P				
		Crew - Design of concept - Theme and content de				
		- Event objectives - Initial planning - Budgeting - Ever				
		klist - Preparation of functional sheets - Timing - Co			s an	d
Agree	ements -	Insurance, Regulation, Licence and Permits - Negotia	tion	•		
UNIT -	111	EVENT MARKETING				9
		tegic Marketing Planning - Pricing - Marketing Co	mm	unic		•
		udget - Elements of marketing communication - Managi				
		on - Role of Internet - Sponsorship - Event sponsorshi				
		ponsorships – Measuring & Evaluating sponsor				
		on & Presentation Skills, Written communications, (C				
officio		a tandar propagal) Varbal communications Drago				
and u	ise of co	omputer in events				
UNIT -		EVENT OPERATION				9
			Sta	20		
		n - Types of location - Venue Requirements - Room, ing, Performers, Decors, Caterer, Photography & V				
		Guest list - Guest demographics - Children at event				
		elance Event Operation – Road show - Food &				
		t - Event Logistics - Supply of facilities - Onsite logistic			•	
		cs - Evaluation & Logistics.				
UNIT -		SAFETY & EVENT EVALUATION				9
		nent - Safety officer, Medical Manager - Venue, Struc				
		- Occupational safety – Fire Prevention – Sanitar				
		c - Waste Management. Event Impact - Event Evalua	tion	Pro	ces	S
- Serv		lity - Customer Satisfaction.				
		TOTAL	: 45	PEF	101	วร
OUTC	OMES:					
		completion of the course student will be able to:				

1	Comprehend to Learn about structure and code of ethics of events
2	Exploring and getting to know about event planning and regulations
3	Develop an understanding of functional sheets and their importance in project planning and execution.
4	Understand about event marketing, planning and strategies
5	Evaluate professional skills in event management
6	Analyze the safety measure of event management
TEXT	BOOKS:
1	Lynn Van Der Wagen, Event Management for Tourism, Cultural Business & Sporting Events, 4 th Edition, Pearson Publications, 2014.
2	Lynn Van Der Wagen, & Brenda R. Carlos, Sucessful Event Management.
3	Judy Allen, Event Planning 2nd Edition, Wiley & Sons, Canada, 2014.
REFE	RENCES:
1	John Beech, Sebastian Kaiser & Robert Kaspar, The Business of Events Management, Pearson Publication, 2014.
2	Judy, Event Planning Ethics and Etiquette: A Principled Approach to the Business of Special Event Management, 2014.
3	Shannon Kilkenny, The complete guide to successful event planning.
WEB F	REFERENCES:
1	https://onlinecourses.swayam2.ac.in/nou20_ge01/preview
2	https://institute-of-event-management.com/event-management-resources
3	https://ncert.nic.in/textbook/pdf/lehe209.pdf
4	http://www.ignouhelp.in/ignou-devmt-study-material/

	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2	1	3	NY	2	2	1	1
CO2	3	1	2		2	1	1	1
CO3	1	1	3	-	2	1	1	2
CO4	ვ	2	3	-	3	1	2	2
CO5	3	1	1	-	1	1	1	-
CO6	2	1	2	-	2	1	-	1

21MB3	210	MICRO AND SMALL BUSINESS MANAGEMENT	L 3	Т 0	P 0	C 3
OBJECT	TIVES:					
		iliarize students with the theory and practice of small bus ement.	ines	S		
	Γο lear operati		imp	act		
UNIT - I		INTRODUCTION TO SMALL BUSINESS			9	9
Busines sector- -eleme Entrepr	ss -Ro Differe nts o reneur s to ne	IS A A A A	nall nall E p -T bar busi	bus Busi ype riers	ines nes es c s an	ss s of d
UNIT - II		SCREENING THE BUSINESS OPPORTUNITY AND FORMULATING THEBUSINESS PLAN				9
failure; to the e strategy develop	New early-s y form oment.	opportunity recognition; Key factors leading to n venturescreening process; Applying new venture scree stage small firm Role planning in small business – in nulation – management skills for small business of Small Enterprises in International Business - Export Do or Small Enterprises - E-commerce and Small Enterprise	npo crea	g pro rtan tion	ce c an	ss of d
UNIT - II	1	BUILDING THE RIGHT TEAM AND MARKETING STRATEGY				9
group c building coachin - succe generat manage	develo g - Con ng and ss stra ting sy ement	and Leadership – employee assessments – Tuckman pment - The entrepreneurial process model - Delegati nparison of HR management in small and large firms - I how to apply a coaching model. Marketing within the sr ategies for small business marketing - customer delight rstems, - market research, - assessing market perform and strategy - the marketing mix and marketing strates in Micro Enterprises.	ion a Impo nall and mane	and ortan busi bus ce-	tear ice c ines ines sale	n of s ss
UNIT - IN	V	FINANCING SMALL BUSINESS			9	9

Main sources of entrepreneurial capital; Nature of "bootstrap" financing Difference between cash and profit - Nature of bank financing and equity financing - Funding-equity gap for small firms. Importance of working capital cycle -Calculation of break-even point - Power of gross profit margin- Pricing for profit - Credit policy issues and relating these to cash flow management and profitability.

UNIT - V

## VALUING SMALL BUSINESS AND CRISIS MANAGEMENT

9

Causes of small business failure - Danger signals of impending trouble -Characteristics of poorly performing firms - Turnaround strategies Concept of business valuation - Different valuation measurements - Nature of goodwill and how to measure it - Advantages and disadvantages of buying an established small firm - Process of preparing a business for sale.

	TOTAL: 45 PERIODS
	OMES:
On suc	ccessful completion of the course student will be able to:
1	Comprehend the students with the concept of small business.
2	Analyze In depth knowledge on small business opportunities and challenges.
	Summarize proficiency in the procedures and processes involved inexporting goods as a small enterprise.
	Ability to devise plans for small business by building the right skills and marketing strategies.
5	Analyze and Identify the funding source for small start-ups.
	Comprehend the principles andmethodologies used in valuing small businesses.
TEXT	BOOKS:
1	Hankinson, A. (2000). "The key factors in the profile of small firm owner-
	managers that influence business performance. The South Coast
	Small Firms Survey, 1997-2000." Industrial and Commercial Training
	32(3):94-98.
2	Parker, R. (2000). "Small is not necessarily beautiful: An evaluation of
	policy support for small and medium-sized enterprise in Australia." Australian Journal of Political Science 35(2):239-253.
REFE	RENCES:
1	Barrow C. The Essence of Small Business, Prentice Hall of India, New Delhi, 1997.
2	Poornima M Charanthimath, Entrepreneurship Development Small
	Business Enterprises, Pearson, 3e, 2019.

	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	2	-	2	2	3	-	2
CO2	-	-	-	2	2	3	-	2
CO3	-	-	-	2	2	3	-	1
CO4	2	3	-	2	3	2	1	2
CO5	1	2	-	1	1	2	-	-
CO6	1	2	-	2	1	3	-	-

21ME	33211	FUZZY LOGIC FOR MANAGEMENT DECISIONLTPMAKING30									
OBJE	CTIVES:										
•		ly the fundamentals of fuzzy logic to apply in manageme n making.	nt								
UNIT -	·I	FUZZY SETS				9					
		Definitions & Terminologies - Formulation and Paramet Functions - Fuzzy Union, Intersection and Complement.	eriz	atio	n of	:					
UNIT -	· II	FUZZY RULES AND REASONING				9					
		nciple and Fuzzy Relations - Linguistic Variables and F Compositional rule of inference and fuzzy reasoning.	uzzy	/ If-							
UNIT -	· III	FUZZY APPLICATIONS IN MANAGEMENT DECIS	ION	S		9					
	/ Models ion mak	<ul> <li>Mamdani and Sugeno models. Applications in Manage ing.</li> </ul>	eme	nt							
UNIT -	· IV	ADAPTIVE NEURO FUZZY INFERENCE SYSTE	MS			9					
fertiliz	zation -	ecture - Hybrid Learning Algorithm - ANFIS and RBFI ANFIS as a Universal Approximator.	N CI	OSS							
UNIT -	-	COACTIVE NEURO FUZZY MODELING				9					
comp	arisons.	Generalized ANFIS - multiple I/O Systems, Architectura Neuron functions for Adaptive networks - Neuro-Fuzz Adaptive Learning Capability.	y Sj								
		TOTAL	: 45	PEF	rio	DS					
	OMES:	completion of the course student will be able to:									
1 011 Suc		completion of the course student will be able to: ehend the basics and terminologies of fuzzy.									
2	=	stand the principles and relations of fuzzy.									
3	Evalua	te the proficiency in designing and implementing fuzzy rustices and the second states of the second systems of the second states of the	ule-								
4		ehend the applications of fuzzy.									
5	Analyz	e the architecture of adaptive neuro fuzzy inference syste	em.								
6	Analyz situatio	e the neuro-fuzzy systems to management decision management decision management decision management decision ma	akin	g							
TEXT	BOOKS	:									
1	Compu	S.R., Sun C.T. and Mizutani E, Neuro-Fuzzy and Southing - A computational Approach to Learning and Machir ence, Pearson Education, 2007.									
REFE	RENCES										
1	Sunda	reswaran K, A Learner's guide to Fuzzy Logic Systems, . ning House,2005.	Jaico	C							

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2	-	-	1	3	-	-	2
CO2	2	-	-	1	2	-	-	2
CO3	-	2	-	3	3	-	-	2
CO4	I	2	I	1	2	I	I	1
CO5	-	2	-	2	2	-	-	-
CO6	-	2	-	1	1	-	-	1

21MB3212	INTELLECTUAL PROPERTY RIGHTS	3	0	0	3			
OBJECTIVES								
Studer	nts will develop a foundational understanding of intellec	tual	pro	pert	y			
	significance in various industries and sectors.							
	ers will gain knowledge of the national and international la ions governing intellectual property rights.	ws a	nd					
UNIT - I					9			
	roperty rights - Introduction, Basic concepts, Patents	Со	pyri	ght	s,			
	Trade Secrets, Geographic Indicators; Nature of Intellect							
	I Research, Inventions and Innovations, History - the wa PS. The Role and Liabilities of IPRs in India	ay tro	om	VV I (	0			
UNIT - II	PROCESS			-	9			
	ments in IPR, Procedure for grant of Patents, TM, G							
	t Cooperation Treaty, Administration of Patent syste oreign countries. Contemporary Issues in IPR-Interface							
	ion Law, IPR and sustainable development, The Impact of							
	es in Biotechnology, E-Commerce and IPR issues							
UNIT - III	STATUTES							
	Treaties and conventions on IPRs, The TRIPs Agre	omo	nt		9 T			
	The Patent Act of India, Patent Amendment Act (2005),							
•	Act, Geographical Indication Act, Bayh- Dole Act ar		<u> </u>					
	trepreneurship – Enforcement of Intellectual Property Rig							
UNIT - IV	STRATEGIES IN INTELLECTUAL PROPERTY	(			9			
Strategies for	r investing in R&D, Patent Information and data	bas	es,	IP	R			
	idia, Traditional Knowledge - Cyber laws: Criminal law							
Security.	y, health privacy, freedom of expression and human rig	jnts,	na	lona	aı			
occurry.	1995							
UNIT - V	MODELS				9			
	gies Know-how, concept of ownership, Significance of							
	Valuation and IP Valuation Models, Application of ategic Decision Making, Transfer and Licensing. Techr			•				
	pment in Intellectual Property	loiog	lica	an	u			
5								
	TOTAL:	45 F	PEF		DS			
OUTCOMES:	TOTAL:	45 F	PEF		DS			
On successful	completion of the course student will be able to:							
On successful								
On successful 1 Compre	completion of the course student will be able to:							
On successful 1 Compre 2 Create	completion of the course student will be able to: hend the intellectual property and appreciation of the nee							

5	Ability to apply models for making strategic decisions related to IPR
6	Analyze latest technological advancements and their impact on intellectual
	property.
TEXT	BOOKS:
1	V. Sople Vinod, Managing Intellectual Property by (Prentice hall of India Pvt.Ltd), 2006.
2	Intelluctual Property rights and copyrights, EssEss Publications.
3	Intellectual Property Rights – Unleashing the knowledge economy, Prabhuddha Ganguli, Tata McGraw Hill Publishing Company Ltd.
4	A. Primer, R. Anita Rao and Bhanoji Rao, Intelluctual Property Rights, Lastain Book company.
REFE	RENCES:
1	Edited by Derek Bosworth and Elizabeth Webster, The Management of Intellectual Property, Edward Elgar Publishing Ltd., 2006.
2	WIPO Intellectual Property Hand book.
WEB I	REFERENCES:
1	www.wipo.int
2	library.jgu.edu.in
3	eprints.rclis.org
ONLIN	E COURSES / RESOURCES:
1	Cyber Laws
-	
2	Corporate Contracts
	Corporate Contracts Online certificate course on intellectual property (IPPro)
2	

		PO2				DOG		
	FUI	FUZ	F03	FU4	FUS	FUU	F07	FU0
CO1	1	2	-	3	-	1	-	2
CO2	2	2	-	2	-	3	-	1
CO3	1	2	-	-	-	1	-	2
CO4	1	2	-	1	-	1	-	3
CO5	2	2	-	-	-	2	-	1
CO6	1	1	-	2	-	1	-	3

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21MB3213	SUSTAINABLE MANAGEMENT									
OBJECTIVES	BJECTIVES: To impart Knowledge on the following topics:									
To provide students with fundamental knowledge of the notion of corporate										
	nability.		ipoi	ato						
	termine how organizations impacts on the environment a			)-						
techni	cal systems, the relationship between social and environ	men	tal							
	mance and competitiveness, the approaches and method	ds.								
UNIT - I	MANAGEMENT OF SUSTAINABILITY				9					
Management of sustainability -rationale and political trends: An introduction sustainability management, International and European policies on sustainab development, theoretical pillars in sustainability management studies.										
UNIT - II	CORPORATE SUSTAINABILITY AND RESPONSIB	ILIT	Y		9					
Corporate sustainability perimeter, corporate sustainability institutional framework, integration of sustainability into strategic planning and regular business practices, fundamentals of stakeholder engagement - CSR-Legislation in India and the World Section 135 of Companies Act 2013.Scope for CSR Activities under Schedule VII, Appointment of Independent Directors on the Board, and Computation of Net Profit's Implementing Process in India.										
UNIT - III	SUSTAINABILITY MANAGEMENT: STRATEGIES AND APPROACHES				9					
oriented cor between the strategies, E approaches	sustainability management and competitiveness: Socrate strategies, markets and competitiveness, Green ory and practice, Sustainable Consumption and Green nvironmental regulation and strategic postures; Green and tools; Green engineering: clean technologies an ustainable Supply Chain Management and Procurement	Man en N Man	age /lark age	eme ketir eme	nt Ig nt					
ÚNIT - IV	SUSTAINABILITY AND INNOVATION				9					
	cal transitions and sustainability, Sustainable entre pioneers in green market niches, Smart communitien ns.									
UNIT - V	SUSTAINABLE MANAGEMENT OF RESOURCES, COMMODITIES AND COMMONS				9					
Energy management, Water management, Waste management. Concepts of Ecology, Sustainability, NRM, CPR, Livelihood, Culture and Sustainable Development Cultural ecology and Ethno-ecology Theoretical and Methodological Approaches in NRM Climate Change, Natural Calamity and Social Adaptation Disaster issues Indigenous Knowledge and Natural Resource Management Depletion of Natural Resources and Livelihood Policy and Natural Resource Management: Water, Forest, Mining and Land Gender and Livelihood and Displacement and Rehabilitation.										
TOTAL: 45 PERIOD										

OUTC	OMES:
	ccessful completion of the course student will be able to:
1	Comprehend sustainability management as an approach to aid in evaluating and minimizing environmental impacts while achieving the expected social
	impact.
2	Analyze the corporate sustainability and responsible Business Practices
3	Knowledge and skills to understand, to measure and interpret sustainability performances.
4	Comprehend green engineeringprinciples and practices.
5	Summarize the Knowledge of innovative practices in sustainable business and community Management
6	Analyze sustainable management of resources and commodities
TEXT	BOOKS:
1	Daddi, T., Iraldo, F., Testa, Environmental Certification for Organizations and Products: Management, 2015
2	Christian N. Madu, Handbook of Sustainability Management 2012
3	Petra Molthan-Hill, The Business Student's Guide to Sustainable Management: Principles and Practice, 2014
REFE	RENCES:
1	Margaret Robertson, Sustainability Principles and Practice, 2014
2	Peter Rogers, An Introduction to Sustainable Development, 2006
WEB F	REFERENCES:
1	http://www.ignouhelp.in/ignou-pgdesd-study-material/
2	https://www.cisl.cam.ac.uk/education/learn-online/business-sustainability- management- online-short-course
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2	3	2	3	-	1	-	3
CO2	-	2	3	1	-	1	-	2
CO3	2	-	2	3	-	2	-	2
CO4	2	-	3	1	-	1	-	1
CO5	2	1	-	-	-	3	-	-
CO6	2	2	-	-	-	2	-	-

21ME	33301	STRATEGIC MANAGEMENT	L	Т	P	C						
			3	0	0	3						
OBJEC	DBJECTIVES:											
•	<ul> <li>Expose the students to the fundamental concepts of strategy and the process of strategic management.</li> </ul>											
•	enviror	e the students with the current trends in the gl ment by enriching their understanding towards changes o have a sustained competitive advantage										
٠		on of knowledge regarding Selection of various Stra ate and Business Level	ateg	ies	at	the						
٠	-	ic implementation and evaluation with emphasis on systems	Stru	ictu	re a	ind						
٠	Unders	tanding of Strategic issues pertaining to current trends										
UNIT -	I	STRATEGY AND PROCESS				9						
Strates Purpos	gy Forn se - Bus	mework for strategic management, the Concept of Str nation Process - Stakeholders in business - Vision, iness definition, Objectives and Goals - Corporate Go sibility - case study.	Mi	ssic	n a	nd						
UNIT -	11	COMPETITIVE ADVANTAGE				9						
Buildin	g Block etitive A	apabilities and Competencies-Low cost and differentia s of Competitive Advantage- Distinctive Competencies dvantage - Avoiding failures and sustaining Competitiv	- D	urat	oility	of ر						
UNIT -		TYPES OF STRATEGIES AND TECHNIQUES			1	11						
Corpor Strateg (ETOP (SAP)	rate Stra gic anal ) - Org – Corp	e Global Environment - Building and Restructuring the ategies - Diversification and Integration - Business lev lysis and Choice - Environmental Threat and Oppo anizational Capability Profile (OCP) - Strategic Adva orate Portfolio Analysis – SWOT Analysis – GAP A amework - GE 9 Cell Model - Balance Score Card-Cas	el s rtun anta anta	trate iity ge ysis	egie Pro Pro 8 – 1	es - file file						
UNIT -	IV	STRATEGY IMPLEMENTATION & EVALUATION	1			9						
Structu Strateg	ure-Desi gy-Imple	ntation process, Resource allocation, Designing C igning Strategic Control Systems- Matching Structure a ementing Strategic Change-Politics-Power and Conflic valuation & Control-case study.	and	Cor	ntro	l to						
UNIT -	V	OTHER STRATEGIC ISSUES				7						
Managing Technology and Innovation - Strategic issues for Non Profit organisations. New Business Models and strategies for Internet Economy - Strategic Management in the current scenario of a globalized economy.												

	TOTAL: 45 PERIODS
OUTCO	OMES:
On suc	cessful completion of the course student will be able to:
1.	Comprehend the Strategic management process in business
	organizations, its governance and social responsibility
2.	Understand the various strategic issues by analyzing the
	impact of external and internal environmental factors on business and
	industry
	Apply the impact of current trends in business and the necessity for
	developing competitive advantage
	Evaluate the strategies at business and corporate level through various tools and techniques
	Comprehend awareness in monitoring and development of suitable control
	systems required for organizational strategy implementation
6.	Design insights in application of relevant strategies to develop and manage
	new business models, Technology and innovation
TEXT E	BOOKS:
1.	Hill. Strategic Management: An Integrated approach, 2009 Edition Wiley,
	2012.
2.	John Pearce, Richard Robinson and Amitha Mittal, Strategic Management,
	McGraw Hill, 12th Edition, 2012
REFER	RENCES:
1.	John A. Parnell. Strategic Management, Theory and practice Biztantra, 2012.
2.	Azhar Kazmi, Strategic Management and Business Policy, 3rd Edition, Tata
	McGraw Hill, 2008
3.	Adriau H. Aberberg and Alison Rieple, Strategic Management Theory &
	Application, Oxford University Press, 2008.
4.	Lawerence G. Hrebiniak, Making strategy work, Pearson, 2nd edition, 2013.
5.	Gupta, Gollakota and Srinivasan, Business Policy and Strategic
	Management - Concepts and Application, Prentice Hall of India, 2005.
6.	Dr. DharmaBir Singh, Strategic Management & Business Policy, KoGent
	Learning Solutions Inc., Wiley, 2012.
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## CO-PO mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	-	-	3	-	2	-
CO2	3	3	1	2	-	3	2	-
CO3	2	3	-	3	3	-	2	2
CO4	3	3	3	2	3	3	2	-
CO5	2	-	-	3	-	-	2	3
CO6	-	-	3	-	3	3	3	2

01145	2200		-	L	Т	Ρ	С				
	33302	INTERNATIONAL BUSINESS MANAGEMEN	I	3	0	0	3				
OBJE	CTIVES:										
•	То ехр	ose students to various facets of international busing	ness.								
٠	• To understand the multinational dimensions in management of a MNC										
		Company and the business operations in more than one country.									
•	busine	To measure various control mechanisms / approaches in international business									
•	areas	Icate knowledge about international functions acr					ain				
•		derstand ethical issues and conflict resolut tional business	ion te	echi	niqu	les	in				
UNIT -	1	AN OVERVIEW OF INTERNATIONAL BU	SINES	SS			9				
Interna Benefi	ational B t of Glo	drivers of International Business - Changir usiness- Country attractiveness - Trends in Globa balization - International Institution: UNCTAD B nents, Role of IMF, Features of IBRD, Role and Ac	alizatio asic F	on - Princ	Effe ciple	ecta esa	and and				
UNIT -	II	THEORIES OF INTERNATIONAL TRADE AND	INVES	ТМ	EN٦	Г	9				
Investr Instrum	ment: F nents of	Cost Theory, Hecksher - Ohlin Theory-Theories roduct Life Cycle, Eclectic, Market Power, Trade Policy: Voluntary Export Restraints, Admini v, Balance of Payment.	Intern	atio	nali	satio	on-				
UNIT -	111	GLOBAL ENTRY					9				
ONIT - IIIGLOBAL ENTRY9Strategic compulsions Strategic options - Global portfolio management- Global entry strategy, different forms of international business, advantages - Organizational issues of international business - Organizational structures - Controlling of international business, approaches to control - Performance of global business, performance evaluation system.											
UNIT -	IV	PRODUCTION, MARKETING, FINANCIALS ( BUSINESS	of Gl	OB/	۹L		9				
Global production: Location, scale of operations - cost of production- Standardization Vs Differentiation - Make or Buy decisions - global supply chain issues - Quality considerations. Globalization of markets: Marketing strategy - Challenges in product development - pricing- production and channel management. Foreign Exchange Determination Systems: Basic Concepts-types of Exchange Rate Regimes - Factors Affecting Exchange Rates.											
UNIT -	V	HUMAN RESOURCE MANAGEMENT IN INTE BUSINESS	RNAT	ION	IAL		9				

Selection of expatriate managers - Managing across cultures - Training and development - Compensation - Disadvantages of international business - Conflict in international business - Sources and types of conflict - Conflict resolutions - Negotiation - Ethical issues in international business - Ethical decision making.

## TOTAL: 45 PERIODS

	TOTAL: 45 PERIODS
OUTC	OMES:
On su	ccessful completion of the course student will be able to:
1.	Describe the theories of trade and investment practices in the competitive global world
2.	Explain In Depth knowledge of dynamic factors of international Business
3.	Applying deep Insights in to various market entry strategies followed by Global Organizations in cutting edge technology.
	Analyze the various global productions and supply chain issues and have an understanding of foreign exchange determination system in digital environment.
5.	Estimate with standard practices in international business governance ethically across borders
	Creating awareness in monitoring the development of international business ventures and research.
TEXT	BOOKS:
1.	Charles W.I. Hill and Arun Kumar Jain, International Business, 6th edition, Tata McGraw Hill, New Delhi, 2010.
2.	K. Aswathappa, International Business, 5th Edition, Tata Mc Graw Hill, New Delhi, 2012.
REFE	RENCES:
1.	Michael R. Czinkota, Ilkka A. Ronkainen and Michael H. Moffet, International Business, 7th Edition, Cengage Learning, New Delhi, 2010.
2.	John D. Daniels and Lee H. Radebaugh, International Business, Pearson Education Asia, New Delhi, 12th edition.
3.	Rakesh Mohan Joshi, International Business, Oxford University Press, New Delhi, 2009.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	-	-	3	-	1	
CO2	2	3	1	2	-	1	2	-
CO3	-	1	2	-	3	2	1	-
CO4	2	3	-	3	2	-	2	2
CO5	_	1	3	2	-	2	3	3
CO6	-	-	2	-	2	-	-	2

21MB3390										
2 1 1 1 1	22290	CREATIVITT AND INNOVATION LABORATORT	0	0	4	2				
OBJE	CTIVES:	To impart Knowledge on the following topics:								
•		erstand the nuances involved in Creativity & Innovation.	<u> </u>							
To get hands on experience in applying creativity in problem solving.										
•	To Stu	dy a problem from multiple perspectives in creativity.								
•	То ехр	lain the fundamental concept of innovation and design th	inki	ng						
٠	To disc	cuss the methods of implementing design thinking in the i	real	wor	ld.					
UNIT -	•	INTRODUCTION				9				
directe individ innova	ed creat ual and tion, ba	ative and innovative thinking for quality – Essential ivity, Components of Creativity, Methodologies and group creativity, Organizational role in creativity arriers to innovation, innovation process, establishing creativity & innovation.	∣ap ty,	opro typ	ach es	es, of				
UNIT -	·	MECHANISM OF THINKING AND VISUALIZATIO	N			9				
elemer symme - proc - virtu	nts and etry. Spa edure fo ial envi	nd Actions that support creative thinking - Advanced s principles- line, plane, shape, form, pattern, texture gra atial relationships and compositions in 2 and 3 dimer or genuine graphical computer animation - Animation a ronments in scientific Visualization – Unifying prin for scientific visualization - Visualization benchmarki	idati nsioi nero cipl	ion, nal dyn	colo spa ami	our ce cs				
UNIT -	·	CREATIVITY				9				
Nature of Creativity: Person, Process, Product and Environment, Methods and tools for Directed Creativity - Basic Principles - Tools that prepare the mind for creative thought – stimulation – Development and Actions: - Processes in creativity ICEDIP - Inspiration, Clarification, Distillation, Perspiration, Evaluation and Incubation - Creativity and Motivation The Bridge between man creativity and the rewards of innovativeness - Applying Directed Creativity.										
UNIT -	· IV	CREATIVITY IN PROBLEM SOLVING				9				
Generating and acquiring new ideas, product design, service design - case studies and hands-on exercises, stimulation tools and approaches, six thinking hats, lateral thinking – Individual activity, group activity, contextual influences. Assessing Your Personal Creativity and Ability to Innovate, Enhancing Your Creative and Innovative Abilities										
UNIT -	· V	INNOVATION				9				

Innovation- radical vs evolutionary,- Introduction to TRIZ methodology of Inventive Problem Solving – the essential factors – Innovator's solution – creating and sustaining successful growth - Disruptive Innovation model - Segmentive Models -New market disruption - Managing the Strategy Development Process - The Role of Senior Executive in Leading New Growth - Passing the Baton, Entrepreneurial Tools for Creativity and Innovation.

			-
TOTAL:	45	PERIODS	

OUTC	OMES:
1.	Summarize the insights about approaches to creativity and innovation
2.	Understanding of heuristic models and its applications
3.	Comprehend the cognitive resources to relevant aspects of their environment or mental representations
4.	Enhances the knowledge of nature of creativity
5.	Ability to apply creativity in problem solving
6.	Gain Knowledge about radical and disruptive models of innovation.
TEXT	BOOKS:
1.	Rousing Creativity: Think New Now Floyd Hurt, ISBN 1560525479, Crisp Publications Inc. 1999
2.	Geoffrey Petty," how to be better at Creativity", The Industrial Society 2012
REFE	RENCES:
1.	Clayton M. Christensen Michael E. Raynor," The Innovator's Solution", Harvard Business School Press Boston, USA, 2007
2.	Semyon D. Savransky," Engineering of Creativity – TRIZ", CRC Press New York USA," 1 <sup>st</sup> edition 2000

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	-	-	-	3	3	2	-
CO2	3	-	-	-	3	2	3	-
CO3	3	-	-	-	2	3	3	-
CO4	2	-	-	-	3	2	2	-
CO5	3	-	-	-	2	2	2	-
CO6	3	-	-	-	3	2	3	-

	3303	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	L T 3 0	P C 0 3
OBJEC	<b>FIVES</b> :	To impart Knowledge on the following topics:		
•	To mal	ke investment decision and at providing a comprehensive	e introd	uction
		areas of investment analysis and portfolio management.		
		ble a comprehensive and continuing illustration of the a	applicat	tion of
		hniques of the course with the help of analytical tools.		
		ell on the investment avenues, and operations of the India		
	formati	and the role of various financial institutions in aiding the	сарна	
UNIT - I	Iomau			9
Financia	al and	economic meaning of Investment - Characteristics and	ohiecti	ives of
		nvestment process -Types of Investment - Investment		
		aluation - Risk and return concepts - Valuation of bonds a		
UNIT - II		FUNDAMENTAL ANALYSIS		9
Econom	nic Ana	alysis - Economic forecasting and stock Investment	Decis	ions -
		chniques. Industry Analysis : Industry classification, Indu		
		nalysis Measuring Earnings - Forecasting Earning		
		nniques - Graham and Dodds investor ratios.	•	• •
		(多) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		
UNIT - I		TECHNICAL ANALYSIS		9
Fundam	nental /	Analysis Vs Technical Analysis Dow theory - Chartin	na met	hods -
		s Trend – Trend reversals – Market Indicators -Movir		
		oving Average Oscillators - RSI -ROC - MACD Eff		
		of market efficiency -weak, semi-strong, strong form - E		
		iency -its application.	•	
		State State State		
UNIT - I	V	PORTFOLIO CONSTRUCTION AND SELECTIO		
Portfolio	analy		<b>N</b>	9
	anaiya	SHUEALIN		÷
Porttolio		sis - Reduction of portfolio risk through diversification – I tion - Feasible set of portfolios - Efficient set - Marko	Portfolio	o risk -
	Selec	sis - Reduction of portfolio risk through diversification – I	Portfolio owitz m	o risk -
Single ir	Selec ndex m	sis - Reduction of portfolio risk through diversification – I tion - Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod	Portfolio owitz m	o risk - nodel -
	Selec ndex m	sis - Reduction of portfolio risk through diversification – I tion - Feasible set of portfolios - Efficient set - Marko	Portfolio owitz m	o risk -
Single in UNIT - V	Selec ndex m	sis - Reduction of portfolio risk through diversification – I tion - Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod	Portfolio owitz m del.	o risk - nodel - 9
Single in UNIT - V Capital	Selec ndex m / Asset	sis - Reduction of portfolio risk through diversification – I tion - Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION	Portfolio owitz m del. - Pricin	o risk - nodel - 9 g with
Single in UNIT - V Capital CAPM -	Select ndex m / Asset · Arbitr	sis - Reduction of portfolio risk through diversification – I tion - Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML -	Portfolio owitz m del. - Pricin	o risk - nodel - 9 g with
Single in UNIT - V Capital CAPM -	Select ndex m / Asset · Arbitr	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision.	Portfolio owitz m del. - Pricin lex Tre	o risk - nodel - 9 g with eynor's
Single in UNIT - V Capital CAPM -	Select ndex m / Asset · Arbitr	sis - Reduction of portfolio risk through diversification – I tion - Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind	Portfolio owitz m del. - Pricin lex Tre	o risk - nodel - 9 g with eynor's
Single in UNIT - V Capital CAPM -	Selec ndex m / Asset · Arbitr ensen'	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision.	Portfolio owitz m del. - Pricin lex Tre	o risk - nodel - 9 g with eynor's
Single in UNIT - V Capital CAPM - index, J OUTCO	Select ndex m / Asset · Arbitr ensen'	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision. TOTAL:	Portfolio owitz m del. - Pricin lex Tre 45 PEF	g with eynor's
Single in UNIT - V Capital CAPM - index, J OUTCO 1. A	Select ndex m / Asset · Arbitr ensen'	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision. TOTAL:	Portfolio owitz m del. - Pricin lex Tre 45 PEF	g with eynor's
Single in UNIT - V Capital CAPM - index, J OUTCO 1. A	Asset Asset Arbitr ensen' MES: Apply th	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision. TOTAL:	Portfolio owitz m del. - Pricin lex Tre 45 PEF alterna	g with eynor's
Single in UNIT - V Capital CAPM - index, J OUTCO 1. A ir 2. S	Asset Asset Arbitr ensen' MES: Apply th avestor Summa	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision. TOTAL: he concept of investment and identify the investment as	Portfolio owitz m del. - Pricin lex Tre 45 PEF alterna	g with eynor's
Single in UNIT - V Capital CAPM - index, J OUTCO 1. A ir 2. S 3. C 4. A	Asset Asset Arbitr ensen' MES: Apply th vestor Summa Compre	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision. TOTAL: he concept of investment and identify the investment a s. rize nuances of fundamental analyses and technical anal hend the value of securities. diversified portfolios that align with investor object	Portfolio owitz m del. - Pricin lex Tre <b>45 PEF</b> alternat	o risk - nodel - 9 g with eynor's RIODS
Single in UNIT - V Capital CAPM - index, J OUTCO 1. A ir 2. S 3. C 4. A	Asset Asset Arbitr ensen' MES: Apply th vestor Summa Compre nalyze	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision. TOTAL: he concept of investment and identify the investment as rize nuances of fundamental analyses and technical anal hend the value of securities. diversified portfolios that align with investor object se.	Portfolio owitz m del. - Pricin lex Tre 45 PEF alternat yses.	risk - nodel - 9 g with eynor's RIODS
Single in UNIT - V Capital CAPM - index, J OUTCO 1. A ir 2. S 3. C 4. A to 5. A	Asset Asset Arbitr ensen MES: Apply th vestor Summa Compre nalyze olerance	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision. TOTAL: he concept of investment and identify the investment a s. rize nuances of fundamental analyses and technical anal hend the value of securities. diversified portfolios that align with investor object	Portfolio owitz m del. - Pricin lex Tre 45 PEF alternat yses.	risk - nodel - 9 g with eynor's RIODS
Single in UNIT - V Capital CAPM - index, J OUTCO 1. A ir 2. S 3. C 4. A to 5. A d	Asset Arbitr ensen' MES: Apply th vestor Summa Compre nalyze pleranc apprehe	sis - Reduction of portfolio risk through diversification – Feasible set of portfolios - Efficient set - Marko odel - Construction of optimum portfolio - Multi-index mod PORTFOLIO EVALUATION Pricing model - Lending and borrowing - CML - SML - age pricing theory- Portfolio Evaluation - Sharpe's ind s index - Mutual Funds - Portfolio Revision. TOTAL: ne concept of investment and identify the investment a s. rize nuances of fundamental analyses and technical anal hend the value of securities. diversified portfolios that align with investor object re.	Portfolio owitz m del. - Pricin lex Tre 45 PEF alternat yses. ives a constru	risk - nodel - 9 g with ynor's RIODS tives to nd risk

TEXT I	BOOKS:
1.	Donald E. Fischer & Ronald J. Jordan, Security Analysis & Portfolio
	Management, PHI Learning, New Delhi, 8th edition, 2011.
2.	Punithavathy Pandian, Analysis & Portfolio Management, Vikas publishing
	house PVT LTD, second edition, 2013.
3.	Prasannachandra, Investment analysis and Portfolio Management, Tata
	McGraw Hill, 2011.
REFEF	RENCES:
1.	Reilly & Brown, Investment Analysis and Portfolio Management, Cengage
	Learning, 9th edition, 2011.
2.	S. Kevin, Securities Analysis and Portfolio Management, PHI Learning,
	2012.
3.	Bodi, Kane, Markus, Mohanty, Investments, 8th edition, Tata McGraw Hill,
	2011.
4.	V. A. Avadhan, Securities Analysis and Portfolio Management, Himalaya
	Publishing House, 2013.
5.	V. K. Bhalla, Investment Management, S. Chand & Company Ltd., 2012

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СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	1	2	- 18	- /3	3	3
CO2	3	3	2	15-	<ul> <li>1</li> </ul>	14	3	3
CO3	3	3	313	2	1 - 1	() -	3	3
CO4	3	3	认副后	过度的	1.19	d -	3	3
CO5	3	3	COLONG STOR	2	13-1	/ -	3	3
CO6	3	3	2	1	1.51	-	3	3



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21MB3304	FINANCIAL MARKETS	3	0	0	3
OBJECTIVES:					
	derstand the types and functions of the various financi	al r	nark	ets	in
	ts instruments and Regulations.				(a)
	vide comprehensive introduction to the functioning of fin emerging context of deregulation and globalization of ma			nari	ket
	lain the concepts of Money, Money Supply and Money (			n in	an
econor		0100	100		an
	part knowledge of Financial Markets, Financial Institution	ons,	Fir	anc	cial
	es and Financial Instruments that formulates a financial s				
	vide introduction to the derivatives market, venture capit	al a	nd J	oriva	ate
equity.					
UNIT - I	FINANCIAL MARKETS IN INDIA				9
	I system and markets - structure of financial markets in				
	financial Market - Regulatory Environment, - RBI, C				
	ket, Money market, - Capital market - Governments pl	nilos	sopi	ny a	nd
Tinancial mark	et - financial instruments.				
UNIT - II	INDIAN CAPITAL MARKET- PRIMARY MARKE	т			9
process, regula Primary marke	et - Primary market system - Types of scripts - Iss ation pricing of issue, - Methods of floating new issues, I ets intermediaries: commercial banks, development bar managers, rating agencies etc - Role of primary marke rket.	Boo nks,	k bı Me	uildii ercha	ng- ant
UNIT - III	SECONDARY MARKET				9
Stock exchanged pricing mechar Role of SEBI -	ges in India - History and development -listing - E ge mechanism: Trading, Settlement, risk manageme nism - Player and stock exchange - Regulations of stoc BSE, OTCEI, NSE, ISE, - Role of FIIs, MFs and invest indices - calculation.	ent, k ex	Bas cha	sics Inge	of es -
	0				
UNIT - IV	DEBT MARKET AND FOREX MARKET				9
- Components Role of primar markets, basic	in India: Government bond market and its interface with or of bond market - G-Sec, T-Bills, Corporate Bonds, Yield y dealers, Auction Markets - Pricing of Bonds - Introdu is in exchange rates theory - Forex risk exposures a crisk management.	d co ctio	nve n to	ntio Fo	ns, rex
UNIT - V	MUTUAL FUNDS, DERIVATIVES MARKETS VENTURE CAPITAL AND PRIVATE EQUIT		D		9

Mutual funds institutions in India. Types of mutual funds, Basics in portfolio management, Metrics of performance for fund manager - Introduction to Derivatives and the size of derivatives markets -Brief introduction to forwards, Options, Futures And Swaps. Role of VCs and PEs in financial markets - Venture capital and Private equity.

TOTAL: 45 PERIODS

## OUTCOMES:

1.	Comprehend the basic concepts of the finance markets in India
2.	Analyze the underlying structure and functions of Indian financial markets
3.	Evaluate the methods of issuing shares and the role of intermediaries inthe primary market
4.	Summarize about the trading mechanism in stock market
5.	Students will develop an understanding of the structure, participants, and factors influencing the forex market
6.	Analyze the instruments, participants and trading in debt market.
TEXT	BOOKS:
1.	Pathak, Bharati V., Indian Financial System: Markets, Institutions and Services, Pearson education (Singapore), New Delhi, Fourth edition, 2014.
REFE	RENCES:
1.	Christopher Viney and Peter Phillips, Financial Institutions, Instruments and Markets (2015), 8 <sup>th</sup> Edition published by McGraw Hill.
2.	Saunders, Anthonu and Cornett, Marcia Millon, Financial markets and Institutions: An Introduction to the risk management approach, McGraw Hill, Irwin, New York, 3rd Edition, 2017.
3.	Bhole, L.M, Financial institutions and Markets: Structure, Growth and Innovations, McGraw Hill, New Delhi, Sixth edition, 2017.
4.	Fabozzi, Frank J. and Modigliani, Franco, Capital Markets: Institutions and Markets, Prentice Hall of India, New Delhi, Fourth edition, 2009.

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PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	-	-	2	-	2	-	-
CO2	-	2	-	-	-	2	2	-
CO3	3	1	-	1	-	-	-	-
CO4	2	1	-	-	-	3	-	-
CO5	1	2	-	-	-	-	1	-
CO6	2	-	-	-	-	3	-	-

			1	Т	Р	С			
21ME	33305	BANKING MANAGEMENT AND FINANCIAL SERVICES	ц З	0	Г 0	3			
			Ŭ	v	v	0			
OBJEC	CTIVES:								
•		derstand the financial services in the country that bar							
		, and to harness this functionality for the benefits of the emanagers.	e or	gan	ızatı	on			
•		vide an understanding of profitability and risk while	dec	idin	a th	าย			
	liability	m ix of banks.			-				
•		ntify the various regulations and risk management fo ntal work flow of business operations.	r ve	ertica	al a	nd			
•		o understand the concepts of mergers and diversification towards financial tability of banks.							
٠	To kno	w the latest trends in banking industry.							
UNIT -	I	INTRODUCTION TO INDIAN BANKING SYSTEM PERFORMANCE EVALUATION	AN	D		9			
Overvi	iew of Ir	ndian Banking system - Structure - Functions - Key F	Regi	ulati	ions	in			
		g sector - RBI Act, 1934 / 2006 -Banking Regulation							
		truments Act 1881 / 2002 - Provisions Relating to CRR							
		view of Financial Statements of banks - Balance Sh	neet	- 11	nco	me			
	nent – C								
UNIT -	II	MANAGING BANK FUNDS/ PRODUCTS & RIS MANAGEMENT	SK			9			
and pr Asset Predic operat	ricing of and Lia tion Mo ional an	acy - Deposit and Non-deposit sources - Designing deposit sources - Ioan management - Investment Mability Management – Financial Distress -Signal to odels - Risk Management - Interest rate - Forex - Cu d solvency risks - NPA's - Current issues on NPA's - Materials of market	lana bo redi	age rrov t ma	mer vers arke	nt - s – et -			
UNIT -	111	DEVELOPMENT IN BANKING TECHNOLOG	Y			9			
		em in India - paper based - e payment -electronic ba		าต -	plas				
	-	oney – forecasting of cash demand at ATM's -The		•	•				
		Act, 2000 in India – RBI"s Financial Sector Techr							
		curity threats in e-banking & RBI's Initiative.							
UNIT -	IV	ASSET BASED FINANCIAL SERVICES				9			
Introdu	uction -	Need for Financial Services - Financial Services Ma	rket	in	Indi	а -			
		amework and act for NBFC - Leasing and Hire Purcha nderwriting - mutual funds	se -	· Fir	nano	ial			
UNIT -	V	INSURANCE AND OTHER FEE BASED FINANC SERVICES	IAL			9			
		t, 1938 -IRDA – Regulations – Products and servi ing -Bill discounting -factoring - Merchant Banking - Ro				ıre			
		TOTAL	: 45	PEI	rio	DS			

OUTC	OMES:
1.	Gain knowledge on the banking regulations governing the Indian Banking
	system.
2.	Identify the impact on current trends in banking industry.
3.	Able to explore and apply the various financial tools for managerial decision making.
4.	Identify right solutions to complex problems through various techniques for managing the banking risk.
5.	Learn the recent banking technologies for effective undertaking of business responsibilities.
6.	Creating awareness in monitoring and development of assets based financial services.
TEXT	BOOKS:
1.	Padmalatha Suresh and Justin Paul, Management of Banking and Financial Services, Pearson, Delhi, 2017.
REFE	RENCES:
1.	Meera Sharma, Management of Financial Institutions - with emphasis on Bank and Risk Management, PHI Learning Pvt. Ltd., New Delhi 2010
2.	Peter S. Rose and Sylvia C. and Hudgins, Bank Management and Financial Services, Tata McGraw Hill, New Delhi, 2017

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	3	込息だ	2	Lel	S 1	2	-
CO2	2	3	1	3	2	[S -	2	2
CO3	-	3	ALC: NOT	10.0	1.81	2	3	2
CO4	2	3	HI EDU	2.NP	1	2	3	2
CO5	-	1	12		2	3	_	2
CO6	-	-		5	2	2	_	2

21MB3306	FINANCIAL DERIVATIVES	L T 3 0	P 0	C 3
OBJECTIVES:				
<ul> <li>Unders</li> </ul>	tand the nuances involved in derivatives			
Unders	tand the basic operational mechanisms in derivatives			
commit movem	dict the price movement in the stock market and ments to prices for future dates to give protection ag nents in future prices.	ainst a	dvers	se
market	lerstand the basics of the various instruments operatin along with their trading mechanism and regulations	-		
options	elop various pricing models of stock prices, trading and management of derivative exposure.	, hedgi		
UNIT - I	INTRODUCTION		9	9
Swaps - Differ and Exchange	efinition - Types - Forward Contracts - Futures Contra ences between Cash and Future Markets - Types of T Traded Securities - Types of Settlement - Uses and A Risks in Derivatives.	raders	- OT	ГС
UNIT - II	FUTURES CONTRACT		9	9
Futures, Curre Future Prices,	g Futures - Types of Futures Contracts - Securities encies and Commodities - Delivery Options - Relation Forward Prices and Spot Prices.		etwee	en
UNIT - III	OPTIONS			9
Call and Put C Value of Optio	change Traded Options, OTC Options - Specification options - American and European Options - Intrinsic Va ns -Option payoff, options on Securities, Stock Indice Options pricing models - Differences between futur	alue and s, Curr	d Tin encie	ne es
UNIT - IV	SWAPS			9
Intermediary-	WAP - Interest Rate SWAP - Currency SWAP - Rol Warehousing - Valuation of Interest rate SWAPs a s and FRNs -Credit Risk.			
UNIT - V	DERIVATIVES IN INDIA		9	9
Evolution of D Trading in D Specifications and specification	Derivatives Market in India - Regulations - framewor erivatives – Commodity Futures – Contract Tern for Stock Options and Index Options in NSE - Contrac ons for stock futures and Index futures in NSE - Contrac tions for Interest Rate Derivatives.	ninolog t Termi	hang y ar nolog	ge nd gy
	TOTAL	: 45 PEI	RIOD	DS
OUTCOMES:				
1. Compr	ehend the good skills in hedging risks using derivatives			

2.	Understand about future contract and options
3.	Analyze in depth about options and swaps
4.	Apply pricing models to calculate the theoretical value of currency and futures options.
5.	Summarize about the evolution of derivative markets
6.	Develop in depth knowledge about stock options and index futures in NSE
TEXT E	BOOKS:
1.	John. C. Hull, Options, Futures and other Derivative Securities, PHI Learning, 9th Edition, 2012
2.	S. L. Gupta, Financial Derivatives- Theory, Concepts and Practice, Prentice Hall of India, 2011.
REFEF	RENCES:
1.	Keith Redhead, Financial Derivatives – An Introduction to Futures, Forwards, Options and SWAPs,-PHI Learning, 2011.
2.	Stulz, Risk Management and Derivatives, Cengage Learning, 2nd Edition, 2011.
3.	Varma, Derivatives and Risk Management, 2ndt Edition, 2011.
4.	David Dubofsky - Option and Financial Futures - Valuation and Uses, McGraw Hill International Edition.

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CO3	- 8	1445	1	110 <u>-</u>	NALTA	2	-	-
CO4	-	3	8	CAIN	2	-	-	-
CO5	-	-	0	3	-	-	3	-
CO6	2	2	-	-	2	3	2	-

21ME			L	Т	Ρ	С
	33307	FINANCIAL MODELLING	3	0	0	3
OBJE	CTIVES:					
٠		students to build financial models by including various	field	s of	stu	dy
•		ancial Management and Derivatives. vide introduction to using tools like Excel in financial value	atior	<u> </u>		
•	-	erstand the importance of detailed financial modelling f			ani	es
-		investment and financial decisions.	0. 0	ор	, and	
•	To dev	elop financial applications to manage portfolio risks.				
•		ulate valuation of projects and companies in an effective			r.	
UNIT -	•	INTRODUCTION TO FINANCIAL MODELLING & BU FUNCTIONS USING SPREAD SHEETS	JILT	IN		9
FV, P\ Models	/, PMT, l s: EMI	Iling- Introduction to Time value of money & lookup fu RATE, NPER, Vlookup, Hlookup, if, countif etc - Time va with Single & Two Interest rates – Loan amortisation emption modelling.	alue	of I	Mor	ney
UNIT -	·	BOND & EQUITY SHARE VALUATION MODELLI	NG			9
and S	Strip Bo	<ul> <li>Yield to Maturity (YTM): Rate method Vs IRR method</li> <li>Modelling-Bond redemption modelling</li> <li>ple growth rate valuation modelling with and without grown</li> </ul>	Equi	ity	sha	
UNIT -	·	CORPORATE FINANCIAL MODELLING				9
even i	modellin	<ul> <li>Bankruptcy Modelling-Indifference point modelling - Fig g -Corporate valuation modelling (Two stage grown apital budgeting evaluation: Payback period, NPV, IRR a</li> </ul>	th)-	Bus	sine	
UNIT -	· IV				— – – –	
		PORTFOLIO MODELLING				9
calcula	eta and ation (Ec	PORTFOLIO MODELLING Annualised Return – Security Market Line Modelling – qual Proportions) - Portfolio risk optimisation (varying truction modelling.				isk
calcula Portfol	eta and ation (Ec lio cons	Annualised Return – Security Market Line Modelling – qual Proportions) - Portfolio risk optimisation (varying truction modelling.				isk
calcula Portfol UNIT - Option	Beta and ation (Ec lio cons • V • pay off	Annualised Return – Security Market Line Modelling – qual Proportions) - Portfolio risk optimisation (varying	pro	port		isk Is)-
calcula Portfol UNIT - Option modell	Beta and ation (Ec lio cons • V • pay off ling (B-S	Annualised Return – Security Market Line Modelling – qual Proportions) - Portfolio risk optimisation (varying truction modelling. DERIVATIVE MODELLING modelling: Long and Short Call & Put options - Option p	pro pricir	port	tion	isk is)- 9
calcula Portfol UNIT - Option modell	Beta and ation (Ec lio cons • V • pay off	Annualised Return – Security Market Line Modelling – qual Proportions) - Portfolio risk optimisation (varying truction modelling. DERIVATIVE MODELLING modelling: Long and Short Call & Put options - Option p Model) - Optimal Hedge Contract modelling.	pro pricir	port	tion	isk is)- 9
calcula Portfol UNIT - Option modell	eta and ation (Ec lio cons V pay off ling (B-S OMES:	Annualised Return – Security Market Line Modelling – qual Proportions) - Portfolio risk optimisation (varying truction modelling. DERIVATIVE MODELLING modelling: Long and Short Call & Put options - Option p Model) - Optimal Hedge Contract modelling.	pro pricir	port ng PEF	RIO	isk is)- 9 DS
calcula Portfol UNIT - Option modell	eta and ation (Ec lio cons V pay off ling (B-S OMES: Unders busines Apply c	Annualised Return – Security Market Line Modelling – qual Proportions) - Portfolio risk optimisation (varying truction modelling. DERIVATIVE MODELLING modelling: Long and Short Call & Put options - Option p Model) - Optimal Hedge Contract modelling. TOTAL: tand the purpose and importance of financial modelling	pro pricir : <b>45</b>	port ng PEF	RIO	isk is)- 9 DS

4.	Evaluate advanced financial modeling skills specifically tailored for capital budgeting evaluation.
5.	Comprehend t h e portfolio management principles and strategies.
6.	Explore the derivative trading and execution techniques.
TEXT E	BOOKS:
1.	Wayne L Winston," Microsoft Excel 2016-Data Analysis and Business Modelling ", PHI publications, (Microsoft Press),New Delhi, 2017.
2.	Chandan Sen Gupta, "Financial analysis and Modelling – Using Excel and VBA", Wiley Publishing House, 2014.
REFEF	RENCES:
1.	Craig W Holden,"Excel Modelling in Investments" Pearson Prentice Hall, Pearson Inc, New Jersey, 5th Edition 2015.
2.	Ruzhbeh J Bodanwala, "Financial management using excel spread sheet", Taxman Allied services Pvt Ltd, New Delhi, 3rd Edition 2015.
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PO CO	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8
CO1	3	X	100	23	7	2	1	-
CO2	NH.	3	1	15	1	2	-	-
CO3	2	3	1	3名	2	1.1	2	-
CO4	141	2	周辺		14	3	2	-
CO5	2	2	(E Carrow	100	2	3	-	-
CO6	- 1	374	EDUC	ATION	AL.	2	-	-



21MB3308	INTERNATIONAL FINANCE		P C 0 3				
OBJECTIVES:							
Risks i	derstand the International Financial Environment, Mar nvolved.	nagement	and				
Provide students with a basic knowledge of how mergers and amalgamations work in overseas countries.							
values	e students with an understanding of exchange rates and fluctuate.	I why curi	rency				
Provide	e methods used to manage risk in the global markets. e an in-depth understanding of the process and techn nternational investment decisions.	iques us	ed to				
UNIT - I	INTERNATIONAL TRANSACTIONS		9				
- International Balance of Pa	Evolution of International Finance -Institutions for Interna ization process -International Monetary and Finan ayments - Exchange rate and money supply - Intern chasing power parity - interest rate parity - Forward ra	cial Syst national [	em - parity				
UNIT - II	MULTINATIONAL FINANCIAL MANAGEMEN erseas expansion - Reasons for cross-border investing		9				
investment - techniques of project evaluation - Approaches for investment under uncertainty - FDI - Measuring and Managing Risk - International M&A - Financial Techniques in M&A - Regulations of M&A in major countriesUNIT - IIIINTERNATIONAL MONETARY SYSTEM9Introduction to Institutions of the Foreign Exchange Interbank Market - Foreign Exchange Spot Transactions - forward market - Hedging and Speculation - Hedging FX Transaction Exposure - The Eurocurrency market - international banking - structure and instruments.							
UNIT - IV	BORROWING AND LENDING: INTERNATIONAL SC OF FINANCE	DURCES	9				
Syndicated E	Bond Markets of various countries - Fixed and floating rate notes - Syndicate loans - Syndicated Euro credits - ADR - GDR - Managing interest rate risk - Bond prices and yeils - Bond Management - tools and techniques.						
UNIT - V INTERNATIONAL RISK ASSESSMENT AND OTHER 9 INTERNATIONAL MARKETS							
Country and political risk analysis - benefits and risks of international portfolio investment - assessing country creditworthiness - futures markets and instruments - option markets and instruments - option pricing - option pricing theory in financial risk assessment.							
	TOTAL	.: 45 PER	IODS				
OUTCOMES:	aband avalution, process and avatam of International Fig	2222					
1. Compr	ehend evolution, process and system of International Fin	lance.					

2.	Summarize the concepts of international merger and acquisitions,
	financial techniques and regulations.
3.	Apprehend about international monetary system.
4.	Gain a comprehensive understanding of the various international sources of
	finance available to businesses.
5.	Analyze ADR, GDR and bond management.
6.	Explore the learning in international risk assessment.
TEXT	BOOKS:
1.	Apte P.G., International Financial Management, Tata McGraw Hill, 2011.
REFEF	RENCES:
1.	Jeff Madura, International Corporate Finance, Cengage Learning, 9th
_	Edition, 2011.
2.	Alan C. Shapiro, Multinational Financial Management, PHI Learning, 5th
	Edition, 2010.
3.	Eunand Resnik, International Financial Management, Tata Mcgraw Hill, 5th
	Edition, 2011.
4.	Website of Indian Government on EXIM policy.
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PO CO	P01	PO2	PO3	PO4	PO5	P06	P07	PO8
CO1	-2	12	No.	3		2	-	-
CO2	-3	5/2	夏后	2	L	2	-	-
CO3	2		2		Ð).	5/	-	-
CO4	-	ATT TH	Enus	2	AL-TH	2	-	-
CO5	2	3	au	20	<u> </u>		-	-
CO6	-	2	0	3	-	2	-	-

21MB3309	BEHAVIORAL FINANCE	L 3	T 0	P 0	C 3					
OBJECTIVES:		•								
investr	ntify and understand systematic behavioural factors that i nent behaviour.									
the Firi	• To Develop an Understanding of finance and enable the students to evaluate the Firm's decision areas related to finance.									
• To help students appreciate the limitations of rational models of investment decision making.										
discove	discovery in the markets.									
influen	To help students identify persistent or systematic behavioural factors that influence investment behaviour.									
UNIT - I	INTRODUCTION: WHY BEHAVIORAL FINANC				9					
demand frame under uncertai	curity prices in the economy - EMH - Failing EMH - EMH ework - Equilibrium expected return models - Investr nty - Introduction to neoclassical economics and expecte tability in stock market - Limitations to arbitrage.	nent	de	cisi	on					
UNIT - II	DECISION AND BEHAVIORAL THEORIES				9					
The Ellsberg I	Hall Paradox - The St. Petersburg Paradox - The All Paradox - Prospects theory - CAPM - behavioural por brief history on rational thought – Pasacl – Fermat t	tfoli	o th	neor	у-					
UNIT - III	DECISION MAKING BIASES				9					
Bayesian deci	creening bias - Heuristics and behavioural biases of sion making - cognitive biases - forecasting biases - group behaviour - investing styles and behavioural fin	em	otio							
UNIT - IV	ARBITRAGEURS				9					
and short-sellir	Definition of arbitrageur - Long-short trades - Risk vs. Horizon - Transaction costs and short-selling costs - Fundamental risk - Noise-trader risk - Professional arbitrage - Destabilizing informed trading.									
UNIT - V	UNIT - V MANAGERIAL DECISIONS									
Supply of securities and firm investment characteristics (market timing, catering) by rational firms - Associated institutions - Relative horizons and incentives - Biased managers.										
	TOTAL	: 45	PEF	rioi	DS					
OUTCOMES:	OUTCOMES:									
1. Compr	ehend the need of behavioural finance.									
2. Apply t	he various decision and behavioural theories.				_					
3. Analyz	e heuristic and behavioural biases of investors.									

4.	Summarize different investing styles commonly adopted by investors.
5.	Analyze and understand about arbitragers and managerial decision.
6.	Comprehend the price discovery in markets.
TEXT	BOOKS:
1.	Daniel Kahneman, Paul Slovic, and Amos Tversky (eds.). (1982) Judgment under Uncertainty: Heuristics and biases, Oxford; New York: Oxford University Press.
REFE	RENCES:
1.	Shleifer, Andrei (2000). Inefficient Markets: An Introduction to Behavioural Finance. Oxford, UK: Oxford University Press.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2		NEE	RING	3	3	-	-
CO2	3	2	-	-	1	3	2	-
CO3	2	2/	$\langle$		$\sim$	2	3	-
CO4	ANI	3	) 1		2	3	194 D	
CO5	2	2	12.2	012-33 012-33 012-33	132	2	2	-
CO6	2	12				4/3	1-	-



21MB3310BUSINESS ANALYSIS AND VALUATIONLTPC3003						
OBJECTIVES:						
To understand the financial analysis and valuation techniques of a firm.						
<ul> <li>To acquire the analytical skills to assess and value a firm.</li> </ul>						
UNIT - I BUSINESS ANALYSIS - AN INTRODUCTION 9						
Financial modelling for project appraisal - concept & application - forecasting techniques - financial analysis.						
UNIT - II FINANCIAL ANALYSIS 9						
Analysis of statement of shareholders equity - analysis of balance sheet and income statement – distress analysis – analysis of cash flow statement – analysis of profitability - analysis of growth and sustainability.						
UNIT - III BUSINESS VALUATION 9						
Basis of valuation – principles and techniques of valuation – role of valuation – valuation models - DCF model - FCF model - relative valuation - contingent claim valuation.						
UNIT - IV VALUATION OF MERGERS AND ACQUISITIONS 9						
Business strategy – basis of M&A – theories of M&A – synergy in M&A – Approaches to valuation in case of M&A - selection of appropriate cost of capital for M&A for valuation – implications of regulations – Takeover – Post – Merger integration process – shareholder value analysis.						
UNIT - V VALUATION OF ASSETS AND LIABILITIES 9						
Forms of intellectual property and methods of valuation - valuation of fixed assets - valuation of inventories - valuation of investments - valuation of shares - valuation of goodwill, patents, copyrights - valuation of brands - valuation of liabilities - MM Hypothesis.						
OUTCOMES:						
1. Comprehend the strategy analysis and use it to make proforma statements.						
<ol> <li>Apply different valuation methods and tools for assessing their accuracy.</li> </ol>						
3. Summarize Value creation in a merger and acquisition context.						
4. Analyze the valuation method given the characteristic of a firm and estimate the value of the firm given the chosen method.						
<ol> <li>Summarize merger integration process, including the key stages and activities involved.</li> </ol>						
<ol> <li>Analyse the accounting quality of financial statements and valuation of assets and liabilities.</li> </ol>						
TEXT BOOKS:						

1. Krishna G. Palepu and Paul M. Healy: Business Analysis & Valuation Using Financial Statements, Text Only (PHB) 5th Edition, Cengage Learning 2013.

## **REFERENCES**:

1. Joshua Rosenbaum and Joshua Pearl: Investment Banking: Valuation, Leveraged Buyouts, and Mergers and Acquisitions, John Wiley & Sons; 2nd edition (2013).

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	-	-	-	-	3	1	-
CO2	3	3	-	-	2	-	2	-
CO3	-	1	CERIN	IG Co	-	2	-	-
CO4	2	3			2	-	3	-
CO5	13	(-)	0	Ç	1	3	-	-
CO6	N1.65	3		85	(	2	3	-



21ME	33311	FINANCIAL RISK MANAGEMENT AND INSURANCE	L 3	Т 0	P 0	C 3		
	CTIVES:			1		1		
		urse aims to provide students with a comprehensive und	lers	tand	lina	of		
-		inagement principles and practices.		lant	9	0.		
•		ts will learn the fundamental concepts and principles						
	including the types of insurance products available, the role of insurance in managing risk, and the basic operations of insurance markets.							
UNIT -		INTRODUCTION TO RISK MANAGEMENT				9		
Risk, T	ypes of	Risk, Objective of Risk Management, Sources of Risk,	Mea	asur	eme	ent		
of Risk								
UNIT -	UNIT - II IDENTIFYING AND QUANTIFYING FINANCIAL RISK 9							
Risk Io	lentificat	ion and Assessment, Risk Response, Risk Control Im	ple	mer	ntatio	on,		
	xposure.	. Quantifying Tools - Regression Analysis, Value at Risk						
UNIT -	III	RISK AVERSION & MANAGEMENT TECHNIQ	JE			9		
Ū		Pooling and Diversification of Risk.						
UNIT -		INTRODUCTION TO INSURANCE				9		
(Fire, N Object	/lotor, He ive of Ir	ance, Principles of General Insurance, General Insura ealth), Directors and Officers Liability Insurance, Insuran nsurance, Elements of valid contract, Characteristics rance Pricing, Insurance Market & Regulation, Solvency	nce of	Cor Ins	ntrac urar	cts, nce		
UNIT -	V	INSURANCE AS A RISK MANAGEMENT TECHNI	QUE	Ξ		9		
		ciples, Policies, Insurance cost & Fair Pricing, Expecte ovisions that limit Insurance coverage, Reinsurance.	d cl	aim	cos	sts,		
		TOTAL	: 45	PE	RIO	DS		
	OMES:							
1.		arize the knowledge relating to enterprise risk manageme	ent o	cond	cept	S.		
2.	Analyze the Assessment and evaluation of risk management.							
3.		arize various insurance operations in India.						
4.	Analyze the knowledge relating to various insurance products in India.							
5.	· · · · · · · · · · · · · · · · · · ·							
6.	<ol> <li>Evaluate how the insurance business correlated with enterprise risk management concepts.</li> </ol>							
TEXT	BOOKS:							
1.		.F.J.P, "Financial Risk Management: Identification, Mea ement", Springer, 2018.	sure	eme	nt a	nd		

2.	Hull, J. C. "Risk Management and Financial Institutions", United Kingdom: Wiley, 2018						
REFE	REFERENCES:						
1.	McNamara, Michael J, Rejda, George E. "Principles of Risk Management and Insurance", United States: Pearson Education, 2020.						
2.	Roncalli, T. "Handbook of Financial Risk Management", CRC Press, 2020.						
3.	Schenke.J, "Financial Risk Management Fundamentals", United States: Amazon Digital Services LLC - KDP Print US, 2019.						

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	-	-	-	-	3	-	-
CO2	-	3		UNG /	2	2	3	-
CO3	2	189	INI	-	100	1	-	-
CO4	1/	2	<	2	$\geq$	2	2	-
CO5	2	1-3	1	10	-(	3	1-1	-
CO6	2	2	30 <u>-</u> 02 6000		3	1	-	-



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21ME	33312	PROJECT APPRAISAL AND FINANCE	L 3	Т 0	P 0	C 3
OBJEC	CTIVES:		-			
•	The co	urse aims to provide students with a comprehensive und appraisal techniques and methodologies.	ders	tano	ding	of
•	Learn	how to interpret and analyze financial statements and o assess project performance.	use	e fin	anc	ial
•	techniq	ts will gain knowledge of risk assessment and ues in the context of project appraisal.	ma	nag	eme	
	financir	PROJECT FINANCING ng- Concept and Meaning - Unique characteristics - Rec roject financing - Softwares for Project Management	quire	eme	nts	9 -
UNIT -	-	SOURCE OF PROJECT FINANCING				9
– proje – Fun	ct financ d vs No	ect financing - Sponsors' - lenders and other stakeholde sing structures - Project cash flow determination and fina on-fund financing - formulating financing mix - Feat bt service covenants.	ncir	ng o	ptio	ns
UNIT -	III	PROJECT FEASIBILITY ANALYSIS				9
	nalysis aints.	tors - NPV- IRR- Payback - XIRR- MIRR- Economic I – scenario and sensitivity analysis - Evaluating I RISK ANALYSIS				
-			- 1		- 1 :4	-
Project Mitigat	ilife cove ion in pi	y - Measures used by lenders- Leverage - Debt Servic er ratios- preparing the project financing plan- lender's a rojects - Common risks in projects - Risk mitigation me re risk - securitization as a tool for risk mitigation.	appra	aisa	ıl; R	isk
UNIT -	V	REAL OPTION VALUATION				9
		aluation of projects - concept and application - Technic n - option to expand, contract, abandon - Case studies	-		-	
OUTC	OMES:	TOTAL	45	PE		DS
1.		ehend the importance of Project financing.				
2.		e and Identify appropriate means of project financing.				
3.	-	te differentiate between fund financing and non-fund fir	nanc	ing		
4.		te the techniques to determine project feasibility.				
5.	Apply t	he various risk mitigation methods to projectfinancing.				
6.	Analyz	e methods of real option evaluation to project evaluation.				

TEXTI	BOOKS:
1.	Chandra, Prasanna, "Projects", 9 <sup>th</sup> Edition, McGraw Hill Education, 2019.
2.	Finnerty, John, "Project Financing: Asset Based Financial Engineering", 3rd Edition, Wiley and Sons Inc., 2013.
REFE	RENCES:
1.	Mun, Jonathan, "Applied Analytical Project Management", Liper Press, 2020
2.	Srivastava Vikam and Rajaram V, "Project and Infrastructure Finance: Corporate Banking Perspective", Oxford University Press, 2017.
3.	Stefano, Gatti, "Project Finance in Theory and Practice", 3rd Edition, Elsevier, 2018.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	200		-	120	2	-	-
CO2	2	2	~	~	3	131	2	-
CO3	NIN	(-)	1	10	0	2	( -	-
CO4	£	3	and a		1381		3	-
CO5	(*	2			2	2*	-	-
CO6	2	3		5	3	15/	1	-



r				_		
21ME	33313	VENTURE CAPITAL AND PRIVATE EQUITY	L 3	Т 0	P 0	C 3
OBJEC	TIVES:					
•		urse aims to provide students with a comprehensive une			ding	of
		e capital and private equity as alternative forms of investing to a second sec second second sec			cani	ital
	and priv	vate equity investments.				itai
•		urse may address deal structuring and negotiation techile capital and private equity transactions.	niqu	es i	n	
UNIT -		INTRODUCTION TO VENTURE CAPITAL AND PR EQUITY	IVA <sup>.</sup>	ΤE		9
and di	fferent c	al, Angel financers, Private Equity, Hedge funds, their characteristics. History of Venture capital, Angel fina Different models of VC and Private equity.				
UNIT -	II	WORKING PROCEDURE				9
opport	unity, ne	apital cycle, Opportunity recognition, Key parties invo gotiation on terms, harvester exit investment. Initial s eturn fit, Return on investment from cashflows, break-ev	cree	enin	g, d	
UNIT -	III	VALUATION OF COMPANIES				9
the ve Differe	enture c nce in a	the nature of business, Methods of valuation and its reapital process. Valuing companies with options: Fapproach and evaluation process of PE, Angel fina Banks and financial institutions.	Real	o	ptio	ns.
UNIT -	IV	DEAL STRUCTURING AND EXIT				9
purcha	se agre , regulat	urity type, Liquidation preferences, Shareholder agre ement. Going public: Need for going public, IPO pro ion and cost. Selling the venture: Mergers and acquisiti	oces	SS,	role	of
UNIT -	V	PERFORMANCE AND REGULATORY FRAMEWOR	K			9
		f venture capital: sector wise and year wise. SEBI regunducts for venture capitalists and private equity.	latio	ns,	Eth	ics
		TOTAL	: 45	PEI	rio	DS
OUTC	OMES:					
1.	Disting	uish venture capital, private equity, angel capital etc.				
2.		te and short list potential ventures for investment.				
3.		various models in valuation of start-ups.				
4.		real options and their significance in valuing companies putcomes.	with	uno	certa	ain
5.	Examir	e alternative deal structuring and exit strategies.				
6.	Acquire firms.	e knowledge on legal regulations for venture capital and	priv	ate	equ	iity

TEXT	BOOKS:
1.	Chandra.P, "Corporate Valuation", 2nd Edition McGraw Hill, 2020.
2.	Invest, L. "Private Equity: Minority Investments and Buyouts, A Guide to Working with Private Equity", 2 <sup>nd</sup> Edition, Amazon Digital Services LLC - KDP Print US, 2019.
REFEF	RENCES:
1.	Kumar.R. and Sharma.M, "Venture Capital Investments", Sage Publications, 2010.
2.	Ramsinghani.M, "The Business of Venture Capital", 3rd Edition, Wiley, 2021.
3.	Zeisberger.C, "Mastering Private Equity", Wiley, 2017.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	1	0	N.	10	3	-	-
CO2	131	3	- 248	ING	2	2	3	-
CO3	2	100	ING	-	of the	1	-	-
CO4	1/	2	$\sim$	~	~	2	2	-
CO5	2	1-3	- All	10	-(	3	1-	-
CO6	2	2	<u>30-</u> 08 аПос	10.0	3	1	-	-



		L	Т	Ρ	С
21MB3316	STRATEGIC HUMAN RESOURCE MANAGEMENT	3	0	0	3
OBJECTIVES:			) f	o oti o	
	o students understand the transformation in the role of eing a support function to strategic function in the arena				
	ng business environment and stiff competition as well a				
	tanding regarding how HR requirements should have				
	ational goal accomplishment to excel in organizational p	erfo	orma	ince	
UNIT - I	CONTEXT OF SHRM				9
	M models - Strategic HRM Vs Traditional HRM				
U U	Adopting an Investment Perspective - Unders man capital - Human side of corporate strategies -				nd ork
-	tegic Capability - Bench Marking.	Strat	legi	5 999	JIK
UNIT - II	HUMAN RESOURCE DEVELOPMENT				9
	ategic framework for HRM and HRD - Vision, Mission				
	Challenges to Organisations - HRD Functions - R - HRD Needs Assessment - HRD practices - Meas				
	<ul> <li>– Into needs Assessment - HRD practices - meas</li> <li>– Links to HR, Strategy and Business Goals – H</li> </ul>				
	on and Evaluation - Recent trends -HRD Audit.		1 10	Jyrt	
UNIT - III	E-HRM				9
	profile- e- selection and recruitment - Virtual learning an				
	and development - e-learning strategies- e-				
	<ul> <li>and Compensation design - Use of mobile applic velopment and Implementation of HRIS- Designing</li> </ul>				
	loyee privacy – Employee surveys online.		μo	Ital	, –
UNIT - IV	CAREER & COMPETENCY DEVELOPMENT	•			9
	pts - Roles - Career stages - Career planning and Pro				
	Models- Career Motivation and Enrichment -Mana				
	igning Effective Career Development Systems - Comp gement - Competency Mapping Models - Equity and				
based Compe		CO	mp	elei	Сy
UNIT - V	EMPLOYEE COACHING & COUNSELING				9
Need for Coad	ching - Role of HR in coaching - Coaching and Perform	man	ice -	- Sk	ills
	Coaching - Coaching Effectiveness- Need for Counse				
	selling - Components of Counselling Programs -	Сс	ouns	selli	ng
Effectiveness	<ul> <li>Employee Health and Welfare Programs.</li> </ul>				
	TOTAL	: 45	PEF	RIOI	DS
OUTCOMES:					
-	completion of the course student will be able to:				
	arize the concept of SHRM and its strategic role in es with organizational goals and objectives.	alig	inin	g H	R
· · ·					

op a clear vision and mission statement for HRM and HRD that aligns e overall organizational goals and objectives. the concept of an electronic employee profile and its importance aging employee information. te the concept of HR portals and their role in providing self-service s to employees. the importance of career development and its impact on sional success and satisfaction. te between coaching and counseling and understand their tive purposes and approaches t A Mello, Strategic Human Resource Management, Cengage ng, 3rd edition, 2011.
aging employee information. te the concept of HR portals and their role in providing self-service s to employees. the importance of career development and its impact on sional success and satisfaction. te between coaching and counseling and understand their tive purposes and approaches A Mello, Strategic Human Resource Management, Cengage ng, 3rd edition, 2011.
s to employees. the importance of career development and its impact on sional success and satisfaction. the between coaching and counseling and understand their tive purposes and approaches A Mello, Strategic Human Resource Management, Cengage ng, 3rd edition, 2011.
sional success and satisfaction. e between coaching and counseling and understand their tive purposes and approaches A Mello, Strategic Human Resource Management, Cengage ng, 3rd edition, 2011.
tive purposes and approaches : A Mello, Strategic Human Resource Management, Cengage ng, 3rd edition, 2011.
A Mello, Strategic Human Resource Management, Cengage ng, 3rd edition, 2011.
ng, 3rd edition, 2011.
Boselie. Strategic Human Resource Management. Tata McGraw Hill,
S:
L. Desimone, Jon M. Werner – David M. Mathis, Human rce Development, Cengage Learning, 7th edition, 2016.
L. Mathis and John H. Jackson, Human Resource Management, ge Learning, 2007.
Das. Strategic Human Resource Management- A Resource Driven ective- Cengage Learning 4th Indian Reprint- 2013.
a Torres Coronas & Mario Arias Olivia. E-Human Resource ement- Managing Knowledge People- Idea Group Publishing, 2005.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	-	c pl	GATIV	-	3	-	-
CO2	-	-	2	13	3	2	1	2
CO3	2	-	-	00	-	-	2	-
CO4	-	-	3	2	-	3	3	-
CO5	-	-	-	-	-	3	-	3
CO6	2	2	3	-	3	-	-	-

21MB3317	INDUSTRIAL RELATIONS AND LABOUR LEGISLATIONS	L 3	Т 0	P 0	C 3
		•	•	U	0
OBJECTIVES:		unda	oroti	andi	na
of indu	blore contemporary knowledge and gain a conceptual strial relations.				ng
	ve a broad understanding of the legal principles govern vment relationship at individual and collective level.	ing	the		
UNIT - I	INDUSTRIAL RELATIONS				9
system in India -role - func	e- objectives- Importance - Approaches to IR- Industrial a. Trade Unions Act,1926- trade union movement in In tions-procedure for registration of trade unions- b- problems- Employee relations in IT sector.	dia-		jecti	ive and
UNIT - II	INDUSTRIAL CONFLICTS AND LABOUR WELFA	RE			9
Prevention - Ir	I Disputes Act, 1947-Disputes – Impact – Causes ndustrial Peace - Government Machinery - Conciliation Labour welfare- statutory- Voluntary- welfare fun- labour.	- A	rbitr	atic	n -
UNIT - III	LABOUR LEGISLATIONS - I				9
Factories Act Payment of Bc	owth of labour legislation in India- Principles of labou 1948- Minimum Wages Act, 1948- Payment of Wagonus Act, 1965.				36-
UNIT - IV	LABOUR LEGISLATIONS - II				9
	employment (standing orders) Act, 1946- The Apprentic emuneration act, 1976- Payment of Gratuity act 197 act in 2013.				
UNIT - V	LABOUR LEGISLATIONS - III				9
state insurance	rovident fund and Miscellaneous provisions act, 1952 e (ESI) Act, 1948- Maternity Benefit Act, 1961- Co nd Abolition Act, 1970 -The Child Labour Prevention a	ntra nd I	ict Reg	Lab ulat	our ion
	TOTAL	: 45	PE	RIO	DS
OUTCOMES: On successful	completion of the course student will be able to:				
1. Summa and int the wo	arize the concept of industrial relations as the study of eractions between employers, employees, and their repr rkplace.	ese	ntat	ives	in
	the key provisions and objectives of the Industrial Dispution lating industrial disputes and promoting industrial peace.		Act	,194	17
3. Analyz	e the concept of statutory welfare measures mandated ure the well-being of workers.		/ lat	oorla	aws
	he concepts of Labour legislation and legal provisions fo	r fac	ctory	/	

visions for equal remuneration, gratuity, compensation, oloyment and Apprenticeship. egal provisions for EPF, ESI, Maternity, contract labours, and revention. and Sathish Mamoria, Dynamics of Industrial Relations, olishing House, New Delhi, 2016. Elements of Mercantile Law, Sultan Chand, 2014. dustrial Relations and Labour laws, Vikas, 2015. a, Ranjeet Nambudiri, Patturaja Selvaraj. Industrial relations & Tata McGraw Hill, 2012.
egal provisions for EPF, ESI, Maternity, contract labours, and revention. and Sathish Mamoria, Dynamics of Industrial Relations, blishing House, New Delhi, 2016. Elements of Mercantile Law, Sultan Chand, 2014. dustrial Relations and Labour laws, Vikas, 2015. a, Ranjeet Nambudiri, Patturaja Selvaraj. Industrial relations &
and Sathish Mamoria, Dynamics of Industrial Relations, blishing House, New Delhi, 2016. Elements of Mercantile Law, Sultan Chand, 2014. dustrial Relations and Labour laws, Vikas, 2015. a, Ranjeet Nambudiri, Patturaja Selvaraj. Industrial relations &
blishing House, New Delhi, 2016. Elements of Mercantile Law, Sultan Chand, 2014. dustrial Relations and Labour laws, Vikas, 2015. a, Ranjeet Nambudiri, Patturaja Selvaraj. Industrial relations &
dustrial Relations and Labour laws, Vikas, 2015. a, Ranjeet Nambudiri, Patturaja Selvaraj. Industrial relations &
a, Ranjeet Nambudiri, Patturaja Selvaraj. Industrial relations &
dustrial Laws, PHI, 2017.
Indu Bala Sinha, Seema Priyardarshini Shekhar. Industrial de Unions and Labour Legislation. Pearson, 2017.
bour Laws, 2018.
eeraj Kumar. Employee relations Management. Pearson. 2011.
ndustrial Relations in India, Shifting Paradigms, Macmillan ew Delhi, 2007.
Ratnam, Globalisation and Labour Management Relations, ooks, 2007.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	3	18	5	3	2	5/	-
CO2	-	3	245	2	19.3	3	1	-
CO3	3	-	13	EDUC	ATIO		-	-
CO4	2	3	-	NG	20	3	-	1
CO5	1	-	3	1		-	2	-
CO6	-	2	-	-	-	3	-	2

21MB3318	SOCIAL PSYCHOLOGY	L 3	Т 0	P 0	C 3					
OBJECTIVES:	ECTIVES:									
	Understanding of key theories, concepts and research methods in social psychology.									
	ced understanding of oneself and others in social interac	tion	S.							
	to analyze and interpret socio psychological phen ch findings.	ome	ena	an	d					
UNIT - I	INTRODUCTION TO SOCIAL PSYCHOLOGY	/			6					
	ology – Origin and development – Social I t -Applications in society and business.	beh	avio	or a	and					
UNIT - II	PERCEIVING AND UNDERSTANDING OTHER	RS			9					
-	eption – Nonverbal communication – Attribution d impression management.	- 1	mpr	ess	ion					
UNIT - III	COGNITION IN THE SOCIAL WORLD			1	0					
Self, Self Este Schemas Hei dissonance.	em & Social Comparison, self-efficacy, narcissism, Soc uristics – Errors – Attitudes & Behavior – Persuasio	n –	cogi Co(	nitio gnit	n - ive					
UNIT - IV	INTERPERSONAL RELATIONS			1	10					
Social identity and Relations	<ul> <li>Prejudice - Discrimination - Aggression - Interperso hips.</li> </ul>	nal	attr	acti	on					
UNIT - V	APPLIED SOCIAL PSYCHOLOGY			1	10					
	nce – Conformity – Compliance – Social Influence roups - Social issues, Stress, personal beliefs and hea		Pro	soc	ial					
	TOTAL	: 45	PEF	rio	DS					
OUTCOMES:	09									
	completion of the course student will be able to:									
	arize the fundamentals of social psychology.									
,	ocial perception and impression management. e the social cognition and comparison.									
	<b>.</b>	ouri	stic	<u> </u>	nd					
	Demonstrate a comprehensive understanding of schemas, heuristics, a errors in social judgment, attitudes, persuasion, and cognitive dissonance.									
	Evaluate social Identity and interpersonal attraction and relations.									
6. Create										
TEXT BOOKS										
1. Baron, 2014.	Byrne and Brascombe, Social Psychology, 13th Edit	ion,	Pe	arso	on,					
2. David (	G. Myers, Social Psychology, Tata McGraw Hill, 11th Ed	tion	,							
REFERENCES	3:									

1.	Baron and Byrne, Social Psychology, 8th Edition, PHI, 2006.
2.	Howitt. Social Psychology. Tata McGraw Hill.
3.	Rohall et al. Social Psychology. PHI Learning. 2nd edition.
4.	Attitudes, Personality and Behaviour. Ajzer. Tata McGraw Hill.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	-	2	-	-	3	-	1
CO2	-	-	3	-	1	-	-	-
CO3	3	-	- AL	SRING	2	2	-	2
CO4	2	-/	3	-	-	3	-	-
CO5	-	131	(-~	~~	3	No	<u>\-</u>	-
CO6	3	13-1	5	200	8-	3	E.	3



					С	
21MB3319	1MB3319ORGANIZATIONAL DESIGN, CHANGE AND DEVELOPMENTLTF300					
OBJECTIVES	:					
conce	p the students to gain knowledge about the organization on the students to gain knowledge about the organization on the second pts of change management and to acquire the skills require ange effectively.				ge	
applica	erstand the concept and techniques of OD and to enhand tion of OD intervention in organizations.		kills	for	the	
• To com	prehend the multifaceted aspects of organizational evolution	tion.				
UNIT - I	ORGANIZATIONAL DESIGN			9	9	
- Differentiat Mutual adjus	al Design - Determinants - Components - Basic Challen on, Integration, Centralization, Decentralization, Sta tment - Mechanistic and Organic Structures - Tech al Impacts on Design importance of Design - Success a	anda nolog	rdiz gica	atio I ar	n, nd	
UNIT - II	ORGANIZATIONAL CHANGE				9	
and forms of - organization	cure, Forces for change - change agents - Change pro change. Models of change - Resistance to change - indi al factors - techniques to overcome change - Change p	vidu	al fa	acto	rs	
redesign.	2 ( SUBS ) =					
UNIT - III	ORGANIZATIONAL DEVELOPMENT				9	
UNIT - III Introduction Process of O - stages - Tec	ORGANIZATIONAL DEVELOPMENT - evolution – basic values and assumptions – foundate D - managing the phases of OD – Organizational diagnor hniques – Questionnaire, interview, workshop, task-force eedback of diagnostic information.	osis -	- Pro	OD oces	) – SS	
UNIT - III Introduction Process of O - stages - Tec	- evolution - basic values and assumptions - foundar D - managing the phases of OD - Organizational diagno hniques - Questionnaire, interview, workshop, task-forc	osis -	- Pro	OD oces ctin	) – SS	
UNIT - III Introduction Process of O - stages - Tec analyzing - fe UNIT - IV Human proce - structure at	- evolution - basic values and assumptions - foundate O - managing the phases of OD - Organizational diagnor hniques - Questionnaire, interview, workshop, task-force eedback of diagnostic information. <b>OD INTERVENTION</b> ss interventions - Individual, group and inter - group hund technological interventions - strategy interventions vey feedback, process consultation - team building	osis - ce - c man s - s	- Pro colle rela	OD oces cting atior	) – ss g, 9 ns ity	
UNIT - III Introduction Process of O - stages - Tec analyzing - fe UNIT - IV Human proce - structure at training - su	- evolution - basic values and assumptions - foundate O - managing the phases of OD - Organizational diagnor hniques - Questionnaire, interview, workshop, task-force eedback of diagnostic information. <b>OD INTERVENTION</b> ss interventions - Individual, group and inter - group hund technological interventions - strategy interventions vey feedback, process consultation - team building	osis - æ - c man s - s - in	- Pro colle rela sens ter-	OD oces ctine atior sitivi grou	9 ns ity	
UNIT - III Introduction Process of O - stages - Tec analyzing - fe UNIT - IV Human proce - structure at training - su development UNIT - V Organization Decision mal	- evolution - basic values and assumptions - foundar O - managing the phases of OD - Organizational diagno hniques - Questionnaire, interview, workshop, task-force eedback of diagnostic information. <b>OD INTERVENTION</b> ss interventions - Individual, group and inter - group hund technological interventions - strategy interventions vey feedback, process consultation - team building	man s - s - in NCE	- Pro colle rela sens ter-	OD oces octing ation sitivi grou	9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
UNIT - III Introduction Process of OI - stages - Tec analyzing - fe UNIT - IV Human proce - structure at training - sui development UNIT - V Organization Decision mal Creativity - H	evolution – basic values and assumptions – foundate D – managing the phases of OD – Organizational diagnor hniques – Questionnaire, interview, workshop, task-force eedback of diagnostic information. OD INTERVENTION ss interventions – Individual, group and inter – group hund technological interventions – strategy interventions vey feedback, process consultation – team building models of transformation – Models of O king – Organizational Learning – Innovation, Entrepreter	osis - ce - c man s - s - in NCE Orgar neur	- Pro olle rela sens ter-	OD oces octing ation sitivi grou	9 9 9 ns ity 9 al nd	
UNIT - III Introduction Process of O - stages - Tec analyzing - fe UNIT - IV Human proce - structure at training - sur development UNIT - V Organization Decision mal Creativity - H	evolution - basic values and assumptions - foundate D - managing the phases of OD - Organizational diagnor hniques - Questionnaire, interview, workshop, task-force eedback of diagnostic information. OD INTERVENTION ss interventions - Individual, group and inter - group hund technological interventions - strategy interventions vey feedback, process consultation - team building  ORGANIZATIONAL EVOLUTION AND SUSTENAL al life cycle - Models of transformation - Models of O king - Organizational Learning - Innovation, Entrepret R implications. TOTAL:	osis - ce - c man s - s - in NCE Orgar neur	- Pro olle rela sens ter-	OD oces octing ation sitivi grou	9 9 9 ns ity 9 al nd	
UNIT - III Introduction Process of OI - stages - Tec analyzing - fe UNIT - IV Human proce - structure at training - sui development UNIT - V Organization Decision mal Creativity - H OUTCOMES: On successfu 1. Comp	evolution - basic values and assumptions - foundate D - managing the phases of OD - Organizational diagno hniques - Questionnaire, interview, workshop, task-force eedback of diagnostic information. OD INTERVENTION ss interventions - Individual, group and inter - group hur nd technological interventions - strategy interventions vey feedback, process consultation - team building  ORGANIZATIONAL EVOLUTION AND SUSTENAL al life cycle - Models of transformation - Models of O king - Organizational Learning - Innovation, Entrepret R implications. TOTAL: completion of the course student will be able to: rehend the principles and basic concepts of organization of the principles of the course student will be able to: the principles of the course student will be able to: the principles of the course student will be able to: the principle of the course student will be able to: the principle of the course student will be able to: the principle of the course student will be able to: the principle of the course student will be able to: the principle of the course student will be a	man s - s - in NCE Orgar neur	- Pro- colle rela sens ter- niza ship	OD oces cting atior sitivi grou tion o ar	9 9 9 ns ity 9 al nd	
UNIT - III         Introduction -         Process of O         - stages - Tec         analyzing - fe         UNIT - IV         Human proce         - structure at         training - sur         development         UNIT - V         Organizationa         Creativity - H         OUTCOMES:         On successfu         1.       Comp         structure	evolution - basic values and assumptions - foundate D - managing the phases of OD - Organizational diagnor hniques - Questionnaire, interview, workshop, task-force eedback of diagnostic information. OD INTERVENTION ss interventions - Individual, group and inter - group hub nd technological interventions - strategy interventions vey feedback, process consultation - team building ORGANIZATIONAL EVOLUTION AND SUSTENAL al life cycle - Models of transformation - Models of O king - Organizational Learning - Innovation, Entrepret R implications. TOTAL: completion of the course student will be able to: rehend the principles and basic concepts of organization of irre. the knowledge of various functions in order to facilitate su	man s - s - in NCE Orgar neur	- Pro- colle rela sens ter- niza ship PER	OD oces octing atior sitivi grou tion o ar	9 9 9 ns ity 9 al nd	

4.	Apply the various components including individual, group, and inter-group
	human relations techniques, to foster effective relationships and improve
	organizational dynamics.
5.	Analyze the various methodologies or strategies to improve inter-group
	development.
6.	Create awareness in monitoring and fostering long-term success and
TEVT	adaptability. BOOKS:
1.	Thomas G. Cummings, Christopher G. Worley: Organisation Development And Change, Thomson Learning.
2.	Organizational, Design, and Change-Gareth R. Jones, 5th Edition, Pearson
	Education.
3.	"Organization Development: A Practitioner's Guide for OD and HR"by Mee-Yan
	Cheung-Judge and Linda Holbeche, Kogan Page.
REFE	RENCES:
1.	French & Bell: Organisational Development, McGraw-Hill, 2005.
2.	Wendell L. French, Cecil H. Bell, Jr, Veena Vohra – Organization
	Development: Behavioral Science Interventions for Organizational
	Improvement, Sixth Edition 2017.
3.	Rajiv Shaw: Surviving Tomorrow: Turnaround Strategies In Organisational
	Design And Development, Vikas Publishing House.
4.	S. Ramnarayan, T. Venkateswara Rao, Kuldeep Singh: Organization Development Interventions And Strategies, Sage Publications.
5.	Organization Development, behavioral science interventions for Organization
	Improvement, Wendell French, Cecil H.Bell, Veena, Jr, Pearson, PHI.
6.	Change & Knowledge Management-R.L. Nandeshwar, Bala Krishna
	Jayasimha, Excel Books, 1st Ed.
7.	Management of Organizational Change - K Harigopal - Response BOOKS,
	2nd editon, 2006.
	IE COURSES / RESOURCES:
1.	https://bersinacademy.com
2.	https://www.futurelearn.com
3.	https://instituteod.com
4.	https://www.middleearthhr.com
5.	https://www.aihr.com/blog/organizational-life-cycle/

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	-	-	-	-	3	3	2
CO2	-	1	-	-	2	3	3	2
CO3	2	-	1	-	-	2	2	-
CO4	-	-	-	-	2	3	3	1
CO5	-	-	3	-	-	3	3	-
CO6	-	2	-	-	-	3	3	2



				T					
21ME	33320	NEGOTIATION AND CONFLICT MANAGEMENT	L 3	Т 0	P 0	C 3			
OBJE	IECTIVES:								
•		e practical skills in conflict management techniques a				es,			
•		ng effective communication, active listening, and problem stand and navigate ethical considerations and cultural dif			-	at			
•		ise in negotiation and conflict management processes.	lere	ince	:5 u i	aı			
UNIT -		FUNDAMENTALS OF NEGOTIATION				9			
-		cteristics of negotiation- Dimensions of Negotiation-Stru	uctu	re-	Nor	ms			
& valu	es- Typ	es of Negotiation- Negotiation process- Perception and n and Influence-Techniques of Negotiation- Issues in neg	d Pi	ера	rati				
UNIT -	·	NEGOTIATION STRATEGIES				9			
bargai	ning - I	planning for negotiation- Strategy and Tactics for ntegrative negotiation-Negotiation power- source of ation-Ethics in negotiation.							
UNIT -	·	INTRODUCTION TO CONFLICT MANAGEMEN	T			9			
Models approa distribu Disadv	s of co ach, con ution, co /antages	conflict, components, perspective of conflict- Type onflict (Process & Structural)-Sources of conflict- flict management process, conflict domain, conflict to onflict mapping and tracking- conflict & performance - of Conflict.	Co renc Adv	ontir Is, (	ngei conf	ncy flict s &			
UNIT -	· IV	MANAGING INTERPERSONAL, GROUP AND ORGANIZATIONAL CONFLICT	)			9			
Organi	izational	rence- Personalities & abilities- Interpersonal conflict- ( conflict- Dealing with difficult subordinates & boss- onflict- organizational conflict strategies.							
UNIT -	٠V	CONFLICT RESOLUTION AND COST				9			
conflic	Conflict resolution models-framework model-classical ideas- new developments in conflict resolution-Environmental conflict resolution-gender and conflict resolution-Assessing the cost of workplace conflict.								
		TOTAL	: 45	PEI	rio	DS			
	OMES: ccessful	completion of the course student will be able to:							
1.	Develo	p a solid foundation in negotiation theory, encon nentals, types, process, and various techniques used in r				he			
2.	Analyz	e and apply effective strategies and tactics in negotiati				eve			
3.	<ul> <li>desired outcomes and manage complex situations.</li> <li>Gain a comprehensive understanding of conflict management, including the basics, models, approaches, and the overall process involved in effectively addressing conflicts.</li> </ul>								

4.	Students will be able to analyze and understand the dynamics of conflict distribution within organizations, identifying the sources and patterns of conflicts that impact performance.
5.	Explore techniques for managing interpersonal, group, and organizational conflicts, with an emphasis on developing practical skills to navigate and resolve such conflicts.
6.	Examine conflict resolution models and assess the costs associated with workplace conflict, emphasizing the importance of proactive conflict resolution strategies for organizational success.
TEXT	BOOKS:
1.	Managing conflict and negotiation, B.D. Singh, 1st edition, Excel books, 2008.
2.	Managing Conflict in Organizations, M. Afzalur Rahim, 4th Edition, Transaction Publishers, 2011, ISBN 1412844258, 9781412844253.
REFE	RENCES:
1.	Negotiation - Lewicki, Saunders, Barry, TMGH, 2014.
2.	Corporate Conflict Management - concepts & skills by Eirene Rout, Nelson Omika, PHI, 2007.
3.	Negotiation- Communication for diverse settings- Michael Spangle, Sage Publication, 2008.
4.	Conflict Management: Practical guide to develop negotiation strategies, Barbara A Budjac Corvette, Pearson Prentice Hall, 2006, ISBN: 8174466428, 9788174466426
5.	Negotiation, Harvard Business Essentials, Harvard Business School Press, 2003.
6.	How to negotiate effectively, David Oliver, The Sunday Times, Kogan Page, 2010.
7.	Conflict Resolution Techniques by Subbulakshmi, ICFAI University press, 2005.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	-	2		1	-	2	1
CO2	-	-	-	-	-	-	-	-
CO3	2	-	2	-	2	-	3	-
CO4	-	3	-	-	-	-	3	-
CO5	2	-	-	-	3	-	-	3
CO6	-	-	2	2	-	-	3	-

[			L	Т	Ρ	С						
21ME	33321	REWARD AND COMPENSATION MANAGEMENT	3	0	0	3						
	CTIVES:			I	1							
- ODJL		part skills in designing analyzing and restruct	urin	a	rewa	ord						
•	manag	ement systems, policies and strategies.		•		aiu						
•		erstand the various dimensions of Compensation Manag	em	ent.								
UNIT -		INTRODUCTION				9						
Compe -types	ensation of wag	<ul> <li>Definition - objectives- principles of compensation for Design and strategy- theories of wage determination- W ges- wage boards- wage policy. Compensation benchmarking - compensation trends and reward system</li> </ul>	age de	e Str cisio	ructi ons							
UNIT -	I	EMPLOYEE COMPENSATION AND LABOUR MAP	RKE	Т		9						
market demar theorie compe	t- Neoc d-econc es and ensation.	$\left \frac{3}{2}\right $ $\sim$ $\sim$ $\left \frac{3}{2}\right $	ุรเ on- of	ippl eco em	ly a onoi	and mic /ee						
UNIT -		MANAGING EMPLOYEE BENEFITS AND REWAR	RDS	5		9						
Approa UNIT - Perfor	IV mance	c concepts of reward management - Designing re reward system- Difference between reward and comper PERFORMANCE RELATED COMPENSATION management system (PMS)-performance objectives metric -effective performance modeling-dimensions of	nsat N - i	ion. ndio	cato	9 ors-						
compe Enterp	etency b prise Inc	ased pay. Team Compensation – Gain Sharing Inc entive Plan - Profit Sharing Plan- ESOPs.	enti									
UNIT -	V	EXECUTIVE AND SALES COMPENSATION PL	٩N			9						
betwe Compe	en Fixe ensation	ompensation – Components, Theories, Design- ed and variable pay-Executive Incentive Progra plan- design and administration- sales incentives an Management in Multi-National organisations.	mm	ies.	S	ale						
		TOTAL	45	PEI	RIO	DS						
	OMES:	completion of the course student will be able to:										
1.	Unders	tand the fundamentals of Compensation Management is, including theories and strategies.	an	d R	lewa	ard						
2.	Analyz	e the economics of the labor market and its impact o	n er	nplo	byee	;						
3.	Analyzo conside	e the trade-offs involved in employee compensation e ering factors such as salary, benefits, incentives, and			compensation. Analyze the trade-offs involved in employee compensation decisions, considering factors such as salary, benefits, incentives, and non-monetary rewards.							

4.	Manage employee benefits and rewards effectively.					
5.	Implement performance-related compensation systems.					
6.	Design executive and sales compensation plans based on relevant theories and considerations.					
TEXT	BOOKS:					
1.	Richard Thrope & Gill Homen: Strategic Reward Systems- Prentice-Hall, 2000.					
2.	Joseph. J. Martocchio: Strategic Compensation - A Human Resource Management Approach - Prentice-Hall.					
REFE	RENCES:					
1.	Richard. I. Henderson: Compensation Management in a Knowledge Based World - Prentice Hall, 2007.					
2.	Reward Management: A Handbook of salary administration by Armstrong, Michael and Marlis, Kogan page business books, 2005.					
3.	Thomas. P. Plannery, David. A. Hofrichter & Paul. E. Platten: People Performance & Pay - Free Press.					
4.	Michael Armstrong & Helen Murlis: Hand Book Of Reward Management – Crust Publishing House.					
5.	Edwarde. E. Lawler III: Rewarding Excellence (Pay Strategies for the New Economy) - Jossey Bass.					
	PO					

PO CO	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	6 - 6		5.57E	32.	3	3	-
CO2	-/+	2			1	61×1	-	2
CO3	3	11.3		2	D)	3	2	-
CO4	3	2	9)	etting 24	13	2-	-	1
CO5	-	-	EDI	ICATIO	102	3	-	-
CO6	3	-	R	RAG	Ø -	2	3	-
			1	0				

21MB3322	INTERNATIONAL HUMAN RESOURCE MANAGEMENT	L 3	T 0	P 0	C 3			
OBJECTIVES:								
• Develop an understanding of the key concepts, theories, and frameworks in international human resource management (IHRM) and its significance in the global business environment.								
<ul> <li>Analyze the challenges and opportunities in managing human resources across different countries and cultures, including issues related to global staffing, expatriation, and repatriation.</li> </ul>								
factors	<ul> <li>Explore the impact of international labor laws, regulations, and cultural factors on HR practices, policies, and strategies in multinational organizations.</li> </ul>							
UNIT - I	INTRODUCTION TO IHRM				9			
Model, Harva	volution of HRM- Importance of IHRM, Models of IHR rd Model, Contextual Model, 5p Model, European dardization and Localization of HRM practices.							
UNIT - II	IHRM STRATEGIES			1	0			
Internationalization and world business – Strategic orientation, IHRM in cross border Mergers and Acquisitions, International Alliances – IHRM & Competitive advantage- Cultural context of IHRM.								
UNIT - III	RECRUITMENT AND SELECTION				6			
International Managers staffing - Approaches to staffing - Role of Expatriates - Role of inpatriate - Role of Non expatriates- recruitment and selection methods- Current practices.								
UNIT - IV	TRAINING AND DEVELOPMENT, PERFORMAN APPRAISAL	RFORMANCE 10						
Expatriate training program, components, types, effectiveness measures, HCN training- Trends in international training and development - repatriation process and training. International performance Management methods – cultural issues in Performance Management.								
UNIT - V	INTERNATIONAL COMPENSATION			1	0			
•	of international compensation- Approaches to -Challenges and choices -International Labor Standar							
	TOTAL	: 45	PEF	rioi	DS			
OUTCOMES: On successful	completion of the course student will be able to:							
1. Compre Interna	ehend the fundamental concepts, models, and practices	of						
2. Analyz								

3.	Apply international practices in recruitment and selection processes across different cultural contexts.					
4.	Evaluate international perspectives on training and development, considering the unique challenges of managing employees in a global workforce.					
5.	Analyze international performance appraisal practices, in evaluating and managing employee performance in a global context.					
6.	Implement effective international practices in compensation management to attract, retain, and motivate employees in a globalized business environment.					
TEXT	BOOKS:					
1.	Peter J Dowling & D E. Welch: International Human Resource Management, Cengage Learning 7th Edition IE., 2017.					
2.	P L Rao, International Human resource Management- Text and Cases, Excel Books.					
REFE	RENCES:					
1.	Monir H. Tayeb: International Human Resource Management, A Multinational Company Perspective Oxford University Press, IE.					
2.	Ibraiz Tarique, Dennis Briscoe & randall, International Human Resource Management- Policies and practices for Multinational Enterprises, Routledge, 5th edition.					
3.	Anne- Wil Har Zing, Ashly Pinnington, International human Resource Management, 3rd edition, Sage Publication					
4.	Christopher Brewster, Guy Vernon, Paul Sparrow, Elizabeth Houldsworth - International Human Resource Management, Kogan Page Publishers.					

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
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CO2	-	1447	HIER		2	1-	3	-
CO3	-	2		CAIN	-	-	-	-
CO4	3	2	2	2	3	-	3	-
CO5	-	-		-00	-	-	-	-
CO6	3	2	-	-	2	-	3	-

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21MB3323	21MB3323HUMAN RESOURCE ANALYTICSLTF300									
	OBJECTIVES:									
	velop the ability of the learners to define and impleme are aligned with the overall business strategy	ent H	IR I	met	rics					
<ul> <li>To know the different types of Recruitment metrics and understand their respective impact and application in organizations.</li> </ul>										
To understand the impact and use of Training & Development metrics     and their influence on assessing employee productivity.										
To ider	ntify employee engagement and career progression in org	-								
	erstand common workforce diversity issues and resolvi analytics	ing t	hen	า นร	sing					
UNIT - I	INTRODUCTION TO HR ANALYTICS				9					
	<ul> <li>People Analytics: Definition- context - stages of mate Value Chain: impact on business. HR Analytics vs nd KPIs.</li> </ul>									
UNIT - II	HR ANLYTICS I: RECRUITMENT				9					
Employee refe	letrics : Fill-up ratio - Time to hire - Cost per hire - Ea erral hires - Agency hires - Lateral hires - Fulfillment ra ent to HR cost - Recruitment analysis.									
UNIT - III	HR ANALYTICS II : TRAINING AND DEVELOPME	INT			9					
externally train of HR Program	evelopment Metrics: Percentage of employee trained- ed -Training hours and cost per employee - ROI - Optin is - Training and Development analysis.	nizin	g th							
UNIT - IV	HR ANALYTICS III : EMPLOYEE ENGAGEMENT CAREER PROGRESSION				9					
	agement Metrics: Talent Retention - Retention index -									
-	nover- Turnover by department, grades, performance nal hired index - Engagement Survey Analysis. Caree									
	motion index - Rotation index - Career path index									
UNIT - V	HR ANALYTICS IV: WORKFORCE DIVERSITY A DEVELOPMENT	٩ND			9					
age profiling diversity index Operating cos	ersity and Development Metrics : Employees per manage - Workforce service profiling - Churn over index - Gender mix – Differently abled index- Revenue per t per employee- PBT per employee - HR cost per en ce - Compensation to HR cost.	ہ ۔ er er	Wor nplo	kfor byee	rce ∋ -					
	TOTAL:	45 I	PEF	RIO	DS					
	completion of the course student will be able to:			ايرون						
1. To cor work se	mprehend the various HR metrics and develop capab ettings	onity	to a	ippl	y a					

2.		To evaluate the various HR Key Performance Indicators in evaluating						
		organizational effectiveness						
3.		To analyze the various metrics of recruitment analytics to enhance						
		effectiveness in the hiring process.						
4.		Apply the relevant metrics for assessing the effectiveness of training and						
		development.						
5.		Proficiency in evaluating the effectiveness of employee engagement by						
		usageof analytics and comply with the analytics of career progression						
6.		Evaluate the various components of analytics of workforce diversity and						
	-)/-	development.						
IE		BOOKS:						
	1.	JacFitzenz, The New HR Analytics, AMACOM, 2010.						
	2.	Edwards M. R., & Edwards K, Predictive HR Analytics: Mastering the HR						
		Metric. London: Kogan Page.2016.						
	3.	Dipak Kumar Bhattacharyya, HR Analytics, Understanding Theories and						
		Applications, SAGE Publications India, 2017.						
RE	EFEF	RENCES:						
	1.	Human Resources kit for Dummies - 3rd edition - Max Messmer, 2012						
	2.	Sesil, J. C., Applying advanced analytics to HR management decisions:						
		Methods for selection, developing incentives, and improving collaboration.						
		Upper Saddle River, New Jersey: Pearson Education, 2014.						
	3.	Pease, G., & Beresford, B, Developing Human Capital: Using Analytics						
		to Plan and Optimize Your Learning and Development Investments. Wiley,						
		2014.						
	4.	Phillips, J., & Phillips, P.P, Making Human Capital Analytics Work:						
		Measuring the ROI of Human Capital Processes and Outcomes. McGraw- Hill, 2014.						
	5.	HR Scorecard and Metrices, HBR, 2001.						
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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CO3	-	3	-	-	-	3	3	-
CO4	3	2	3	-	3	3	-	-
CO5	-	-	3	-	-	-	3	-
CO6	-	-	2	-	2	3	-	-

21MB3324	1MB3324TRAINING AND DEVELOPMENTLT30										
OBJECTIVES											
develop	development in the workplace.										
	<ul> <li>To enable the students to analyze the training needs of individuals and organizations using appropriate tools and techniques.</li> </ul>										
-											
	e skills in delivering training sessions through variou for improvement.	us as	sses	sme	nt						
organiz	anding the objectives of evaluating training pro ation for better performance.	•			an						
develop	t the students to understand the methods of evaluation ment programs.	of tr	ainin								
UNIT - I	INTRODUCTION			9							
	lopment and Performance consulting - Building Learning cies - organizational climate for training and development										
UNIT - II	TRAINING NEED ANALYSIS			9	)						
	dentification of training needs and process - tools and I, task and individual analysis - consolidation.	l tecl	nniqı	ues	-						
UNIT - III	DESIGN OF TRAINING AND DEVELOPMENT PROC	GRA	MS	9	)						
- Learning cyo	g and developmental needs - objectives of various theored cles - factors for fixing duration - selection of participar se contents - in house arrangements and outsourcing ainers.	nts -	choi	ce c	of						
UNIT - IV	DELIVERING TRAINING AND DEVELOPMENT PRO	GRA	MS	9	)						
	f programs - ice breaking and games - relevance o ut facilitating interactions - audio visual aids.	f pa	rticip	ant	S						
UNIT - V	EVALUATION OF TRAINING AND DEVELOPME PROGRAMS	INT		9	)						
reaction, learn	evaluation – micro and macro levels – methods of ning, behavior and results - Cost benefit analysis - Role n evaluations - Design of Evaluation - Kirkpatrick's mo	of tr									
	TOTAL	: 45 F	PERI	ODS	S						
OUTCOMES: On successful	completion of the course student will be able to:										
1. Compr	ehend the concepts and policies of employee developme zations.	ent in									
2. Summ	arize on training need process and techniques to identify ement within an organization.	area	is foi	•							
	ehend the importance of effective training design in achie	eving	leai	rning	g						

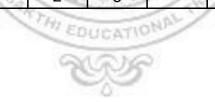
4.	Summarize delivery of training programs through relevant modes and platforms.
5.	Understand the evaluation of training and development programs for enhancing performance and addressing organizational needs.
6.	Comprehend the impact training evaluation and making necessary adjustments for continuous improvement.
TEXT	BOOKS:
	Raymond A Noe and Amitabh DeoKodwani, Employee Training and Development, 7th Edition, Tata McGraw Hill, 2018
2.	Randy L. Desimone, Jon M. Werner - David M. Mathis, Human Resource Development, 6th Edition, Cengage Learning, 2012.
3.	Craig, Robert L., Training and Development Handbook, McGraw Hill
REFE	RENCES:
1.	Rolf, P., and Udai Pareek, Training for Development, Sage Publications Pvt. Ltd., 3rd Edition, October 2011
2.	Stimson N, "How to write and prepare training materials", Kogan page, 2nd edition, 2002.
3.	Prior, John, Handbook of Training and Development, Jaico Publishing House, Bombay
4.	Trvelove, Steve, Handbook of Training and Development, Blackwell Business.
5.	Garner, James, Training Interventions in Job Skill Development, Addison- Wesley. Kenney, John; Donelly, Eugene L. and Margaret, Training &Development, London Institute of Personnel Management
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CO3	3	-	2	3	2	2	2	-
CO4	1	-		3	3	-	-	-
CO5	2	_	2	2	2	1	1	-
CO6	3	_	2	3	-	2	2	-

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21MB3325	LEARNING AND DEVELOPMENT	L 3	Т 0	P 0	C 3						
OBJECTIVES											
princip learnin	<ul> <li>Develop a comprehensive understanding of the concepts, theories, and principles of learning and development in organizations</li> </ul>										
<ul> <li>Design and implement effective learning and development programs that align with organizational goals and support employee growth and skill enhancement.</li> </ul>											
experie	ce facilitation and instructional skills to effectively d ences through various modalities and platforms.	elive	er le	earr							
UNIT - I	LEARNING STYLES AND STRATEGIES				9						
Bloom's Taxo learning -Rece	ciples – Learning strategies and styles – Kolb's Lea nomy- Individual differences in the Learning process ent developments in Instructional and cognitive psychol naviour-External influences -Internal factors that influences ROLE ANALYSIS AND TRAINING NEED ANALYS	s. M ogy. nce	axii Mo	mizi odel	ng of						
Role Analysis Role of T & D Needs: Organ needs - identi	Developing the person in the role, RAT (Role Analysis in organization - Training Process model- Identificatio izational analysis - Task Analysis - Person analysis - Pr fying individual's developmental needs.	s Te on o	f Tr	aini	ng RD						
UNIT - III	DESIGNING TRAINING AND DEVELOPMENT				9						
	training design -defining the objectives – make / bu trainers – preparing lesson plan, training methods										
UNIT - IV	IMPLEMENTING T & D PROGRAMS				9						
Techniques o	ery methods, principles involved in selection of vario f training at different levels - Skills of an effective traine chnology in training.										
UNIT - V	EVALUATION AND TRANSFER OF TRAINING	G			9						
Transfer of tra		Org iding	gani g co	izati omm	on						
	TOTAL:	45	PEF	RIO	DS						
OUTCOMES: On successful	completion of the course student will be able to:										
	ehend the principles and appropriate learning styles to ex o maximize learning.	xplo	re th	ne							
2. Summ needs.	arise the role analysis and prioritise the Human resource	dev	elop	ome	nt						
	<ol> <li>Interpret the importance of effective training design in achieving desired learning outcomes.</li> </ol>										

4.	Understand the training delivery methods and techniques of Training & Development programs.
5.	Comprehend the importance and purpose of training evaluation.
6.	Summarise the factors influencing transfer of training.
TEXT	BOOKS:
1.	Beevers, K., Rea, A., & Hayden D, "Learning and Development Practice in the Workplace", Kogan Page, 2019.
2.	De Simone R, L., & Werner, J, M, "Human Resource Development", 6th Edition, Cengage learning, 2016.
REFE	RENCES:
1.	Ford, J K, "Learning in Organizations- An Evidence-Based Approach", Taylor & Francis, 2020. 72
2.	Noe, R, "Employee Training & Development", 8th Edition, McGraw Hill, 2020.
3.	Ross, S C, "Training and Development in Organizations - An Essential Guide for Trainers", Taylor & Francis, 2018.
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CO1	3	12	13	10	2	2	1	-
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CO3	3	<i>l</i> -	2	3	2	2	2	-
CO4	1	21*	日息。	3	3	/*/	-	-
CO5	2	1-1	2	2	2	(2)	1	-
CO6	3	1200	2	3	1	2	2	-



21ME	21MB3326 PEOPLE ANALYTICS L T P 3 0 0										
OBJE	CTIVES:										
•	• Understand the importance and benefits of HR metrics in measuring and analysing HR data.										
•	<ul> <li>Understand the significance of diversity and inclusion in recruitment and the metrics used to assess diversity efforts</li> </ul>										
•											
UNIT -		INTRODUCTION TO HR METRICS AND EXCEL CHA	٩RT	ING	İ	9					
Applica (Impor	Evolution and timeline of HR Analytics - Types of Analytics - HR Analytics Applications - Summarizing & Reporting HR Data using Business Intelligence tools (Importing Data, What-if Scenarios, Pivot Tables, Representation through Funnel Chart, Bullet Chart, Pyramid, Thermometer Chart, Dynamic Charts etc.)										
UNIT -	Π	RECRUITMENT AND DIVERSITY ANALYTICS	S			9					
and R Efficie	enege( ncy, Rec	or Recruitment and Employer Branding, Diversity Index Logistic Regression), Attrition (Random Forest Algorit ruitment Metrics.	hm)	, Cł							
UNIT -	111	TRAINING AND DEVELOPMENT AND WORKFOI DEPLOYMENT ANALYTICS	RCE			9					
Emplo	yee Prof	ome Analysis, Training hours and cost metrics, RC iling, Turnover Index, Natural Language Processing in I nployee insights.									
UNIT -	IV	TALENT RETENTION AND CAREER PROGRESS ANALYTICS	SIOI	N		9					
Readir	ness inde	x, Voluntary and involuntary Turnover, Career Path Inde ex, Employee Satisfaction and Engagement Surveys, Ga agement									
UNIT -	V	HR AUDITS AND VISUALIZATION OF HR DAT	Ά			9					
Audit,	Benchm	ess, Recruitment and Selection Process Audit, Statutor arking, Design Thinking Principles for Dashboards, KF , HR Balanced Scorecard.									
		TOTAL	: 45	PEF	rio	DS					
	OMES:	completion of the course student will be able to:									
1.											
2.	-	te and derive insights from Recruitment and Diversity me									
3.	Explore	xplore techniques for analyzing recruitment data to identify areas for nprovement and enhance recruitment strategies.									
4.	Analys	e and obtain insights from Training & Development a ment metrics.	nd	Wor	kfor	ce					

5.	Assess and infer insights from Talent Retention and Career Progression metrics.								
6.	Perform HR Audits and present HR data through dashboards.								
TEXT	TEXT BOOKS:								
1.	Acharya, S. "Data Analytics Using R", McGraw Hill Education, 2018.								
2.	Bhattacharyya, D. K., "HR Analytics: Understanding Theories and Applications", 1st Edition, Sage Publications India Pvt Ltd, 2017.								
REFE	RENCES:								
1.	Edwards, M.,& Edwards, K, "Predictive HR Analytics: Mastering the HR Metric", 2nd Edition, Kogan Page, 2019.								
2.	Lander, J. P, "R for Everyone", 2nd Edition, Pearson India Education Services, 2018.								
3.	Shen Ng, M, "Predictive HR Analytics, Text Mining & Organizational Network Analysis with Excel" Independently Published, 2019.								

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CO6	-	2	1		1.0	97	2	-



21MB332	7	PERFORMANCE MANAGEMENT	L 3	Т 0	P 0	С З			
OBJECTIV	'ES:								
		p an understanding of the role of performance managen ee engagement, motivation, and productivity.	nent	t in o	drivi	ng			
		e techniques for setting SMART (Specific, Measurable nt, Time-bound) performance goals.	, Ac	:hie\	able	e,			
Develop strategies for identifying employee development needs, creating development plans, and providing growth opportunities.									
UNIT - I		INTRODUCTION TO PERFORMANCE MANAGEME				9			
Developm Performand System - D	ents ce N Dang	ormance - Meaning of Performance Managemen - Aims and Role of Performance Management - C Management - Characteristics of an Ideal Performance gers of Poorly Implemented PMS - Integrating PM with al Activities.	onti Ma	ribut inag	tion eme	of ent			
UNIT - II		MEASUREMENT AND PM CYCLE				9			
behaviour Dimension Performan	anc is - ice \$	Anagement Process - Approaches to Measuring Perfo Results Approach - Determinants of Performance - Measuring Results: Determining Accountabilities - ( Standard - Measuring Behaviours: Comparative Syste vcle and Linking Performance management with Busines	Pe Obje em -	rforr ectiv - Ab	man ve a solu	nd ute			
UNIT - III		PERFORMANCE PLANNING AND MONITORING				9			
Preparatio Process.	n a Per	al Setting - Gathering data pertaining to Performal nd Communicating Performance System to employe formance Monitoring - Methods and Techniques Metrics and use of analytics.	es	- Aj	opea	als			
UNIT - IV		PERFORMANCE ASSESSMENT AND REVIE	N			9			
affecting A	ppra	dividual Performance - Different Methods of Apprais aisals - Errors - Reducing Rater Biases - Preventing Ra elopment Plan - Significance of Performance Review and	ting	Dis	torti	on			
UNIT - V		MANAGING TEAM PERFORMANCE AND EMPLO DEVELOPMENT	DYE	E		9			
Performan	ice ent ·	d Importance of Teams – Types of Teams and In Management - Purpose and Challenge of Team - Rewarding Team Performance - Role of Performand Styles.	pe	rforr	man	ce			
		TOTAL	: 45	PEF	RIOI	DS			
1. Sur	sful mma	completion of the course student will be able to: arize the concept and importance of performance mana ations.	ager	nen	t in				

2.	Apply the performance management cycle and its key components including goal setting, performance planning, monitoring and feedback.
3.	Analyze skills in creating performance measurement systems that provide meaningful and actionable data.
4.	Evaluate techniques for aligning individual performance goals with organizational objectives.
5.	Apply different methods and techniques for assessing and evaluating performance.
6.	Evaluate the dynamics of team performance and the role of performance management in fostering effective teamwork.
TEXT	BOOKS:
1.	Aguinis, H, "Performance Management for Dummies", John Wiley & Sons, 2019.
2.	Armstrong, M, "Armstrong's Handbook of Performance Management: An Evidence-based Guide to Delivering High Performance", Kogan Page Publishers, 2009.
REFE	RENCES:
1.	Bacal, R, Performance Management", 2 nd Edition, McGraw Hill Professional, 2012.
2.	Herman Aguinis, "Performance Management", 3 rd Edition, Pearson Education India, 2013
3.	Rao, T. V, "Performance Management: Toward Organizational Excellence", SAGE Publications India, 2016.

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CO6	-	3	3	-	3		-	-

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21ME	3328	TALENT ACQUISITION AND MANAGEMENT	3	0	0	3				
OBJEC	CTIVES:									
•	Learn a	about the key principles, strategies and trends in talent a	cqui	sitic	n.					
•	<ul> <li>Understand different selection methods, such as interviews, assessments and background checks.</li> </ul>									
•	<ul> <li>Develop an understanding of ethical considerations and challenges associated with using technology in talent acquisition.</li> </ul>									
UNIT -		INTRODUCTION TO TALENT ACQUISITION				9				
Plannii require Manag	ng , A ements ing Sho	Talent Acquisition, Strategic Alignment and HR F ssessing Staffing Need Analysis, Environmental s and availabilities-demand and supply, Preparing Ac ortage and Surplus Best practices & Trends in Taler Falent Acquisition.	scar ctior	nin ח P	g, lans					
UNIT -		ENGAGING TALENT				9				
Recrui Importa use of	tment, C ance an Psychor	alent Acquisition and Sources of Recruitment, Intern Contract Staffing and Gig Workforce, Selection Tests- d use of measures- Reliability and validity of selection metric tests in Talent Acquisition.	Mea	sur	eme	ent,				
UNIT -	III	ACQUIRING TALENT				9				
metho Measu	d based irement	Nature and Purpose, Interviewing types and choice of I on Needs - Virtual interviews for remote hiring - Inter of attributes and behaviour during Interview, Beha Assessing the effectiveness of Talent Acquisition.	viev	N CC	onte	ent-				
UNIT -	IV	DESIGNING EMPLOYEE ONBOARDING & ENGAGE	EME	INT		9				
Engag Retent turnove	ement ion - Str er and J	to Onboarding, Designing employee Onboarding – Benefits, Drivers, Best Practices and Measureme ategies and Approaches for Retaining Talent - Dealing ob Withdrawals - Role of Coaching and Mentoring in Ma ien X, Y and Z in Talent Management.	nt, with	Emj Vo	ploy lunt	vee ary				
UNIT -	V	ROLE OF INFORMATION TECHNOLOGY IN TAL ACQUISTION	EN	Т		9				
and h	ring sol	ole of Information Technology in Talent Acquisition, Tale lutions, Creating Business Value through Information al media, Mobile apps, Cloud and Big data in Talent Acqu	n Te	echr						
		TOTAL	45	PE	rio	DS				
	OMES:	completion of the course student will be able to:								
<u>1.</u>	Compr	ehend the core concepts of HR Planning, Talent Acqui	sitio	n a	nd					
2.	Manag Apply top tale	the importance of employee branding and its impact	ona	ittra	ctinę	]				

3.	Apply the techniques for screening and assessing candidates during the selection process.										
4.	Evaluate the skills in making data-driven hiring decisions and extending job offers.										
5.	Analyze the strategies for employee engagement in talent retention and organizational success.										
6.	Create the role of Information Technology in Talent Acquisition.										
TEXT	BOOKS:										
1.	Belcourt, M., & McBey, K. J, "Strategic Human Resource Planning", Cengage Learning, 2017.										
2.	Bickham, T, "ATD Talent Management Handbook", 1st Edition, ATD Press, 2015.										
REFE	RENCES:										
1.	Gatewood, R. D., Feild, H. S., &Barrick, M. R. "Human Resource Selection", 9th Edition, Wessex Press Inc., 2018.										
2.	Heneman, H., & Judge, T, Staffing Organizations, McGraw Hill, 2015. 5. Picardi, C. A. "Recruitment and Selection - Strategies for Workforce Planning & Assessment", Sage Publication, 2019.										
	PO         PO1         PO2         PO3         PO4         PO5         PO6         PO7         PO8										

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21MB333	81	SUPPLY CHAIN MANAGEMENT	3	0	0	3				
OBJECTIV	/ES:									
		tand the concepts and importance of supply chain mana ations	gen	nent	in					
<ul> <li>Explore techniques for analyzing and improving the efficiency and effectiveness of supply chain networks</li> </ul>										
Develop an understanding of supply chain risk management and strategies     for mitigating disruptions and enhancing resilience.										
UNIT - I		INTRODUCTION				9				
Importance	e, D	<ul> <li>Evolution, Fundamentals, SCOR Model, Role ecision Phases, Enablers &amp; Drivers of Supply Chain strategy; Supply Chain Performance Measures.</li> </ul>								
UNIT - II		SUPPLY CHAIN NETWORK				9				
options, o Design in s	nline supp	etwork Design – Role in supply chain, Influencing fa e sales and distribution network, Distribution Strategoly chain – Role, influencing factors, framework for ne ertainty on Network Design.	jies	; Ňe	etwo	ork				
UNIT - III		PLANNING DEMAND, INVENTORY AND SUPP	LY			9				
supply cha Pooling, N	ain , /Iana	ply chain cycle inventory and safety inventory - Unce Analyzing impact of supplychain redesign on the in ging inventory for short life-cycle products, multiple cory management; Pricing and Revenue Management.	iver	ntory	/, R	isk				
UNIT - IV		LOGISTICS				9				
transport intermoda proposition	doci I tra n. 3F	<ul> <li>Role, Modes and their characteristics, infrastructure umentation, design options, trade-offs in transport ansportation. Logistics outsourcing – catalysts, be PL, 4PL, 5PL, 6PL; International Logistics - objectives, by, Characteristics of global supply chains, Incoterms.</li> </ul>	atio enef	n d its,	lesią val	gn, lue				
UNIT - V		SUPPLY CHAIN INNOVATIONS				9				
Supply Ch Supply ch	ains nain	Integration, SC process restructuring, IT in Supply , Legible supply chain, Green Supply Chain, Reverse S technology trends – AI, Internet of Things, Augr arehouse automation, Robotics, Immersive technologies	Sup nen	ply	chai	n;				
		TOTAL	45	PEI	rioi	DS				
	-	completion of the course student will be able to:								
1. Co	mpre	ehend the fundamental concepts of Supply chain and nance measures.	how	ı it i	mpr	ove				
2. Ana	alyzo	e the pivotal role of distribution network design, strate chain	gies	s wi	thin	the				

3.	Analyze the impact of supply chain redesign on the inventory
4.	Analyze the Role, design options, infrastructure and policies related to logistics.
5.	Analyze outsourcing, green supply related to logistics.
6.	Apply emerging supply chain technologies and innovations to measure their potential impact on their practices
TEXT	BOOKS:
1	Sunil Chopra, Peter Meindl and Dharam Vir Kalra, Supply Chain Management - Strategy Planning and Operation, Pearson Education, Sixth Edition, 2016.
REFE	RENCES:
1.	Janat Shah, Supply Chain Management - Text and Cases, Pearson Education, 2009
2.	Ballou Ronald H, Business Logistics and Supply Chain Management, Pearson Education, 5 <sup>th</sup> Edition, 2007.
3.	David Simchi-Levi, Philip Kaminsky, Edith Simchi-Levi, Designing and Managing the Supply Chain: Concepts, Strategies, and Cases, Tata McGraw-Hill, 2005.
4.	Pierre David, International Logistics, Biztantra, 2011.

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CO1	3	-	2	0	-	2	2	-
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CO3	2	3	-	-	2	-	-	2
CO4	-	2	1	-	-	-	-	-
CO5	2	2	-	2	-	2	1	-
CO6	3	-	2	-	1	-	2	-

	IMB3332QUALITY MANAGEMENTLT30									
OBJEC	TIVES:			<u>.</u>						
		e the evolution of quality management and its role er satisfaction and organizational excellence.	in	achi	ievir	ng				
•										
		p an understanding of audit processes and continuous a QMS framework	imp	orov	eme	ent				
UNIT - I		INTRODUCTION				9				
and our	er perco quality	rent perspectives. Concept of total Quality – Design, in Attitude and involvement of top management. Custo eption - customer retention. Dimensions of product and s QUALITY MANAGEMENT PHILOSOPHIES AND PRIN	me ervi	r Éo ice o	ocu: qual	s –				
Oakland	d, Shig	<ul> <li>Crosby, Deming, Masaaki Imai, Feigenbaum, Ishi eo Shingo, and Taguchi. Concepts of Quality circle, 8D methodology.</li> </ul>								
UNIT - I		STATISTICAL PROCESS CONTROL				9				
measur definitio product	rement ons, reli tive ma	ables and attributes. Process capability – meaning, sig Six sigma- concepts of process capability. Reliabilit ability in series and parallel, product life characteristics intenance (TPM), Business process Improvement (BPI eengineering process, benefits and limitations.	ty c s ci	onc urve	ept . To	s – otal				
	IV.					es,				
UNIT - I	I V	QUALITY TOOLS AND TECHNIQUES				es, 9				
Quality Six-sigr FMEA Deployr	Tools ma, Ber stage: ment ((	QUALITY TOOLS AND TECHNIQUES - The seven traditional tools of quality, New managemench hch marking, Poka-yoke, Failure Mode Effect Analysis s, design, process and documentation. Quality QFD) - Benefits, house of quality. Taguchi - quality loss tolerance design, signal to noise ratio.	(FN Fui	1EA	) - on					
Quality Six-sigr FMEA Deployr	Tools ma, Bei stage: ment (C eter and	- The seven traditional tools of quality, New managemench marking, Poka-yoke, Failure Mode Effect Analysis s, design, process and documentation. Quality QFD) - Benefits, house of quality. Taguchi - quality loss	(FN Fui	1EA	) - on					
Quality Six-sigr FMEA Deployr parame UNIT - V Introduc Elemen	Tools ma, Ber stages ment (C eter and V ction Q ots, Doc 00 - ISC	The seven traditional tools of quality, New management hch marking, Poka-yoke, Failure Mode Effect Analysis s, design, process and documentation. Quality QFD) - Benefits, house of quality. Taguchi - quality loss tolerance design, signal to noise ratio. <b>QUALITY MANAGEMENT SYSTEMS</b> uality management systems - IS/ISO 9004:2000 - Qua umentation guidelines for performance improvements. Q 0 14000 - Concepts. TQM -culture, framework, benefits	(FN Fun fun	IEA nctio ictio	) - on on, stei	9 9 n - ts -				
Quality Six-sigr FMEA Deployr parame UNIT - V Introduc Elemen QS 900 and obs	Tools ma, Ben stages ment (Ceter and teter and teter and veter and veter and stacles	The seven traditional tools of quality, New management hch marking, Poka-yoke, Failure Mode Effect Analysis s, design, process and documentation. Quality QFD) - Benefits, house of quality. Taguchi - quality loss tolerance design, signal to noise ratio. <b>QUALITY MANAGEMENT SYSTEMS</b> uality management systems - IS/ISO 9004:2000 - Qua umentation guidelines for performance improvements. Q 0 14000 - Concepts. TQM -culture, framework, benefits	(FN Fun fun ality ual s, a	IEA nctio nctio	) - on on, ster vudi rene	9 9 m - ts - \$\$\$\$				
Quality Six-sigr FMEA Deployr parame UNIT - V Introduc Elemen QS 900 and obs	Tools - ma, Ber stage: ment (C eter and V ction Q ots, Doc ots, Doc stacles	The seven traditional tools of quality, New management hch marking, Poka-yoke, Failure Mode Effect Analysis s, design, process and documentation. Quality QFD) - Benefits, house of quality. Taguchi - quality loss tolerance design, signal to noise ratio. <u>QUALITY MANAGEMENT SYSTEMS</u> uality management systems - IS/ISO 9004:2000 - Qua umentation guidelines for performance improvements. Q 0 14000 - Concepts. TQM -culture, framework, benefits s.	(FN Fun fun ality ual s, a	IEA nctio nctio	) - on on, ster vudi rene	9 9 n - ts - \$\$\$\$				

2.	Explore the principles and concepts underlying quality philosophies framed by quality gurus
3.	Summarize the principles and techniques of statistical process control
4.	Apply quality tools to enhance organization's quality performance
5.	Evaluate how to use quality function deployment and FMEA to identify
	and analyze quality issues.
6.	Comprehend the key components and requirements of QMS implementation.
TEXT	BOOKS:
	Dale H. Besterfield, Carol Besterfield-Michna, Glen H. Besterfield, Mary
1.	Besterfield
	- Sacre, Hemant Urdhwareshe, Rashmi Urdhwareshe, Total Quality
	Management(TQM), Fifth edition, Pearson Education, 2018.
REFE	
1.	Shridhara Bhat K, Total Quality Management - Text and Cases, Himalaya
	Publishing House, First Edition 2010
2.	Poornima M. Charantimath, Total Quality Management, Pearson Education,
	SecondEdition, 2011
3.	Douglas C. Montgomory, Introduction to Statistical Quality Control, Wiley
0.	Student
	Edition 4th Edition, Wiley India Pvt Limited, 2008.
4.	Indian standard - Quality Management Systems - Guidelines for
	performance
	improvement (Fifth Revision), Bureau of Indian standards, New Delhi.
5.	Panneerselvam. R, Sivasankaran. P, Quality Management, PHI Learning,
	2014

	P01	PO2	PO3	PO4	PO5	P06	P07	PO8
CO1	3	2		2	- al	3	2	3
CO2	-	2	CD1	CAT	~	-	-	2
CO3	2	-	Se	<u>7</u> 3	- T	2	-	2
CO4	-	-	2	<u></u>	-	-	2	-
CO5	-	3	-	-	-	3	-	-
CO6	-	-	-	-	-	-	-	2

21MB3	3333	MATERIALS MANAGEMENT	L 3	T 0	P 0	C 3			
OBJEC	CTIVES:								
•	Learn a manag	about the key functions and activities involved in material ement							
•	schedu								
•		about warehouse layout and design principles to optimi e material flow	ze s	spac	æ a	nd			
UNIT -		INTRODUCTION				9			
approa	iches-ma	ronment- aggregate planning-role, need, strategies, cos aster scheduling-manufacturing planning and cor resource planning-enterprise resource planning-making	ntrol	S	yste	m-			
UNIT -	II	MATERIALS PLANNING				9			
manuf	acturing	irements planning-bill of materials - resource requirem resource planning - capacity management - sched ivity control - codification.							
UNIT -	111	INVENTORY MANAGEMENT				9			
EOQa	Ind EBQ	ns-objectives-control -Retail Discounting Model, Newsvermodels for uniform and variable demand With and with ount models. Probabilistic inventory models.							
UNIT -	IV	PURCHASING MANAGEMENT				9			
purcha	-mixed ising un ising un	specifications-selecting suppliers-price determination buying strategy-price forecasting-buying seasonal com under uncertainty-demand management-price fo uder uncertainty-purchasing of capital equipment- int	nmo reca	ditie astin	s- g-				
UNIT -	V	WAREHOUSE MANAGEMENT				9			
proced Obsole traffic	lures-inc ete, surp manaç	functions – types - Stores management-stores coming materials control-stores accounting and stoc olus and scrap-value analysis- material handling-trans gement -operational efficiency-productivity-cost of neasurement.	k vo sport effec	erific tatic ctive	catio on a enes	on- Ind SS-			
		TOTAL	: 45	PEF	RIO	DS			
On suc	OMES: cessful	completion of the course student will be able to:							
1.	•	ehend the basics of materials management							
2.	2. Evaluate the techniques for optimizing material planning to ensure								
	<ul> <li>efficient production and delivery schedules</li> <li>3. Apply the techniques for optimizing inventory levels and reducing holding costs</li> </ul>								

4.	Analyze the purchasing principles, strategies and techniques
5.	Evaluate measuring performance, ensuring productivity and cost
	effectiveness in warehouse operations.
6.	Explore techniques for efficient receiving, storage and order fulfilment in
	warehouse
TEXT	BOOKS:
1.	J. R. Tony Arnold, Stephen N. Chapman, Lloyd M. Clive, Materials
	Management, Pearson, 2012
2.	A. K. Datla, Materials Management, Procedure, Text and Cases, PHI
	Learning, 2nd Edition, 2006
REFE	RENCES:
1.	P. Gopalakrishnan, Purchasing and Materials Management, Tata McGraw
	Hill, 2012
2.	A. K. Chitale and R. C. Gupta, Materials Management, Text and Cases, PHI
	Learning, 2nd Edition, 2006
3.	Ajay K Garg, Production and Operations Management, Tata McGraw Hill,
	2012
4.	Ronald H. Ballou and Samir K. Srivastava, Business Logistics and Supply
	Chain Management, Pearson education, Fifth Edition
5.	S. N. Chary, Production and Operations Management, Tata McGraw Hill,
	2012

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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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CO3	- )	2	-	entre e	Sal	2	1	1
CO4	-	2	ED(	CAT	~	2	-	2
CO5	2	-	30	Ň	- 1	-	-	2
CO6	-	2	-	-	-	-	-	-

21MB3334	SERVICES OPERATIONS MANAGEMENT	L T 3 0	P ( 0 3
OBJECTIVES	:		
includi manag	stand the principles and concepts of service operations ng the role of service design, service quality, gement, and managing capacity and demand.	service	facility
the ab satisfa	knowledge and skills to ensure and enhance service quality to apply quality management principles, measure action, and implement continuous improvement strategies.	custome	
UNIT - I	INTRODUCTION		9
services - di service-domin vision, compe	portance, role in economy, service sector – nature, gro stinctive characteristics, Service Package, Service nant logic, open systems view. Service Strategy -St etitive environment, generic strategies, winning custo chnology; stages in service firm competitiveness.	classifi rategic s	cation service
UNIT - II			
	SERVICE DESIGN Development - Design elements - Service Blue-priv	ation	9
structure - g orientation, s decoupling. T	eneric approaches. Service Encounter - triad, creservice profit chain; Front-office Back-office Interfection of the services - self-service, automation, echnology innovations.	eating s erface- s	ervice service
UNIT - III Service Qualit	SERVICE QUALITY y - Dimensions, Service Quality Gap Model; Measuring	Service (	9 Quality
Service Qualit - SERVQUAI Service Guar		vice Rec	Quality overy
Service Qualit - SERVQUAI Service Guar	y - Dimensions, Service Quality Gap Model; Measuring , Walk-through Audit, Quality service by design, Ser antees. Process Improvement – productivity improv	vice Rec	Quality overy
Service Qualit – SERVQUAL Service Guar quality tools, b UNIT - IV Supporting fac analysis, Serr facility locatio	y - Dimensions, Service Quality Gap Model; Measuring , Walk-through Audit, Quality service by design, Ser antees. Process Improvement – productivity improv penchmarking, Quality improvement programs.	vice Rec vement - es, proce sideration	Quality overy DEA
Service Qualit – SERVQUAL Service Guar quality tools, b UNIT - IV Supporting fac analysis, Service facility locatio retail outlet I	y - Dimensions, Service Quality Gap Model; Measuring , Walk-through Audit, Quality service by design, Ser antees. Process Improvement – productivity improv- benchmarking, Quality improvement programs. SERVICE FACILITY cility - Service scapes, Facility design - nature, objective vice facility layout. Service Facility Location – cons n techniques – metropolitan metric, Euclidean, centre	vice Rec vement - es, proce sideration	Quality overy DEA
Service Qualit – SERVQUAL Service Guar quality tools, b UNIT - IV Supporting fac analysis, Serr facility locatio retail outlet I Scheduling. UNIT - V Managing De management Inventory Mar Managing Wa	y - Dimensions, Service Quality Gap Model; Measuring , Walk-through Audit, Quality service by design, Servantees. Process Improvement – productivity improvement programs. SERVICE FACILITY cility - Service scapes, Facility design - nature, objective vice facility layout. Service Facility Location – cons n techniques – metropolitan metric, Euclidean, centre ocation, location set covering problem. Vehicle re	vice Rec vement - es, proce sideration of gravi outing an ategies, manage svendor	Quality overy DEA 9 ss ns, ty, nd 9 supply ement Mode
Service Qualit – SERVQUAL Service Guar quality tools, b UNIT - IV Supporting fac analysis, Serr facility locatio retail outlet I Scheduling. UNIT - V Managing De management Inventory Mar Managing Wa	y - Dimensions, Service Quality Gap Model; Measuring , Walk-through Audit, Quality service by design, Service services Improvement – productivity improvement benchmarking, Quality improvement programs. <u>SERVICE FACILITY</u> cility - Service scapes, Facility design - nature, objective vice facility layout. Service Facility Location – consent n techniques – metropolitan metric, Euclidean, centre ocation, location set covering problem. Vehicle re- <u>MANAGING CAPACITY AND DEMAND</u> emand – strategies; Managing capacity – basic stratectics, operations planning and control; Yield hagement in Services- Retail Discounting Model, New aiting Lines -Queuing systems, psychology of waiting hsion strategies, franchising, globalization.	vice Rec vement - es, proce sideration of gravi outing an ategies, manage svendor	Quality overy DEA 9 ss ns, ty, nd 9 supply ement Model ing fo
Service Qualit – SERVQUAL Service Guar quality tools, b UNIT - IV Supporting fac analysis, Ser facility locatio retail outlet I Scheduling. UNIT - V Managing De management Inventory Mar Managing Wa growth- expar	y - Dimensions, Service Quality Gap Model; Measuring , Walk-through Audit, Quality service by design, Service Process Improvement – productivity improvement benchmarking, Quality improvement programs. SERVICE FACILITY cility - Service scapes, Facility design - nature, objective vice facility layout. Service Facility Location – consent techniques – metropolitan metric, Euclidean, centre ocation, location set covering problem. Vehicle re- mand – strategies; Managing capacity – basic stratistics, operations planning and control; Yield magement in Services- Retail Discounting Model, New aiting Lines -Queuing systems, psychology of waiting insion strategies, franchising, globalization. TOTA	vice Rec vement - es, proce sideration of gravi outing an ategies, manage svendor y; Manag	Quality overy DEA 9 ss ns, ty, nd 9 supply ement Model ing fo
Service Qualit – SERVQUAL Service Guar quality tools, b UNIT - IV Supporting fac analysis, Serr facility locatio retail outlet I Scheduling. UNIT - V Managing De management Inventory Mar Managing Wa growth- expar	y - Dimensions, Service Quality Gap Model; Measuring , Walk-through Audit, Quality service by design, Service Process Improvement – productivity improvement benchmarking, Quality improvement programs. <u>SERVICE FACILITY</u> cility - Service scapes, Facility design - nature, objective vice facility layout. Service Facility Location – consent n techniques – metropolitan metric, Euclidean, centre ocation, location set covering problem. Vehicle re- mand – strategies; Managing capacity – basic strates tactics, operations planning and control; Yield nagement in Services- Retail Discounting Model, New aiting Lines -Queuing systems, psychology of waiting hsion strategies, franchising, globalization. TOTA	vice Rec vement - es, proce sideration of gravi outing an ategies, manage svendor y; Manag	Quality overy DEA 9 ss ns, ty, nd 9 supply ement Model ing fo
Service Qualit – SERVQUAL Service Guar quality tools, b UNIT - IV Supporting fac analysis, Serr facility locatio retail outlet I Scheduling. UNIT - V Managing De management Inventory Mar Managing Wa growth- expar OUTCOMES: On successful 1. Descri 2. Apply	y - Dimensions, Service Quality Gap Model; Measuring , Walk-through Audit, Quality service by design, Services. Process Improvement – productivity improvement penchmarking, Quality improvement programs. SERVICE FACILITY cility - Service scapes, Facility design - nature, objective vice facility layout. Service Facility Location – conservice  – metropolitan metric, Euclidean, centre ocation, location set covering problem. Vehicle reservices, operations planning and control; Yield hagement in Services- Retail Discounting Model, New aiting Lines -Queuing systems, psychology of waiting hasion strategies, franchising , globalization. TOTA	vice Rec vement - es, proce sideration of gravitor outing an ategies, manage svendor g; Manage	Quality overy DEA 9 ss ns, ty, nd 9 supply ement Model ing fo

4.	Analyze forthcoming trends related to facility design and layout
5.	Analyze various facility location techniques, vehicle routing and factors
	influencing the success of retail locations.
6.	Evaluate and intricate problems by formulating strategies for capacity and
	demand management and applying the most appropriate solutions
TEXT	BOOKS:
1.	James A. Fitzsimmons, Mona J, Fitzsimmons, Sanjeev Bordoloi, Service
	Management - Operations, Strategy, Information Technology, McGraw-Hill
	Education – 8th Edition 2018.
2.	Richard D. Metters, Successful Service Operations Management, Cengage
	Learning, 2nd Edition, 2012.
REFE	RENCES:
1.	Cengiz Haksever, Barry Render, Service Management, Pearson Education,
	2013.
2.	Robert Johnston, Graham Clark, Service Operations Management, Pearson
	Education, 2 <sup>nd</sup> Edition, 2005. Bill Hollins and Sadie Shinkins, Managing
	Service Operations, Sage, 2006
	CHGIMM CLEON

						6. N.		
COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8
CO1	3	2	5	5	2	131	1	-
CO2	2	3	13	2	(	12	2	-
CO3	2	3		3	2	1 A	2	2
CO4	2	2	2	1	2	3	2	-
CO5	+	3	以創力	经设计		2	3	2
C06	2	3		2 -	19	2	2	2



21MB3335									
2 1100000	SUPPLY CHAIN ANALYTICS		P C 0 3						
OBJECTIVES:									
	nowledge about data-driven supply chains, including ging data and analytics to transform supply chain opera		cs of						
	ving barriers to implementation, and creating a in the time time time time time time time tim	road map	for						
<ul> <li>Students will have developed a solid understanding of inventory management, transportation network models, and MCDM models in supply chain management.</li> </ul>									
UNIT - I	INTRODUCTION		9						
	o analytics – descriptive, predictive and prescriptive ly Chains – Basics, transforming supply chain on, Road Map.								
UNIT - II	WAREHOUSING DECISIONS		9						
Balmer - Wolfe	Programming Models - P-Median Methods - Guided e Method, Greedy Drop Heuristics, Dynamic Location and Layout Methods								
UNIT - III	INVENTORY MANAGEMENT		9						
models, Aggre	regation Models, Dynamic Lot sizing Methods, Multi-Ece egate Inventory system and LIMIT, Risk Analysis in Insit risks, supply risks, delivering risks, Risk pooling stra	Supply Ch ategies.	ain -						
	TRANSPORTATION NETWORK MODELS		9						
Flow Problem	phs, Minimal Spanning Tree, Shortest Path Algorithm s, Multistage Transhipment and Transportation Pro								
Advanced Vel	Set Partitioning Problems, Traveling Salesman hicle Routing Problem Heuristics, Scheduling Algorit bach and Linking Algorithms	Algorithms	t,						
Advanced Vel	hicle Routing Problem Heuristics, Scheduling Algorit	Algorithms	t,						
Advanced Ver function Appro UNIT - V Analytic Hierar	hicle Routing Problem Heuristics, Scheduling Algorit bach and Linking Algorithms	Algorithms hms-Defici A), Fuzzy I	t , t <b>9</b> _ogic						
Advanced Ver function Appro UNIT - V Analytic Hierar	hicle Routing Problem Heuristics, Scheduling Algorit bach and Linking Algorithms MCDM MODELS rchy Process (AHP), Data Envelopment Analysis (DEA es, Analytical Network process (ANP), TOPSIS-Application	Algorithms hms-Defici A), Fuzzy I	t t <b>9</b> _ogic						
Advanced Vel function Appro UNIT - V Analytic Hierar and Technique	hicle Routing Problem Heuristics, Scheduling Algorit bach and Linking Algorithms MCDM MODELS rchy Process (AHP), Data Envelopment Analysis (DEA es, Analytical Network process (ANP), TOPSIS-Application TOTA	Algorithms hms-Defici A), Fuzzy I tion in SCM	t t <b>9</b> _ogic						
Advanced Vel function Appro UNIT - V Analytic Hierar and Technique OUTCOMES: On successful	hicle Routing Problem Heuristics, Scheduling Algorit bach and Linking Algorithms MCDM MODELS rchy Process (AHP), Data Envelopment Analysis (DEA es, Analytical Network process (ANP), TOPSIS-Application TOTA completion of the course student will be able to:	Algorithms hms-Defici A), Fuzzy I tion in SCN L: <b>45 PER</b> I	t t 9 _ogic 1						
Advanced Ver function Appro UNIT - V Analytic Hierar and Technique OUTCOMES: On successful 1. Apply d	hicle Routing Problem Heuristics, Scheduling Algorit bach and Linking Algorithms MCDM MODELS rchy Process (AHP), Data Envelopment Analysis (DEA es, Analytical Network process (ANP), TOPSIS-Application TOTA	Algorithms hms-Defici A), Fuzzy I tion in SCM L: 45 PER a and gain	t t 9 ogic 1						

3.	Evaluate space determination and layout methods used in facility design and optimization, including techniques for optimizing space allocation, workflow, and resource utilization					
4.	Analyze an inventory aggregation models and their applications in supply chain management, including techniques for consolidating and optimizing inventory levels across multiple locations or echelons.					
5.	Comprehend vehicle routing problem heuristics, including techniques for optimizing route planning, vehicle allocation, and scheduling					
6.	Apply the Master MCDM models (AHP, DEA, Fuzzy Logic, ANP, TOPSIS) and applythem in supply chain management for effective decision-making					
TEXT	BOOKS:					
1.	Vijayaraghavan T. A. S., Supply Chain Analytics, Wiley, 2021					
REFE	RENCES:					
1.	Nada R. Sanders, Big data driven supply chain management: A framework for implementing analytics and turning information into intelligence, Pearson Education, 2014.					
2.	Michael Watson, Sara Lewis, Peter Cacioppi, Jay Jayaraman, Supply Chain Network Design: Applying Optimization and Analytics to the Global Supply Chain, Pearson Education, 2013.					
3.	Anna Nagurney, Min Yu, Amir H. Masoumi, Ladimer S. Nagurney, Networks Against Time: Supply Chain Analytics for Perishable Products, Springer, 2013.					
4.	Muthu Mathirajan, Chandrasekharan Rajendran, Sowmyanarayanan Sadagopan, Arunachalam Ravindran, Parasuram Balasubramanian, Analytics in Operations / Supply Chain Management , I.K. International Publishing House Pvt. Ltd., 2016.					
5.	Gerhard J. Plenert, Supply Chain Optimization through Segmentation and Analytics, CRC Press, Taylor & Francis Group, 2014.					

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	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	-	2	-	-	2	-	2	-
CO2	-	1	-	-	-	2	-	-
CO3	2	-	-	-	-	1	-	2
CO4	-	2	-	-	-	-	2	-
CO5	-	2	-	2	-	-	-	1
CO6	-	-	2	-	-	2	-	-

## THI EDUCATIONAL

21MB3336	PROJECT MANAGEMENT	L T 3 0	Р 0	C 3						
OBJECTIVES										
includi	its will learn the principles and techniques involved in prong ng defining project goals, creating work breakdown sti ping project schedules			<b>U</b> .						
manag	management processes specific to project management, including cost estimation, budget development, and tracking project expenses									
method unders outcom		(PEF oject	RT), i	and						
project defined	nts will learn how to monitor and control project prog performance, and ensure successful project comp d scope, time, and budget constraints									
UNIT - I	INTRODUCTION TO PROJECT MANAGEMEN	Т		9						
	jement - Definition - Goal - Lifecycles. Project Environm les - Responsibilities and Selection.	ents.	Proj	ect						
UNIT - II	PLANNING, BUDGETING AND RISK MANAGEME	INT		9						
- Process, Su	Process - Work Break down Structure. Cost Estimating a ummaries, schedules and forecasts. Managing risks assessment and response planning.		-	-						
UNIT - III	SCHEDULING & RESOURCE ALLOCATION			9						
	Networks - Project durations and floats - Crashing - Reso Simulation for resource allocation. Goldratt's Critical Chair		load	ing						
UNIT - IV	<b>PROJECT ORGANISATION &amp; CONFLICT MANAGEI</b>	MENT	-	9						
organizations	nisation Structure - Organisation Design - Types o Conflict - Origin & Consequences. Project Teams. M m methods for resolving conflict.									
UNIT - V	CONTROL AND COMPLETION			9						
Project Control – Process, Monitoring, Internal and External control, Performance analysis, Performance Index Monitoring. Project Evaluation, Reporting and Termination. Project success and failure - Lessons.										
	TOTAL:	45 PE	ERIO	DS						
OUTCOMES: On successful	completion of the course student will be able to:									
	nend the skills necessary to effectively fulfill the responsibilit	ies of	a Pr	oject						
	e ability to communicate project plans, budgets, and risk ment strategies to stakeholders throughout the project lifecycle	<del>)</del>								

3.	Evaluate the process of cost estimating and budgeting in project management, including the techniques and methodologies used to estimate project costs.
4.	Equip with the skills to effectively analyze project schedules, allocate resources, optimize project durations, and manage project constraints.
5.	Analyze and design effective organizational structures, identify and address conflicts, manage project teams, and employ appropriate conflict resolution methods.
	Create the understanding of project control processes, performance analysis, project evaluation, reporting, and termination.
TEXT	BOOKS:
1.	Meredith Jack. R, and Mantel Samuel. J, "Project Management: Managerial Approach", John Wiley, 2012
2.	"A Guide to the Project Management Body of Knowledge (PMBOK Guide)"Authors: Project Management Institute (PMI),Publisher: Project Management Institute,Year: 2021,ISBN-13: 978-1628255982.
REFE	RENCES:
1.	John M. Nicholas, Project Management for Business and Technology - Principles and Practice, Second Edition, Pearson Education, 2006.
2.	Clifford Gray and Erik Larson, Project Management, Tata McGraw Hill Edition, 2005.
3.	Gido and Clements, Successful Project Management, Seventh Edition, Thomson Learning, 2017.
4.	Samuel J.M., Jack R.M., Scott M.S., Margaret M.S., and Gopalan M.R., Project Management, First Indian edition, Wiley-India, 2006.
5.	Harvey Maylor, Project Management, Third Edition, Pearson Education, 2006.
6.	Panneerselvam. R, Senthilkumar. P, Project Management, PHI Learning, 2009.
WEB	SOURCE REFERENCES
	https://www.planview.com
	https://opentextbc.ca
	https://pmstudycircle.com
	https://www.middleearthhr.com
	https://whatfix.com/blog/organizational-structure/

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	-	2	-	1	-	2	1
CO2	2	-	1	2	-	-	1	-
CO3	3	2	-	-	-	-	2	-
CO4	2	-	-	-	1	-	2	-
CO5	-	-	-	-	3	I	-	-
CO6	-	2	-	-	-	2	-	-



2 INDUSCRY       3       0       0       3         2 DBJECTIVES:       3       0       0       3         •       Students should have a solid understanding of distribution channels, outsourcing logistics, transportation strategies, packaging performance measurement and costs, and current trends in logistics.       •         •       Students will develop the skills to evaluate and select transportation strategies that align with organizational goals and objectives       •         •       Gain a comprehensive understanding of distribution channels and the role they play in the movement of goods from producers to end-users       9         Definition and Scope of Logistics - Functions & Objectives - Customer Value Chain - Service Phases and attributes - Value added logistics services - Role of logistics in Competitive strategy - Customer Service.       9         Distribution channel structure - channel members, channel strategy, role of logistics and support in distribution channels. Logistics requirements of channel members; logistics outsourcing -catalysts, benefits, value proposition, 3PL, 4PL, 5PL, 6PL.       9         INIT - III       TRANSPORTATION AND PACKAGING       9         Inansportation System - Evolution, Infrastructure and Networks. Freight Management - Vehicle Routing - Containerization; Modal Characteristics - Inter modal Operators and Transport Economies; International Logistics - objectives, Packaging as Unitisation. Consumer and Industrial Packaging.       9         Performance Measurement Need, System, Levels and Dimensions. Internal and External Performance Measureme							
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Performance Measurement Need, System, Levels and Dimensions. Internal and External Performance Measurement. Logistics Audit. Total Logistics Cost –							
External Performance Measurement. Logistics Audit. Total Logistics Cost –							
Concept, Accounting Methods: Cost – Identification, Time Frame and Formatting.							
JNIT - V CURRENT TRENDS 9							
Logistics Information Systems - Need, characteristics and design. E-Logist – Structure and Operation. Logistics Resource Management e-LRM. Autom Identification Technologies; Reverse Logistics - Scope, design and as a compet tool. Global Logistics – Operational and Strategic Issues, ocean and transportation. Strategic logistics planning; Green Logistics.							
TOTAL: 45 PERIODS							
<b>DUTCOMES:</b> On successful completion of the course student will be able to:							

1.	Comprehend the basics of logistics, customer value chain and the							
	importance of logistics in strategy formulation							
2.	Analyze the structure and functions and how logistics function can be							
	outsourced							
3.	Summarize the objectives and significance of international logistics in the							
	global economy.							
4.	Evaluate how packaging can contribute to unitization and its role in both							
	consumer and industrial contexts.							
5								
5.	Analyze and evaluate the performance measurement and cost of logistics							
6.	Evaluate the current trends in logistics management							
TEVT								
IEXI	TEXT BOOKS:							
1.	Bowersox Donald J, Logistics Management - The Integrated Supply Chain							
	Process, Tata McGraw Hill, 2010							
2.	Ronald H. Ballou, Business Logistics and Supply Chain Management,							
	Pearson Education, 5 <sup>th</sup> Edition, 2007							
REFE	RENCES:							
1.	Sople Vinod V, Logistics Management: The Supply Chain Imperative,							
	Pearson Education, 3 <sup>rd</sup> Edition, 2012.							
2.								
Ζ.	Coy leetal, The Management of Business Logistics, Thomson Learning, 7th							
	Edition, 2004.							
3.	Ailawadi C Sathish & Rakesh Singh, Logistics Management, PHI, 2005.							
4.	Bloomberg David Jetal., Logistics, Prentice Hall India, 2005.							
5.	Pierre David, International Logistics, Biztantra, 2003.							
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CO1	-	2	HI ED	JEAT	2	7-	-	2
CO2	-	-	3	RA	2	2	-	-
CO3	-	-	-	0	-	-	2	-
CO4	-	2	-	-	1	3		-
CO5	-	1	-	-	1	-	2	-
CO6	-	2	-	-	2	-	1	-

OBJECTIVES:	21ME	33338	DESIGN THINKING	L 3	Т 0	P 0	C 3				
conducting research, analyzing market trends, and understanding customer needs and preferences.         •       Students will learn various methods for collecting data and conducting observations to gather relevant information about the problem and the user's context         •       Understand the importance of rapid prototyping, iteration, and incremental improvements in developing effective solutions         UNIT -1       INTRODUCTION TO DESIGN THINKING       9         Types of thinking - Analytical, Intuitive, Deduction, Induction, Abduction; Definitions of Design Thinking, Principles and elements of Design Thinking, Human centric approach       9         UNIT - II       DESIGN THINKING PROCESS: STAGE I       9         Understanding the business hypothesis, customer perspective, inspiration, visualization through storyboarding etc       9         UNIT - III       DESIGN THINKING PROCESS: STAGE II & III       9         Defining the problem, Data Collection, Observation techniques, gaining insights, Ideation, concept development       9         UNIT - IV       DESIGN THINKING PROCESS: STAGE IV & V       9         Experimentation, prototyping principles, Prototyping, Testing, Assumptions Identification       9         UNIT - V       DESIGN THINKING FOR INNOVATION       9         Design Thinking in organizations, how to diffuse DT into work culture, Using DT to innovate in business, Disruptive innovation       9         Cottact 45 PERIODS       OUTCOMES:       0	OBJEC	CTIVES:									
observations to gather relevant information about the problem and the user's context         Inderstand the importance of rapid prototyping, iteration, and incremental improvements in developing effective solutions           UNIT - I         INTRODUCTION TO DESIGN THINKING         9           Types of thinking - Analytical, Intuitive, Deduction, Induction, Abduction; Definitions of Design Thinking, Principles and elements of Design Thinking, Human centric approach         9           UNIT - II         DESIGN THINKING PROCESS: STAGE I         9           Understanding the business hypothesis, customer perspective, inspiration, visualization through storyboarding etc         9           UNIT - III         DESIGN THINKING PROCESS: STAGE II & III         9           Defining the problem, Data Collection, Observation techniques, gaining insights, Ideation, concept development         9           UNIT - IV         DESIGN THINKING PROCESS: STAGE IV & V         9           Experimentation, prototyping principles, Prototyping, Testing, Assumptions Identification         9           UNIT - V         DESIGN THINKING FOR INNOVATION         9           Design Thinking in organizations, how to diffuse DT into work culture, Using DT to innovate in business, Disruptive innovation         9           OUTCOMES:         On successful completion of the course student will be able to:         1           1         Comprehend the fundamental concepts and principles of design thinking         3 <t< td=""><td>•</td><td colspan="10">conducting research, analyzing market trends, and understanding customer</td></t<>	•	conducting research, analyzing market trends, and understanding customer									
improvements in developing effective solutions         UNIT - I       INTRODUCTION TO DESIGN THINKING       9         Types of thinking - Analytical, Intuitive, Deduction, Induction, Abduction; Definitions of Design Thinking, Principles and elements of Design Thinking, Human centric approach       9         UNIT - II       DESIGN THINKING PROCESS: STAGE I       9         Understanding the business hypothesis, customer perspective, inspiration, visualization through storyboarding etc       9         UNIT - III       DESIGN THINKING PROCESS: STAGE II & III       9         Defining the problem, Data Collection, Observation techniques, gaining insights, Ideation, concept development       9         UNIT - IV       DESIGN THINKING PROCESS: STAGE IV & V       9         Experimentation, prototyping principles, Prototyping, Testing, Assumptions Identification       9         UNIT - V       DESIGN THINKING FOR INNOVATION       9         Design Thinking in organizations, how to diffuse DT into work culture, Using DT to innovate in business, Disruptive innovation       9         OUTCOMES:       On successful completion of the course student will be able to:       1         1.       Comprehend the fundamental concepts and principles of design thinking       2         2.       Analyze the design thinking methodology, including its principles, stages, and key concepts       3       3         3.       Learn how to visually communicate	•	observations to gather relevant information about the problem and the user's context									
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of Design Thinking, Principles and elements of Design Thinking, Human centric approach           UNIT - II         DESIGN THINKING PROCESS: STAGE I         9           Understanding         the business         hypothesis, customer perspective, inspiration, visualization through storyboarding etc         9           UNIT - III         DESIGN THINKING PROCESS: STAGE II & III         9           Defining the problem, Data Collection, Observation techniques, gaining insights, Ideation, concept development         9           UNIT - IV         DESIGN THINKING PROCESS: STAGE IV & V         9           Experimentation, prototyping principles, Prototyping, Testing, Assumptions Identification         9           UNIT - V         DESIGN THINKING FOR INNOVATION         9           Design Thinking in organizations, how to diffuse DT into work culture, Using DT to innovate in business, Disruptive innovation         9           OUTCOMES:         On successful completion of the course student will be able to:         1           Comprehend the fundamental concepts and principles of design thinking         2           Analyze the design thinking methodology, including its principles, stages, and key concepts         3           Learn how to visually communicate their ideas and concepts using storyboarding techniques         4           Evaluate how to effectively define the problem statement by synthesizing the information gathered through data collection and observation techniques.           Analyze the fourth an		-					-				
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visualization through storyboarding etc UNIT - III DESIGN THINKING PROCESS: STAGE II & III 9 Defining the problem, Data Collection, Observation techniques, gaining insights, Ideation, concept development UNIT - IV DESIGN THINKING PROCESS: STAGE IV & V 9 Experimentation, prototyping principles, Prototyping, Testing, Assumptions Identification UNIT - V DESIGN THINKING FOR INNOVATION 9 Design Thinking in organizations, how to diffuse DT into work culture, Using DT to innovate in business, Disruptive innovation COTAL: 45 PERIODS OUTCOMES: On successful completion of the course student will be able to: 1. Comprehend the fundamental concepts and principles of design thinking its principles, stages, and key concepts 3. Learn how to visually communicate their ideas and concepts using storyboarding techniques 4. Evaluate how to effectively define the problem statement by synthesizing the information gathered through data collection and observation techniques. 5. Analyze the fourth and fifth stages of the design thinking process 6. Create effective strategies and techniques to diffuse Design Thinking principles and practices into the work culture of organizations.	UNIT -	1	DESIGN THINKING PROCESS: STAGE I				9				
Defining the problem, Data Collection, Observation techniques, gaining insights, Ideation, concept development       Ideation, concept development         UNIT - IV       DESIGN THINKING PROCESS: STAGE IV & V       9         Experimentation, prototyping principles, Prototyping, Testing, Assumptions Identification       9         UNIT - V       DESIGN THINKING FOR INNOVATION       9         Design Thinking in organizations, how to diffuse DT into work culture, Using DT to innovate in business, Disruptive innovation       9         OUTCOMES:       On successful completion of the course student will be able to:       1         Comprehend the fundamental concepts and principles of design thinking       2         Analyze the design thinking methodology, including its principles, stages, and key concepts       3         Learn how to visually communicate their ideas and concepts using storyboarding techniques       4         Evaluate how to effectively define the problem statement by synthesizing the information gathered through data collection and observation techniques.         5.       Analyze the fourth and fifth stages of the design thinking process         6.       Create effective strategies and techniques to diffuse Design Thinkingprinciples and practices into the work culture of organizations.		•		e, i	nspi	iratio	on,				
Ideation, concept development       UNIT - IV       DESIGN THINKING PROCESS: STAGE IV & V       9         Experimentation, prototyping principles, Prototyping, Testing, Assumptions Identification       Identification       9         UNIT - V       DESIGN THINKING FOR INNOVATION       9         Design Thinking in organizations, how to diffuse DT into work culture, Using DT to innovate in business, Disruptive innovation       9         OUTCOMES:         OUTCOMES:       On successful completion of the course student will be able to:         1.       Comprehend the fundamental concepts and principles of design thinking         2.       Analyze the design thinking methodology, including its principles, stages, and key concepts         3.       Learn how to visually communicate their ideas and concepts using storyboarding techniques         4.       Evaluate how to effectively define the problem statement by synthesizing the information gathered through data collection and observation techniques.         5.       Analyze the fourth and fifth stages of the design thinking process         6.       Create effective strategies and techniques to diffuse Design Thinking principles and practices into the work culture of organizations.	UNIT -		DESIGN THINKING PROCESS: STAGE II & I				9				
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Identification       9         UNIT - V       DESIGN THINKING FOR INNOVATION       9         Design Thinking in organizations, how to diffuse DT into work culture, Using DT to innovate in business, Disruptive innovation       TOTAL: 45 PERIODS         OUTCOMES:       On successful completion of the course student will be able to:       TOTAL: 45 PERIODS         OUTCOMES:       On successful completion of the course student will be able to:       1         Comprehend the fundamental concepts and principles of design thinking       2         Analyze the design thinking methodology, including its principles, stages, and key concepts       3         Learn how to visually communicate their ideas and concepts using storyboarding techniques       4         Evaluate how to effectively define the problem statement by synthesizing the information gathered through data collection and observation techniques.       5         Analyze the fourth and fifth stages of the design thinking process       6         Create effective strategies and techniques to diffuse Design Thinkingprinciples and practices into the work culture of organizations.	UNIT -	IV	DESIGN THINKING PROCESS: STAGE IV &	V			9				
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<ul> <li>innovate in business, Disruptive innovation</li> <li>TOTAL: 45 PERIODS</li> <li>OUTCOMES:</li> <li>On successful completion of the course student will be able to:         <ol> <li>Comprehend the fundamental concepts and principles of design thinking</li> <li>Analyze the design thinking methodology, including its principles, stages, and key concepts</li> <li>Learn how to visually communicate their ideas and concepts using storyboarding techniques</li> <li>Evaluate how to effectively define the problem statement by synthesizing the information gathered through data collection and observation techniques.</li> <li>Analyze the fourth and fifth stages of the design thinking process</li> <li>Create effective strategies and techniques to diffuse Design Thinkingprinciples and practices into the work culture of organizations.</li> </ol> </li> </ul>	UNIT -	V	DESIGN THINKING FOR INNOVATION				9				
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Thinkingprinciples and practices into the work culture of organizations.	5.		<u> </u>	SS							
		Thinking	principles and practices into the work culture of								

3.	Jimmy Jain, "Design Thinking for Startups: A Handbook for Readers and Workbook for Practitioners", 1 st Edition, Notion Press, 2018.
4.	Kelley, Tom, and Littman, Jonathan, "The Art of Innovation: Lessons in
	Creativity from IDEO, America's Leading Design Firm", Profile Books Ltd,
	2016.
3.	Lewrick. Link, Liefer, "The Design Thinking Toolbox: A Guide to Mastering
	the Most Popular and Valuable Innovation Methods", Wiley, 1st Edition, 2020
4.	Roterberg, "Design Thinking for Dummies, For Dummies", 1 Edition, John
	Wiley & Sons Inc (US), 2020.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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		L	Т	Ρ	С					
21MB3339	39NEW PRODUCT DEVELOPMENT									
OBJECTIVES										
	a solid understanding of product planning, need identifica	ition	, an	d						
	s specification.		,							
<ul> <li>Studer</li> </ul>	nts will learn about the factors that impact the duratio	n ar	nd c	cost	of					
	ping new products, including project scope, complexity	, res	our	ce						
	ion, and market dynamics									
<ul> <li>Learn techniques for conducting concept testing to gather feedback from target customers and stakeholders</li> </ul>										
-	UNIT - I INTRODUCTION, DEVELOPMENT PROCESS AND 9									
	OPPORTUNITY IDENTIFICATION				3					
New product	development - characteristics of a successful produc	ct, d	esic	in jo	ob,					
	cost of new product development, challenges of									
development;	Product development process and organization	ר ר	CC	once	ept					
	- adapting generic product development process									
	process flows - product development organization									
	<ul> <li>six steps of identification; Management commitm</li> </ul>	ent	– F	Revi	ew					
process: Statu	us review, near end review.									
UNIT - II	PRODUCT PLANNING, NEED IDENTIFICATION, PF				9					
	SPECIFICATION			,	3					
Product plan	ning - Identify opportunities - Prioritise and evaluation	ate r	oroj	ects	s –					
	ocation and timing - complete pre project planning -									
	ocess; Customer need identification - raw data gathering									
	ize needs – prioritise needs – results & process a			rodı	ıct					
specifications	- what and when - target specifications - final specifica	tion	s.							
UNIT - III	CONCEPT GENERATION, SELECTION AND TES	TIN	G		9					
Concept gene	eration - problem clarification - external search - internation	erna	l se	earc	h -					
	ploration; Concept selection - concept screening, six s	teps	- CO	once	ept					
scoring, six s	teps; Concept testing - seven steps.									
		<u></u>		/	<u> </u>					
UNIT - IV	PRODUCT ARCHITECTURE AND DESIGN FOR INE AND ENVIRONMENT	105	IRI		9					
	itecture - modularity - implications - establishing									
	ning - system level design issues; Industrial design - me									
	ed, impact - industrial design process - quality assessm	ent l	Des	ign	for					
environment	- Meaning, need, - DFE process.									
UNIT - V	DESIGN FOR MANUFACTURING & SUPPLY CH	IAIN	,		9					
	PROTOTYPING AND ROBUSTNESS									
	nufacturing and supply chain - Meaning, need, require									
	/ping - meaning, need, principles, technologies, plar									
	ning, need, seven step robustness process; Patents a	na Ir	itell	ecti	lai					
property - me	aning, need 7 step process.									
	TOTAL	: 45	PEF	rioi	DS					

OUTC	OMES:
	ccessful completion of the course student will be able to:
1.	Comprehend why and where new product development is to take place
2.	Apply the planning process involved in generating productspecifications
3.	Develop an ability to analyze and define process specifications for product development
4.	Apply the concept generation and testing process
5.	Analyze the principles of industrial and environmental design
6.	Analyze the principles of design for manufacturing and supply chain
REFE	RENCES:
1.	Crawford, "New Products Management", McGraw Hill, 11 <sup>th</sup> Edition, 2020
2.	Fradin, "Successful Product Design and Management Toolkit", Wiley, 2019.
3.	Lawley, Shure, "Product management for dummies", Wiley, 2017.
4.	Olsen, (2015), "The Lean Product Playbook: How to Innovate with Minimum Viable Products and Rapid Customer Feedback", Wiley, 1st Edition, 2015.
5.	Ulrich, Eppinger and Yang, "Product Design and Development", McGraw Hill, 7th Edition, 2020

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21ME	MB3340TOTAL PRODUCTIVE MAINTENANCE AND LEAN MANAGEMENTLTP300										
OBJEC	CTIVES:										
•		ts will gain a thorough understanding of Lean principle application across different industries	es, i	ts c	origii	ns,					
•		ts will learn a structured approach to problem-solving ic method	bas	ed	on t	he					
•	• Students will learn about TPM as a comprehensive approach to equipment maintenance and improvement										
UNIT -		LEAN INTRODUCTION				9					
		Background - Lean Thinking - Rules of Gemba, 3M - Se Principles of Flow - Learning to See.	ever	ז Wa	aste	s -					
UNIT -	II	LEAN MANAGEMENT CORE CONCEPTS				9					
5S Imp Analys		tion Procedure - Layout Modification - Value Stream Ma	appi	ng -	Vid	eo					
UNIT -	UNIT - III LEAN TOOLS AND METHODOLOGIES										
Manag Time -	Mistake Proofing - Quick Changeover - Kanban - Inventory Management - Visual Management - Kaizen - A3 - Single Piece Flow vs Batch Production - TAKT/Cycle Time - Balancing the Line.										
UNIT -	UNIT - IV TOTAL PRODUCTIVE MAINTENANCE 9										
		TPM Concept - Objectives and Functions - Developing Plan - Pillars of TPM - TPM organization.	ng	the	ΤP	M					
UNIT -	V	SCIENTIFIC PROBLEM SOLVING				9					
Proble	Scientific problem solving - PDCA Cycle - SDCA Cycle, Human and Method Problems - TWI – Introduction - Job Instruction - Job Relations - Job Methods - TWI and Flow - Follow up Initiatives.										
		TOTAL	: 45	PE	RIO	DS					
	OMES:	completion of the course student will be able to:									
1.		p critical thinking to identify and solve key issues relating	1 to	lear	<u>ו</u>						
	manag	ement	-								
2.	Apply 5S, value stream mapping / video analysis in manufacturing and service industry										
3.	Apply I enviror	key business practices of lean management tools in crument	oss	fun	ctio	nal					
4.		and use visual management tools facilitate process mon pmote a culture of continuous improvement in the workpl									
5.	Compr	ehend the implementation of total productive mainten acturing and service industry			ols	in					
6.	Analyz	e and execute action plans using problem-solving tools.									

REFE	REFERENCES:						
1.	James P. Womack and Daniel T. Jones, "Lean Thinking: Banish Waste and Create Wealth in Your Corporation", Free Press, 2015.						
2.	Jeffrey Liker and David Meier, "The Toyota Way Fieldbook", Tata McGraw Hill, 2005.						
3.	Jeffrey Liker and David Meier, "Toyota Talent: Developing Your People the Toyota Way", Tata McGraw Hill, 2007.						
4.	Masaaki Imai, "Gemba Kaizen: A Commonsense Approach to a Continuous Improvement Strategy", Tata McGraw Hill, 2012.						
5.	Mike Rother, "Toyota Kata: Managing People for Improvement, Adaptiveness and Superior Results", Tata McGraw Hill, 2009.						
6.	Pascal Dennis, "Lean Production Simplified: A Plain-Language Guide to the World's Most Powerful Production System", Productivity Press, 3rd Edition, 2015						

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21MB3346	RETAIL MARKETING	L 3	T	P	C 3				
		ა	0	0	3				
OBJECTIVES									
<ul> <li>By the end of the course, students should have a comprehensive understanding of retail management, retail formats, retailing decisions, retail shop management, and retail shopper behavior.</li> </ul>									
decisi	should be able to analyze and evaluate retail strategies, m ons related to retail operations, and understand the dynan mer behavior in the retail environment			orm	ed				
UNIT - I	INTRODUCTION				9				
India - Socio	of Global Retailing - Challenges and opportunities - Re economic and technological Influences on retail m of India policy implications on retails.								
UNIT - II	RETAIL FORMATS				9				
	nd unorganized formats – Different organized reta cs of each format - Emerging trends in retail formats - I tail formats.								
UNIT - III	RETAILING DECISIONS				9				
management		anc	l ca	itego	-				
UNIT - IV	RETAIL SHOP MANAGEMENT				9				
Visual Merc	handise Management - Space Management - Reta t – Retail accounting and audits - Retail store bra		Inve	ento	nv				
Managemen	nd promotions -Retail Management Information Systems -			Ret	ail				
Managemen advertising ar	nd promotions -Retail Management Information Systems -			Ret	ail				
Managemen advertising ar - Emerging tro UNIT - V Understandir Decision Pro	nd promotions -Retail Management Information Systems - ends	- Or is - - C	Sho	Ret e ret	ail ail 9 ng				
Managemen advertising ar - Emerging tro UNIT - V Understandir Decision Pro	nd promotions -Retail Management Information Systems - ends RETAIL SHOPPER BEHAVIOUR ng of Retail shopper behaviour - Shopper Profile Analys cess - Factors influencing retail shopper behaviour	- Or is - - C	Sho om ndia	Ret e ret	ail ail 9 ng nts				
Managemen advertising ar - Emerging tro UNIT - V Understandir Decision Pro Management	And promotions -Retail Management Information Systems - ends RETAIL SHOPPER BEHAVIOUR Ing of Retail shopper behaviour - Shopper Profile Analys Incess - Factors influencing retail shopper behaviour - Retail sales force Management -Challenges in Retailing TOTAL:	- Or is - - C	Sho om ndia	Ret e ret	ail ail 9 ng nts				
Managemen advertising ar - Emerging tro UNIT - V Understandir Decision Pro Management OUTCOMES: On successfu 1. Compre	Ad promotions -Retail Management Information Systems - ends RETAIL SHOPPER BEHAVIOUR ag of Retail shopper behaviour - Shopper Profile Analys cess - Factors influencing retail shopper behaviour - Retail sales force Management -Challenges in Retailing TOTAL:	- Or is - in I <b>45</b>	Sho omj ndia	Ret e ret oppi plair a RIOI	ail ail 9 ng nts				
Managemen advertising ar - Emerging tra UNIT - V Understandir Decision Pro Management OUTCOMES: On successfu 1. Compre concep 2. Apply u	And promotions -Retail Management Information Systems - ends RETAIL SHOPPER BEHAVIOUR Ing of Retail shopper behaviour - Shopper Profile Analys cess - Factors influencing retail shopper behaviour - Retail sales force Management -Challenges in Retailing TOTAL: I completion of the course student will be able to: whend the conceptual frameworks, theory and techniques	- Or is - - C in I 45	Sho omj ndia PEI	Ret e ret oppi plain a RIOI	9 9 ng nts				

4.	Apply principles of visual merchandising to create appealing and effective store layouts and displays.							
5.	Analyze knowledge of inventory management techniques and their importance in retail operations.							
c <sup>6.</sup>	Analyze and interpret consumer behavior and predict shopper motivations and preferences.							
TEXT	BOOKS:							
1.	Chetan Bajaj, Rajnish Tow and Nidhi V. Srivatsava, Retail Management, Oxford University Press, 2007.							
2.	Swapna Pradhan, Retail Management -Text and Cases, Tata McGraw Hill, 3rd Edition, 2009.							
REFE	RENCES:							
1.	Michael Havy, Baston, Aweitz and Ajay Pandit, Retail Management, Tata Mcgraw Hill, Sixth Edition, 2007							
2.	Ogden, Integrated Retail Management, Biztantra, India, 2008.							
3.	Patrick M. Dunne and Robert F Lusch, Retailing, Thomson Learning, 4th Edition 2008							
4.	Dunne, Retailing, Cengage Learning, 2nd Edition, 2008							
5.	Ramkrishnan and Y.R.Srinivasan, Indian Retailing Text and Cases, Oxford University Press, 2008.							
6.	Dr. Jaspreet Kaur, Customer Relationship Management, Kogent solution.							

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CO5	-	1	2	EDUCAT	012	3	-	2
CO6	1	-	- 0	3	-	-	2	1
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21MB3347		CONSUMER BEHAVIOUR		T 0	P 0	C 3				
OBJE	CTIVES:									
•	Understand the fundamental theories, concepts, and models of consumer behavior.									
•	Evaluate the impact of internal and external influences on consumer decision-making.									
•	behavi	-				ər				
•	consur	e the influence of opinion leadership and diffusion and a ner behavior	doptio	on o						
UNIT -		INTRODUCTION				9				
Interpr	etive an	Consumer behaviour - Consumption, Consumer orienta d Quantitative approaches - Effects of Technology, Demo onsumer behaviour		hic	s an	ld				
UNIT -	·	INTERNAL INFLUENCES				9				
		consumer behaviour – motivation – perception – Aning and Experience - Personality & Self Image	\ttitu	des	s ai	nd				
UNIT -	·	EXTERNAL INFLUENCES				9				
		, Cross Culture - Family group – Referent on - Influences on Consumer behaviour	ce (	gro	up	_				
UNIT -	· IV	CONSUMER BEHAVIOR MODELS				9				
		d Contemporary Consumer behaviour model for Indiving behaviour and decision making.	dual	an	d					
UNIT -	٠V	PURCHASE DECISION PROCESS				9				
		ision making process - Steps, Levels and decision rules ners -Opinion Leadership - Diffusion and Adoption.	- Evo	olvi	ng					
		TOTAL	: 45 F	PEF	RIOI	DS				
	OMES:	completion of the course student will be able to:								
1.	Compr	ehend about consumer behavior theories, ts and models.								
2.	Analyze the impact of consumer orientation of consumer decision-making and behavior									
3.		he different internal influences that shape consumer beh								
4.		e the socio, cross-cultural, family group, reference group inication influences that shape consumer behavior	,	_						
5.	Evaluate the applicability of traditional consumer behavior models in different contexts, including individual and industrial buying behavior									
6.	Apply I	nowledge of steps, levels and decision rules to develop ing strategies and facilitate consumer decision making	targe	ted						

TEXT	BOOKS:
1.	Leon G.Schiffman and Leslie Lasar Kanuk, Consumer Behavior, Pearson
	Education, India, 9e, 2010.
2.	Paul Peter et al., Consumer Behavior and Marketing Strategy, Tata McGraw
	Hill, Indian Edition, 7e, 2005.
REFE	RENCES:
1.	Ramanuj Majumdar, Consumer Behaviour - Insights from Indian Market, PHI, 2010.
2.	Barry J.B., Eric G.H., Ashutosh M., Consumer Behaviour - A South Asian
	Perspective, Cengage Learning, 2016

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CO5	-	12/	2	- 472	2	( - )	2	2
CO6	1	2	-	3	0.3-	- 1	2	-



			L	Т	P	С
21ME	33348	INTEGRATED MARKETING COMMUNICATION	3	0	0	3
			•	•		<b>_</b>
OBJE	CTIVES:					
•		comprehensive understanding of IMC and its importance	e in	mod	dern	
		ing strategies.				
•		e various marketing communication tools and techniques				
		tand how to select the most suitable ones for different ma	arke	eting		
•	objectiv	ves. ne different digital advertising strategies, such as display	ade	vic		
•		ative ads, and mobile ads.	uuu	, vic	100	
UNIT -		AN INTRODUCTION TO INTEGRATED MARKET	ING	ì		9
		COMMUNICATION (IMC)				
		n to Integrated Marketing Communication (IMC): Meani				
		ing process, one voice communication V/s IMC. Introd				
		ertising, sales promotion, publicity, public relations The role of advertising agencies and other marketing				
		eting services and perspective on consumer behaviour	org	amz	Lauc	/15
		UNDERSTANDING COMMUNICATION PROCESS				9
-		communication process: Source, Message and ch		el f	acto	ors
		n response hierarchy- AIDA model, Hierarchy of				
		option model, information processing model, The star				
		ribution Hierarchy, and low 20% involvement hierarc				
involve	ement- T	he Elaboration Likelihood (ELM) model, The Foote, Con	ie a	nd E	Beld	ing
(FCB)	Model.					
					N I	
UNIT -		PLANNING FOR MARKETING COMMUNICATION (MA				9
		arcom Objectives and Budgeting for Promotional Progra				
		n objectives, Sales as marcom objective, DAGMAR actives. Budgeting for marcom-Factors influencing budge				
		udgeting viz. Marginal analysis and Sales response cur				
		com budget	۷С,	INICI	inou	10
UNIT -	IV	DEVELOPING THE INTEGRATED MARKETIN	G			9
		COMMUNICATION PROGRAMME				
	•	development of creative marcom, Creative strategies				0.
sales	-	ion, publicity, event sponsorships etc. Creative				in
		n and Evaluation of marcom- Types of appeals and exe				
		g and selection decisions- steps involved and informati			ded	tor
media	planning	g. Measuring the effectiveness of all Promotional tools ar	na Ir	VIC.		
UNIT -	V	DIGITAL MEDIA & ADVERTISING				9
-		Evolution of Technology, Convergence of Digital Media,	E- (	Com	mer	се
-		dia, Advertising on Digital Media, Social Media, Mobile A				
	•	Laws & Ethics: Adverting & Law, Advertising & Ethics	-			

	TOTAL: 45 PERIODS
OUTC	OMES:
On su	ccessful completion of the course student will be able to:
1.	Summarise the communication plan of any Company/brand.
2.	Apply Marketing Communication Theories to design IMC program.
3.	Analyse and formulate effective IMC objectives and design a strategic budget.
4.	Apply appropriate media strategy and creative messages and concepts to reach the target audience.
5.	Analyze advancements in digital technology (onlinepromotion) with socially and ethical responsibility in accordance to laws.
6.	Creating brand awareness by developing and executing marketing campaigns
TEXT	BOOKS:
1.	Advertising & Promotion- An Integrated Marketing Communications Perspective, George Belch, Michael Belch & Keyoor Purani, TATA McGraw Hill 8th edition
REFE	RENCES:
1.	Wells, Moriarty & Burnett, Advertising, Principles & Practice, Pearson Education, 7thEdition, 2007
2.	Kenneth Clow. Donald Baack, Integrated Advertisements, Promotion and Marketing communication, Prentice Hall of India, New Delhi, 3rd Edition, 2006.
3.	Terence A. Shimp and J. Craig Andrews, Advertising Promotion and other aspects of Integrated Marketing Communications, CENGAGE Learning, 9th edition, 2016
4.	S. H. H. Kazmi and Satish K Batra, Advertising & Sales Promotion, Excel Books, New Delhi, 3rd Revised edition, 2008.
5.	Julian Cummings, Sales Promotion: How to Create, Implement and Integrate Campaigns that Really Work, Kogan Page, London, Fifth Edition Edition, 2010.
6.	Jaishri Jefhwaney, Advertising Management, Oxford University Press, 2nd Edition

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CO3	2	-	3	-	3	3	2	-
CO4	3	2	3	-	3	-	3	-
CO5	2	-	-	-	3	-	1	-
CO6	3	2	2	-	-	1	3	-

21ME	33349	SERVICES MARKETING	L T 3 0		C 3
OBJE	CTIVES:				
٠	Studen charac	ts will gain a comprehensive understanding of teristics and challenges of service marketing.	the	uniqu	ie
•	Learn a manag	about service processes, customer interactions, and servement.	vice en	counte	эr
•	objectiv	p skills in developing service strategies that align with or ves and customer expectations	-		
•	approp	how to evaluate the performance of service marketing riate metrics and measures	effort		-
UNIT -		INTRODUCTION efinition - Service Economy - Evolution and growth of se		ç	-
	ts- Uniq ting.	cope of Services -Difference between services and tang ue characteristics of services- Challenges and issues in SERVICE MARKETING OPPORTUNITIES		es	2
-		vice market potential - Classification of services - Expa	<u> </u>	2	"
market segme	ting mix entation	<ul> <li>Service marketing - Environment and trends - Service</li> <li>, targeting and positioning.</li> </ul>			
UNIT -		SERVICE DESIGN AND DEVELOPMENT		ç	9
of ser	vice qua	ycle - New service development - Service Blue Printing ality - Measuring service quality - SERVQUAL - Se lopment.			
UNIT -	IV	SERVICE DELIVERY AND PROMOTION		9	)
Priciną Manaą marke	g of ser ging sup sting cor	services, Designing service delivery System, Serviver, methods - Service marketing triangle - Managery, managing Demand and Supply of Service-Integrammunication.	ging d	eman	d,
UNIT -	V	SERVICE STRATEGIES		0	)
Logist	ics- Edu	eting Strategies for Health – Hospitality – Tourism cational - Marketing of Online Services- Entertainment echnique Services.			
		TOTAL	: 45 PE	RIOD	Ś
	OMES: ccessful	completion of the course student will be able to:			
1.		he concepts of services marketing in promoting services			
2.	-	marketing planning and control systems and howmarket om products	ing of s	service	es
3.	Apply r	nsight on how different service sectors are functioning ing of those services along with service measurement		servic	æ

4.		Analyze how to monitor and improve service quality to enhance customer satisfaction and loyalty.									
5.		Evaluate of positioning strategies, service delivery design, pricing methods, and integrated marketing communication in the context of service marketing.									
6.	Anal	Analyze the unique characteristics and challenges ofservice marketing in									
	indu	stries su	ch as hea cational e	alth, hosp		•			0		
TEXT	BOO	(S:									
1.		•	H. Lovelo					•	•		
2.			strategy F								
Ζ.			n, SERVI dition 20			, Prentice	e Hall of	india Priv	ate		
REFE				14, NEW L							
1.			Bateson,				ces Mark	eting, Sc	outh		
			gage lear					<u> </u>			
2.		rie Zeith iraw Hill,	aml et al 2007.	, Service	s Market	ing, 5th	Internatio	onal Editi	on, Tata		
3.	Vinn editi		ri & Kirti [	Dutta (201	17), Servi	ces Mark	eting, Tex	t and cas	es, 2nd		
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CC	)6	3	210	100	3	1.5	1 -	2	1		



21MB3350	B3350 SALES AND DISTRIBUTION MANAGEMENT							
OBJECTIVES	·							
	nts will develop a clear understanding of the sales an ement function and its significance in achieving organiza							
<ul> <li>Explor</li> </ul>	e the importance of sales territories and quotas in sales r	nan	age	mer	nt			
and se	nowledge of distribution channels and their role in deliver rvices to customers	ring	prod	duct	S			
UNIT - I	INTRODUCTION				9			
Selling -Scope	ement - nature and scope. Sales management positions, theories and strategies. Sales forecasting and budget -scope, potential, Merits and Demerits.							
UNIT - II	PERSONAL SELLING PROCESS, SALES TERRITO QUOTAS	RIE	S &		9			
Sales organisa	es and relationship selling. Designing Sales Territories ation structures.	s ar	nd q	lnota	as.			
UNIT - III	MANAGING THE SALES FORCE				9			
	ecruitment, selection, training, motivating, compensation	and	cor	ntrol	•			
UNIT - IV	MANAGING DISTRIBUTION CHANNELS				9			
	d levels, retailing and wholesaling. Designing channel		inne sterr		- Ind			
UNIT - V								
MANAGEMENT           Logistics - Scope, definition and components. Managing FG Inventory & warehousing. Transportation - Scope, Modes and role in Supply Chain effectiveness.           Use of Information Technology in Online Selling and Goods tracking.								
Use of Informa	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain							
Use of Informa	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain	effe	ectiv	ene	SS.			
OUTCOMES:	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain ation Technology in Online Selling and Goods tracking. TOTAL:	effe	ectiv	ene	SS.			
OUTCOMES: On successful	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain ation Technology in Online Selling and Goods tracking. <b>TOTAL</b> : completion of the course student will be able to:	effe : 45	ectiv PEI	ene RIO	SS.			
OUTCOMES: On successful 1. Compr	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain ation Technology in Online Selling and Goods tracking. <b>TOTAL:</b> completion of the course student will be able to: rehend about the key concepts, principles, and practices	effe : 45	ectiv PEI	ene RIO	SS.			
OUTCOMES: On successful 1. Compr manag	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain ation Technology in Online Selling and Goods tracking. TOTAL: completion of the course student will be able to: rehend about the key concepts, principles, and practices ingsales and distribution channels effectively about the personal selling process and its role in gen	effe : 45 invc	PEI	ene RIO d in	DS			
OUTCOMES: On successful 1. Compr manag 2. Apply revenu 3. Analyz	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain ation Technology in Online Selling and Goods tracking. TOTAL: completion of the course student will be able to: rehend about the key concepts, principles, and practices ingsales and distribution channels effectively about the personal selling process and its role in gen	effe : 45 invc	PEI olvec	ene RIO d in sal	ss. DS es			
OUTCOMES: On successful 1. Compr manag 2. Apply revenu 3. Analyz evalua	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain ation Technology in Online Selling and Goods tracking. TOTAL: completion of the course student will be able to: rehend about the key concepts, principles, and practices ingsales and distribution channels effectively about the personal selling process and its role in gen le. te about sales quotas, their purpose, and the process of	effe : 45 invo	PEI Divecting	ene RIO d in sal	ss. DS es			
OUTCOMES: On successful 1. Compresent manage 2. Apply revenue 3. Analyze evalue 4. Apply 5. Analyze	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain ation Technology in Online Selling and Goods tracking. TOTAL: completion of the course student will be able to: rehend about the key concepts, principles, and practices in ingsales and distribution channels effectively about the personal selling process and its role in gen the. the about sales quotas, their purpose, and the process of ting sales targets for individual sales representatives.	effe 3 45 invc nera of se eopl	PEI PEI Viveo ting e.	ene RIO d in sal	ss. DS es			
OUTCOMES: On successful 1. Compresent manage 2. Apply revenu 3. Analyz evalua 4. Apply 5. Analyz efficier	Scope, definition and components. Managing FG Transportation - Scope, Modes and role in Supply Chain ation Technology in Online Selling and Goods tracking. TOTAL: completion of the course student will be able to: rehend about the key concepts, principles, and practices ingsales and distribution channels effectively about the personal selling process and its role in gen te. the about sales quotas, their purpose, and the process of ting sales targets for individual sales representatives. recruitment, selection, training, and motivation of salespe te channel design, selection, and management strategies at and effective product distribution. the fundamentals of logistics and supply chainmanage	effe : 45 invc nera of se eopl to e	PEI olveo ting e. ensu	ene RIO d in sal	ss. DS es			

1.	Krishna K. Havaldar, Vasant M. Cavale, Sales and Distribution Management - Text and Cases, Third Edition, McGraw Hill Education, 2017							
REFE	REFERENCES:							
1.	Gupta S.L., Sales and Distribution Management - Text and Cases - An Indian Perspective, Excel Books, 2008.							
2.	Venugopal, Sales and Distribution Management - An Indian Perspective, ResponseBooks from Sage Publications, 2008.							

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2		NEE	2	24	1	-	-
CO2	-	1/2	40	-	3	2	1	-
CO3	2	13	2	1	2	-	-	-
CO4	2	121	~	2	1-1	2	2	2
CO5	-	131	2	22	3	121	-	_
CO6	2	12.	1- 18	14-12	-	2	-	1

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			1	T	P	$\sim$					
21ME	33351	PRODUCT AND BRAND MANAGEMENT	L 3	Т 0	P 0	C 3					
OBJE	CTIVES:										
•	-	the students appreciate the relationship between Corport oduct and Brand Management	orat	e St	rate	gy					
•	• To provide a framework to understand the new product development process, the organisational structures for new product development and product management functions within an organisation										
•	<ul> <li>product management functions within an organisation.</li> <li>To explore the various issues related to Brand Management and to enhance</li> </ul>										
the understanding and appreciation of this important intangible strategic asset, including brand associations, brand identity, brand architecture, leveraging brand assets, brand portfolio management etc.											
UNIT -		INTRODUCTION				9					
Brands Proces	s and B s - Bran	of New Product Development Process - Managing Produ randing- Introduction to Brand Management -Brand d Choice Decisions and Models									
UNIT -		BRAND COMMUNICATION				9					
Positic	ning -B	Elements of Branding- Brand Identity -Brand Commun rand Image and Personality - Valuation of Brands- Brar g and Monitoring.									
UNIT I	II	BRAND STRATEGIES				9					
Indian Strateg	Market gies- Bra	Factors and Products-Managing Brand Over Time- Build - Launching a New Brand -Revitalizing Brands and Extension Strategies - Brand Portfolio Manageme Geographical Borders.	-	Br	and	ing					
UNIT I	V	BRAND STRETCHING				9					
	extension	nd Experience - Digital Branding-Employment Branding - on scorecard-Culture and branding-Brand flashbacks -									
UNIT -	V	PRODUCT PROMOTION AND DISTRIBUTION	N			9					
	•	and Name Plan- Pricing Systems -Product Distribution S d Sales Promotion - Product Sales Management -Produc			ubli	C					
Export	ons Serv	ice. Product Marketing -Industrial Product Marketing nternational Marketing -Critical Success Factors in Brand	g F	Prod	uct						
Export Manag	ons Serv s and I ement.	ice. Product Marketing -Industrial Product Marketing	g F d			DS					
Exports Manag	ons Serv s and l jement. OMES:	ice. Product Marketing -Industrial Product Marketing nternational Marketing -Critical Success Factors in Brand	g F d			DS					
Exports Manag	ons Serv s and l ement. OMES: ccessful Compre	ice. Product Marketing -Industrial Product Marketing nternational Marketing -Critical Success Factors in Brand TOTAL:	g F d 45	PEI	RIO	DS					

3.					tors and	their role	in develoj	ping and				
-		managing successful brands.										
4.		Comprehend the importance of brand portfolio management and develop										
		strategies for managing multiple brands within a portfolio to optimize brand										
		performance and market coverage										
5.		Evaluate the performance of brand stretching initiatives using relevant metrics and key performance indicators										
				2 .								
6.						ict promo			ertising,			
			ion, publi	c relations	s and pro	duct mark	teting exp	orts				
TEXT												
1.		•		•	•	, Measur		•	•			
						Parames						
		edition; Pearson Education India; 2015; ISBN-10: 9789332542204; ASIN:										
		2542201										
REFE	RENC	ES:										
1.	Proc	luct and	Brand M	lanageme	ent Tapai	n K. Pan	da Paper	back: 88	8 pages			
						st edition						
						0496; ASI						
2.	Proc	luct and	brand m	anageme	ent by U	C Mathu	r; Publisl	ner: Exce	el Books			
	Dec	ember 20	012 ISBN	10: 9350	620146;18	SBN-13: 9	78-93506	520144				
С	0	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8			
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CC	)2	-	- 6t	2	261732	3	1	-	3			
CC	)3	2		3	5 19F	2	3	2				
CC	)4	2	-3	國國	2	SL.	*2	2	2			
CC	)5	-	2	3	$\sim$	2	2	-	-			
CC	)6	-	1.35	100	2	1.8	<u> </u>	-	3			
				12. 2								



21MB3352	DIGITAL MARKETING	L T 3 0	P C 0 3
OBJECTIVES			
market platfor		jital ma	rketing
	focusses on how digital marketing can be utilised by wits effectiveness can measured.	organis	sations
UNIT - I	INTRODUCTION		6
	space- Digital Marketing Strategy- Components -Op Website - Planning and Creation- Content Marketing - eting.		
UNIT - II	SEARCH ENGINE OPTIMISATION		9
factors -On- F	e optimisation - Keyword Strategy- SEO Strategy - S Page Techniques - Off-Page Techniques. Search Engi Engine works- SEM components- PPC advertisi	ne Mar	keting-
UNIT - III	E-MAIL AND MOBILE MARKETING		12
maximising Inventory/char Apps, Mobile (	nels- Location based; Context based; Coupons and Commerce, SMS Campaigns-Profiling and targeting.	ting-	Mobile Mobile
UNIT - IV	SOCIAL MEDIA MARKETING		9
conversations Engagement M	Aarketing - Social Media Channels- Leveraging Social medi and buzz. Successful / benchmark Social medi Aarketing - Building Customer relationships - Cre Influencer Marketing		ipaigns
UNIT - V	DIGITAL ANALYTICS		9
Digital Transfo	breation & Channel Attribution- Analytics- Ad-words, E Web Analytics - Changing your strategy based on analys		
	TOTAL	: 45 PE	RIODS
OUTCOMES:	completion of the course student will be able to:		
1. Compr	ehend the functions and metrics of digital marketing and s rapidly changing business environment	l its skil	ls in
2. Apply th	e strategies and skills of search engine optimization and ance in digital marketing	its	
	he concepts of email marketing and various techning for improve business performance.	ques ir	n digita
4. Analyze mobile brand v	various components and technologies of mobile marke advertising, mobile apps and mobile website optimizati sibility and customer engagement.	ion to e	enhance
	e different social media platforms and their unique feat aphics and best practices for marketing purposes.	ures, a	udience

6.			ne conce business			alytics to	ols and	technolo	ogies for				
TEXT		U											
1.	-	Ryan, D. (2014). Understanding Digital Marketing: Marketing Strategies for Engaging the Digital Generation, Kogan Page Limited											
2.	Pea	Fundamentals of Digital Marketing by Puneet Singh Bhatia; Publisher: Pearson Education; First edition (July 2017); ISBN-10: 933258737X; ISBN- 13: 978-9332587373											
REFE	RENC	ES:											
1.	Digital Marketing by Vandana Ahuja ; Publisher: Oxford University Press ( April 2015) ISBN-10: 0199455449; ISBN-13: 978-0199455447												
2.	Wile	y; 1st ec		ril 20	aditional to 17); ISB 6930								
3.	Puliz	zzi, J Beg	inner's G	uide to Di	igital Mar	keting , M	cGraw Hi	ll Educati	on.				
4.					Neher (2 Vestern , (			ia Marke	eting: A				
CC	C	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8				
CC	)1	2	3	1	2	-	1	2	-				
CC		-	1	2	-	3	2	1	-				
CC		2	2	2	1	2	3	2	-				
CC		2	3	-	2	-	2	2	2				
CC		-	1	2	-	2	3	-	2				
CC	)6	1	-	-	3	-	-	2	1				

21MB3353	1MB3353 MARKETING ANALYTICS					
21100000	WARKETING ANALTTICS	3	0	0	3	
OBJECTIVES						
	students understand the basics of marketing analytics, its sig	nific	anc	e. ar	nd	
its applic	ation in contemporary business contexts.					
	ire skills in forecasting sales, market trends, and consumer be			sing		
•	on analysis, time series modeling, and other predictive technic					
	ore methodologies like cluster analysis and customer lifetime v customers, understand their value, and personalize marketin				is to	
	rstand conjoint analysis and demand estimation techniques to					
	offerings and pricing strategies based on consumer preference			-		
	web metrics, SEO analytics, and online advertising analytics					
	digital marketing efforts for enhanced online visibility and eng	-	men	it.		
UNIT - I	INTRODUCTION TO MARKETING ANALYTIC				9	
	Scope of Analytics. Data for Marketing Analytics. Deci					
	Predictive and Prescriptive Models. Problem Solving	and	I De	ecisi	ion	
making proce	ss. /s/					
UNIT - II	DATA MANAGEMENT				9	
Exploring Data	a; Frequencies; Descriptive Statistics Cross tabulations	: Ind	dep	ende	ent	
	st; One-Way ANOVA Simple Regression and Correla					
	Forecast sales, Modeling Trend and Seasonality, Ra					
Average Meth	od.				-	
<u> </u>						
UNIT - III	CUSTOMER SEGMENTATION AND VALUATIO				9	
	Segmentation – Introduction to Cluster analysis multiva					
	odel performance and validation of assumptions for Clu		r ar	alys	SIS.	
Customer val	ue Analysis, Customer Lifetime Value-Conjoint Analysi	s.				
UNIT - IV	METRICS AND MEASUREMENTS ANALYTIC	S			9	
Product and P	rice analytics-Conjoint Analysis -Pricing - Estimating De	ema	nd (	Curv	/es	
	e Price Retailing Analytics-Allocating Retail Space					
	rket Basket Analysis. Advertising and Promotion Analyt	tics-	Pro	mot	ion	
Analytics-Mea	suring the effectiveness of Advertising.					
UNIT - V	WEB ANALYTICS				9	
	e Optimisation- Tracking the success of SEO. Web me	trics	<u> </u>	300	-	
-	ertising & Analytics	unce	) - (	JUU	gie	
	TOTAL	: 45	PE	rio	DS	
OUTCOMES:						
On successful	completion of the course student will be able to:					
1. Compr sectors	ehend the extent and utilization of marketing analytics in	div	erse	)		
	be data through descriptive, predictive and prescriptive	e an	alvti	ics		
	dologies		- )			
3. Apply	customer data, sales data, and market research findings	to p	orov	ide		
actiona	able solutions	-				
4. Analys	e various tools for customer segmentation and value and	alys	is			

5.	Evaluating the principles and techniques of product and price analytics, retailing analytics and advertising analytics
6.	Apply web analytics data to pinpoint opportunities for enhancement and guide marketing decisions based on data-driven insights
TEXT	BOOKS:
1.	Sorger, Stephan. Marketing Analytics: Strategic Models and Metrics. Admiral Press/ Create Space, 2013
2.	Grigsby, M. (2015). Marketing Analytics: A Practical Guide to Real Marketing Science. Kogan Page Publishers.
REFE	RENCES:
1.	Evans, J.R. (2012). Business analytics methods, models and decisions. New Jersey: Pearson, Upper Saddle River.
2.	Cases and Data Sets for Hands on Learning. Pearson Education
3.	Sathi, A. (2014). Engaging customers using big data: how Marketing analytics are transforming Business. Palgrave Macmillan.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	-	-	-	-	1	-
CO2	2	3	NEERI	202	E.	1	2	-
CO3	2	3	~ ~	3	13	-	2	2
CO4	- 1	3	- 31	20	1 1	2	3	2
CO5	2	2	1	2		3	1	-
CO6	2	3		2	1.1.	2	2	0



	354	MARKETING LOGISTICS	L 3	Т 0	P 0	C 3			
OBJEC	TIVES:				I				
		stand the concept of marketing logistics and its role in		eral	1				
		ing strategy			-				
•	Analyz	e the components and functions of marketing logist	tics	inc	ludi	ng			
	-	ortation, warehousing, packaging and packing							
•		tand the importance of efficient supply chain manageme	ent ir	า					
UNIT -		ting marketing activities. MARKETING LOGISTICS: AN OVERVIEW				9			
	-	jectives and Importance of Marketing Logistics; Mark							
interface, Key tasks and value chain activities; Strategic insights: delivering and managing CRM roles and outcomes. creating competitive and marketing advantage; Domestic & International Logistics-The marketing challenges; Special Aspects of Export and import logistics: Documentation, Processes and insights.									
UNIT -	II	CREATING AND MANAGING CUSTOMER CENTRIC CHAIN AND LOGISTICS	SUF	PL	Y	9			
	cs pro	cess re-engineering; Mapping internal and exterr	-ado nal	cu	stor	ner			
Logistic satisfac manage	ction - ement,	Managing risk in the Supply chain; logistics and	nal pe	cu					
Logistic satisfac manage	ction - ement, III	Managing risk in the Supply chain; logistics and CONTAINERIZATION AND TRANSPORTATIO	nal pe	cu: erfor	mar	nce 9			
Logistic satisfac manage UNIT - Contair Clearar Transpo Charac Transpo	ction - ement, III nerization ner Dep nce at ortation cteristics ort; Coa	Managing risk in the Supply chain; logistics and	nal pe <b>N</b> strai n Cl ran spoi	cu: erfor nts; FS; spo t; Air	mar Inla Exp rtati Mo Ca	9 and oort on, dal rgo			
Logistic satisfac manage UNIT - Contair Clearar Transpo Charac Transpo	ction - ement, III nerization ner Dep nce at ortation cteristics ort; Coa of Ships	Managing risk in the Supply chain; logistics and <b>CONTAINERIZATION AND TRANSPORTATIO</b> on - Genesis, Concept, Classification, Benefits and Cons ot (ICD): Roles and Functions - Container Freight Statio ICD; CONCOR; ICDs under CONCOR; Basics of T Functionality and Principles; Multimodal Trans s, Modal Comparisons; logistical efficiency - Internatio astal and Ocean transportation, Characteristics of shipp	nal pe strai n Cl ran spoi onal ping	cu: erfor nts; FS; spo t; Air	mar Inla Exp rtati Mo Ca	9 and oort on, dal rgo			
Logistic satisfac manage UNIT - Contair Clearar Transpo Charac Transpo Types o UNIT - Wareho Distribu Packag Shipme Primary	ction - ement, III nerization ner Dep nce at ortation oteristics ort; Coa of Ships IV ouse M ution to ging -M ent-Inlar y, Seco	Managing risk in the Supply chain; logistics and CONTAINERIZATION AND TRANSPORTATIO on - Genesis, Concept, Classification, Benefits and Cons ot (ICD): Roles and Functions - Container Freight Statio ICD; CONCOR; ICDs under CONCOR; Basics of T Functionality and Principles; Multimodal Trans s, Modal Comparisons; logistical efficiency - Internatio astal and Ocean transportation, Characteristics of shipp s- shipping vessels.	nal pe strai n Cl ran spou nal bing G ties- ; Pa ge- ging	cua rfor nts; FS; spo t; Air trai Clinckir Ov	mar Inla Exp rtatii Mo Ca nspo Ca nspo eari ng a erse Typ	9 and oort on, dal rgo ort- 9 ng, and eas es:			

Logistics and Technology – Big data, IoT, AI and Blockchain in Logistics and Supply Chain; Technology embedded freight and transport management; Drone and robotic technologies in logistics- Global Information System GIS and Global Positioning System in logistics; Future scope of E-logistics management, ICT in multi-modal transport and technological trends.

TOTAL: 45 PERIODS

OUTC	OMES:										
On suc	ccessful compl	letion of	of the co	ourse s	tudent v	vill be a	ble to:				
1.	Apply the ch international			narketir	ng logis	tics bot	th dom	estic ar	nd		
2.	Apply custon strategy	Apply customer value and services by developing market driven logistics strategy									
3.	Analyze com	preher	nsive tra	ansport	ation ar	nd conta	ineriza	tion stra	ategies		
4.	Apply the role	e and i	mporta	nce of v	warehou	using in	market	ing logi	stics		
5.		Analyze packaging materials, packing process, designs and sustainability considerations in marketing logistics									
6.	Analyze the	•		•		on ma	rketing	strateg	gies, cu	ustomer	
	experience a	nd sup	oply cha	ain oper	ations						
TEXT	BOOKS:	12	1 1	$\sim$	$\sim$	1	131				
1.	Bowersox, C	Closs,	Coope	r, "Sup	oply Ch	nain Lo	gistics	Manag	gement'	', 5th	
	Edition, McG	iraw Hi	II, 2020	).							
2.	John J. Coy										
	"Supply Chai		ageme	nt: A Lc	gistics	Perspe	ctive", 1	0th Edi	tion, Ce	engage	
	Publication, 2		C L	1 1 1	-1. "	CHC 1	1+1	- + "		1:4:	
3.	Martin Chris Routledge Ta						g Logi	stics,	Zna E	altion,	
4.	Sunil Chopra						220000	nt" 7th		2	
4.	Pearson Edu				phy Ch		layeme	, <i>1</i> 11, <i>1</i> 11		Ι,	
5.	Yingli Wang,				onistics	Manad	ning Yo	ur Diait	al Sunn	lv.	
0.	Chains for Co							u Digita	u oupp	'y	
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PO CO	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	-	-	-	2	I	-	3
CO2	1	-	2	-	-	1	2	-
CO3	-	-	1	-	-	2	-	2
CO4	-	-	-	-	1	-	-	-
CO5	-	3	-	-	-	1	2	-
CO6	1	1	-	-	-	-	-	1

	L 3	Т 0	P 0	С 3		
OBJE	CTIVES:					
٠		stand the concept and principles of inbound marketing an	d its	s rol	e in	
		n marketing strategies e different channels and platforms for distributing and pro	mot	tina		
•	conten	t effectively				
•		e and implement inbound marketing strategies and build ness and foster audience engagement.	brai	nd		
UNIT ·		INBOUND & CONTENT MARKETING				9
Philos Metho Marke	ophy- Ir dology ting - C	SMAAC and paradigm shifts in Marketing - Inbound bound Vs. Digital Vs. Outbound Marketing - Inbound - Inbound Marketing in Practice - CLV - Introduction Content Types/Formats - Content Marketing framework for Content Marketing – Effective Blogging	nd n te	Ma o C	rket onte	ng ent
UNIT -	-	SEARCH ENGINE OPTIMIZATION				9
its cor SEO t	relation echnique	SEO and SEM - Understanding Google ranking signals to search engine rankings - Rank brain and Quality sco es for better search results (On page and Off Page o ools for conducting SEO audit - Local SEO – Mobile SEO	ore ptim	- Ef	fect	ve
UNIT ·	- 111	SOCIAL MEDIA MARKETING & PROGRAMMATIC AD				9
social	media :	Social Media platforms and its characteristics - Trends strategy - Measuring social media results - Tools for sics of Programmatic ads – Native Ads				
UNIT	- IV	E-MAIL AND MOBILE MARKETING				9
Email	Marketii Market	E-MAIL AND MOBILE MARKETING ng - Types of e-mails - Creating e-mail marketing strate ing - Measuring e-mail marketing campaigns – Bas				for
Email e-mail	Marketii Market ting	ng - Types of e-mails - Creating e-mail marketing strate				for
Email e-mail Marke UNIT - Influer engag	Marketin Market eting - V ncers - F ing Influ	ng - Types of e-mails - Creating e-mail marketing strate ing - Measuring e-mail marketing campaigns – Bas	dent	of I	Mot ng a	for bile 9 nd
Email e-mail Marke UNIT Influer engag marke	Marketing - V ncers - F ing Influ ting cam	ng - Types of e-mails - Creating e-mail marketing strate ing - Measuring e-mail marketing campaigns – Bas INFLUENCER MARKETING Role of Influencers in Marketing today - Strategies for In- iencers - Tools for Influencer Marketing - Creating	dent an	of I tifyir infli	Mob ng a uend	for bile 9 nd cer
Email e-mail Marke UNIT - Influer engag marke	Marketing - V ncers - F ing Influ ting cam	ng - Types of e-mails - Creating e-mail marketing strate ing - Measuring e-mail marketing campaigns – Bas INFLUENCER MARKETING Role of Influencers in Marketing today - Strategies for la iencers - Tools for Influencer Marketing - Creating paign and measuring the results (metrics). TOTAL:	dent an	of I tifyir infli	Mob ng a uend	for bile 9 nd cer
Email e-mail Marke UNIT Influer engag marke	Marketing - V ncers - F ing Influ ting cam	ng - Types of e-mails - Creating e-mail marketing strate ing - Measuring e-mail marketing campaigns – Bas INFLUENCER MARKETING Role of Influencers in Marketing today - Strategies for le iencers - Tools for Influencer Marketing - Creating paign and measuring the results (metrics). TOTAL: completion of the course student will be able to:	dent an	of I tifyir influ PEF	Mot ng a ueno RIO	for ile 9 nd cer
Email e-mail Marke UNIT - Influer engag marke	Marketing • V • Nocers - F ing Influting cam • OMES: • Compr	ng - Types of e-mails - Creating e-mail marketing strate ing - Measuring e-mail marketing campaigns – Bas INFLUENCER MARKETING Role of Influencers in Marketing today - Strategies for le rencers - Tools for Influencer Marketing - Creating paign and measuring the results (metrics). TOTAL: completion of the course student will be able to: ehend and explain Inbound Marketing & draft content maton-page and off page SEO techniques by applying tools a	dent an	of I tifyir influ PEF	Mot ng a uend RIO	for ile 9 nd cer

Analyze the principles and strategies of social media marketing and
programmatic advertising in inbound marketing landscape.
Apply the key components and best practices for designing effective e-mail
and mobile marketing campaigns
Analyze influencer marketing strategies
RENCES:
Seema Gupta, "Digital Marketing", McGraw Hill, 2ndEdition, 2020
Ryan Deiss & Russ Henneberry, "Digital Marketing for Dummies", Wiley
Publication, 2020
Simon Kingsnorth, "Digital Marketing Strategy", Kogan Page, 2nd Edition,
2019
Brian Halligan & Dharmesh Shah, "Inbound Marketing Revised & Updated",
Wiley Publication, 2014
Jeremy Kagan & Siddharth Shekar Singh, "Digital Marketing Strategy &
Tactics", Wiley, 2020

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	-	2	-	-	2	-	2	-
CO2	2	-	3	-	-	1	2	-
CO3	-	3	2	-	-	2	-	3
CO4	2	-	-	-	1	-	-	-
CO5	-	3	-	-	-	-	2	-
CO6	1	-	1	-	3	2	-	2

21MB3	3356	CUSTOMER RELATIONSHIP MANAGEMENT	L 3	Т 0	P 0	C 3
OBJE	CTIVES:					
•	Unders manag	tand the concept and significance of customer ement (CRM) in building strong and profitable customer				
•		e the role of CRM in enhancing customer satisfaction, in er lifetime value (CLV), and driving business growth.	crea	asin	g	
•	develo	tand the importance of personalized customer interaction strategies for delivering personalized experiences through the point of the personalized experiences through the point of the poin			he	
UNIT -	I	CUSTOMER CENTRICITY				9
Centri		for CRM – Benefits of CRM – CRM in the digital ag aracteristics of customer centric companies - Developin any.				
UNIT -		CUSTOMER EXPERIENCE				9
Unders Manag	standing ing cust arding pi	ecycle – Managing Customer Experience in B2E Customer Journey - Customer Journey Mapping - Cus comer funnel for better customer experience - Custome rocess - Personalization vs. Hyper Personalization- W	tom r on	er fi boa	unne Irdin	el- g-
UNIT -	III	CUSTOMER ANALYTICS				9
		rn - Customer Acquisition Cost - Revenue Churn - Cust cy, Frequency and Monetary - Customer Profitability Ar			e tir	ne
UNIT -	IV	<b>CUSTOMER SATISFACTION &amp; LOYALTY</b>				9
Custo profita	mer Lo bility re	Score - Customer Happiness Index (CHI) - Customer yalty and Measuring customer loyalty - Exploring lationship - Analyzing loyalty programs effectiveness or better customer engagement and retention	j lo	yalt	у а	nd
UNIT -	V	CONTEMPORARY TOOLS FOR CRM				9
enable		utomation - Journey Orchestration - Process manage Performance management - Predictive sales - Omnich	anr	nel -	Теа	am
		TOTAL	45	PE	RIO	DS
	OMES: ccessful	completion of the course student will be able to:				
1.	Compr	ehend the role & implications of CRM in business				
2.		he concept of customer lifecycle management and its ance in both B2B and B2C contexts				
3.	Analyze through	e customer funnel and understand its role in guidin	g c	usto	ome	rs

4.	Evaluate the importance and applications of customer analytics in driving data-driven decision making and improving business performance
5.	Analyze the significance of customer satisfaction and loyalty in business
	success and growth.
6.	Evaluate and select appropriate CRM software platforms based on
	organizational needs and requirements
REFE	RENCES:
1.	Francis & Stan Maklan Buttle, "Customer Relationship Management:
	Concepts and Technologies", Routledge, 4th Edition, 2019.
2.	Jagdish N Sheth, Parvatiyar Atul, G Shainesh, "Customer Relationship
	Management Emerging Concepts Tools & Applications", McGraw Hill, 2017
	Lars Helgeson, "CRM for Dummies", Wiley Publication, 2017
4.	Paul Greenburg, "CRM at the Speed of Light", Tata McGraw Hill, 4th edition,
	2017
5.	Peter Fader and Sarah Toms, "The Customer Centricity Playbook", The
	Wharton Press, 2018.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	1	2	-	-	2	-	-	-
CO2	-	2	I	-	-	1	2	-
CO3	-	-	2	-	-	2	-	2
CO4	2	-	-	-	1	-	-	-
CO5	-	2	-	-	-	-	2	-
CO6	1	1	-	-	2	2	1	2

21MB3361	21MB3361 DEEP LEARNING AND ARTIFICIAL INTELLIGENCE										
	S: To impart Knowledge on the following topics:										
princi	<ul> <li>Expose the students to solid understanding of the basic concepts and principles of artificial intelligence.</li> <li>To enable the students to understand the different approaches to knowledge</li> </ul>										
	To enable the students to understand the different approaches to knowledge representation in Artificial Intelligence.										
	Provision of knowledge regarding the Application of AI and Basics of Machine Learning.										
	rstanding the construction of Deep Feed Forward Network										
	rstanding the Techniques involved in Regularization of De										
Learr	est the students to understand the concept Optimizating Networks	atio	ר ח	f D	eep						
UNIT - I	INTELLIGENT SYSTEMS				9						
Applications Control Strat	Introduction to Artificial Intelligence: Intelligent Systems - Foundations of AI - Applications - Tic-Tac-Toe Game Playing - Problem Solving: State-Space Search and Control Strategies: Introduction - General Problem Solving - Exhaustive Searches - Heuristic Search Techniques.										
UNIT - II	KNOWLEDGE REPRESENTATION				9						
Representati	nowledge Representation: Introduction - Approaches to on - Knowledge Representation using Semantic Network on using Frames.										
UNIT - III	ARTIFICIAL INTELLIGENCE APPLICATIONS	;			9						
Systems - Ap	ems and Applications: Blackboard Systems - Truth plications - Machine-Learning Paradigms: Machine-Learn nd Unsupervised Learnings.										
UNIT - IV	DEEP NETWORKS				9						
XOR - Gra	ks: Modern Practices: Deep Forward Networks: Exam dient-Based Learning - Hidden Units - Architectur n for Deep Learning.				ing -						
UNIT - V	DEEP LEARNING MODELS				9						
Optimization for Training Deep Models: How Learning Differs from Pure Optimization - Challenges in Neural Network Optimization - Basic Algorithms - Parameter Initialization Strategies - Algorithms with Adaptive Learning Rates - Approximate Second - Order Methods - Optimization Strategies and Meta -Algorithms. TOTAL: 45 PERIODS											
OUTCOMES	-										
	Il completion of the course student will be able to:										
,	Heuristic Search Techniques in solving realworld problem										
repre	narize knowledge of various AI approaches for knowledge sentation.										
3. Com learn	prehend the Knowledge of Expert systems and applications ng.	s of	Ma	chin	e						
	age the architecture and principles behind deep forward n										

5.	Apprehend deep forward network to learn the XOR function, a fundamental problem in artificial intelligence.
6.	Comprehend the unique challenges and considerations involved in optimizing deep models.
TEXT	BOOKS:
1.	Saroj Kaushik, "Artificial Intelligence", Cengage Learning India Pvt. Ltd., 2011
2.	Ian Goodfellow, Yoshua Bengio, Aaron Courville, "Deep Learning", MIT Press, 2016
REFE	RENCES:
1.	Deepak Khemani, "A First Course in Artificial Intelligence", McGraw Hill Education (India) Private Limited, New Delhi
2.	Elaine Rich, Kevin Night, Shivashankar B Nair, "Artificial Intelligence" Third Edition, McGraw Hill, 2008.
3.	Li Deng and Dong Yu, "Deep Learning Methods and Applications", Foundations and Trends in Signal Processing.
4.	YoshuaBengio, "Learning Deep Architectures for AI", Foundations and Trends in Machine Learning.

со	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	3	-	-	-	2	-	-
CO2	2	3	-	-	-	2	-	-
CO3	3	-	-	-	-	2	2	-
CO4	-	3	-	-	-	-	1	-
CO5	2	-	-	-	-	2	1	-
CO6	1	3	-	-	-	-	2	-

041400			L	Т	Ρ	С					
21MB3362		SOCIAL MEDIA WEB ANALYTICS	3	0	0	3					
OBJEC		To impart Knowledge on the following topics:									
•		why social media web analytics are crucial for busines									
		zations to measure their online presence, track their perf lata-driven decisions.	orm	anc	e, a	na					
•	Get ha platforr										
٠		breast of the latest trends and advancements in sociates, including new tools, techniques, and platforms.	al m	nedi	a w	eb					
UNIT -	1	INTRODUCTION				9					
Evoluti	on of on	line communities - History and Evolution of Social Media	- So	cial	Me	dia					
		nedia - Social Media Audience and Goals for using Soci									
		ng Social Media: Strong and weak ties - Influencers				as					
		ess - Social theory and social media -technological d									
		urse on social media technologies.			-						
UNIT -		COMMUNITY BUILDING AND MANAGEMEN	г			9					
Scienc	e of So	cial-Media - Keys to Community Building - Promoting	SO	cial	me	dia					
- Enco	urage P es, com	g Social Media Accounts - The Viral Impact of social me ositive Chatter in Social Media - Identity in social media munities, activist movements, and consumer markets -	a: fo	orma	ation	n of					
UNIT -	III	SOCIAL MEDIA POLICIES AND MEASUREMEN	TS			9					
Social	Media F	Policies-Etiquette, Privacy - ethical problems posed by er	mer	ging	SO	cial					
Media	- social	ogies - The road ahead in social media - The Basics of T media analytics - In-sights gained from Social Media formance Reports - Observations of social media use.									
UNIT -		WEB ANALYTICS				9					
Web Analytics - Present and Future, Data Collection - Importance and Options, Overview of Qualitative Analysis, Business Analysis, KPI and Planning, Critical Components of a Successful Web Analytics Strategy, Web Analytics Fundamentals, Concepts, Proposals & Reports, Web Data Analysis.											
UNIT -	V	SEARCH ANALYTICS				9					
engage trackin visualiz	Search Engine Optimization (SEO), non-linear media consumption, user engagement, user generated content, web traffic analysis, navigation, usability, eye tracking, online security, online ethics, content management system, data visualization, RSS feeds, Mobile platforms, User centered design, Understanding search behaviors.										
		TOTAL	: 45	PE	rio	DS					
	OMES: cessful	completion of the course student will be able to:									

	Comprehend the significance of social media web analytics for businesses and organizations to measure their online presence.
	Summarize community building through collective identity in social media.
3.	Interpret various social media policies.
4.	Apply metrics to Track performance, and make data-driven decisions.
5.	Grasp various web analytics tools.
6.	Summarize search analytics techniques.
TEXT	BOOKS:
1.	Christian Fuchs, Social-Media a critical introduction, SAGE Publications Ltd,
	2014
2.	Eric T. Peterson, Web Analytics Demystified, Celilo Group Media and Café
	Press, 2004.
REFE	RENCES:
1.	K. M. Shrivastava, Social Media in Business and Governance, Sterling
	Publishers Private Limited, 2013.
2.	Bittu Kumar, Social Networking, V & S Publishers, 2013.
3.	Avinash Kaushik, Web Analytics - An Hour a Day, Wiley Publishing, 2007
4.	Takeshi Moriguchi, Web Analytics Consultant Official Textbook, 7th Edition,
	2016

со	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	2	-	-	-	-	-	-
CO2	2	-	-	-	-	1	-	-
CO3	3	-	-	-	-	-	-	-
CO4	2	-	-	-	-	2	3	-
CO5	3	-	-	-	-	-	3	-
CO6	2	-	-	-	-	-	3	-

		L	Т	Ρ	С					
21MB3363	BIG DATA ANALYTICS	ц З	0	0	3					
		5	U	U	5					
OBJECTIVES: To impart Knowledge on the following topics:										
<ul> <li>The course aims to provide a solid understanding of the basic concepts, characteristics, and challenges associated with Big Data, including its volume, velocity, variety, and veracity.</li> </ul>										
	• The course aims to provide a solid understanding of the basic concepts, components, and architecture of the Hadoop framework.									
• The c										
UNIT - I	INTRODUCTION TO BIG DATA				9					
Introduction	o Big Data Platform - Challenges of Conventional System s – Nature of Data - Analytic Processes and Tools									
UNIT - II	MINING DATA STREAMS				9					
Introduction to Streams Concepts – Stream Data Model and Architecture – Stream Computing - Sampling Data in a Stream – Filtering Streams – Counting Distinct Elements in a Stream – Estimating Moments – Counting Oneness in a Window – Decaying Window – Real time Analytics Platform (RTAP) Applications – Case Studies – Real Time Sentiment Analysis- Stock Market Predictions.										
UNIT - III	HADOOP				9					
Analysing the HDFS - Java How Map Re Scheduling-S	doop - the Hadoop Distributed File System – Componer a Data with Hadoop - Scaling Out - Hadoop Streaming interfaces to HDFS Basics - Developing a Map Reduce aduce Works - Anatomy of a Map Reduce Job run - F huffle and Sort – Task execution - Map Reduce Types a Features Hadoop environment.	i - e Ap Failu	De: oplic ures	sign atio	of n - lob					
UNIT - IV	FRAMEWORKS									
	FRANCEWURKS				9					
Applications Hive service	on Big Data Using Pig and Hive - Data processing ope s - HiveQL - Querying Data in Hive - fundamentals c IBM Info Sphere BigInsights and Streams.				-					
Applications Hive service ZooKeeper	on Big Data Using Pig and Hive - Data processing ope s - HiveQL - Querying Data in Hive - fundamentals of IBM Info Sphere BigInsights and Streams.				g - nd					
Applications Hive service ZooKeeper UNIT - V Predictive A Interpretation	on Big Data Using Pig and Hive - Data processing ope s - HiveQL - Querying Data in Hive - fundamentals c	of H	Bas	se a	g - ind 9					
Applications Hive service ZooKeeper UNIT - V Predictive A Interpretation	on Big Data Using Pig and Hive - Data processing ope s - HiveQL - Querying Data in Hive - fundamentals of IBM Info Sphere BigInsights and Streams. VISUALIZATION TECHNIQUES nalytics- Simple linear regression- Multiple linear r of regression coefficients. Visualizations - Visual data	regr	Bas	ions	g - ind 9					
Applications Hive service ZooKeeper UNIT - V Predictive A Interpretation techniques- in OUTCOMES On successfu	on Big Data Using Pig and Hive - Data processing ope s - HiveQL - Querying Data in Hive - fundamentals of IBM Info Sphere BigInsights and Streams. VISUALIZATION TECHNIQUES nalytics- Simple linear regression- Multiple linear re of regression coefficients. Visualizations - Visual data nteraction techniques - Systems and applications. TOTAL: I completion of the course student will be able to:	regr an: : <b>45</b>	Bas ess alys PE	ions is	g - ind 9 - DS					
Applications Hive service ZooKeeper UNIT - V Predictive A Interpretation techniques- in OUTCOMES On successfu 1. Compl	on Big Data Using Pig and Hive - Data processing ope s - HiveQL - Querying Data in Hive - fundamentals of IBM Info Sphere BigInsights and Streams. VISUALIZATION TECHNIQUES nalytics- Simple linear regression- Multiple linear re of regression coefficients. Visualizations - Visual data interaction techniques - Systems and applications. TOTAL:	regr an: : <b>45</b>	Bas ess alys PE	ions is	g - ind 9 - DS					

3.	
5.	Analyze the history and evolution of Hadoop, including its origins, key contributors and significant milestones.
4.	Apply how MapReduce works, including the stages of MapReduce job and the key components involved in its execution.
5.	Apply various application in Big Data.
6.	Comprehend various visualization techniques.
TEXT	BOOKS:
1.	Frank J Ohlhorst, "Big Data Analytics: Turning Big Data into Big Money", Wiley and SAS Business Series, 2013.
2.	Colleen Mccue, "Data Mining and Predictive Analysis: Intelligence Gathering and Crime Analysis", Elsevier, Second Edition, 2015.
3.	Paul Zikopoulos, Chris Eaton "Understanding Big Data: Analytics for Enterprise Class Hadoop and Streaming Data", McGraw Hill, 2012.
REFEF	RENCES:
1.	Michael Berthold, David J. Hand, "Intelligent Data Analysis", Springer, Second Edition, 2007.
2.	Bill Franks, "Taming the Big Data Tidal Wave: Finding Opportunities in Huge Data Streams with Advanced Analytics", Wiley and SAS Business Series, 2012.
3.	Paul Zikopoulos, Dirk de Roos, Krishnan Parasuraman, Thomas Deutsch, James Giles, David Corrigan, "Harness the Power of Big data - The big data platform", McGraw Hill, McGraw - Hill Osborne Media, 2012.
4.	Pete Warden, "Big Data Glossary", O"Reilly, 2011.
5.	Tom White "Hadoop: The Definitive Guide" Third Edition, O'reilly Media, 2012

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	2	-	-	2	3	3	3
CO2	2	3	3	-	-	1	2	-
CO3	-	3	1	-	-	2	3	3
CO4	2	-	-	-	1	3	-	-
CO5	-	3	-	-	-		2	-
CO6	1	1	-	-	3	2	3	2

21MB3	3364	DATAMINING FOR BUSINESS INTELLIGENCE	L T P C 3 0 0 3
OBJEC		To impart Knowledge on the following topics:	
•		ourse aims to provide a foundational understanding o ots, techniques, and algorithms.	f data mining
•	The co demon	urse may include case studies and examples from varion strating the application of data mining techniques in r ss scenarios	
•		ts are encouraged to think critically and creatively to add ss intelligence problems using data mining techniques.	Iress complex
UNIT -		INTRODUCTION	9
		ext mining, Web mining, Spatial mining, Process min d datamarts.	ing, Data
UNIT -		DATA MINING PROCESS	9
Classif Confus Techni	fication sion ma	process – KDD, CRISP-DM, SEMMA and Do and Prediction performance measures -RSME, M htrix, Receiver Operating Characteristic curve & AU hold-out, k-fold cross-validation, LOOCV, random sub	MAD, MAPE, JC; Validation
UNIT -	111	PREDICTION TECHNIQUES	9
		ation, Time series – ARIMA, Winter Holts, Vector A variate regression analysis.	utoregressive
UNIT -	IV	CLASSIFICATION AND CLUSTERING TECHNIQ	UES 9
		<ul> <li>Decision trees, K-Nearest Neighbour, Logistin nalysis; Clustering; Market basket analysis.</li> </ul>	c regression,
UNIT -	V	MACHINE LEARNING AND AI	9
		rithms, Neural network, Fuzzy logic, Support Veo echniques – Ant Colony, Particle Swarm, DEA.	ctor Machine,
			: 45 PERIODS
	OMES:		
		completion of the course student will be able to: hend the concepts of data mining in optimizing business	process.
		ne stages and steps involved in data mining proces iate method for specific data analysis tasks.	s by choosing
3.	Apply va	alidation techniques in data mining for data visualization	
	-	the various prediction techniques by using appropr specific problems.	iate metrics to
	-	various classification and clustering algorithms conside ty, interpretability and model complexity	ring factors like
	-	different machine learning and AI algorithms using appr rpret the results in the context of specific problems	ropriate metric

TEXT	BOOKS:
1.	Jaiwei Ham and Micheline Kamber, Data Mining concepts and techniques, Kauffmann Publishers 2006
2.	Efraim Turban, Ramesh Sharda, Jay E. Aronson and David King, Business Intelligence, Prentice Hall, 2008
3.	W. H. Inmon, Building the Data Warehouse, fourth edition Wiley India Pvt. Ltd. 2005
REFE	RENCES:
1.	Ralph Kimball and Richard Merz, The data warehouse toolkit, John Wiley, 3rd edition, 2013
2.	Michel Berry and Gordon Linoff, Mastering Data mining, John Wiley and Sons Inc, 2 <sup>nd</sup> Edition, 2011
3.	G. K. Gupta, Introduction to Data mining with Case Studies, Prentice hall of India, 2011
4.	Elizabeth Vitt, Michael Luckevich Stacia Misner, Business Intelligence, Microsoft, 2011
5.	Michalewicz Z., Schmidt M. Michalewicz M and Chiriac C, Adaptive Business Intelligence, Springer – Verlag, 2007
6.	Galit Shmueli, Nitin R. Patel and Peter C. Bruce, Data Mining for Business Intelligence - Concepts, Techniques and Applications Wiley, India, 2010.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	-	2	1	-	2	2	-
CO2	-	2	2	-	-	-	2	-
CO3	2	3	-	-	2	-	-	2
CO4	-	2	1	-	-	-	-	-
CO5	2	2	-	2	-	2	1	-
CO6	3	-	2	-	1	-	2	-

21MB3365		L	Т	Ρ	С
2110103303	R PROGRAMMING	3	0	0	3
OBJECTIVES	To impart Knowledge on the following topics:				
	its will gain a solid understanding of the basic syntax, da	ata t	vpe	s, a	nd
	structures in the R programming language.		71	-, -	-
Studer	ts will gain a solid understanding of non-linear models, i	inclu	udin	g th	eir
	teristics, advantages, and limitations.				
	ts will learn the fundamentals of time series analysis and	d its	rele	evan	се
in fored	casting and understanding temporal patterns in data.				
UNIT - I	GETTING STARTED WITH R				9
•	The R environment - R packages - Basics of R - Data nto R - Graphics in R.	a St	truct	ture	5 -
UNIT - II	FUNCTIONS AND STATEMENTS				9
Writing R funct	ions - Control Statements (if and else, switch, if-else, cor	npo	ound	tes	ts)
– Loops in R	for, while, controlling loops) - Applications using the f	func	ctior	ns a	nd
loops.					
UNIT - III	DATA MANIPULATION AND ANALYSIS				9
	lation - Data Reshaping - Manipulating Strings - Basic S , Correlation, t-tests, ANOVA)	tatis	stics	s usi	ng
UNIT - IV	LINEAR MODELS USING R				9
	- Simple and Multiple regressions, GLM - Logit Regre	essi	on,	Мос	lel
ulaynosiics - F	Residuals, Cross validation, Boot strapping.				
UNIT - V	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R	ERI	NG		9
UNIT - V	NON-LINEAR MODELS, TIME SERIES AND CLUST				
UNIT - V Nonlinear Moc Decision trees	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Ado , Random forests. Time Series - Autoregressive moving	ditiv jav	e M	lode	
UNIT - V Nonlinear Mod Decision trees	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Ado s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering.	ditiv j av	e M era	lode ge,	ls,
UNIT - V Nonlinear Mod Decision trees VAR, GARCH.	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Ado , Random forests. Time Series - Autoregressive moving	ditiv j av	e M era	lode ge,	ls,
UNIT - V Nonlinear Moc Decision trees VAR, GARCH.	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL:	ditiv j av	e M era	lode ge,	ls,
UNIT - V Nonlinear Moc Decision trees VAR, GARCH. OUTCOMES: On successful	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL: completion of the course student will be able to:	ditiv av <b>45</b>	e M era( PE	lode ge, RIOI	ls, DS
UNIT - V Nonlinear Moc Decision trees VAR, GARCH. OUTCOMES: On successful 1. Compr R	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL:	ditiv av <b>45</b>	e M era( PE	lode ge, RIOI	ls, DS
UNIT - V Nonlinear Moo Decision trees VAR, GARCH. OUTCOMES: On successful 1. Compr R 2. Apply	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL: completion of the course student will be able to: ehend the concept of R packages, which extend the how to write their own functions in R, including def	ditiv av <b>45</b>	e M veraç PEF	RIOI	Is, DS y of on
UNIT - V Nonlinear Moc Decision trees VAR, GARCH. OUTCOMES: On successful 1. Compr R 2. Apply argume	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL: completion of the course student will be able to: ehend the concept of R packages, which extend the how to write their own functions in R, including defents, specifying return values, and incorporating	ditiv av <b>45</b>	e M veraç PEF	lode ge, <b>RIOI</b> nalit	Is, DS y of on
UNIT - V Nonlinear Moo Decision trees VAR, GARCH. OUTCOMES: On successful 1. Compr R 2. Apply argume statem	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL: completion of the course student will be able to: ehend the concept of R packages, which extend the how to write their own functions in R, including def ents, specifying return values, and incorporating ents and loops within functions.	ditiv av <b>45</b> fun inin g	e M erag PEF ction g fu	nalit	DS y of on nal
UNIT - V Nonlinear Moo Decision trees VAR, GARCH. OUTCOMES: On successful 1. Compr R 2. Apply arguma statem 3. Apply v	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL: completion of the course student will be able to: ehend the concept of R packages, which extend the how to write their own functions in R, including def ents, specifying return values, and incorporating ents and loops within functions. various techniques to reshape data using functions and p	ditiv av 45 fun inin 3 ack	PEF	RIOI nalit uncti dition	Is, DS on nal R
UNIT - V Nonlinear Moo Decision trees VAR, GARCH. OUTCOMES: On successful 1. Compr R 2. Apply arguma statem 3. Apply v 4. Analyz	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL: completion of the course student will be able to: ehend the concept of R packages, which extend the how to write their own functions in R, including def ents, specifying return values, and incorporating ents and loops within functions. various techniques to reshape data using functions and p e how to perform basic statistical analysis tasks in R	ditiv av 45 fun inin 3 ack	PEF	RIOI nalit uncti dition	Is, DS on nal R
UNIT - V Nonlinear Moc Decision trees VAR, GARCH. OUTCOMES: On successful 1. Compr R 2. Apply arguma statem 3. Apply 4. Analyz tests, a	NON-LINEAR MODELS, TIME SERIES AND CLUST USING R lels - Non-Linear least square, Splines, Generalized Add s, Random forests. Time Series - Autoregressive moving Clustering - K means, PAM and Hierarchical Clustering. TOTAL: completion of the course student will be able to: ehend the concept of R packages, which extend the how to write their own functions in R, including def ents, specifying return values, and incorporating ents and loops within functions. various techniques to reshape data using functions and p	ditiv av 45 fun inin 3 ack	PEF	RIOI nalit uncti dition	Is, DS on nal R

6.	Analyze solid understanding of the foundations of nonlinear models, time-
	series and clustering using R
TEXT	BOOKS:
1.	Jared P. L., R for Everyone - Advanced Analytics and Graphics, Addison
	Wesley Data and Analytics series, 2015.
2.	Sandip Rakshit, R Programming for Beginners, McGraw Hill Education, 2017

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	3	-	-	-	-	-	-
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CO3	3	3	-	-	2	2	-	3
CO4	3	3	-	-	2	3	-	-
CO5	-	2	-	-	-	2	-	-
CO6	3	-	-	-	3	-	-	2

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21MB3366	PYTHON PROGRAMMING	3	0	0	3
OBJECTIVES:	To impart Knowledge on the following topics:				
prograi	ts will acquire a solid understanding of the core conce mming, including variables, data types, control flow str and conditionals), functions, and file I/O operations.				
	ts will gain hands-on experience in writing Python prog a variety of coding exercises and projects	ram	is b <u>i</u>	y	
UNIT - I	INTRODUCTION				9
Programming Program - Fun	<ul> <li>Computer Systems - Computer Hardware - Computer Languages - Algorithmic Problem Solving - Buildidamentals of Python Programming - Syntax and Styles</li> <li>ble - Operators and Expressions.</li> </ul>	ng	Blo	cks	of
UNIT - II	DATA COLLECTIONS AND LANGUAGE COMPON	IEN <sup>.</sup>	Т		9
Loop -Exit Cor - Nested Loop	If, While, For, Break, Continue, Pass Statements - En ntrolled Loop - Counter Controlled Loop - Condition Co is - Sample Programs - Sequences- Lists - Tuples: Ne packing - Methods.	ontro	ollec	l Lo	ор
UNIT - III	FUNCTIONS AND MODULES				9
-Iterators and Functions Pa Required Argu Passing Argur	Naking a Dictionary - Basic Operations - Dictionary Operations - Functions: Introduction - Defining Functions - Reguments - Keyword Arguments - Default uments -Variable -length Arguments - Return Statements -Anonymous Functions - Recursive Function - Statements	tion: Arg nt -	s - ( jum Nes	Calli ent ting	ng s – of
UNIT - IV	OBJECT AND CLASSES				9
ClassMethods Method - Dat	ed Programming Principles: Class Statement - Class Bo - Self Variable - Class Properties and Instance Prop aHiding - Deleting an Object - Constructor - Methoc Packages -Strings and Regular Expressions.	erti	es -	Sta	ntic
UNIT - V	I/O, ERROR HANDLING AND THREADS				9
Operations or Words -Serial and Exception	ctory Access: Files and Streams - Opening a File - Re n a File - Other File Operations - Iterating through Fi ization and De-serialization - Hash files - Directory Ac ns - Multithreading: Introduction to Thread - Differen hread -Threading Module - Thread Synchronization.	les cces ices	- S ss - be	plitti Erro twe	ng ors en
	TOTAL	: 45	PE	RIOI	DS
OUTCOMES:	completion of the course student will be able to:				
	ehend proficiency in using Python syntax and data types				
•	he concept of python control flow and its significance in p		ram		

3.	Analyze how entry-controlled and exit-controlled loops based on their control conditions.
4.	Apply the concept and importance of dictionaries, sets, iterators, generators, and functions in programming.
5.	Analyze objects from classes and understand the relationship between classes and objects.
6.	Apply the concepts of files, streams, and directory access, thread synchronization in programming.
TEXT	BOOKS:
1.	Ch Satyanarayana, M Radhika Mani, B N Jagadesh, "Python Programming", Universities Press (India) Private Ltd 2018.
2.	Kenneth A. Lambert, B.L. Juneja, M. Arunachalam, G. Balakrishnan, "Problem Solving and Python Programming", Cengage Learning India Pvt. Ltd.
3.	Kenneth A. Lambert, Fundamentals of Python: First Programs, CENGAGE Learning, 2012.
REFE	RENCES:
1.	Allen B. Downey, "Think Python: How to Think Like a Computer Scientist", II edition, Updated for Python 3, Shroff / O'Reilly Publishers, 2016
2.	Robert Sedgewick, Kevin Wayne, Robert Dondero, Introduction to Programming in Python: An Inter-disciplinary Approach, Pearson India Education Services Pvt. Ltd., 2016.
3.	Timothy A. Budd, Exploring Python, Mc-Graw Hill Education (India) Private Ltd., 2015.

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	2	-	-	2	3	3	3
CO2	2	3	3	-	-	1	2	-
CO3	-	3	1	-	-	2	3	3
CO4	2	-	-	-	1	3	-	-
CO5	-	3	-	-	-	-	2	-
CO6	1	1	-	-	3	2	3	2

21MB3367 ARTIFICIAL INTELLIGENCE FOR BUSINESS L							
		3	0	0	3		
	To impart Knowledge on the following topics:						
	vide students with a solid foundation in AI concepts, tech lologies.	niqu	les,	anc	I		
	wcase the various ways AI can be applied to solve busir	ness	pro	ble	ns		
	hance decision-making processes.						
	dress the practical challenges associated with implements context.	entir	ng A	Al ir	а		
UNIT - I	INTRODUCTION				9		
	Artificial Intelligence - Artificial Intelligence/Machine L lication of Deep Learning in Business-Reinforcement Le			J/De	ер		
UNIT - II	COMPONENTS OF ARTIFICIAL INTELLIGENC	E			9		
	erational Effectiveness and Strategic Innovation untroduction to Block Chain - Internet of Things - Quantum						
UNIT - III	DEVELOPING ARTIFICIAL INTELLIGENCE MOD	ELS	;		9		
Building an Al	Powered Business - Data Driven Decision Making						
UNIT - IV	APPLICATIONS OF ARTIFICIAL INTELLIGENCE BUSINESS	E IN			9		
	Artificial Intelligence in Marketing, Sales and Customer nat Bots - Call Centre Rep Automation - Workflow Aut ction						
UNIT - V	IMPLEMENTING ARTIFICIAL INTELLIGENCE	=			9		
	blementation - Implementation of Artificial Intelligence Te ta Eco System - Building Expert Teams - Algorithm - D						
,	TOTAL	: 45	PE	rio	DS		
OUTCOMES:							
	completion of the course student will be able to:						
•	ehend and explain the concept of Artificial Intelligence	-					
such a detecti		an	oma		',		
	te the potential applications and benefits of quar ting in solving complex problems	ntum	ו				
	e the importance of data as a valuable asset for busines	s de	ecisi	ion			
5. Apply	, the fundamentals of AI and its applications in marketing stomer service contexts.	j, sa	ales,	1			

6.	Analyze with the knowledge, skills, and practical understanding necessary to successfully implement AI technology from conceptualization todeployment.
REFE	RENCES:
1.	Adelyn Zhou, Marlene Jia, Mariya Yao, "Applied Artificial Intelligence: A Handbook for Business Leaders", Topbots, 2018.
2.	Ajay Agrawal, Joshua Gans, Avi Goldfarb, LJ Ganser, "Prediction Machines: The Simple Economics of Artificial Intelligence", Audible Studios, 2018.
3.	Doug Rose, (2018), "Artificial Intelligence for Business: What You Need to Know about Machine Learning and Neural Networks", Chicago Lakeshore Press, 1st Edition, 2018.
4.	Katie King, "Using Artificial Intelligence in Marketing: How to Harness AI and Maintain the Competitive Edge", Kogan Page, 1st Edition, 2019.
5.	Prabhat Kumar, "Artificial Intelligence: Reshaping Life and Business", BPB Publications, 1st Edition, 2019.

PO CO	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	3	1	-	-	2	-	3	-
CO2	3	3	2	-	-	-	I	-
CO3	-	2	1	-	-	2	3	2
CO4	-	-	-	-	1	I	-	-
CO5	-	3	-	-	-	-	2	-
CO6	1	1	-	-	2	2	1	1

	3368	MACHINE LEARNING FOR BUSINESS								
			•	0	0	3				
ORIE		To impart Knowledge on the following topics:								
•	algorith	ts should develop a solid understanding of the basic comms, and techniques of machine learning,		•						
•	logistic algorith	apply various machine learning algorithms, such as line regression, decision trees, support vector machine ims, and neural networks, to solve business problems ar predictions.	es,	clu	ster	ing				
UNIT -	·	INTRODUCTION				9				
Applic	ations	Machine Learning - Artificial Intelligence - Deep Learni of Machine Learning, Artificial Intelligence, Deep ty Reduction Techniques - Factor Analysis								
UNIT -	II	SUPERVISED MACHINE LEARNING TECHNIQU	JES			9				
Import Standa	ance. Li ardised	Iysis – Full/fractional factorial design, choice can near Discriminant Analysis - Fisher's method, Mahalar coefficients, Unstandardised coefficients, Structured Bayes theorem, conditional probability, building naïve ba	nobi co	s m peffi	eth cier	od, its.				
UNIT -	· III	ADVANCED SUPERVISED MACHINE LEARNIN TECHNIQUES	١G			9				
param Ensem	eters. S nble Me nt boos	est – Out of bag error rate, variable importance, SVM – hyper planes and support vectors, SVM mo thods – bagging, boosting, adaboost, gradient boos sting, bias variance trade-off, Synthetic minority o	ode ting	l bi , ex	ildii ktrei	ng. me				
UNIT -	١V	ARTIFICIAL NEURAL NETWORKS				9				
						3				
Functi	ion – H	ks - Neural network model building - Perceptron - Bia idden layers – Forward Propagation – Backward P Convolutional Neural Network and Reinforcement Learn	rop			on				
Functi	on – H uction to	ks - Neural network model building - Perceptron - Bia idden layers – Forward Propagation – Backward P	rop			on				
Functi Introdu UNIT - Visual Data - Smoot model,	ion – H uction to V izing tim Differe thing, D multipl	ks - Neural network model building - Perceptron - Bia idden layers – Forward Propagation – Backward P Convolutional Neural Network and Reinforcement Learn <u>TIME SERIES ANALYSIS</u> he series data - Components of Time Series Data - Stat ncing the Time Series – Time Series Models - Simple ouble Exponential Smoothing, Holt's Model, Holt Winte icative model - Auto-Regressive Integrated Moving Av dual Analysis - Auto ARIMA Model.	ing iona e Ex ers vera	arity arity xpoi – a ige	of t of t nen ddit Moo	on n – 9 tial tial del				
Functi Introdu UNIT - Visual Data - Smoot model, Buildin	ion – H uction to V izing tim Differe thing, D multipl ng - Resi	ks - Neural network model building - Perceptron - Bia idden layers – Forward Propagation – Backward P Convolutional Neural Network and Reinforcement Learn <u>TIME SERIES ANALYSIS</u> is series data - Components of Time Series Data - Stat ncing the Time Series – Time Series Models - Simple ouble Exponential Smoothing, Holt's Model, Holt Winte icative model - Auto-Regressive Integrated Moving Av	ing iona e Ex ers vera	arity arity xpoi – a ige	of t of t nen ddit Moo	on n – 9 tial tial del				
Functi Introdu UNIT - Visual Data - Smoot model, Buildin	ion – H uction to V izing tim Differe thing, Do multipl og - Resi OMES:	ks - Neural network model building - Perceptron - Bia idden layers – Forward Propagation – Backward P Convolutional Neural Network and Reinforcement Learn <u>TIME SERIES ANALYSIS</u> ne series data - Components of Time Series Data - Stat ncing the Time Series – Time Series Models - Simple puble Exponential Smoothing, Holt's Model, Holt Winte icative model - Auto-Regressive Integrated Moving Av dual Analysis - Auto ARIMA Model. <u>TOTAL:</u>	ing iona e Ex ers vera	arity arity xpoi – a ige	of t of t nen ddit Moo	on n – 9 tial tial del				
Functi Introdu UNIT - Visual Data - Smoot model, Buildin	on – H uction to V izing tim Differe thing, D multipl og - Resi OMES: ccessful Compr	ks - Neural network model building - Perceptron - Bia idden layers – Forward Propagation – Backward P Convolutional Neural Network and Reinforcement Learn <u>TIME SERIES ANALYSIS</u> he series data - Components of Time Series Data - Stat ncing the Time Series – Time Series Models - Simple ouble Exponential Smoothing, Holt's Model, Holt Winte icative model - Auto-Regressive Integrated Moving Av dual Analysis - Auto ARIMA Model.	Prop ing iona e Ex ers vera	arity xpoi – a ige PEI	of t nen ddit Moo	on n – 9 tial tial del				

3.	Apply the idea of hyper planes and support vectors and their role in SVM model building.						
4.	Apply different boosting algorithms, such as Ada Boost and Gradient Boosting.						
5.	Analyze the concept of artificial neural network and apply it predictive modelling						
6.	Apply trend and seasonality components and build predictive models for time series forecasting						
REFERENCES:							
1.	Daniel T. Larose and Chantal D, Larose, "Data Mining and Predictive Analytics", Wiley, 2nd Edition, 2018.						
2.	Dean Abbot, "Applied Predictive Analytics- Principles and techniques for the professional data analyst", Wiley, 2018.						
3.	Efraim Turban, Ramesh Sharda, DusunDelen, "Business Intelligence and Analytics- Systems for Decision support", Pearson, 10th Edition, 2018.						
4.	Gordon S.Linoff, MichealJ.A.Berry, "Data Mining Techniques", Wiley, 3rd Edition, 2017.						
5.	MehmedKantardzic, "Data Mining- Concepts, Models, Methods and						
	Algorithms", Wiley, 2nd Edition, 2018						

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8
CO1	2	2	-	-	2	3	1	2
CO2	-	2	-	-	-	1	2	-
CO3	-	-	1	-	-	-	-	1
CO4	2	-	-	-	1	3	-	-
CO5	-	3	-	-	-	-	2	-
CO6	3	2	-	-	2	2	-	2