

MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

SEMESTER – I

S.	Course	Course Name	Category	Hour	s per	week	Credi
No.	codes			L	Т	Р	ts
1	21E00101	Management & Organizational Behaviour	CC	4	0	0	4
2	21E00102	Business Environment & Law	CC	4	0	0	4
3	21E00103	Managerial Economics	CC	4	0	0	4
4	21E00104	Financial Accounting for Managers	CC	4	0	0	4
5	21E00105	Statistics for Managers	CC	4	0	0	4
6	21E00106	Management Information Systems	CC	4	0	0	4
7	21E00107	Business Communication Practice	LC	0	1	2	2
8	21E00108	Information Technology Lab	LC	0	1	2	2
		TOTAL		24	2	4	28

SEMESTER – II

S.No.	Course	Course Name	Category	Ho	urs	per	Credits
	codes			L	Т	P	
1.	21E04201	Econometrics for Business Forecasting	CC	4	0	0	4
2.	21E00205	Operations Research	CC	4	0	0	4
3.	21E04203	Business Analytics and Data Science	CC	4	0	0	4
4.	21E00204	Business Research Methods	CC	4	0	0	4
5.	21E04204	Data Warehousing and Data Mining	CC	4	0	0	4
6.	21E03202	R- Programming	CC	4	0	0	4
	21E00207a 21E00207b 21E00207c	General Elective – I Advanced Communication E-Business Industry 4.0 & Innovation	GE	2	0	0	2
8.	21E00208	Data Analytics Lab	LC	0	1	2	2
		TOTAL		24	1	2	28



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS) SEMESTER - III

S.N	Course	Course Name	Category	Hour	s per we	eek	Credits
0.	codes			L	Т	Р	
1	21E00301	Strategic Management	CC	4	0	0	4
2	21E04301	Data Visualization	CC	4	0	0	4
3	21E04302	Predictive Analytics	SC	4	0	0	4
4	21E04303	Marketing Analytics	SC	4	0	0	4
5	21E04304	Financial Analytics	SC	4	0	0	4
6	21E04305	Human Capital Analytics	SC	4	0	0	4
7	21E00307b	General Elective – II (MOOCS) Entrepreneurship Development Project Management Business Ethics & Corporate Governance	GE	2	0	0	2
8	21E00308	Business Simulation Lab	LC	0	0	2	1
9	21E04309	Experiential Learning Project	PR	0	0	2	1
		TOTAL		24	0	4	28

SEMESTER - IV

S.No.	Course	Course Name	Category	Hours]	per w	eek	Credits
	codes			L	Т	Р	
1.	21E04401	* Big Data Analytics	SC	4	0	0	4
2.	21E04402	* Supply Chain Analytics	SC	4	0	0	4
3.	21E04403	Project Work	PR	0	0	20	10
		TOTAL		8	0	20	18

*Students going for Industrial Project can complete these courses through MOOCs during the period of III and IV semester.



Course Code MANAGEMENT & ORGANIZATIONAL BEHAVIOUR L T P 21E00101 4 0 0 Semester Course Objectives: • To impart basic conceptual knowledge on Management theories and Practices	<u>C</u>
Semester I Course Objectives: • • To impart basic conceptual knowledge on Management theories and Practices	4
To impart basic conceptual knowledge on Management theories and Practices	
To impart basic conceptual knowledge on Management theories and Practices	
• To achieve higher productivity and accomplishing the goals of the organization.	
Course Outcomes (CO): Student will be able to	
Understand concepts, theories and practices	
• Apply theoretical knowledge in managing the organization and Know the behaviour	
employees at individual, group and organisational levels at work place under differ	ent
leadership styles.	
UNIT - I Lecture Hrs: 8	
Role of Management - Concept - Significance - Functions - Principles of Management - Patterns	s of
Management: Scientific – Behavioural – Systems – Contingency.	
UNIT - II Lecture Hrs: 1	
Decision Making & Controlling – Process – Techniques. Planning – Process – Problems – Makin	
Effective Controlling - System of Controlling – Controlling Techniques – Making Control	
Effective.	ing
UNIT - III Lecture Hrs:12)
Individual Behaviour & Motivation –Understanding Individual Behaviour – Perception – Learnin	
Personality Types – Johari window- Transactional Analysis- Motivation- Concept of Motivation	
Motivational Theories of Maslow, Herzberg, David McClelland, and Porter and Lawler	
UNIT - IV Lecture Hrs:12	
Group Behavior& Leadership: Benefits of Groups - Types of Groups - Group Formation	
Development. Leadership and Organizational Culture and Climate: Leadership – Traits Theor	
Managerial Grid – Transactional Vs Transformational Leadership – Qualities of good leader- Wor	nen
Leadership in India. UNIT - V Lecture Hrs:12	,
Organisational Behaviour–Organizing Process – Departmentation Types – Making Organiz	
Effective –Organisational culture- Types of culture – Organisational Culture Vs Organisational clin	
- Conflict management -Change Management.	
Textbooks:	
1. Principles of Management, Koonz, Weihrich and Aryasri, Tata McGraw Hill.	
2. Organizational Behaviour: Design, Structure and Culture, Gupta, Willey	
3. Management and Organisational Behaviour, Subbarao P, Himalaya Publishing House	
Reference Books:	
1. Organisational Behaviour ,S.S.Khanka, S.Chand	
 Organisational Behaviour, Stephen P. Robbins, Pearson Education Organisational Behaviour, Mishra .M.N, Vikas 	
 Organisational Behaviour, Mishra .M.N, Vikas Management and Organisational behaviour, Pierce Gordner, Cengage. 	
 Management and Organisational behaviour, Pierce Gordner, Cengage. Behaviour in Organizations, Hiriyappa .B.New Age Publications 	
 Organisational Behaviour, Sarma, Jaico Publications. 	
7. Principles of Management ,Murugesan ,Laxmi Publications	
Online Learning Resources:	



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https://onlinecourses.nptel.ac.in/noc20_mg51/preview https://onlinecourses.swayam2.ac.in/cec20_mg03/preview https://onlinecourses.nptel.ac.in/noc20_mg58/preview https://onlinecourses.nptel.ac.in/noc21_mg30/preview



Course Code		L	Т	P	С
21E00102	BUSINESS ENVIRONMENT & LAW	4	0	0	4
	Semester			Ι	
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Course Objectiv			1.1		
	uce business environment and various business environment factor	rs an	d law	'S	
	b business that have major repercussions on business enlighten. n and update the changes that occur constantly in the sphere of bus	aina	a oni	vironr	nont
and laws		smes	s env	nom	nem
	s (CO): Student will be able to				
	he knowledge on business policies and environment factors to car	rvou	t a b	usines	ss.
-	nd the various laws relating to business activities				
	and plan business effectively and efficiently in the light of infor	rmat	ion o	n var	ious
	policies and laws.	innut		ii vui	1045
UNIT - I		Leo	ture	Hrs:	2
	Business Environment:-Meaning, Components of Business Envi				
	iberalization, Privatization and Globalization.				
UNIT - II		Lee	cture	Hrs:	12
	and Trade Policy: Monetary& Fiscal Policy -, EXIM Policy, Ro				
	ents: WTO: Role and functions of WTO in promoting world trac	le −7	RIP	S, TR	IMS
	nping and Anti-dumping measures.				
UNIT - III				Hrs:1	
	Need, classification and sources of Business Law, Law of Contr				
	ct and essential elements of a valid Contract, Offer and Acceptanc			Con	tract
<u>UNIT - IV</u>	Consideration, Capacity to Contract and free consent, Legality of th			Hrs:1	2
	1956 (Part-I): Kinds of Companies, Formulation of Compan	-			
	nents. Company Act, 1956 (Part-II): Company Management, D				
	ions, Auditors, Modes of Winding-up of a company.				
UNIT - V				Hrs:1	
	mology Act, 2000: Scope and Application of ITAct, 2000- D				
	lties and adjudication, cyber regulations appellate, tribunals, dut	ties (of su	bscril	pers-
Right to Informat	ion Act,2005 –GST Act 2017.				
Textbooks:					
	s of Business Environment, K.Aswathappa, Himalaya publishers.				
	c Environment of Business, 7th Edition, Ahuja H.L. S.chand				
3. Mechanti Reference Books	le Law- Garg, Sareen, Sharma, Chawla, Kalyani publishers.				
	• onomy, Dutt and Sundaram, S. Chand, New Delhi.				
	Environment – Text and Cases, Justin Paul, TMH.				
	onomy- Misra and Puri, Himalaya.				
	bects of Business, Ravinder Kumar, Cengage.				
	l of Business Laws, S.N.Maheshwari& Maheshwari, Himalaya.				
	law for management, K.R.Bulchandani-Himalaya Publishing.				
	law, R.S.N Pillai, Bhagavathi, S.Chand				
Online Learning					



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https://onlinecourses.swayam2.ac.in/imb22_mg02/preview https://onlinecourses.nptel.ac.in/noc20_lw02/preview https://onlinecourses.swayam2.ac.in/cec21_mg02/preview



Course Code	MANAGERIAL ECONOMICS	L	T	P	<u>C</u>
21E00103		4	0	0	4
	Semester			I	
Caura Obiastinas					
Course Objectives:	aision making abilla at all lavala of management				
	cision making skills at all levels of management	1. f.			ار مر م
	nagerial theories, behavioural theories and optimization method	1S 10	r ene	ecuve	and
	ctioning of firms. Succept of demand, techniques to forecast demand and production	n on	مايرون	0	
considering t	· · · ·	n an	arysis	8	
	e market structures and price strategies applicable under differe	ant 1	husin	000	
	various products.		Jusin	035	
	CO): Student will be able to				
	he relationship of Managerial economics with other functional	area	c		
	hniques and methods to predict the demand scientifically.	arca	5.		
		C. (
*	oduction levels and analyse the relationship of Cost-Volume Pro				
	ed decisions on price fixation under different market structure	es of	f the	econ	omy
under differe	nt scenario.				
UNIT - I		Lee	cture	Hrs:	8
Introduction to Mana	gerial Economics: Definition, Nature and Scope, Relationship	with	n othe	er area	as in
	on Management, Marketing, Finance and Personnel, Operatio				
role of managerial ec	onomist. Objectives of the firm: Managerial theories of firm, Be	ehav	vioura	al the	ories
of firm, optimization	techniques New mone compart to als of entimization				
	techniques, New management tools of optimization.				
UNIT - II				Hrs:	
UNIT - II Theory of Demand: I	Demand Analysis – Law of Demand - Elasticity of demand, type	es ai	nd sig	gnific	ance
UNIT - II Theory of Demand: I of Elasticity of Dema	Demand Analysis – Law of Demand - Elasticity of demand, type and. Demand estimation – Marketing research approaches to d	es ai	nd sig	gnific	ance
UNIT - II Theory of Demand: I of Elasticity of Dema Need for Demand for	Demand Analysis – Law of Demand - Elasticity of demand, type	es ai	nd sig	gnific	ance
UNIT - IITheory of Demand: Iof Elasticity of DemaNeed for Demand forUNIT - III	Demand Analysis – Law of Demand - Elasticity of demand, type and. Demand estimation – Marketing research approaches to d recasting, forecasting techniques.	es ai lema	nd sig ind e	gnific stima Hrs:1	ance tion.
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UNIT - IITheory of Demand: Iof Elasticity of DemaNeed for Demand forUNIT - IIIProduction Analysis:variables, Cobb-Dougscale- Cost conceptsBreak Even AnalysisUNIT - IVMarket Structure andOutput determinationPricing philosophy –strategies: skimming	Demand Analysis – Law of Demand - Elasticity of demand, type and. Demand estimation – Marketing research approaches to d recasting, forecasting techniques. Production function, Isoquants and Isocosts, Production func- glas Production Function, Returns to Scale and Returns to Fact - cost-output relationship in the short run and long run, Ave Pricing practices: Features and Types of different competitive in in Perfect competition, Monopoly, Monopolistic competition	es an lema Lection tors, erage e situ on a ne p ltipl	nd sig nd e cture with Econ e cost cture nation ation oricin e pro	gnific stima Hrs:1 n one nomic t curv <u>Hrs:1</u> ns - P Digop g. Pri ducts	ance tion. 2 /two es of ves - 12 rice- poly. icing
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MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

- 5. Managerial Economics-Dr.H.L Ahuja-S.Chand and Com pvt ltd, NewDelhi
- 6. Managerial Economics by Dominick Salvatore, Ravikesh Srivastava- Oxford University press. Managerial Economics by Hirschey- Cengage Learning

Online Learning Resources:

https://onlinecourses.nptel.ac.in/noc21_mg90/preview https://onlinecourses.nptel.ac.in/noc20_mg67/preview



Course Code	FINANCIAL ACCOUNTING FOR MANAGERS	L	T	P	C
21E00104		4	0	0 I	4
	Semester			1	
Course Objectiv	A S •				
v	luce accounting, accounting rules, accounting process and prepara	tion	of fi	nancia	al
statement			01 11	inune n	~1
	n methods of valuation of assets,				
	the meaning and interpretation of financial statements through	ratio	anal	ysis	
technique				-	
	s (CO): Student will be able to				
Prepare t	ne financial statements with accounting knowledge				
Value the	assets of the business organizations under different methods				
Analyse	the financial performance and position of the business organization	on ar	nd in	terpre	t the
results fro	om the point of company and investor				
UNIT - I		Leo	cture	Hrs:	8
	ccounting: Definition, Importance, Objectives and principles of a	acco	untin	g, us	es of
accounting and b	ook keeping Vs Accounting, Single entry and Double entry system	ns, c	lassit	ficatio	on of
	f debit & credit. (Only theory)				
UNIT - II				Hrs:	
	Process: Overview, Books of Original Record; Journal and Subsic				
	inal accounts: Trading accounts- Profit & loss accounts- Ba	alanc	e sh	leets	with
	blems on Only Final Accounts)	1			
UNIT - III				Hrs:1	
	sets: Introduction to Depreciation- Methods (Simple problems			•	
	hing balance method and Annuity method). Inventory Valuat	10n:	Μ	ethod	s of
UNIT - IV	on (Simple problems from LIFO, FIFO).	Ta		Hrs:1	1
	s -I Analysis and interpretation of financial statements from inv				
	quidity, leverage, solvency and profitability ratios – Du Pont Char				
Ratio Analysis).	fundity, leverage, solveney and promubility ratios — Du Font Char	t (11	Cus	e stud	iy on
UNIT - V		Leo	cture	Hrs:1	2
Financial Analysi	s-II: Objectives of fund flow statement - Steps in preparation of fu	ind f	low	stater	nent,
•	sh flow statement- Steps in Preparation of Cash flow statement -				
	ow statements - Funds flow statement Vs Cash flow statement. (O				
Textbooks:					
	Accounting, Dr.S.N. Maheshwari and Dr.S.K. Maheshwari,	Vika	as l	Publis	hing
House Pv	-				C
2. Accounta	ncy .M P Gupta & Agarwal ,S.Chand				
Reference Books	:				
1. Financial	Accounting ,P.C.Tulisan ,S.Chand				
	Accounting for Business Managers, Asish K. Bhattacharyya, PHI				
	Accounting Management An Analytical Perspective, Ambris	sh C	lupta	, Pea	arson
Education		-			
	ng and Financial Management, Thukaram Rao, New Age Internation	onals	5.		
	Accounting Reporting & Analysis, Stice&Stice, Thomson				
6. Accounti					
7 .	ng for Management, Vijaya Kumar, TMH				
		hond	1		



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

Online Learning Resources:

https://onlinecourses.swayam2.ac.in/cec20_mg02/preview https://onlinecourses.swayam2.ac.in/imb19_mg06/preview https://onlinecourses.nptel.ac.in/noc19_mg37/preview https://www.coursera.org/learn/wharton-accounting



Course Code	STATISTICS FOR MANAGERS		<u>T</u>	P	<u>C</u>
21E00105		4	0	0	4
	Semester			Ι	
Course Objective					
	n descriptive statistics and inferential statistics	1		.1 1	
	uce various measurements used to describe the data and inter the	resul	ts of	the d	ata
analysis.		1	1		
	ribe the concept of probability, theorems, and types of probability of	listri	butic	ons of	
data.	t the commutational analytical and intermediation abills using the de	4.0			
	t the computational, analytical and interpretation skills using the dates (CO): Student will be able to	lla			
	nd statistical techniques popularly used to describe the data in n	2000	aorio	l dooi	inin
	in statistical techniques popularly used to describe the data in n	lanaş	geria		18101
making.				_	
	e procedure involved in inferential statistics and appropriate tests for	or gi	ven c	lata.	
• Learn the	computational skill, interpretation of results of the data analysis.				
• Analyse a	and differentiate various types of data distribution and its probabilit	ty dis	stribu	tion.	
UNIT - I		Leo	cture	Hrs:	12
	tatistics - Nature & Significance of Statistics to Business, , M				
Tendency: Mean	- Median - Mode ; Measures of Dispersion: range, quartil	e de	viati	on, r	near
deviation, standar	d deviation, coefficient of variation.				
UNIT - II		Leo	ture	Hrs:	12
			luio		
Correlation & R	egression : Introduction, Significance and types of correlation	on –		asure	s o
	Regression : Introduction, Significance and types of correlation- efficient of correlation. Regression analysis – Meaning and up		Me		
correlation - Co-	-efficient of correlation. Regression analysis - Meaning and u	tility	Me of 1	regres	ssio
correlation - Co-		tility	Me of 1	regres	ssio
correlation – Co analysis – Compa	-efficient of correlation. Regression analysis - Meaning and u	tility n coe	Me of 1 effici	regres	ssion Ranl
correlation – Co- analysis – Compa Correlation. UNIT - III	-efficient of correlation. Regression analysis - Meaning and u	tility n coe Lec	Me of 1 efficient	regres ents-F Hrs:1	ssion Ranl
correlation – Co- analysis – Compa Correlation. UNIT - III Probability – M	-efficient of correlation. Regression analysis – Meaning and warison between correlation and regression – Properties of regression	tility n coe Lec ability	Me of t efficience cture y in	regres ents-F <u>Hrs:1</u> busi	ssion Ranl 12 ines:
correlation – Co- analysis – Compa Correlation. UNIT - III Probability – M application – The	-efficient of correlation. Regression analysis – Meaning and warison between correlation and regression – Properties of regression eaning and definition of probability – Significance of probability	tility n coe Lec ability	Me of t efficience cture y in	regres ents-F <u>Hrs:1</u> busi	ssion Ranl 12 ines
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MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

https://onlinecourses.swayam2.ac.in/cec20_mg13/preview https://onlinecourses.nptel.ac.in/noc20_mg23/preview https://iimbx.iimb.ac.in/statistics-for-business-i/



31E00107	MANAGEMENT INFORMATION SYSTEMS	L	T	P	C
21E00106		4	0	0	4
	Semester			I	
Course Objectiv					
	es. le the basic concepts of data and Management Information System	1 9n(1 11111	ty of	the
	the managerial decisions.	I and	ı utili	ity Of	uic
	in Management of Information system, MIS design and implement	tatio	n pro	cess	in
an organi		uuio	n pro	0000	
	s security, ethical and social issues in management of Information	n svs	stem.		
	s (CO): Student will be able to	2			
Know M	anagement of Information system scope, application and challe	enges	s in 1	mana	ging
MIS.		-			
• Understa	nd traditional and modern approaches for data resource managemer	nt an	d mo	dels.	
	product based and process based cost and benefit to implement an				S in
an organi					
UNIT - I		Ιø	oturo	Hrs:	8
	v- Introduction, Need for MIS and IT nature and scope of MIS, N				
	role of MIS in global business. Challenges of Managing MIS.	115	ciiaia		ues,
UNIT - II	Tote of Wilds in grobal business. Chancing is of Managing Wilds.	Leo	ture	Hrs:	12
	nagement- Data base concepts, The traditional approaches, the r				
	ement approaches) DBMS, Data models, Data ware housing and m				
UNIT - III				Hrs:1	2
Business applicat	ion of IS- Enterprise systems, ERP, CRM, SCM, DSS, Types of c	lecis	ions,	Deci	sion
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management syst	ems.				
UNIT - IV				Hrs:1	
•	IS- Project planning, SDLC, System development models, Pro	•		0	
	system design, Implementation process, Product based MIS evalua	tion	, Cos	t /Bei	nefit
based evaluation,	Process based calculation, System maintenance				
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UNIT - V	-			Hrs:1	
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UNIT - V Security, Ethical disaster recovery	-				
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21E00107 BUSINESS COMMUNICATION PRACTICE 0 1 2 2 Semester I Course Objectives: • To explain communication concepts • To develop the students' competence in communication at an advanced level. • To develop the students' competence in communication at an advanced level. • To demonstrate communication skills viz., listening, speaking, reading and writing with teaching aids. Course Outcomes (CO): Student will be able to • Understand the communication concepts and • Improve communication and competence skills • Obtain and apply proficiency in business communication at the workplace and professional contexts. UNIT •1 Lecture Hrs: 8 Concept of Communication – Significance, Scope – Communication Process – Essentials of good communication – Upward, Downward, Horizontal Communication. Informal Communication of Oral Communication. UNIT •1I Lecture Hrs: 10 Types of communication: Verbal – Oral Communication: Advantages and Limitations Non verbal Communication. Written Communication Styles, Managing Motivation to Influence Interpersonal Communication: Communication Styles, Managing Motivation to Influence Interpersonal Communication: Types of barriers – Technological – Socio-Psychological barriers – Overcoming barriers, Types of listening. U	Course Code	SKILL ORIENTED COURSE	L	Т	Р	С	
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UNIT - III Lecture Hrs:8 Interpersonal Communication: Communication Styles, Managing Motivation to Influence Interpersonal Communication – Role of emotion in Inter personal Communication – Leadership styles. UNIT - IV Lecture Hrs:8 Barriers of Communication: Types of barriers – Technological – Socio-Psychological barriers – Overcoming barriers, Types of listening. Lecture Hrs:8 UNIT - V Lecture Hrs:8 Report writing – Formal reports – Writing effective letters – Different types of business letters - Interview techniques – Communication etiquettes. Lecture Hrs:8 1. Business Communication: A Practical Approach, Naik, Willey Business Communication, C.S.Rayudu, HPH. Business Communication, Meenakshi Raman, Oxford University Press. Reference Books: I. Business communication, Shalini Varma, Vikas. Business Communication, Raymond V.Lesikar, Neeraja Pandit et al., TMH 3. Business communication, Hudson, Jaico Publications Business Review No.1214. Effective Communication, Harward Business School, Harward Business Review No.1214. 6. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources:	Communication: Si	gn language – Body language – Kinesics – Proxemics – Hepatics	: Ch	ronin	nics.		
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Barriers of Communication: Types of barriers – Technological – Socio-Psychological barriers – Overcoming barriers, Types of listening. Image: Communication display="barriers"/>	Interpersonal Comm	nunication - Role of emotion in Inter personal Communication -	Lea	dersh	ip sty	'les.	
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Interview techniques – Communication etiquettes. Textbooks: 1. Business Communication: A Practical Approach, Naik, Willey 2. Business Communication, C.S.Rayudu, HPH. 3. Business Communication, Meenakshi Raman, Oxford University Press. Reference Books: 1. Business communication, Shalini Varma, Vikas. 2. Business communication, Raymond V.Lesikar, Neeraja Pandit et al.,TMH 3. Business Communications, Hudson, Jaico Publications 4. Business communication for managers, Penrose, Raspbery, Myers, Cengage 5. Effective Communication, Harward Business School, Harward Business Review No.1214. 6. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources:							
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 Business Communication, C.S.Rayudu, HPH. Business Communication, Meenakshi Raman, Oxford University Press. Reference Books: Business communication, Shalini Varma, Vikas. Business Communication, Raymond V.Lesikar, Neeraja Pandit et al., TMH Business Communications, Hudson, Jaico Publications Business communication for managers, Penrose, Raspbery, Myers, Cengage Effective Communication, Harward Business School, Harward Business Review No.1214. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources: 							
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Reference Books: 1. Business communication, Shalini Varma, Vikas. 2. Business Communication, Raymond V.Lesikar, Neeraja Pandit et al.,TMH 3. Business Communications, Hudson, Jaico Publications 4. Business communication for managers, Penrose, Raspbery, Myers, Cengage 5. Effective Communication, Harward Business School, Harward Business Review No.1214. 6. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources:							
 Business communication, Shalini Varma, Vikas. Business Communication, Raymond V.Lesikar, Neeraja Pandit et al.,TMH Business Communications, Hudson, Jaico Publications Business communication for managers, Penrose, Raspbery, Myers, Cengage Effective Communication, Harward Business School, Harward Business Review No.1214. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources: 		ommunication, Meenaksni Raman, Oxford University Press.					
 Business Communication, Raymond V.Lesikar, Neeraja Pandit et al., TMH Business Communications, Hudson, Jaico Publications Business communication for managers, Penrose, Raspbery, Myers, Cengage Effective Communication, Harward Business School, Harward Business Review No.1214. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources: 		mmunication Shalini Varma Vikas					
 Business Communications, Hudson, Jaico Publications Business communication for managers, Penrose, Raspbery, Myers, Cengage Effective Communication, Harward Business School, Harward Business Review No.1214. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources: 							
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 Effective Communication, Harward Business School, Harward Business Review No.1214. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources: 							
6. Essentials of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand Online Learning Resources:				No 1	214		
Online Learning Resources:				1,0,1			
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https://online-degree.swayam.gov.in/dyp20_d02_s1_hs01/preview							



Course Code	INFORMATION TECHNOLOGY LAB	L	Т	Р	С
21E00108		0	1	2	2
	Semester			I	
Course Objecti					
	ide knowledge on applications of information technology and				
	onstrate the MS Office applications with hands on experience in				
	ain and exhibit statistical functions of association, testing hypo	othesi	is for	the da	ata
	alyse and interpret the outcome of the data.				
Course Outcon	and edit the documents with effective presentation to superiors.				
	and edit the documents with effective presentation to superiors, nands of experience in designing and editing the templates and d		n the i	evcel	
	with formulae and functions.	ata 11		CAUCI	
	and interpret the business data outcome statistically in an effecti	ve at	nd eff	icient	
manner		ve ui	10 011	letent	
List of Experin					
Unit -1					
Introduction to	Hardware Component: (need to explain using images or vi	deos) Vari	ious I	npu
output devices a	and their usage in corporate world- Memories (RAM/ROM) and	d its	types	– Vai	riou
• • •	es- Storage devices Internal vs External				
Unit 2					
	Operating System (need to explain using videos) – over				
	Ubuntu – Linux- various versions of Android- IoS – Capt	uring	g GPS	s ena	ble
	or filesharing to Mobile to Mobile- System to Mobile				
Unit – 3	Over views of verious Dikhons, rests gradial formatting uses	a of	Font	Torrt	hor
	Over views of various Ribbons- paste special- formatting- usag spacing – bullets- – page layouts-styles- header and footers –				
	view-split -views- keyboard shortcut keys	wate	1 111a1 N	-mar	gills
Unit -4	view-spint-views- keyboard shortedt keys				
	IMail Merge- Macros- Designing a company letter pad- Time ta	ble -	– lette	er wri	ting
	ver point -preparation of company presentation –				0
Unit – 5					
MS Power Poi	nt-Creation of slides-Use of templates and slide designs for cr	eatin	g po	wer p	ooin
slides- use of d	lrawings and graphics. Developing a Professional presentation	on]	Busin	ess P	lans
	ducts. Power point shortcut keys				
References:					
	all- 2007 Microsoft Office System Step-by- Step, First Edition, Pl				
	Vhigam-Business Data Analysis Using Excel, First Edition, Oxfor	rd Ur	nivers	ity	
Press.					
	con, TMH, 2008, Enterprise resource planning.				
• The Oxt	ford Hand Book of Internet studies, William.H.Dulton, Oxford.				
Onlina laamina	recourses/Virtual labor				
	resources/Virtual labs: ursera.org/specializations/excel				
	irsera.org/specializations/excer				
	Insera.org/learn/excel-basics-data-analysis-ibm				
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Course CodeECONOMETRICS FOR BUSINESS FORECASTING21E04201	L 4	Т 0	P 0	C 4
Semester	-	-	II	-
Course Objectives:				
To explain econometrics and application areas of econometrics in real wor	ld			
• To give knowledge on predicting techniques appropriate for the business	lata.			
• To demonstrate the procedure of hypothesis testing using regression with	eal d	ata.		
• To discuss types of regression models and functional forms applicable for	the d	ata.		
• To impart knowledge on time series and index numbers.				
Course Outcomes (CO): Student will be able to				
Understand concept of econometrics and need and application in real work				
 Learn different predicting techniques and functional forms applicable to the 	e giv	en da	ta.	
 Gain knowledge on testing hypothesis procedure and interpretation. 				
 Know different types of regression models applicable for different types or 				
 Construct and compute the different index values and issues involved in compute the different index values. 	onstru	ction	of a	nd
using of index numbers.				
UNIT - I			Hrs:1	2
Introduction: Introduction – meaning ,scope and importance of Econometrics –Me				
econometrics - Application areas of Econometrics; Specification: Meaning - Spec	ificat	ion B	ias -	
Population Regression, Sample Regression, Error Term.				
UNIT - II			Hrs:	
Simple Linear Regression Model: Simple Linear Regression Model (SLRM) -A	ssum	ption	s of S	S LR
model - Point estimation - Ordinary Least Squares Estimation: Point Estimation Population parameters; Goodness of Fit – Coefficient of Determination (R^2) – procedure - Testing the individual Regression Parameters – Testing the significant	Hyp	othes	sis te	sting
only). UNIT - III	Leo	ture	Hrs:1	2
Multiple Linear Regression Model: Multiple Regression Models – Assumptions				
Violation of Assumptions (In brief only) - Model with two independent variables variables – Interpretation of MLR equations- Goodness of Fit – Coefficient of I Adjusted Coefficient of Determination; Hypothesis testing in MLR model (Proble	and Deteri	K-Ino ninat	depen	dent
UNIT - IV	1		Hrs:1	2
Special Topics in Econometrics : Introduction to Dummy Variables – Qualitative models:- Logit – Features of Logit model – Estimation of logit for Individual Compare and contrast logit and probit models - Application areas of logit and prob	lata; oit me	Probi	t mo	del -
UNIT - V			Hrs:0	
Business Forecasting: Introduction to Time series –Components of Time serie				
Introduction – types of index number - Unweighted and Weighted Index; A				tives
Methods; Quantity and Value Indices; Issues in Constructing and Using Index Nur			o the	
	nbers	(Case	e stud	
Textbooks:		(Case	e stud	
1. Damodar N. Gujarati, Basic Econometrics, 3rd Edition, 1995, Mcgraw-Hi		(Case		
 Damodar N. Gujarati, Basic Econometrics, 3rd Edition, 1995, Mcgraw-Hi WALTER ENDERS, "Applied Econometric Time Series", Wiley India. 	11.			
 Damodar N. Gujarati, Basic Econometrics, 3rd Edition, 1995, Mcgraw-Hi WALTER ENDERS, "Applied Econometric Time Series", Wiley India. John E.Silivia, Azhar Iqbal, "Econometrics and business forecasting" Wiley 	11.		e stud	
 Damodar N. Gujarati, Basic Econometrics, 3rd Edition, 1995, Mcgraw-Hi WALTER ENDERS, "Applied Econometric Time Series", Wiley India. John E.Silivia, Azhar Iqbal, "Econometrics and business forecasting" Wiley Reference Books: 	11. 7 2014	1		y).
 Damodar N. Gujarati, Basic Econometrics, 3rd Edition, 1995, Mcgraw-Hi WALTER ENDERS, "Applied Econometric Time Series", Wiley India. John E.Silivia, Azhar Iqbal, "Econometrics and business forecasting" Wiley Reference Books: Ramanathan, Ramu, "Introductory Econometrics With Applications", 4 	11. 7 2014	1		y).
 Damodar N. Gujarati, Basic Econometrics, 3rd Edition, 1995, Mcgraw-Hi WALTER ENDERS, "Applied Econometric Time Series", Wiley India. John E.Silivia, Azhar Iqbal, "Econometrics and business forecasting" Wiley Reference Books: 	11. 7 2014 th Ed	4 ition	Harc	y).



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

https://onlinecourses.swayam2.ac.in/cec20_hs14/preview https://onlinecourses.swayam2.ac.in/cec20_hs35/preview https://onlinecourses.nptel.ac.in/noc21_hs01/preview https://onlinecourses.nptel.ac.in/noc21_mg77/preview



Course Code 21E00205	OPERATIONS RESEARCH	L 4	<u>Т</u> 0	P 0	C 4
211200205	Semester	-	•	II	
	Semester				
Course Objective	S:				
Operations To impart To describ To explain 	e the basic knowledge about Operation Research, importance, a s research and various optimizing techniques in the business oper different optimization models under typical situations in the bus e different game strategies under cut-throat competitive business n optimization tools in solving the management problems throus mematical approach.	ation iness envir	is. Forga ronm	anizat ient	ion.
Course Outcomes	(CO): Student will be able to				
 Understand business pr Learn different modelling 	d nature, scope and significance of Operation Research and formuroblem in a LPP model and solving methods. erent optimizing solutions for various business problems using apprechange.	prop	riate	-	
	e skills to complete a project effectively and efficiently with in th				
UNIT - I		Lec	ture	Hrs:1	.2
Operations Resear Programming prob	OR: Meaning, Nature, Scope & Significance of OR - Typic rch. The Linear Programming Problem – Introduction, Form blem, Limitations of L.P.P, Graphical method, Simplex method: el(exclude Duality problems), Big-M method and Two Phase me	nulat Ma thod	ion ximiz	of L	inear 1 and
Moving towards maximization, Deg Assignment Probl	em – Introduction, Mathematical formulation of the problem em, Hungarian Algorithm, Multiple Solution, Unbalanced Ass	ion J n, S	orobl oluti	ems ion o	with of an
UNIT - III				Hrs:1	-
Machines, n jobs th	sequencing, Johnsons Algorithm for n Jobs and Two machines hrough m machines, Two jobs and m Machines Problems.	, n J	obs	and T	'hree
UNIT - IV				Hrs:1	
Games (with Sado	ncepts, Definitions and Terminology, Two Person Zero Sum Ga lle Point), Principal of Dominance, Mixed Strategy Games (Ga e of Game Theory in Managerial Application.	me v	with	out Sa	addle
UNIT - V				Hrs:1	
diagram- Determin PERT techniques i	ent: Network Analysis – Definition –objectives -Rules for com ning Critical Path – Earliest & Latest Times – Floats - Applie n Project Planning and Control – PERT Vs CPM. (exclude Project	catio	n of	CPM	
Textbooks:					
2. Operations	s Research / R.Pannerselvam, PHI Publications. s Research / S.D.Sharma-Kedarnath s Research /A.M.Natarajan,P.Balasubramani,A. Tamilarasi/Pears	on E	duca	tion.	



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

Reference Books:

- 1. Introduction to O.R/Hiller &Libermann (TMH).
- 2. Operations Research: Methods & Problems / Maurice Saseini, ArhurYaspan& Lawrence Friedman. Pearson
- 3. Quantitative Analysis For Management/ Barry Render, Ralph M. Stair, Jr and Michael E. Hanna/
- 4. Operations Research / Wagner/ PHI Publications.

Online Learning Resources:

https://onlinecourses.swayam2.ac.in/cec20_ma10/preview

https://onlinecourses.nptel.ac.in/noc20_ma23/preview

https://onlinecourses.nptel.ac.in/noc19_ma29/preview



Course Code	BUSINESS ANALYTICS AND DATA SCIENCE	L	Т	Р	С
21E04203		4	0	0	4
	Semester]	I	
Course Objectiv	es:				
To enabl	e the student to understand the roles & responsibilities of Business	Ana	ılyst	and	
Data Sci	entist in business,				
• To expla	in the basic concept of data management and data mining techniqu	ies, r	nach	ine	
learning					
• To make	possible for the application of business analytics in various business	ss ar	eas.		
	es (CO): Student will be able to				
Learn bu	siness analytics career opportunities in business analytics				
Understa	nd data, big data and the way to manage the data in the organisation	on.			
	wledge on data visualisation, classification, evaluation and interpre-		on		
	ta mining, multidimensional data analysis and concepts of associat			sis ar	nd
cluster a			•		
• Obtain k	nowledge on machine learning, artificial Intelligence and Framewo	orks	for b	uildiı	ng
	Learning Systems.				U
UNIT - I		Leo	cture	Hrs:	
Introduction: W	hat is business analytics? Historical Overview of data analysis, I	Data	Scie	entist	vs.
Data Engineer vs	Business Analyst, Career in Business Analytics, What is data so	cienc	e, W	'hy D)ata
Science, Applica	tions for data science, Data Scientists Roles and Responsibility			-	
UNIT - II				Hrs:	
	ection, Data Management, Big Data Management, Organization				
	ata quality, Dealing with missing or incomplete data, Data Vi				
Classification D	ata Science Project Life Cycle: Business Requirement, Data A	Acqu	isitic	on, D)ata
Preparation, Hyp	pothesis and Modeling, Evaluation and Interpretation, Deployn	nent,	Op	eratio	ons,
Optimization.		1			
UNIT - III				Hrs:	
	Data Mining: The origins of Data Mining, Data Mining Tasks, OL				
	l data analysis, Basic concept of Association Analysis and Cluster		•		
UNIT - IV				Hrs:	
	Machine Learning: History and Evolution, AI Evolution, S				
	ta Analytics Vs, Data Science, Supervised Learning, Unsupe	ervise	ed L	earni	ng,
	earning, Frameworks for building Machine Learning Systems	-			
UNIT - V				Hrs:	
	Business Analysis: Retail Analytics, Marketing Analytics, Fin	anci	al A	nalyt	ıcs,
	tics, Supply Chain Analytics				
Textbooks:					
	usiness Analytics: An Introduction to the methodology and its app	lıcatı	lon,		
	Pochiraju, Sridhar Seshadri, Springer				
	b Machine Learning with Python: A Guide for Data Scientists 1st E	ditic	on, by	y	
	er, Sarah Guido, O'Reilly				
	Data Science, Laura Igual Santi Seguí, Springer.				
Reference Book					
	Data Mining, Pang-Ning Tan, Michael Steinbach, Vipin Kumar, F	Pears	on		
Education India					
	n to Business Analytics, Ger Koole, Lulu.com, 2019				
Online Learning					
· ·	/courses/110/105/110105089/				
https://nptel.ac.in	/noc/courses/noc17/SEM2/noc17-mg24/				
	21				



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-mg11/



Course Code	BUSINESS RESEARCH METHODS	L	T	P	C
21E00204	Semester	4	0	0 11	4
	Semester			11	
Course Objective	s:				
	ice business research, types and technology used in business research	arch.			
	in detail on research process involved in business research.				
	sources of data and instruments to collect data				
	e knowledge on analysis and interpretation of outcome of the data	in a	scier	ntific	
way.	· ····· ······························				
•	e knowledge on descriptive and inferential statistical analysis.				
	competence skills to undertake business research problem and c	arrvo	out sc	ientif	ïc
research.	I I I I I I I I I I I I I I I I I I I	<i>.</i>			
	tical tables shall be allowed in the examination				
	(CO): Student will be able to				
	s of business research, technology used in business research in te	chno	logic	al era	ì.
	search problem, appropriate research design and sample design for		0		
	hypothesis, testing process of hypothesis.		I	,	
	d sources of data, instruments to collect data, analyse and interpre	tatio	n of o	data.	
	d present the research report effectively and efficiently.				
UNIT - I	T	Lec	ture	Hrs:()8
	usiness Research: Definition-Types of Business Research. Scie	ntific	: Inve	estiga	tion.
	Business Research: Information needs of Business - Technologie				
	ernet, E-mail, Browsers and Websites. Role of Business Rese				
Decisions.					,
UNIT - II		Lec	ture	Hrs:1	2
The Research Pr	ocess: Problem Identification: Broad Problem Area-Prelimina	ry D	ata (Gathe	ring.
Literature Survey	- Hypothesis Development - Statement of Hypothesis- Proceed	lure	for 7	Festir	ng of
Hypothesis. The R	esearch Design: Types of Research Designs: Exploratory, Descri	ptive	, Exp	perim	ental
	Study -Measurement of Variables- Operational Definitions and S				
Ordinal Scales- Ra	ating Scales- Ranking Scales- Reliability and Validity - Sampli	ng a	nd M	letho	ds of
sampling					
UNIT - III				Hrs:1	
	nalysis of Data Sources of Data-Primary and Secondary Sour				
	ds- Interviews: Structured Interviews and Unstructured Interviews	ews-	Obs	ervat	ional
• -		and	Un	struct	tured
-	Guidelines for Construction of Questionnaires.				
UNIT - IV				Hrs:1	
-	a and Analysis: Data preparation process, problems in prepar	ation	pro	cess	- An
	iptive, Associational and Inferential- Statistical Measures.	1			
UNIT - V				Hrs:1	
	Report: Research Reports-Components-The Title Page-Table				
	ry-The Introductory Section-The Body of the Report-The Final				-
-	s - References-Appendix - Guidelines for Preparing a Good Res	searc	h rep	ort -	Oral
Presentation.					
Textbooks:					
	rch Methodology – methods & Techniques, C.R. Kothari, Vishwa	-			
	rch Methods for Business–A Skill Building Approach, Uma Seka	ran,	John	Wile	y &
	Asia) Pvt. Ltd, Singapore.	Ŧ	c		7*1
3. Resear	rch Methodology(Concepts and cases) Deepak Chawla I	Neen	aSon	dhi-V	/1kas



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

publishing

Reference Books:

- 1. Business Research Methods, Donald R Cooper and Pamela S Schindler,9/e,Tata McGraw-Hill Publishing Company Limited.
- 2. Methodology and Techniques of Social Science Research, Wilkinson & Bhandarkar, Himalaya Publishing House.
- 3. Business Research Methods 8e, Zikmund- Babin-Carr- Adhikari-Griffin-Cengage learning.
- 4. Business Research Methods- Alan Broman, Emma Bell 3e, Oxford university

Online Learning Resources:

https://onlinecourses.swayam2.ac.in/cec20_mg14/preview https://onlinecourses.nptel.ac.in/noc20_ge01/preview



Course Code	DATA WAREHOUSING AND DATA MINING	L	Т	Р	С
21E04204		4	0	0	4
	Semester			II	
Course Objective	s:				
To give an	n overview of data warehousing and data mining				
To explain	n data sets, major tasks in data pre-processing				
To explain	n basic concepts of data warehousing and On-line Analytical	l Process	ing		
To educat	te on data base structures, multidimensional data structures	and cond	cepts of M	leta Data.	
To impart	analysing skills on context of data warehouse				
 To explain 	n procedure of getting data into the data warehouse.				
Course Outcome	s (CO): Student will be able to				
Understan	d data warehousing and data mining concepts				
Know data	a sets, statistical descriptions of data, tasks in pre-processing	g of data			
Gain know	vledge on data warehouse modelling and On-line Analytical	Process	ing of data	a	
Identify da	ata base structures, multidimensional data structures and lea	rn conce	pts of Me	ta data	
Apply pro	cedure of getting data into the data warehouse		-		
UNIT - I		Lecture			
	ivated data mining -Its importance - Meaning of data mini				
	can be mined? are all of the patterns interesting? Classif				ems, data
	ives, integration of a data mining system with a database or	data war	ehouse sy	rstem.	
UNIT - II		Lecture			
	g: Types of data sets and attribute values, basic statistical d				
	milarity, data quality, major tasks in data preprocessing, da	ata reduc	tion, data	transform	ation and
	n, data cleaning and data integration.				
UNIT - III		Lecture			
	g and On-Line Analytical Processing: Data Warehouse- Basi				
	LAP, data warehouse design and usage, data warehouse in				
	induction, efficient methods for data cube computat		•		•
	databases, Data Base Structures - Organizing Relational				
Data Structures –	Choosing a Structure. Meta Data: Human Meta Data, Comp	puter Ba	sed Meta	Data for p	eople and
computer to use.					
UNIT - IV		Lecture			
• •	ontexts of the Data warehouse: Active Analysis, User Q				•
warehouse System	n: Stages of the Project – Developing a Project Plan, Data w	arehousi	ing Desig	n Approac	hes – The
Architecture Stage	ð.				
UNIT - V		Lecture			
	the Data warehouse - Extraction, Transformation, Cleaning				
	a Decision Tree, Correlation and Other Statistical Analysis	s, Neural	Network	s, Nearest	Neighbor
	ng the Results to Use.				
Textbooks:					
	i Han &MichelineKamber, "Data Mining – Concepts a	and Tecl	nniques"	Morgan k	Caufmann
	shers, 2nd Edition, 2006.				
	aret H Dunham, "Data Mining Introductory and advanced to	pics",P	earson edu	ucation	
	Evans "Business Analytics" Pearson, 2 nd Edition, 2017				
Reference Books:					
	oster Provost & Tom Faucett "Data Science for Business" SI			_	
	fram G. Mallach: Decision Support Systems and Data wareh	-	tems TMI	H.	
	H.M.Sivanandam, Data Mining Techniques and Tasks Thor				
4. R	ichard T Watson :Data Management, Data Bases and Organ	izations,	Wiley.		



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Marakas, Modern Data Warehousing, Mining and Visualization Core Concepts Pearson
 Berson Smith, Data warehousing, Data Mining OLAP TMH.

Online Learning Resources:

https://onlinecourses.swayam2.ac.in/cec19_cs01/preview#:~:text=Data%20mining%20is%20the%20extraction,pred ictive%20information%20from%20large%20databases. https://onlinecourses.nptel.ac.in/noc20_cs12/preview

https://www.classcentral.com/course/swayam-data-mining-13982



Course Code	R- PROGRAMMING	L	Т	Р	С
21E03202		4	0	0	4
	Semester			II	L
Course Obiostic					
Course Objective					
	e basic knowledge in the area of R-Programming methods to explore, import, export and manipulate data and data	from			
	owledge on hypothesis tests for estimating or predicting statistica			la.	
	s (CO): Student will be able to			.5	
	but R programming overview				
	w to programme In R for data analysis				
	nd concepts and terminology used in R-programming				
	emonstrate the procedure to explore ,import, export and manipulate	e the	data		
	late hypothesis and testing of hypothesis for predicting models usi				and
	istical tools for the given data.		- 6 1		
UNIT - I		Leo	cture	Hrs:1	2
R Programming,	Overview and History of R, Getting Help, R Packages: Load	ling.	Inst	alling	and
Managing.	,	0,		0	
00					
UNIT - II		Lec	cture	Hrs:1	0
Data Definition &	c Control Structures, Data definition types, constants, variables, R	data	type	s and	
objects, Reading a	and writing data.				
UNIT - III		Lec	cture	Hrs:1	2
Expressions: Arith	metic, Logical, Precedence rules Control Structures: Sequencing,	Inpu	it and	l outp	ut
statements, Assig	nment statement, Control Structures: Selection, Repetition, Combi	natic	on, F	unctic	ons,
scoping rules and	loop functions, Flow Control				
UNIT - IV		Lec	cture	Hrs:	10
Exploring Data v	with R, Import, export and manipulate data and data frames, Statist	ical s	sumn	naries	of
continuous and ca	itegorical data.				
		-		**	
UNIT - V				Hrs:	
	and simple regression models, Linear models like ANOVA, linear			n and	
	neralized linear models, Basic graphics & reports of statistical ana	lyses	5		
Textbooks:				0010	
	k. Beginning R: the statistical programming language. John Wiley			2012	•
	ohn Mount, and Jim Porzak. Practical data science with R. Mannin	1g, 2	014		
Reference Books					
	dley, and Garrett Grolemund. "R for Data Science": Import,	, Tic	ly, 🛛	Fransf	torm,
	Model Data. " O'Reilly Media, Inc.", 2016.				
	an. The art of R programming: A tour of statistical software desig	;n. N	o Sta	irch F	ress,
2011.	_				
Online Learning					
· · ·	ube.com/watch?v=3iSKFCKLUsI				
https://onlinecour	ses.nptel.ac.in/noc19_ma33/preview				



Course Code	General Elective – I	L	T	P	С
21E00207a	ADVANCED COMMUNICATION	2	0	0	2
	Semester		Ι	Ι	
Course Objectives:	ommunication concepts				
	e students' competence in communication at an advanced level.				
	ate communication skills viz., listening, speaking, reading		writ	ing	with
teaching aids.	······································			8	
	O): Student will be able to				
	e communication concepts and				
	nunication and competence skills				_
-	ply proficiency in business communication at the workplace	e and	l pro	fessi	onal
contexts.	1	Last		Inc.6	
	l Communication – Effective Listening – Barriers, Steps for A	Lectiv			
	Body Language & Modulation, Informative, Persuasion C				
	Obstacles, Effective Reading, Reading Comprehension – Ef				
	laking Methods, Executive Summery.				0
UNIT - II		Lectu			
	eports: Types of Business Letters - Elements; Types of Rep				
	nents; Annual Reports - Technical Proposals - Structure - Cir	rcula	rs - 1	Notic	es –
Memos.		_			_
UNIT - III		Lectu			
e i	Meeting Invitation - Notice – Agenda – Meeting Participants	$-\mathbf{K}$	oles;	Mee	eting
UNIT - IV	e - Minutes of the Meeting – Documentation – Filing;	Lect	ura I	Irev	2
	egies: Conflict Resolution – Win-Win strategy; Manageria				
	ve, Integrative Strategies; Interviews – Types – purpose – proce		-8-1		
UNIT - V		Lect			
	munication: Conventional Modes Vs Computer based Techn				
	o Soft & Google Tools - Data - Collection - Organizin	ng –	Ana	alyziı	ng -
Presentations using Te	chnology.				
Textbooks:					
-	ommunication – Strategies and Applications, Geraldine E.Hyne	es, M	cGra	wHi	11
	munication, C.S.Rayudu, HPH.				
3. Business Com Reference Books:	munication, Meenakshi Raman, Oxford University Press.				
	munication, Shalini Varma, Vikas.				
	munication, Raymond V.Lesikar, Neeraja Pandit et al., TMH				
	munications, Hudson, Jaico Publications				
	munication Sehgal, khetarpal, Excel Books				
	munication, Harward Business School, Harward Business Rev	view N	No.1	214.	
	on skills, Sanjay Kumar, Pushpalata, Oxford				
Online Learning Res					
	wayam2.ac.in/imb19_mg14/preview				
nttps://www.youtube.c	com/watch?v=ITHnugowc_Q				



Course Code 21E00207b	General Elective – I E-BUSINESS	L 2	Т 0	P 0	C 2
211002070	Semester		-	II	
Course Objectiv	es:				
 To impar 	ts the concepts and various application issues of e-business and va	rious	onli	ne	
strategies	for e-business.				
 To explai 	n various electronic payment systems.				
	s (CO): Student will be able to				
Understar	nd electronic business and related concepts in detail.				
• Identify s	ecurity threat in e-business and steps, methods to overcome securi	ty iss	ues.		
	rious electronic payment system and business models in the preser			ogy	
business				0.	
Know the	e e-business infrastructure requirements for e-business.				
UNIT - I		Lec	ture	Hrs:	6
	business : Electronic business, Electronic commerce, difference				
	lectronic commerce models, types of electronic commerce, value				
	merce in India, internet, web based tools for electronic comme				
	ponents of electronic data interchange, electronic data interchange				,
UNIT - II				Hrs:	6
Security threats	to e- business: Security overview, Electronic commerce t	hreat	s. E	ncrvr	otion.
-	blic key and private key Cryptography digital signatures, digital			• •	
	ublic networks : HTTP, SSL, Firewall as security control, public				
(PKI) For Securit	• •	5			
UNIT - III		Lec	ture	Hrs:	6
Electronic payme	ent system : Concept of money, electronic payment systems, t	ypes	of	elect	ronic
	smart cards and electronic payment systems, infrastructure issue	• •			
fund transfer.					
UNIT - IV		Lec	ture	Hrs:	4
E-business applic	ations and strategies : Business models & revenue models over	· inte	rnet,	emer	ging
	lesse- governance, digital commerce, mobile commerce, strategie				
	ed business models.				
UNIT - V		Lec	ture	Hrs:	6
E –business infr	astructure and e- marketing : Hard works system software in	nfrast	ructu	ire, I	SP's,
	ness applications infrastructure, what is e- marketing, e-marketir				
strategies.		01		U,	
Textbooks:					
1. Dave cha	ffey :e-business & e-commerce management- Pearson.				
	erce- e-business :Dr.C.S.Rayudu, Himalaya.				
Reference Books					
	David (2000), e-commerce strategy, Technologies and applications	TM	н		
	r Gary P.and Perry, James T(1^{ST} edition 2000) Electronic commerci			on	
Learning.		, 11			
U	amlesh K and Nag, Debjani (1 st edition 1999) ,e- commerce, 7	The c	uttin	o eda	re of
	TMH Publishing company		attill	5 048	,5 01
Online Learning					
	ses.nptel.ac.in/noc19_mg54/preview				
	central.com/course/swayam-e-business-14018				
110ps.// w w w.c.1dss					



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR (Established by Govt. of A.P., ACT No.30 of 2008) ANANTHAPURAMU – 515 002 (A.P) INDIA

Course Code	General Elective – I	L	T ^	P	C
21E00207c	INDUSTRY 4.0 & INNOVATION	2	0	0	2
	Semester		Ι	I	
Course Objectiv	7001				
	de an overview of industry 4.0 and technology based innovations.				
	the theory and concepts with Industrial application of computers				
	luce the basic concepts of Industry 4.0, Artificial Intelligence,	Big	Data	and	
	of Things.	2.8	2 4.0		
	uss and demonstrate the applications and tools of Industry 4.0.				
	art knowledge on innovation types, stages of innovation process, and	d coi	npeti	tive	
advantag			I ···		
	es (CO): Student will be able to				
	and the basic concepts of Industry 4.0 and new technologies in	n de	cisio	n	
making					
0	the features of Artificial Intelligence and application domains				
	rize the Big data domain stack and Internet of Things				
	the applications and Tools of Industry 4.0				
	ad think innovative ideas based on technology				
	he knowledge in various industries based on technology to tal	ke ef	ffecti	ive a	nd
11.	managerial decision.			u	na
UNIT - I		Leo	rture	Hrs:	6
	ed – Reason for Adopting Industry 4.0 - Definition – Goals a				
Principles -	ed Reason for Raopting Industry 4.0 Definition Cours e	inci i	00518	,11	
Technologies of	Industry 4.0 – Big Data – Artificial Intelligence (AI) – Industrial	Inter	net c	fThi	ngs
	– Cloud – Augmented Reality – Mixed Reality.	τ.		TT	(
UNIT - II	ence: Artificial Intelligence: Artificial Intelligence (AI) – What &			Hrs:	
	ons of AI - The AI - Environment - Societal Influences of AI - App				
	ciated Technologies of AI - Future Prospects of AI - Challenges of			oma	1115
UNIT - III	line remologies of m - ruture rospects of m - endnenges of		rture	Hrs:	6
	T: Data : Terminologies - Big Data Definitions - Essential of Big				
	lerits and Advantages - Big Data Components : Big Data Character				
	eworks - Big Data Applications - Big Data Tools - Big Data F				
	et of Things (IoT) : Introduction to IoT - Architecture of IoT - 7				
IoT - Security in	-			·	
UNIT - IV		Leo	cture	Hrs:	6
Applications of	IoT - Manufacturing - Healthcare - Education - Aerospace	and	Def	ence	_
	ansportation and Logistics – Impact of Industry 4.0 on Society: Imp	act o	on Bu	isines	ss,
	ople. Tools for Artificial Intelligence, Big Data and Data Analytics,				
	Augmented Reality, IoT, Robotics.				
UNIT - V				Hrs:	
	aning - Stages of Innovation Life cycle – Types of Innovations - 1	nnov	vatio	n as a	ι
0	l process – Innovation and competitive advantage.				
Textbooks:	a Innovation Dy Loo Tidd John Descart & stal Willing India	D1-	liche		low
	g Innovation -,By Joe Tidd, John Bessant & et.al., Wiley India nird Edition.	rub	nsne	18, IN	ew
2. Introduct	ion to Industry 4.0 and Industrial In Things by Prof.SudipMisra, IIT Kharagpur.	terne	t of		



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Reference Books:

1. Alasdair Gilchrist. Industry 4.0: The Industrial Internet of Things, A press Publications.

Online Learning Resources:

http://assets.press.princeton.edu/chapters/s9221.pdf

https://www.researchgate.net/profile/Joe-

 $Tidd/publication/285052130_Managing_Innovation/links/5662e4a508ae418a786b8dd8/Managing_Innovation.pdf$



Course Code	Skill Oriented Course	L	Т	P	С
21E00208	DATA ANALYTICS LAB	0	1	2	2
	Semester	-		II	
		1			
Course Objective	s:				
 To explain 	the procedure in creation of company, ledger accounts and to	explo	ore, p	resent	
financial s	tatements of an business organization	_	_		
 To give ki 	nowledge on using of various financial tools to take long term	inve	stme	nt	
decision					
	strate the process of storing, retrieving the data relating to emp	loyee	es, de	alers,	
customers	and consumers in an effective and efficient way				
 To impart 	the knowledge on Systems and MIS and process of designing	the I	MIS i	in an	
organizati	on.				
Course Outcome	s (CO): Student will be able to				
• Demonstr	ate the creation of company, ledger accounts, explore and expon	rt fina	ancia	1	
statements					
	e calculation of cost of capital and discounting factor technique	s in l	ong t	erm	
investmen					
	retrieve the data relating to dealers, customers and consumers	based	l on p	oroduc	ets,
	cal criteria.				
	e data in the form of pivot tables, graphs and charts in effective				
	and present employee salary administration in an organization	in ar	info	rmati	ve
manner.					
	d information system in the organization, design of MIS and al	so int	erne	t and	the
	in Internet.				
List of Experiment	nts:				
Unit – 1					
	Excel- Cells – name range – references – Creating and edition				
	g and using formulas and functions-Use of Macros -Sorting	and	quer	ying o	data-
	bhs and charts – usage of Paste special				
Unit – 2					
	anaging Worksheets and Workbooks Worksheet Vs. Workt				
	workbooks - Deleting worksheets and workbooks -Namin				
	ling between worksheets and workbooks - Copy and Move		shee	ets - F	-11de,
	d Ungroup Cells -Hide and Unhide Worksheets -Save and Save	As			
Unit – 3		60		т	
	Cell Referencing - Data Validation- Naming a Cell or Range of				IT
	formulas (SUM, COUNTA, AVERAGE, MAX, MIN). Text F				11,
	STITUTE, FIND, LEN). Date Functions (TODAY, NOW, DA	Υ Υ, Ν	ION	IH,	
	EOMONTH, TEXT).				
Unit – 4 Advanced Excel	I:Lookup Functions (VLOOKUP, HLOOKUP, MATCH, IND	EV	т	orico	1
	D, OR)Data Analysis Functions (SUMIF, SUMIFS, COUNT	,		0	
	atting, Filtering and Sorting Graphs, Charts and Pivot Tables				
Unit – 5	uting, 1 noring and sorting Oraphs, Charts and Fivot Tables	10111	Jve u	upite	nes
	ne surveys – usage of Google drive – micro soft online surveys	_ ch	arino	with	the
8	ia/ internet- getting responses from online survey- sorting and				
References:	a memor getting responses from online survey- solving and	me		ne sul	vey
	Excel-Frye, PHI publications				
	Access- Step by step, PHI publications				
Ms Office	Access- step by step, r m publications				



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• SPSS User manual

Online learning resources/Virtual labs: https://www.coursera.org/specializations/excel https://www.coursera.org/specializations/everyday-excel https://www.coursera.org/learn/excel-basics-data-analysis-ibm



Course Code	Strategic Management	L	Т	Р	С
21E00301		4	0	0	4
	Semester		I	l	
Course Objecti	\$/AC)				
•	ribe and discuss the strategic management process.				
	l skills to develop strategic vision, mission objectives.				
	ain concepts of core competence, strategy for completive a	dvantag	e.		
	e an understanding about strategic analytical tools and tecl				
	ide knowledge on strategy formulation, types of strategies		ement.		
·	te awareness on various strategy evaluation and controllin	·			
	nes (CO): Student will be able to				
Know st	rategic management process				
	trategy implementation, analytical and evaluating skills al	oout vari	ous str	ategies	.
	and on establishing strategic controls at national and intern				
UNIT - I		Lectur			
Introduction- C	Concepts in Strategic Management, Strategic Manageme	nt as a p	process		
– Developing a	strategic vision, Mission, Objectives, Policies - Factor	s that s	hape a	comp	any's
	ronmental Scanning -Concepts of Core Competence				
competitive adva	antage.		-	-	
UNIT - II		Lectur	e Hrs:	12	
	vsis and Choice: Tools and techniques- Porter's Five Fo				
	OT Analysis and TOWS Matrix,. Market Life Cycle M	lodel - a	nd Or	ganizat	ional
Learning, and th	e Experience Curve.				
UNIT - III		Lectur			
	ulation : Formulation of strategy at corporate, busine				evels.
	natives:- Stability Strategy, Growth Strategy, Retr	enchmer	nt Str	ategy,	and
Combination Str	ategy, .	-			
UNIT - IV		Lectur			
	mentation : Types of Strategies : Offensive strategy,				
	zontal strategy; Tailoring strategy to fit specific industr				
	eadership, Resource Allocation as a vital part of strate	gy – Pl	anning	syster	ns for
implementation UNIT - V		Lectur	o Urail	2	
	ation and control – Establishing strategic controls -				rict
0.	o evaluate performance - strategic information systems			-	-
	c surveillance -strategic audit - Strategy and Corporate E				
Ų	ternational context.	, and all o	ii uiiu	100000	
Textbooks:					
	ic Management – J.S.Chandan & Nitish sen Gupta, Vikas				
Reference Book					
	ic Management Concepts and Cases ,Fred R.David, PHI.				
-	ic Management, Hill, Ireand, manikutty, Cengage.				
-	ots in Strategic Management and Business Policy, Whee	len & F	Iunger		
-	Education.		0		
	ic Management – Text and Cases, V.S.P. Rao, Excel.				
-	ic Management, Ireland, Hoskinsson, Hitt, Cengage.				
-	ic Management – Theory and Application, Habergerg, Rie	eple, oxf	ord.		
-	ic Management, P. SubbaRao, Himalaya.	-			



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• Business policy and strategic management, Sukul Lomash, P.K.Mishra, Vikas

Online Learning Resources:

http://rizvihmct.com/wp-content/uploads/2017/02/Semester-VI-strategic-managment.pdf https://sgp1.digitaloceanspaces.com/cakart/5929/study_contents/Chapter_1__Introduction_to_Strateg ic_Management.pdf https://old.mu.ac.in/wp-content/uploads/2014/04/Introduction-to-Strategic-Management-book.pdf https://www.cimaglobal.com/Documents/ImportedDocuments/cid_tg_strategic_analysis_tools_nov07 .pdf.pdf https://resources.saylor.org/wwwresources/archived/site/wp-content/uploads/2013/09/Saylor.orgs-Strategy-Formulation.pdf https://resources.saylor.org/wwwresources/archived/site/wp-content/uploads/2013/04/BUS300-2.3_Strategy-Formulation.pdf https://static.careers360.mobi/media/uploads/froala_editor/files/Strategy-Implementation-and-

Control.pdf



('niirce ('nde		L	Т	Р	С
Course Code 21E04301	Data Visualization	<u> </u>	0	0	4
21201001	Semester			-	
	Semester				
Course Objectives					
To explain	he significance of data, basic concepts of Data V	'isualizatio	n(DV).		
	wledge on dashboard designing, data discovery, e	exploration	, bid data l	lake and p	oitfalls
of data visu					
	with DV techniques and procedure to create, add	and edit fe	atures for o	effective	
visualizatio					
	nowledge on Data Visualization Tools focusing o	n TABLU	E, Power E	BI and	
Qlikviews.	(\mathbf{CO}) . Student will be able to				
	(CO): Student will be able to importance of data, analyzing, reasoning about data	to through		iona	
	insights of the data for effective decision making		i visualizat	ions.	
•	perties of DV, goals, functions and framework of				
	edge on dashboard designing, data discovery, exp		id data lak	e and nitf	alls of
data visuali		ioration, o	ia aata iak	e and phi	
	owledge on DV tools TABLEAU, Power BI and	Olikviews	to explore	meaning	ful and
	formation in the data.	2	to empioie		,
	d contrast TABLEAU, Power BI and Qlikviews				
UNIT – I		Lecture H	Irs: 8		
Introduction: I	Data Visualization Definition, Graphics	and	Computi	ng, H	listory
ofDataVisualization	,AnalyzingMilestoneData,GoalsofDV,Functionsc	ofDataVisu	alization,F	ramewor	kofDa
	esofDataVisualization,Properties of Data Visualization				
	-				
UNIT – II		Lecture I			
	principles, Dashboards, SOC Dashboard, Data D	•	and Explora	ation, Dat	a
-	ualization, Big Data Lake, Pitfalls of Data visuali				
UNIT – III		Lecture H			
	Techniques & Visualization data: Creatinga Sca	atterplot, A	ddingregre	essionline	e to the
	categories, Labelling the graph, Legend	1	a 1.		60
	cet,theming,Creatingbarcharts,Violinplots,density				narofGr
			and other s	graphics	
Transformation), in	kage(usingqplot(),usingGeometrics, facets, scaling	g, Themes			
UNIT – IV	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots.	Lecture H	Hrs:12		ignaliza
UNIT – IV DataVisualization	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots.	Lecture H basicchart	Irs:12 s,Creatingc	commonv	
UNIT – IV DataVisualization tions•Creatingdash	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots.	Lecture H basicchart	Irs:12 s,Creatingc	commonv	
UNIT – IV DataVisualization tions•Creatingdasht ablecalculations.	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots.	Lecture H basicchart atedfieldsa	Irs:12 s,Creatingc andmeasure	commonv	
UNIT – IV DataVisualization tions•Creatingdasht ablecalculations. UNIT – V	cage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul	Lecture H basiccharta atedfieldsa Lecture H	Irs:12 s,Creatingc andmeasure Irs:12	commonv es•Using	QuickT
UNIT – IV DataVisualization' tions•Creatingdashb ablecalculations. UNIT – V DataVisualization'	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul	Lecture F basicchart latedfieldsa Lecture F werBi-Upl	Hrs:12 s,Creatingc andmeasure Hrs:12 oadingdata	commonv es•Using toPowerl	QuickT
UNIT – IV DataVisualization tions•Creatingdash ablecalculations. UNIT – V DataVisualization IntroducingQuickIn	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul	Lecture F basicchart atedfieldsa Lecture F werBi-Upl ractions-D	Hrs:12 s,Creatingc andmeasure Hrs:12 oadingdata ecoratingthe	commonv es•Using toPowerl ereport -	QuickT BI-
UNIT – IV DataVisualization tions•Creatingdasht ablecalculations. UNIT – V DataVisualization IntroducingQuickIm Savingthereport-Pinn	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul Fools:PowerBI&Qlikview:GettingstartedwithPow sights-Introductiontoreports-IntroducingVisualInte ing a report-Filtering a report – Introduction to Q	Lecture F basicchart atedfieldsa Lecture F werBi-Upl ractions-D	Hrs:12 s,Creatingc andmeasure Hrs:12 oadingdata ecoratingthe	commonv es•Using toPowerl ereport -	QuickT BI-
UNIT – IV DataVisualization tions•Creatingdasht ablecalculations. UNIT – V DataVisualization IntroducingQuickIn Savingthereport-Pinn Power BI &Tableau	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul Fools:PowerBI&Qlikview:GettingstartedwithPow sights-Introductiontoreports-IntroducingVisualInte ing a report-Filtering a report – Introduction to Q	Lecture F basicchart atedfieldsa Lecture F werBi-Upl ractions-Do	Hrs:12 s,Creatingc andmeasure Hrs:12 oadingdata ecoratingthe	commonv es•Using toPowerl ereport -	QuickT BI-
UNIT – IV DataVisualization tions•Creatingdasht ablecalculations. UNIT – V DataVisualization IntroducingQuickIn Savingthereport-Pinn Power BI &Tableau Textbooks:	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul Fools:PowerBI&Qlikview:GettingstartedwithPo- sights-Introductiontoreports-IntroducingVisualInte ing a report-Filtering a report – Introduction to Q	Lecture F basicchart latedfieldsa Lecture F werBi-Upl ractions-D likview – c	Hrs:12 s,Creatingc andmeasure Hrs:12 oadingdata ecoratingthe lifference b	commonv es•Using toPowerl ereport - petween (QuickT BI- Qlik,
UNIT – IV DataVisualization tions•Creatingdasht ablecalculations. UNIT – V DataVisualization IntroducingQuickIn Savingthereport-Pinn Power BI &Tableau Textbooks:	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul Fools:PowerBI&Qlikview:GettingstartedwithPow sights-Introductiontoreports-IntroducingVisualInte ing a report-Filtering a report – Introduction to Q	Lecture F basicchart latedfieldsa Lecture F werBi-Upl ractions-D likview – c	Hrs:12 s,Creatingc andmeasure Hrs:12 oadingdata ecoratingthe lifference b	commonv es•Using toPowerl ereport - petween (QuickT BI- Qlik,
UNIT – IV DataVisualization tions•Creatingdasht ablecalculations. UNIT – V DataVisualization IntroducingQuickIn Savingthereport-Pinn Power BI & Tableau Textbooks: 1.ColeNussbaumerl ileypublications	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul Fools:PowerBI&Qlikview:GettingstartedwithPov sights-Introductiontoreports-IntroducingVisualInte ing a report-Filtering a report – Introduction to Q	Lecture H basiccharts atedfieldsa Lecture H werBi-Upl ractions-De likview – c	Hrs:12 s,Creatingc andmeasure Hrs:12 oadingdata ecoratingthe lifference b BusinessPr	commonv es•Using toPowerl ereport - petween (QuickT BI- Qlik,
UNIT – IV DataVisualization tions•Creatingdasht ablecalculations. UNIT – V DataVisualization IntroducingQuickIn Savingthereport-Pinn Power BI &Tableau Textbooks: 1.ColeNussbaumerl ileypublications 2. KieranHealy,"Da	kage(usingqplot(),usingGeometrics, facets, scaling gures with multiple plots. Fool:Tableau,GettingstartedwithTableau,Creating oardlayouts,Usingdashboardfilters,Creatingcalcul Fools:PowerBI&Qlikview:GettingstartedwithPo- sights-Introductiontoreports-IntroducingVisualInte ing a report-Filtering a report – Introduction to Q	Lecture H basicchart atedfieldsa Lecture H werBi-Upl ractions-Do likview – c nGuidefor	Hrs:12 s,Creatingc andmeasure Hrs:12 oadingdata ecoratingthe lifference b BusinessPr yPress.	commonv es•Using toPowerl ereport - between (ofessiona	QuickT BI- Qlik, ls",W



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4. ClausO.Wilke, "FundamentalsofDataVisualization", O'ReillyMedia, Inc.

Reference Books:

- Anderson, Melissa. 2017. "Data Visualization and the 9F undamental Design Principle.
- AlbertoFerrari&MarcoRusso, "IntroducingMicrosoftPowerBI", Microsoftpress, ISBN:9 78-1-5093-0228-4

Online Learning Resources:

https://www.datavis.ca/papers/hbook.pdf

https://cs.stanford.edu/degrees/phd/cs300/jeffrey-heer.pdf

http://byrneslab.net/classes/biol607/readings/Friendly_2008_dataviz_history.pdf

http://euclid.psych.yorku.ca/www/psy6135/lectures/History-2x2.pdf

https://online.hbs.edu/blog/post/data-visualization-techniques

http://www.ajtmr.com/papers/Vol11Issue1/Vol11Iss1_P4.pdf

https://www.sas.com/content/dam/SAS/en_us/doc/whitepaper1/data-visualization-techniques-106006.pdf https://datos.gob.es/sites/default/files/doc/file/data_visualization_tool_report.pdf

https://creconline.org/wp-content/uploads/2016/10/Data-Visualization-with-Tableau-Presentation.pdf

 $https://wmich.edu/sites/default/files/attachments/u1158/2019/Tableau\%20WMU_2.pdf$

https://ecampusontario.pressbooks.pub/app/uploads/sites/73/2019/02/Tableau-tutorial.pdf

https://www.mukpublications.com/resources/sma%20v25-1-18-final.pdf

https://cedar.princeton.edu/sites/g/files/toruqf1076/files/media/introduction_to_tableau_training_0.pdf https://smetricinsights.com/wp-content/uploads/2021/03/Tableau-VS-QlikView-VS-Power-BI-2019-Update.pdf



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Course Code		Т	Т	Р	C
21E04302	Predictive Analytics	L 4	0	0	4
211204302	Semester			-	
	Semiciter				
Course Objectives:					
To explain c	oncept of analytics and types of analytics				
	nowledge on predictive methods of qualitative data				
	owledge on methods to predict quantitative data				
	locument structure, style and document preparation t	cools			
	CO): Student will be able to				
	analytics and classification				
-	pretical and practical knowledge on qualitative and c	-			
Predict futur	e value on time series data using moving averages an	nd least squ	ares		
 Demonstrate 	e presentation skills on document preparation, types	of documer	its		
Write researce	ch or review papers in prescribed format using MS o	ffice			
UNIT – I		Lecture H			
	dictive analytics: Definition of Analytics advantage				
	-Introduction to Descriptive analytics, Predictive an	alytics, Pre	scriptive an	alytics (the	ory only)
11	mitation of predictive analytics.		10		
UNIT – II		Lecture H		1	
	ualitative methods: Meaning of Qualitative forecas nethod of forecasting - Application areas of Qual				
	ntitative forecasting methods.	manve men	ious - Dii	rerentiation	Detween
UNIT – III	intarive forecasting methods.	Lecture H	rs·12		
	Correlation and Regression - Charting the Relation			earson's C	orrelation
	Regression – Array - Entering Formulas- Multip				
Multiple Predictors -		U		0	
UNIŤ – IV		Lecture H	rs:12		
	Toving Averages: About Moving Averages – Types				
	Versus Tracking - Criteria for Judging Moving Av	erages - M	ean Absolu	te Deviatio	on - Least
Squares – Using Exc	el.				
UNIT – V		Lecture H		C 1	
	iments: Defining purpose and scope documents, Un				
	te papers, technical reports, minutes of meeting Doo owerPoint, Word, Excel.	cumentation	i formats a	na Styles. L	Jocument
* *	owerrom, word, Excel.				
Textbooks:		· 1 C	<u>р</u> '	1 (1	· ,·
	ran/fry/ohlmann/anderson/sweeney/williams, "Essen			analytics d	•
predictive pr	rescriptive", cengage publishing house.(Student's Ha	andbook for	Associate	Analytics -	III).
Reference Books:					
	"Predictive Analytics: The Power to Predict Who W	ill Click B	v Lie or I	Die Panerha	ack –
	anuary 20, 2016", Wiley Publications.	in chek, be	iy, Lie, of I		
	berg, "Predictive Analytics: Microsoft Excel Paperba	ack – Illustr	ated, July 2	2, 2012".	
	BalaDeshpande, "Predictive Analytics and Data Min		-		
	", 1 st Edition.		r and i it		
Rapidiville	, 1 1.01(1011)				

Online Learning Resources:



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https://www.youtube.com/channel/UCLI5I1QwKqQn0Cf4nzdGKeQ/search?query=predictive%20analytics https://www.youtube.com/channel/UCfrjJZDwYwfMNUkWWuq2PWQ/search?query=predictive%20analytics https://www.predictiveanalyticsworld.com/book/pdf/Predictive_Analytics_by_Eric_Siegel_Excerpts.pdf https://bvrithyderabad.edu.in/wp-content/uploads/2018/03/PredictiveAnalytics-HANDOUTS.pdf https://mycourses.aalto.fi/pluginfile.php/1168274/mod_resource/content/1/PredictiveAnalytics-Part1-2020.pdf https://mirtech.ir/wp-content/uploads/2018/04/Predictive-Analytics.pdf https://mirtech.ir/wp-content/uploads/2018/04/Predictive-Analytics.pdf https://ncss-wpengine.netdna-ssl.com/wp-content/themes/ncss/pdf/Procedures/NCSS/Logistic_Regression.pdf https://www.stat.cmu.edu/~cshalizi/uADA/12/lectures/ch12.pdf https://tp.idu.ac.id/wpcontent/uploads/ebook/ip/REGRESI%20LOGISTIK/Practical%20Guide%20to%20Logistic%20Regression%20(%2 0PDFDrive%20).pdf https://www.analyticsvidhya.com/blog/2016/02/guide-build-predictive-models-segmentation/ http://www.cpdftraining.org/downloads/Levenbach_Techniques2017.pdf

https://www.influxdata.com/time-series-forecasting-methods/



Course Code	Marketing Analytics	L	Т	Р	С
21E04303	Marketing Analytics	4	0	0	4
Sem	ester		III		
Course Objectives:					
To explain basic concept					
	n analyzing consumer and busines				
	n pricing strategies and promotion				
	analytics tools and techniques using				
	on demand forecasting tools using				
j e	tools to recommend buying a pro-	duct and place	cing a product		
Course Outcomes (CO): Stude					
Understand various con					
 Implement promotional 	strategies and pricing strategies f	for a product			
Classify and predict typ	e of customers using excel				
Compute customer life	time value for a product of a comp	bany			
_	nmend buying a product and placi				
UNIT – I		Lecture Hr			
	Ianagement: Concepts of mark			nent Marke	ting Mix
	ompetitors, Conducting marketing				
UNIT – II		Lecture Hr		in rojunoj roj	unonsinp.
	Analyzing consumer & Business			practing & I	Docitioning
	ent, Developing pricing strategies				osmoning
UNIT – III	ent, Developing pricing strategies	Lecture Hr	2	ouon	
	xcel : Conjoint analysis , Market			analysis All	ocation of
	equisition and retention, Calculat				
Analysis.	equiption and recention, curcula				oing iti iti
UNIT – IV		Lecture Hr	s:12		
	cel : Modelling trend and season			orks , foreca	sting new
	nodel, Nonlinear pricing - Price bu			····· , ·····	
UNIT – V		Lecture Hr			
Recommendation Systems : C	Classification trees, market baske	t analysis, I	nformation filte	ring system	- Content
based, Collaborative filtering.		5		0,	
Textbooks:					
1. Wayne L.Winston (201	4), Marketing Analytics, Wiley In	dia Private L	.td.		
	Paul Farris, Ronald T.Wilcox (201			g Analytics, l	Pearson.
Reference Books:				•	
	ael J.A.Berry (2017), Data Mining	Techniques	for marketing,	Sales and Cu	istomer
	ent, Wiley India Private Ltd.	1	6,		
	Rangaswamy and Arnaud De Bru	yn (2013), P	rinciples of Ma	rketing Engi	neering,
	ed by DecisionPro, Inc.		I	0 0	U,
· .) Business Analytics, Wiley India	Private Ltd.			
Online Learning Resources:					
http://www.personal.psu.edu/jxl	b14/MA/Introduction.pdf				
	60-TDH-945/images/definitive-g	uide-to-mark	eting-metrics-n	narketing-and	alytics.pdf
	/blog/docs/ebooks/introduction-to			U	- 1
	nel/UCgp23vdLNaUitOkCxxVnR			20analytocs	
	/edition/Marketing_Analytics/w5i				
nalytics+pdf&printsec=frontcov	ver				



Course Code	Financial Analytics	L	Т	Р	С
21E04304		4	0	0	4
	Semester		III		
• To explain co	oncept of financial analytics and investments				
-	owledge on securities trading and settlement mecha	nism			
	procept of mutual fund, trends and stock market ind				
	owledge on derivatives and role of derivatives in Ir		nomv		
	ormation on charts and graphs to predict the share v		nomj		
	ols and techniques for predicting market price of a				
Course Outcomes (CO): Student will be able to				
Understa	nd concept of financial analytics and investments				
	knowledge on securities trading and settlement mec				
	concept of mutual fund , trends and stock market i				
	f on derivatives and role of derivatives in Indian eco				
	rate and practice charts and graphs to predict the sh		e		
	in predicting market price of a share using indicate		11 10		
UNIT – I		Lecture	e Hrs: 12		
	ncial and investment analytics:	-		~	
	ortance of financial analytics-Introduction to Invest				
Ū.	res of Investment, Investment Avenues - Securitie	es Marke	et of India	– Se	curities
	ent – Types of Orders - Margin Trading.				
UNIT – II		Lecture	e Hrs: 12		
Performance Evaluation	ation:				
Mutual Funds, Types	s of Mutual Funds Schemes, Structure, Trends in l	Indian M	lutual Fun	ds,Ne	t Asset
	to AMFI - Brief Induction to Indian Stock Market I				
Bank Nifty (Theory O	Only)				
UNIT – III		Lecture	e Hrs:12		
IntroductiontoDeriv	atives:DevelopmentandGrowthofDerivativeMarke	ts,BriefI	ntroduction	ntoFo	orward-
Futures-Options- C	ption types, Uses of Derivatives, Derivative market	s - M	CX-FORE	EX–I	VDEX-
	leofDerivativesMarketinIndia-(Theory only)				
UNIT – IV		Lecture	e Hrs:12		
Technical Analysis	1: Chart Patterns Candle Stick reading using	g open s	source we	bsites	trading
view/money control :					
	Chart Screen- loading charts from trading view/ M				
	- hammer - reversal patterns- Low-Close Doji (LC				
	angles, and Pennants- M tops- W Bottoms- Stoc			rmino	ologies-
	TargetPrice–Stop Loss- – Carry forward trading – I	1			
UNIT – V			e Hrs: 08		
-	2: Indices and Technical Indicators using trading vi		•		
	Fips for using indicators-Set up, understanding, use				
	Pivot Levels – super trends- MACD- Rain bow		ata only) ·	- Sca	lping –
Textbooks:	ositional Trading – Retail Trader -FII -DIIin stock r	narket			
		1.0 1	<u>a 1 · -</u>		
0	e Stock Market: High Probability Market Timing an	nd Stock	Selection	ools	by
	on Wiley trading Inalysis and portfolio management, Chandra, Tata N	McGraw	H:11		
2. investment P	marysis and portrono management, Chandra, Tata r	MOTAW			



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Reference Books:

- Investment, Bodie, McGraw Hill Book Company
- Investment Management, V.K.Balla, S.Chand Company LtdSecurity Analysis andPortfolio Management, PunithavathyPandian, Vikas

Online Learning Resources:

https://josephscollege.ac.in/lms/Uploads/pdf/material/IAPM.pdf

https://www.ugc.ac.in/pdfnews/5897894_Bachelor-of-Business-Administration--_Financial-Investment-.pdf

http://www.csun.edu/~zz1802/Finance%20303/Web-Stuff/Lecture-Notes-Mid1.pdf

https://leeds-faculty.colorado.edu/Bhagat/Evaluating-MFunds.pdf

https://redox-college.s3.ap-south-1.amazonaws.com/kmc/2020/Apr/18/K7QYwjlultBb0xge1tM4.pdf https://www2.karlin.mff.cuni.cz/~kopa/derivatives.pdf

http://www.caaa.in/Image/05_derivatives.pdf

https://icmai.in/Knowledge-Bank/upload/Financial-Derivatives.pdf

https://www.stat.purdue.edu/~wang913/Projects%20and%20Talks/Technical%20Analysis%201.pdf https://srcc.edu/sites/default/files/B.Com(Hons)_IIIyearVIsem_FundamentalsofInvestments_Week2_Dr KanuJain.pdf

https://www.fidelity.com/bin-public/060_www_fidelity_com/documents/learning-center/Idenitfying-Chart-Patterns.pdf

https://www.elearnmarkets.com/uploads/content_pdf/MxudjQevBU.pdf

https://ifta.org/wp-content/uploads/2018/05/technicalhandbook_2018_NTAA.pdf

https://zerodha.com/varsity/wp-content/uploads/2015/05/module2.2.pdf



Course Code	Human Capital Analytics	L	Т	Р	С
21E04305		4	0	0	4
	Semester		I	II	
Course Objective					
	basic concepts in human resource management and role of HR r	nanag	ger		
	knowledge on HR analytics, HR data sources				
	models for predicting effectiveness of HRM system importance of HR analytics and scope of big data in HR				
	ate methods of performance appraisal system				
	and demonstrate dashboard creation on HR data in Excel				
	a (CO): Student will be able to				
	d concepts in human resource management and role of HR management	TOP			
	owledge on HR analytics, HR data sources	gei			
	models for predicting effectiveness of HRM system				
	methods of performance appraisal system				
	ills in creating dashboard on HR data in Excel				
UNIT – I		Lect	ure I	Irs: 8	
	ning of HR and HRM, Objectives of HRM, Nature & Scope of				
of HRM and Funct		111(1)	1, 515	,iiiiic	unee
UNIT – II		Lect	ure H	Irs: 1	2
Motivation for stu	dying HR analytics, emergence of HR analytics, skills require	e for	HR 4	Analy	tics,
Advantages of HR	Analytics, Making the Best use of HR Analytics, Challenges to	HR A	Analy	sts	
UNIT – III		Lect	ure I	Irs:12	2
	nd sources: Importance of data availability and governance,				
	data secondary sources, HRMS/HRIS and data sources; Analyti				
LAMP, HCM:21 N					
	s, pitfalls of HR Analytics, Future of HR Analytics, The scope	e of t	ig da	ita in	HR
Analytics			-		
UNIT – IV		Lect	ure I	Irs:12	2
Annual Stock takin	ng: Stock taking of performance -Uses –Appraisal system design	: Pro	cess		
and approaches - A	Appraisal methods - MBO and Assessment centre -360 degree app	oraisa	1 -		
Balanced score can	d. Stock taking of potential- Appraisal for reward - Appraisal for				
Recognition					
UNIT – V		Lect	ure I	Irs:12	2
Important excel for	rmulas useful for creating dash boards, VLOOKUP, INDEX, SU	MIF,	AVE	ERAC	JEIF
and COUNTIF, A	pplication of Excel Functions in creating HR dash boards, calcu	ulatio	n of	empl	oyee
salary and Incentiv	/es.				
Textbooks:					
	cCabe, Duckworth, and Alwan. "The Practice of Business Statist	ics: U	sing	Data	for
	', Second Edition, New York: W.H.Freeman, 2008.	_	0		
	nz, John R. Mattox, II, "Predictive analytics for Human Resourc	es" , '	Wiley	/	
Publication	· · · · · · · · · · · · · · · · · · ·	,	-		
	e Boyce Byerly, Jac Fitz-enz, "Human Capital Analytics", Wiley	y			
Publication					
Reference Books:					
	Iark A. Huselid, Mark A Huselid, David Ulrich, "The HR Scorec	ard: I	Linki	ng	
	nd Performance", Harvard Business Review Press; First edition				01.



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Tracey Smith, "HR Analytics: The What, Why and How". Jac FITZ-ENZ "The New HR Analytics: Predicting the Economic Value of Your Company's Human", 2010.

Online Learning Resources:

https://www.oracle.com/assets/045039.pdf

https://www.aihr.com/resources/The_Basic_principles_of_People_Analytics.pdf http://u.camdemy.com/sysdata/doc/f/b30e8a98c5d9a85/pdf.pdf https://support.sas.com/publishing/pubcat/chaps/65636.pdf



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Course Code 21E00307a	General Elective- II (MOOCS)	L 2	<u>Т</u> 0	P 0	<u>C</u> 2
21E00507a	Entrepreneurship Development	2			
	Semester		I	II	
Course Objectiv	2021				
, v	te in preparation of business plan, contents and effective presentat	ion of	busi	necc	
plan.	te in preparation of business plan, contents and effective presentat		Uusi	ness	
•	re and Generate new business opportunity,				
	in and discuss strategies for Decisions under Uncertainty and envir	onme	ent in	stabi	litv
	uction strategies, Market scope strategy & Imitation strategies				
	te on Women entrepreneurship focusing on Rural Entrepreneurshi	p and			
	neurship Development Programmes (EDPs) to transform as entrep				
	es (CO): Student will be able to				
	e new business ventures with new creative business plan models,	conte	ents a	and	
	presentation of business plan.				
	various strategies for decisions under different scenarios to reduce	e risk.			
	challenges faced by Women entrepreneurship focusing on Rural E			rs	
	e need of Entrepreneurship Development Programmes (EDPs) to t				
	eur with case studies.				
UNIT – I		Lect	ure I	Hrs: 4	r
Entrepreneur.		Lect	ure I	Irs. 6	
UNIT – II				Hrs: 6	
	g and Feasibility Studies: The Concept of Project, Project Lif		cle -	Proj	ect
Planning, Feasibi	lity – Project proposal & preparation of DPR (detailed project repo	ort).			
UNIT – III		Lect	ure I	Hrs:6	
	Entrepreneurship: Idea generation – opportunities - SWOT Ana				and
	lectual Property Rights. Source of Capital, Debt capital, seed capi				
	ies In financing entrepreneurs, Technology and business incubator		ciitui	e cup	nui
UNIT – IV			ure I	Hrs:6	
	Strategy: Generation of new business opportunity, Decisions u				itv
-	vironmental instability - Risk Reduction strategies, Market scope				•
strategies			5, -		
UNIT – V		Lect	ure I	Hrs:6	
	Rural Entrepreneurship and EDPs: Scope-Challenges fa	aced		won	nen
		ases	of	won	
•	eed, Rural Industrialization – Role of NGO's – Organising EDPs –				
*	repreneurship Development Programmes.			-	
Textbooks:					
•	namics of Entrepreneurial Development and Management, Vasantl	n Des	ai,		
Himala					
2 Entropy	provision Dovelopment & Small Rusiness Enterprises Second Ed	lition	Doc	rnim	0

 Entrepreneurship Development & Small Business Enterprises – Second Edition, Poornima M.Charantimath, Pearson



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Reference Books:

- Entrepreneurial Development, S. Chand and Company Limited, S.S. Khanka, .
- Fundamentals of Entrepreneurship, H. Nandan, PHI.
- Entrepreneurship, 6/e, Robert D Hisrich, Michael P Peters, Dean A Shepherd, TMH.
- Entrepreneurship New venture Creation, Holt, PHI.
- Entrepreseurship- Successfully Launching New Ventures, Barringer, Ireland, Pearson.
- Entrepreneurship, Roy, Oxford.

Online Learning Resources:

https://www.tutorialspoint.com/entrepreneurship_development

https://swayam.gov.in ----Entrepreneurship Development

https://leverageedu.com/blog/entrepreneurship-development



Course Code	General Elective- II (MOOCS)	L	Т	Р	С		
21E00307b	PROJECT MANAGEMENT	2	0	0	2		
	Semester		1	II			
Course Objectiv	es:						
	in communication concepts						
	op the students' competence in communication at an advanced lev	el.					
	onstrate communication skills viz., listening, speaking, reading		l wri	ting	with		
teaching	aids.			-			
Course Outcom	es (CO): Student will be able to						
Understa	nd the communication concepts and						
	communication and competence skills						
Obtain a	nd apply proficiency in business communication at the workpla	ace ar	nd pro	ofessi	onal		
contexts.							
UNIT – I		Lec	ture I	Hrs: 4			
• •	ement: meaning of project, project management, nature of	proje	cts ,	proj	ect		
management syst	em, project life cycle, project management process.						
		т	. T	T			
UNIT – II				<u>Irs: 6</u>			
	: types of analysis -technical analysis, economic analysis, f	inanc	ial a	nalysi	ıs,		
sensitivity analys	is, social analysis, institutional analysis						
UNIT – III		Lag	tura I	Hrs:6			
	em and processor for project implementation: working of						
system project	work system design, work breakdown structure, project execu-	syste	allan Man	proj	inct		
procedure manua		uon j	Лап	, pro	jeci		
UNIT – IV		Lec	ture I	Irs:6			
	nagement: Concept of risk, five stage process in risk management				26		
	gement – an integrated approach Project risk analysis and management				N 5 ,		
-							
UNIT – V			ture I				
Monitoring and	control: meaning of project monitoring , activities to monitor:	proje	ect co	ontrol	, the		
	ol, post evaluation approach: project benfit monitoring and e						
	ing and evaluation, project benfit monitoring methods :PBM me	thods	-PBN	/I rep	orts		
ě	activities-project completion-impact evaluation						
Textbooks:							
1. Project n	nanagement: vasant desai,Himalaya publishing house,edition 2008	•					
Reference Book	3:						
1. Project n	nanagement: jack gido, penna state university, edition 2007.						
2. Project n ltd.	nanagement : s. chowdary publishers,copyrights1998,by mcgraw h	ill ed	ucatio	on pv	t		
3. Project n ltd 2009.	nanagement : jeffie k .pinto ,Indian edition ,published by dorling K	linder	sley	india	pvt		
4. Project p	lanning scheduling & control: james p.lewis, tata mcgraw hill ed	ducat	ion p	vt			
	edition 2009		ion p	· c			



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

https://archive.nptel.ac.in/project management

https://aims.education/project-management-lecture-notes

https://www.coursera.org/courses?query/project management



Course Code 21E00307c	General Elective- II (MOOCS) BUSINESS ETHICS AND CORPORATE	L 2	Т 0	Р 0	C 2
212000070	GOVERNANCE	-	Ŭ	Ŭ	_
	Semester		Ι	II	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					
Course Objective		1		1	
	uce concept of business ethics, corporate ethics, theories, models	and a	ppro	aches	for
	naking and ethics in competitive business.				
	n role of ethics in business competition.				
	lear on ethical aspects in various functional areas in the organizat knowledge on Corporate Governance, structure, theories, philoso				
-	Social Responsibility (CSR).	pmes	and		
	(CO): Student will be able to				
	d concepts of business ethics, corporate ethics, theories, models a	nd ar	nroa	ches	for
	haking and ethics in competitive business.	ind up	prou	enes	101
	the role of ethics in business competition.				
	apply ethical aspects in various functional areas in the corporate	busin	ess.		
	porate Governance, structure, theories, philosophies and Corpora				
	ility (CSR).				
Classify th	e stakeholders in CSR and correlate CSR with ethical aspects of	busin	ess.		
UNIT – I		Lect	ture I	Hrs: 4	
Business Ethics:-	Ethics meaning, need, scope, nature, importance, functions, n	eed a	nd p	urpos	se of
business ethics, ap	proaches to business ethics, source of ethical knowledge for bu	siness	s. Ev	olutio	on of
	en popular myths about business ethics, ethical dilemmas ,	code	of c	ondu	ct in
	jor unethical business practices.				
UNIT – II				Hrs: 6	
	:- Ethical approaches, modern decision making, ten amendmen				
	heory of consequentialism, Right Albert Carr's theory of busines				
	duties(rules); Concept of Justice – Types of justice ; Indian Eth				
	tadvaita Philosophy (Ramanuja), Gandhian Ethics, Ethics of Bh	agava	at git	ha, N	loral
standards in Indian	i Ethics.	T		I (
UNIT - III				Hrs:6	
	n Organization:- Ethics issues in marketing and advertisemer				
	nting, Ethical issues in HRM, Production and operations manage				
	ating frauds, Cyber crime, Whistle blowing., professional ethics				
	and types of business companies, Josephson's six Pillars of Cha	racte	r and	Bus	ness
Decision making, UNIT - IV		Loc	turo I	Hrs:6	
	mance:- Purpose- Theories and Philosophies of Corporate G				
	d purpose of corporate governance, Theories of corporate gov				
	nce codes and practices.	cinan	CC, 1	mer	pies,
	the ecodes and practices.	n Trei	nd in		
corporate governal		5 110	iu iii		
corporate governa					
UNIT - V		Lect	ture I	Hrs:6	
	Social Responsibility):- Needs, types and nature of social respon				
· -	propriate governance in India, Salient features, Structure and Stan				•
	a, Models of corporate governance			1.21	'
governance in Indi	a, Models of corporate governance				



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Textbooks:

1. Business Ethics and Corporate Governance –A.C. Fernando, PearsonEducation.

Reference Books:

- "Perspectives in Business Ethics", Laura P Hartman, Tata McGrawHill.
- Ethics in management and Indian Ethos, Biswanath Ghosh, Vikas
- Bob Tricker, Corporate Governance, Oxford.
- Corporate Governance and Social responsibility, Balachandran, Chandrasekharan, PHI
- Business Ethics -Concepts and Cases, Weiss, Cengage.
- Business Ethics, Himalaya, C.S.V.Murthy.
- Ethical Management, Satish Modh, Mcmillan.

Online Learning Resources:

https://ddceutkal.ac.in/Syllabus/BECG-MBA.pdf https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SBAA1503.pdf https://www.bimkadapa.in/materials/BECG%20-5-UNITS-PDF.pdf https://www.augstskola.lv/upload/CSR%20book_FINAL_01.2020.pdf https://www.himpub.com/documents/Chapter2975.pdf https://www.icsi.edu/media/webmodules/publications/EGAS-Final.pdf



Course Code	Business Simulation Lab	L	Т	Р	С
21E00308		0	0	2	1
	Semester		L	II	
Carrier Ohio dia					
• To expos	se the students to learn various online/ offline gathering of the data				
	stand various statistical tools including Excel				
	he students to visualize using various tools including Excel				
	them into their functional domains Marketing, Finance and HR				
	stand the basic data base system of MS Access				
	es (CO): Student will be able to				
To famil	iarize Students with basic to intermediate data gathering skills for	using	vario	ous to	ols
To provi	de students hands on experience on various statistical Utilities				
To gain p	proficiency in creating solutions for Data Management and Report				
UNIT – I		Lect	ure I	Irs: 4	
	ata (Using Online/Offline)		_	_	
	r of Marketing/HR/revenant management stream – gathering prin				
•	ta into excel – sorting and filtering the required shape – Colleti	0		tering	g the
	Financial data/ balance sheets/stock data/ mutual fund data/Insuran			Inc. C	
UNIT – II Statistical Analy	// ///////////////////////////////////	Leci	ure r	Irs: 6	
•	(ypothesis - Statistical Calculation of Uni Variable - Bi Variable –	Multi	vari	ahle _	_
interpretation of	• •	wiun	van	aute -	-
UNIT – III		Loci	ure I	Ira.6	
	Data (Using Excel/Power Bi/ Tableau Public/Other Open Sour				n
tools)	Data (Using Excertower Dir Tableau Tuble/Other Open Sour		Suan	Zatio	11
Introduction Cha	arts-Rules for Creating Charts- Labels- Title of the chart- Axis of	the cł	nart-	Quick	κ.
Layout- switch to	row to column -changing the data – different types charts				
UNIT – IV			ure I		
	ion : Data base creation in HR,FINANCE & MARKETING , Crea	•			
	a – Create models using marketing data – Creating HR Data base	– crea	te m	odel f	or
	ations of NPV, IRR	.		x (
UNIT – V			ure H		
	MS-Access & SPSS: Overview of MS Access – getting started – ribbon – creating data base. Overview of SPSS- Data entry and an				/
features of SPSS		a1y818	5 — 1116	a111	
Textbooks:					
1. Gly	n Davis & Branko Pecar "Business Statistics Using Excel" Oxford	l Univ	versit	y Pres	ss.
Reference Book	S:				
David V	Whigham "Business Data Analysis Using Excel" Oxford Universit	y Pre	ss.		
Winstic	n "Excel 2010 Data Analysis and Business Modelling" PHI Learn	ing Pi	rivate	,	
Limited	· · ·	U			
• Baipai '	'Business Statistics" Pearson.				
••	te : Statistical Tools for Managers USING MS EXCEL, Excel Boo	ks.			
Online Learning	g Resources:				



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https://www.coursera.org/courses?query=microsoftexcel https://onlinecourses.nptel.ac.in https://swayam.in/Advanced-excel https://swayam.in/spss-lectures



Course Code	Experimental Learning Project		Т	Р	С
21E04309			0	2	1
	Semester		Ι	II	
intellectual expert team of maximu work / social primaintain a port acquisition or c presentation bet	rning project is a multifaceted assignment that serves as a g rience. Students are required to take up a mini project work, in wh m four students can choose any specific problem of Industry / In oblem that interests them. Student or team need to conduct rese folio of findings or results, create a final product demonstra- onclusions (as a paper, short film, or multimedia presentation fore the Project Review Committee consisting of Head of or and two other senior faculty members of the department	hich the dustry earch of ating), and	he stu / base on th their l give	ident ed pro e sub lear e an	or a oject oject, rning oral



Course Code		L	Т	Р	С
21E04401	Big data Analytics	4	0	0	4
21E04401	Comostor	IV	U	U	4
	Semester	1 V			
Course Object					
Course Object					
·	lain big data futures and classification of analytics				
	art knowledge on analytics flow for big data and big data stack				
	tidate big data tool using Hadoop				
	uss security related aspects in big data				
	blain various application areas of big data				
	mes (CO): Student will be able to				
	tand big data futures and classification of analytics				
	e knowledge on analytics flow for big data and big data stack				
	big data tool using Hadoop				
	of security related aspects in big data				
	he various application areas of big data	.			
UNIT - I			ure Hr		
	Big Data: What is Analytics- Descriptive Analytics, Diagnostic	•			
	criptive Analytics. What is Big Data- Characteristics of Big Data	ı- Volu	me, Ve	locity,	
Variety, Verac	ty, Value.				
UNIT - II			ure Hr		
	and big data stack: Analytics Flow for Big Data- Data Collection				
	, Analysis Modes, Visualizations, Big Data Stack- Raw Data Sou				
	ta Storage, Batch Analytics, Real-time Analytics, Interactive Qu	erying	, Servin	g Data	bases,
	zation Frameworks	-			
UNIT - III			ure Hr		
	oop: NoSQL, Comparison of SQL and NoSQL, Hadoop -RDBM				
	nputing Challenges – Hadoop Overview - Hadoop Distributed F				
	oop - Managing Resources and Applications with HadoopYARN	- Inter	acting v	with Ha	adoop
Ecosystem					
UNIT - IV			ure Hr		
	Data:Security, compliance, auditing, and protection pragmatic st				
classifying data	- protecting big data analytics- big data and compliance-the intel	lectua	l proper	ty chal	lenge
UNIT - V		Lect	ure Hr	s·08	
	cations: Business Specification Examples of Big Data- Financial				nternet
	ronment, Logistics & Transportation, Industry, Retail.	, 1100,	mann	care, n	nernet
Textbooks:	Tonnicht, Eogistics & Transportation, maastry, Retail.				
	Rajaraman and Jeffrey David Ullman, "Mining of Massive Datas	ets" (ambrid	σe	
	sity Press, 2012.	015 , C	amoria	ge	
	Loshin, "Big Data Analytics: From Strategic Planning to Enterpr	ico Inte	aration	with T	
	ques, NoSQL, and Graph", Morgan Kaufmann/El sevier Publishe		•		0015,
	J. Ohlhorst, "Big data analytics Training Big Data in to big mone			liching	house
	nal, preetisaxena, "Big Data analytics", Tata Mcgraw hill publish	-		nsinng	nouse
Reference Boo		ing no	use		
	Education Services, "Data Science and Big Data Analytics: Disco	vorino	Analy	zina	
	zing and Presenting Data", Wiley publishers, 2015.	vering	, miary	zing,	
		Joto S.	ionco	nd	
ito A no	nesens, "Analytics in a Big Data World: The Essential Guide to E		lence a	na	
	ications", Wiley Publishers, 2015.				
3. Dietma					



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

Kim H. Pries and Robert Dunnigan, "Big Data Analytics: A Practical Guide for Managers " CRC Press, 2015.

Jimmy Lin and Chris Dyer, "Data-Intensive Text Processing with MapReduce", Synthesis Lectures on Human Language Technologies, Vol. 3, No. 1, Pages 1-177, Morgan Claypool publishers. Online Learning Resources: https://mrcet.com/downloads/digital_notes/IT/(R17A0528)%20BIG%20DATA%20ANALYTICS.pdf https://people.cs.kuleuven.be/~joost.vennekens/DN/bigdata.pdf https://www.diag.uniroma1.it//~rosati/dmds-1516/big-data-intro.pdf https://www.studocu.com/in/document/apj-abdul-kalam-technological-university/big-dataanalytics/big-data-analytics-module-3/29363497 https://www.coursehero.com/file/56423140/BDA-Unit-2-Notespdf/

https://www-users.cse.umn.edu/~kumar001/dmbook/ch8.pdf

https://www.studocu.com/in/document/apj-abdul-kalam-technological-university/big-dataanalytics/big-data-analytics-module-2/29363495

https://www.studocu.com/in/document/tata-institute-of-social-sciences/big-data-analysis/unit-5-beyond-the-syll/11465888

https://pdfs.semanticscholar.org/51a9/e6e87e5760b04438c44ace999546b3446e61.pdf



Course Code	Supply Chain Analytics	L	Т	Р	С
21E04402		4	0	0	4
	Semester		Ι	V	
Course Objectives:					
	concept of supply chain management, supply chain planning				
-	knowledge role of analytics in supply chain			ار سر ما	
• To infuse th forecasting	eoretical knowledge on supply chain strategies, its development	nt and	aem	and	
	core components of supply chain analytics and types of supply	chain	anal	vtice	
	n knowledge on metrics and indicators for smooth functioning				
	interrelationship of supply chain and ERP in internet market	or su	pry	Jiiaiii	
	(CO): Student will be able to				
	concept of supply chain management, supply chain planning				
	wledge role of analytics in supply chain				
	cal knowledge on supply chain strategies, its development and			orecas	sting
	components of supply chain analytics and types of supply chair	anal	ytics		
	trics and indicators for smooth functioning of supply chain				
	terrelationship of supply chain and ERP in internet market	•		<u> </u>	
UNIT - I				<u>Irs:12</u>	
	pply Chain Management, Evolution of Supply Chain Management		nt, A	nalyt	ics in
Supply Chain Mana	gement, Supply Chain Planning, Different views of Supply Cha	un.			
UNIT - II		Lect	ure I	Irs:12	2
Supply Chain Strat	egy, Supply Chain Drivers, Developing Supply Chain Strate	gy, S	trateg	gic Fi	it in
Supply Chain, Dema	and Forecasting in Supply Chain.				
UNIT - III		Lect	ure I	Irs:10)
Defining Supply Ch	nain Analytics - A simple definition, The Three Core Compon	ents c	of Su	pply (Chain
Analytics, How Sup	ply Chain Analytics Works, What Makes for Good Analytics, 7	Гурез	of A	nalyt	ics.
UNIT - IV		Lect	ure I	Irs:10)
	Supply Chain Analytics - Big Data in the Supply Chain, Look				
	anding the Basics of Metrics and KPIs - Strategic G	oals,	Two) Str	ategic
Considerations.					
UNIT - V				<u>Irs:12</u>	
	procurement – E-Logistics – Internet Auctions – E-markets –	Elect	ronic	Busi	iness
	ion Business Object in SCM				
Textbooks:	7. Robertson, "Supply Chain Analytics: Using Data to Optimise	Supr	1.7		
	rocesses", Taylor & Francis publisher	Supp	ny		
1	rocesses, Taylor & Francis publisher				
Reference Books:					
Online Learning F	Kesources:				
https://www.tutorial	spoint.com/supply_chain_management/supply_chain_manager	nent_	tutor	al.pd	f
· ·	e.com/watch?v=PmR2SKeY9Ms&list=PLGit8yny_3ANzZMsJ nnel=SupplyChainAnalytics	IJjeux	Mg-		
https://www.ddegjus	st.ac.in/2017/Uploads/11/POM-326.pdf				
https://onlinecourses	s.nptel.ac.in/noc22_mg14/preview				



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

Course Code	Project Work	L	Т	Р	С
21E04403		0	0	20	10
Semester		IV			

Students are required to take up a project work, in which the student can choose any specific problem of Industry or Industry based project work. Alternatively it can be secondary source based or Field based project work. Before the commencement of the project work each student is required to submit a synopsis indicating the objectives, Methodology, Framework for analysis, Action plan with milestones in order to have clarity for the subsequent work. The project should have an internal faculty as guide. The student shall initiate project work immediately after II semester and evaluation shall take place in IV semester

References:

Business Essentials: Research Project, Viva.

- Paul Oliver:Writing Your Thesis, Sage.
- M.K.Rampal&S.L.Gupta: Project Report Writing, Paragon International.
- Michael Jay Polonsky: David S Waller: Designing and Managing a Research Project, Sage.
- Surendra Kumar: An Aid to Project Work, Paragon International.