

MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

		SEMESTER – I					
S .	Course	Course Name	Category	Hou	rs pei	· week	Cred
No.	codes			L	Т	Р	ts
1	21E00101	Management & Organizational Behavior	CC	4	0	0	4
2	21E00102	Business Environnent & 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	Data Management Systems/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 – I

SEMESTER – II

S.No.	Course	Course Name	Category	He	ours per	r week	Credi
	codes			L	Т	Р	ts
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.	21E01202	R- Programming	CC	4	0	0	4
7.	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		2 6	1	2	28



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS SEMESTER – III

S.No	Course	Course Name	Category	Hou	irs pe	r week	Cred
	codes			L	Т	Р	its
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
	21E00307a 21E00307b 21E00307c	General Elective – II Entrepreneurship Development Project Management Business Ethics & Corporate Governance	GE	2	0	0	2
8	21E00308	Business Simulation Lab	LC	0	0	2	1
9	21E00309	Experiential Learning Project	PR	0	0	2	1
		TOTAL		2	0	4	28

SEMESTER - IV

S.No.	Course	Course Name	Category	Hour	s per	week	Cred
	codes			L	Т	Р	its
1.	21E04401	Big Data Analytics	SC	4	0	0	4
2.	21E04402	Supply Chain Analytics	SC	4	0	0	4
3.	21E05401	Project Work	PR	0	0	20	10
		TOTAL		8	0	20	18



Course Code		L	Т	P	С
21E00101	MANAGEMENT & ORGANIZATIONAL BEHAVIOUR	4	0	0	4
	Semester			Ι	
Course Objective					
	t basic conceptual knowledge on Management theories and Practic				
	re higher productivity and accomplishing the goals of the organizat	ion.			
	s (CO): Student will be able to				
	nd concepts, theories and practices	_		_	
	eoretical knowledge in managing the organization and Know				
	s at individual, group and organisational levels at work pla	ce ı	under	diffe	erent
leadership	o styles.				
UNIT - I				Hrs:	
	nent – Concept – Significance – Functions – Principles of Manage entific – Behavioural – Systems – Contingency.	emei	nt - l	Pattern	ns of
UNIT - II		Le	cture	Hrs:	12
	& Controlling – Process – Techniques. Planning – Process – Prob				
	lling - System of Controlling – Controlling Techniques – M				
Effective.			-		-
UNIT - III		Lee	cture	Hrs:1	2
	iour & Motivation – Understanding Individual Behaviour – Perce	•			0
	s - Johari window- Transactional Analysis- Motivation- Conce		of M	otivati	on -
	pries of Maslow, Herzberg, David McClelland, and Porter and Law				_
UNIT - IV	Les les lie Des fits of Courses Trans of Courses Cou			Hrs:1	
	& Leadership: Benefits of Groups – Types of Groups – Gro adership and Organizational Culture and Climate: Leadership				
	– Transactional Vs Transformational Leadership – Qualities of go				
Leadership in Ind	· · · ·	001	cuuc	1 110	men
UNIT - V		Lee	cture	Hrs:1	2
Organisational B	ehaviour-Organizing Process – Departmentation Types – M	Iaki	ng (Drgani	zing
	sational culture- Types of culture - Organisational Culture Vs Org	ganis	ation	nal clin	nate
	ement -Change Management.				
Textbooks:					
	of Management, Koonz, Weihrich and Aryasri, Tata McGraw Hill	•			
-	tional Behaviour: Design, Structure and Culture, Gupta, Willey	:	[T		
3. Managem	nent and Organisational Behaviour, Subbarao P, Himalaya Publish	ing i	Hous	e	
	inisational Behaviour, S.S.Khanka, S.Chand				
	nisational Behaviour, Stephen P. Robbins, Pearson Education				
-	nisational Behaviour, Mishra .M.N, Vikas				
U	gement and Organisational behaviour, Pierce Gordner, Cengage.				
5. Behav	viour in Organizations, Hiriyappa .B.New Age Publications				
Ũ	nisational Behaviour, Sarma, Jaico Publications.				
	iples of Management ,Murugesan ,Laxmi Publications				
Online Learning	Kesources:				



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

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



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	BUSINESS ENVIRONMENT & LAW	L	Т	P	С
21E00102		4	0	0	4
	Semester			Ι	
Course Objective			d 1		
	uce business environment and various business environment factor business that have major repercussions on business enlighten.	's an	a law	'S	
	n and update the changes that occur constantly in the sphere of bus	aina	an an	viron	mont
and laws		since		vii Oin	nem
	s (CO): Student will be able to				
	he knowledge on business policies and environment factors to car	rvoi	it a b	usine	ss.
-	nd the various laws relating to business activities	5			
	and plan business effectively and efficiently in the light of infor	rmat	ion c	on vai	rious
	policies and laws.	Inter	ion e	ii va	1045
UNIT - I		Ιe	cture	Hrs:	8
	Business Environment:-Meaning, Components of Business Envi	-			-
	beralization, Privatization and Globalization.	l OIII	nent.	maa	<i>f</i> ti itai
UNIT - II		Le	cture	Hrs:	12
Monetary, Fiscal	and Trade Policy: Monetary& Fiscal Policy -, EXIM Policy, Ro	ole o	f EX	IM E	ank.
Balance of Payme	ents: WTO: Role and functions of WTO in promoting world trac	le –]	FRIP	S, TR	IMS
and GATS, - Dun	nping and Anti-dumping measures.				
UNIT - III		Lee	cture	Hrs:1	2
	Need, classification and sources of Business Law, Law of Contr				
	et and essential elements of a valid Contract, Offer and Acceptanc			f Con	tract
	Consideration, Capacity to Contract and free consent, Legality of th			TT 1	
UNIT - IV	1956 (Part-I): Kinds of Companies, Formulation of Compan			Hrs:1	
	nents. Company Act, 1956 (Part-II): Company Management, D			-	
	ions, Auditors, Modes of Winding-up of a company.	nce	1015,	Com	pany
UNIT - V	ions, riddiors, friddes of frihang up of a company.	Le	cture	Hrs:1	2
	nology Act, 2000: Scope and Application of ITAct, 2000- D				
	lties and adjudication, cyber regulations appellate, tribunals, dut				
Right to Informat	ion Act,2005 –GST Act 2017.				
Textbooks:					
1. Essentials	of Business Environment, K.Aswathappa, Himalaya publishers.				
2. Economic	c Environment of Business, 7th Edition, Ahuja H.L. S.chand				
	le Law- Garg, Sareen, Sharma, Chawla, Kalyani publishers.				
Reference Books					
	onomy, Dutt and Sundaram, S. Chand, New Delhi.				
	Environment – Text and Cases, Justin Paul, TMH.				
	onomy- Misra and Puri, Himalaya.				
	pects of Business, Ravinder Kumar, Cengage.				
	l of Business Laws, S.N.Maheshwari& Maheshwari, Himalaya.				
	law for management, K.R.Bulchandani-Himalaya Publishing.				
 Business 	law R S N Pillai Bhagayathi S Chand				

• Business law, R.S.N Pillai, Bhagavathi, S.Chand



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Online Learning Resources:

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	Т	Р	С
21E00103		4	0	0	4
	Semester			Ι	
Course Objectives:					
	cision making skills at all levels of management				_
	nagerial theories, behavioural theories and optimization method	is to	r effe	ective	and
	tioning of firms.		. 1 !	_	
-	ncept of demand, techniques to forecast demand and productio	n an	alysi	8	
considering tiTo introduce	market structures and price strategies applicable under different	ont 1	main	000	
	various products.		Jusin	688	
	CO): Student will be able to				
	ne relationship of Managerial economics with other functional	area	s		
	hniques and methods to predict the demand scientifically.	ureu			
	duction levels and analyse the relationship of Cost-Volume Pro	fit			
•			F tha		
• Take morne under differer	ed decisions on price fixation under different market structur	es o	me	econ	omy
	it scenario.	т			
UNIT - I	gerial Economics: Definition, Nature and Scope, Relationship			Hrs:	
	on Management, Marketing, Finance and Personnel, Operation				
	phonomist. Objectives of the firm: Managerial theories of firm, B				
	techniques, New management tools of optimization.	cna v	iour		51105
UNIT - II		Leo	ture	Hrs:	12
	Demand Analysis – Law of Demand - Elasticity of demand, typ				
	nd. Demand estimation – Marketing research approaches to c				
	ecasting, forecasting techniques.				
UNIT - III		Leo	cture	Hrs:1	2
Production Analysis:	Production function, Isoquants and Isocosts, Production func-	ction	with	n one	/two
variables, Cobb-Doug	glas Production Function, Returns to Scale and Returns to Fac	tors,	Eco	nomie	es of
-	- cost-output relationship in the short run and long run, Ave	erage	cos	t curv	ves -
Break Even Analysis.		-			
UNIT - IV				Hrs:1	
	Pricing practices: Features and Types of different competitive				
	in Perfect competition, Monopoly, Monopolistic competiti				
	Pricing methods in practice: Price discrimination, product li pricing, penetration pricing, Loss Leader pricing. Pricing of mu	-			•
UNIT - V	prenig, penetration prenig, Loss Leader prenig. Frieng of hit		-	Hrs:1	
	s Cycles:-Definition and meaning-characteristics of Inflation-				
	Anti-Inflationary methods - Definition and characteristics of				
	cle - steps to avoid business cycle				
Textbooks:					
	conomics, Dwivedi D.N. Vikas Publishers				
6	conomics, Gupta, TMH				
Reference Books:					
	Economics, Pearson Education, James L.Pappas and Engenel	- F Bri	ohan	n	
I. Ivianagerial	Economico, reason Education, James E.I appas and Eligener	ווע.	Snan	Lat.	



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- 2. Managerial Economics, Suma Damodaran, Oxford.
- 3. Macro Economics by MN Jhingan-Oxford
- 4. Managerial Economics- Dr.DM.Mithani-Himalaya Publishers
- 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	EINANCIAL ACCOUNTING FOR MANACERS	L	Т	P	С
21E00104	FINANCIAL ACCOUNTING FOR MANAGERS	4	0	0	4
	Semester			Ι	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					
Course Objective			<u> </u>		1
	uce accounting, accounting rules, accounting process and prepara	tion	of fi	nancia	ıl
statement					
	n methods of valuation of assets, e the meaning and interpretation of financial statements through m	rotio	onal	voio	
technique		ano	allal	y515	
	s (CO): Student will be able to				
	e financial statements with accounting knowledge				
-	assets of the business organizations under different methods				
	-				4 4la a
•	the financial performance and position of the business organization	on ai	na in	terpre	t the
	m the point of company and investor				
UNIT - I				Hrs:	•
	ccounting: Definition, Importance, Objectives and principles of				
	book keeping Vs Accounting, Single entry and Double entry system	ns, c	lassi	ficatio	on of
	f debit & credit. (Only theory)	T.		Hrs:	10
UNIT - II	Process: Overview, Books of Original Record; Journal and Subsic				
	inal accounts: Trading accounts- Profit & loss accounts- Ba				
	blems on Only Final Accounts)	tianc	.0 51	icets	witti
UNIT - III	Senis on only I mar Accounts)	Lo	oturo	Hrs:1	2
	ets: Introduction to Depreciation- Methods (Simple problems				
	ning balance method and Annuity method). Inventory Valuat			ethod	
	n (Simple problems from LIFO, FIFO).	.1011.	101	emou	5 01
UNIT - IV		Le	cture	Hrs:1	2
	s -I Analysis and interpretation of financial statements from inv	esto	r and	l com	pany
	uidity, leverage, solvency and profitability ratios – Du Pont Char				
Ratio Analysis).					-
UNIT - V				Hrs:1	
-	s-II: Objectives of fund flow statement - Steps in preparation of fu				
	h flow statement- Steps in Preparation of Cash flow statement -				Cash
flow and Funds flo	ow statements - Funds flow statement Vs Cash flow statement. (C	nly	theor	y).	
Textbooks:					
1. Financial	Accounting, Dr.S.N. Maheshwari and Dr.S.K. Maheshwari,	Vik	as l	Publis	hing
House Pv	t. Ltd.,				
2. Accountat	ncy .M P Gupta & Agarwal ,S.Chand				
Reference Books					
	Accounting ,P.C.Tulisan ,S.Chand				
	Accounting for Business Managers, Asish K. Bhattacharyya, PHI		-	-	
	Accounting Management An Analytical Perspective, Ambris	sh C	Jupta	, Pea	irson
Education					
	ng and Financial Management, Thukaram Rao, New Age Internation	onals	S .		
	Accounting Reporting & Analysis, Stice&Stice, Thomson				
6. Accountir	ng for Management, Vijaya Kumar, TMH				



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- 7. Accounting for Managers, Made Gowda, Himalaya
- 8. Accounting for Management ,N.P.Srinivasan, &M.ShakthivelMurugan, S.Chand

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



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	STATISTICS FOR MANAGERS	L	Т	Р	С
21E00105		4	0	0	4
	Semester			Ι	
Course Objectiv	0.01				
	n descriptive statistics and inferential statistics				
	uce various measurements used to describe the data and inter the	resu	lts of	the d	ata
analysis.					
	tibe the concept of probability, theorems, and types of probability c	listr	ibutic	ons of	
data.					
To impar	t the computational, analytical and interpretation skills using the da	ita			
	s (CO): Student will be able to				
• Understan	nd statistical techniques popularly used to describe the data in n	nana	geria	l deci	sio
making.					
• Know th	e procedure involved in inferential statistics and appropriate tests for	or gi	iven o	lata.	
• Learn the	computational skill, interpretation of results of the data analysis.				
Analyse a	and differentiate various types of data distribution and its probabilit	y di	stribu	ition.	
UNIT - I		Le	cture	Hrs:	12
Introduction of s	tatistics - Nature & Significance of Statistics to Business, , M	leası	ares (of Ce	ntra
	- Median - Mode ; Measures of Dispersion: range, quartil	e d	eviati	on, n	near
	d deviation, coefficient of variation.	•			
UNIT - II				Hrs:	
	egression : Introduction, Significance and types of correlation				
	efficient of correlation. Regression analysis – Meaning and un				
	rison between correlation and regression – Properties of regression	1 CO	effici	ents-F	(an
Correlation.		Ιo	ctura	Hrs:1	2
	eaning and definition of probability – Significance of proba				
	eory of probability: Addition and multiplication – Binominal dis				
	mal distribution.	50110	ution	101	550
UNIT - IV		Le	cture	Hrs:1	2
Testing of Hypo	thesis- Hypothesis testing: One sample and Two sample tes	ts f	for n	neans	and
	ge samples (z-test), One sample and Two sample tests for means of	of sn	nall s	ample	es (t
	Yest : One-way and two way ANOVA .				
UNIT - V				Hrs:	
	Methods: Importance of Non-Parametric method – difference b		-		
	tic methods; Chi-square test : Test of Goodness of fit - test for	or In	idepe	ndenc	e o
	est: One sample and paired samples data.				
Textbooks:					
	Methods, Gupta S.P., S.Chand.Publications				
	Statistics, J.K.Sharma, Vikas house publications house Pvt Ltd				
Reference Books					
	for Management, Richard I Levin, David S.Rubin, Pearson,				
-	Business Statistics, Amir D. Aezel, Jayavel, TMH,				
	for Management, P.N.Arora, S.Arora, S.Chand				
4. Statistics	for Management ,Lerin, Pearson Company, New Delhi.				

5. Business Statistics for Contemporary decision making, Black Ken, New age publishers.



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

6. Business Statistics, Gupta S.C & Indra Gupta, Himalaya Publishing House, Mumbai

Online Learning Resources:

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/



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code		L	Т	Р	С
21E00106	MANAGEMENT INFORMATION SYSTEMS	4	0	0	4
	Semester			Ι	
Course Objective					
	e the basic concepts of data and Management Information System	n and	utili	ity of	the
	the managerial decisions.				
	in Management of Information system, MIS design and implement	ation	n pro	cess	in
an organi			4		
	s security, ethical and social issues in management of Information s (CO): Student will be able to	n sys	tem.		
	anagement of Information system scope, application and challe	naac	in	mana	aina
MIS.	anagement of miormation system scope, application and chance	nges	111	mana	ging
			1	1.1.	
	nd traditional and modern approaches for data resource managemer				. ·
	product based and process based cost and benefit to implement an	d ma	unta	ın Ml	S 11
an organi	zation.				
UNIT - I				Hrs:	
	/- Introduction, Need for MIS and IT nature and scope of MIS, N	IIS c	chara	cteris	tics,
	role of MIS in global business. Challenges of Managing MIS.	Ŧ			10
UNIT - II	The fact have a second to The fact the second se			Hrs:	
	nagement- Data base concepts, The traditional approaches, the r			рргоа	cnes
UNIT - III	ement approaches) DBMS, Data models, Data ware housing and m			Hrs:1	2
	ion of IS- Enterprise systems, ERP, CRM, SCM, DSS, Types of c				
	es, Decision making and Role of MIS, Business intelligence				
management syste		, un	. 11		cage
UNIT - IV		Lec	ture	Hrs:1	2
Management of	IS- Project planning, SDLC, System development models, Pro	oject	mai	nagen	nent,
system analysis, s	ystem design, Implementation process, Product based MIS evalua	tion,	Cos	t /Be	nefit
	Process based calculation, System maintenance				
UNIT - V				Hrs:1	
-	&Social Issues : IS security threats, Protecting IS,IS Security	Tech	nolo	gies,	The
	plan, IS Ethical Issues, social issues.				
Textbooks:					
	nagerial Perspective, D.P.Goyal, Vikas Publications.	_			
•	ent Information Systems Text & Cases, W S Jawadekar, Tata McC	braw	-Hill	•	
Reference Books					
U	ent Information Systems, C Laudon and Jane P.Laudon, et al, Pear	son l	Educ	ation	
	ssein Bidgoli, Nilanjan Chattopadhyay, Cengage Learning				
	tion to Information Systems, Rainer, Turban, Potter, WILEY-India	•			
-	nent Information Systems, James A. Obrein, Tata McGraw-Hill .				
	MIS, Mahapartra, PHI.			ма	
	ent Information Systems, Gordon B. Davis & Margrethe H.Olso	on, I	ata	MCG	raw-
Hill .	Desources				
Online Learning	Resources:				

13



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

https://onlinecourses.nptel.ac.in/noc20_mg60/preview https://nptel.ac.in/courses/110/105/110105148/ https://onlinecourses.swayam2.ac.in/cec21_ge05/preview



Course Code	SKILL ORIENTED COURSE	L	Т	Р	С
21E00107	BUSINESS COMMUNICATION PRACTICE	0	1	2	2
	Semester			Ι	
Course Objectives					
	communication concepts				
	the students' competence in communication at an advanced level				
	strate communication skills viz., listening, speaking, reading	and	wri	ting	with
teaching ai					
	(CO): Student will be able to				
	the communication concepts and				
	ommunication and competence skills		1	·	1
	apply proficiency in business communication at the workplace	e an	a pro	DIESSI	onal
contexts.		Lac		Hrs:	0
	nunication – Significance, Scope – Communication Process –				
	Channels of Communication –Organisation Structure -				
	Upward, Downward, Horizontal Communication.	1 011	11a1,	mio	1111.01
UNIT - II	opward, Downward, Honzontar Communication.	Leo	ture	Hrs:	10
	nication: Verbal – Oral Communication: Advantages and Li				
	Vritten Communication – Characteristics, Advantages & Limit				
	ign language – Body language – Kinesics – Proxemics – Hepatics				
UNIT - III	8889988			Hrs:8	2
	mmunication: Communication Styles, Managing Motivati				
	munication – Role of emotion in Inter personal Communication –				
UNIT - IV		Lec	ture	Hrs:8	3
Barriers of Comm	nunication: Types of barriers - Technological - Socio-Psycho	ologi	cal 1	barrie	rs –
	rs, Types of listening.	-			
UNIT - V				Hrs:8	
Report writing – 1	Formal reports - Writing effective letters - Different types of	bus	siness	s lette	ers -
Interview technique	es – Communication etiquettes.				
Textbooks:					
	Communication: A Practical Approach, Naik, Willey				
	Communication, C.S.Rayudu, HPH.				
	Communication, Meenakshi Raman, Oxford University Press.				
Reference Books:					
	ommunication, Shalini Varma, Vikas.				
	Communication, Raymond V.Lesikar, Neeraja Pandit et al.,TMH				
	Communications, Hudson, Jaico Publications				
	ommunication for managers, Penrose, Raspbery, Myers, Cengage		Na	1214	
	Communication, Harward Business School, Harward Business Rev	view	10.1	1214.	
6. Essentials Online Learning I	of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand				
	es.swayam2.ac.in/imb19_mg14/preview				
	es.swayam2.ac.m/mo19_mg14/preview ee.swayam.gov.in/dyp20_d02_s1_hs01/preview				
nups.//onnie-degre	c.swayani.gov.ni/uyp20_u02_s1_lis01/pieview				



	INFORMATION TECHNOLOGY LAB	L	Т	Р	C
21E00108		0	1	2	2
	Semester			Ι	
Course Objecti	ves:				
	ide knowledge on applications of information technology and				
	onstrate the MS Office applications with hands on experience in t	he la	b.		
 To expla 	in and exhibit statistical functions of association, testing hypot	thesi	s for	the d	ata
	alyse and interpret the outcome of the data.				
Course Outcom					
	and edit the documents with effective presentation to superiors.				
	ands of experience in designing and editing the templates and da	ata ir	the	excel	
	ith formulae and functions.		1 0		
	and interpret the business data outcome statistically in an effective	ve ar	id eff	icien	t
manner. List of Experim	ents				
Unit -1	CH15.				
	Hardware Component: (need to explain using images or vid	leos)	Var	ious 1	Input
	nd their usage in corporate world- Memories (RAM/ROM) and				
	es- Storage devices Internal vs External				
Unit 2	-				
	Operating System (need to explain using videos) - over				
	Ubuntu - Linux- various versions of Android- IoS - Captu	iring	GP	S ena	ahlad
	•		-		abiet
•	or filesharing to Mobile to Mobile- System to Mobile		01		autec
Unit – 3	or filesharing to Mobile to Mobile- System to Mobile	C			
Unit – 3 MS WORD I -	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage	e of 1	Font	-Text	tbox∙
Unit – 3 MS WORD I- equations -line s	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v	e of 1	Font	-Text	tbox∙
Unit – 3 MS WORD I- equations -line s indent- print pre	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage	e of 1	Font	-Text	tbox-
Unit – 3 MS WORD I - equations -line s indent- print pre Unit -4	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys	e of 1 water	Font marl	-Text c-mar	tbox- gins-
Unit – 3 MS WORD I - equations -line s indent- print pre Unit -4 MS WORD – I	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tab	e of 1 water	Font marl	-Text c-mar	tbox- gins-
Unit – 3 MS WORD I - equations -line s indent- print pre Unit -4 MS WORD – I	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys	e of 1 water	Font marl	-Text c-mar	tbox- gins-
Unit – 3 MS WORD I - equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tab	e of l water	Font marl - lette	-Text k-mar	tbox- gins- iting-
Unit – 3 MS WORD I - equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tab ver point -preparation of company presentation –	e of 1 water ole -	Font marl	-Text c-mar er wri	tbox- gins- iting- point
Unit – 3 MS WORD I - equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proof	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tak ver point -preparation of company presentation – nt-Creation of slides-Use of templates and slide designs for creation	e of 1 water ole -	Font marl	-Text c-mar er wri	tbox- gins- iting- point
Unit – 3 MS WORD I - equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proo References:	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tak ver point -preparation of company presentation – nt -Creation of slides-Use of templates and slide designs for creation rawings and graphics. Developing a Professional presentation – hucts. Power point shortcut keys	e of] water ole - eating on E	Font marl	-Text c-mar er wri	tbox- gins- iting- point
Unit – 3 MS WORD I- equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proo References: • Cox et a	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tak ver point -preparation of company presentation – nt -Creation of slides-Use of templates and slide designs for cre rawings and graphics. Developing a Professional presentation ducts. Power point shortcut keys	e of] water ole - eating on E	Font mark - lette g pc Busin	-Text c-mar er wri ower j ess P	tbox- gins- iting- point
Unit – 3 MS WORD I- equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proo References: Cox et a David W	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tak ver point -preparation of company presentation – nt -Creation of slides-Use of templates and slide designs for creation rawings and graphics. Developing a Professional presentation – hucts. Power point shortcut keys	e of] water ole - eating on E	Font mark - lette g pc Busin	-Text c-mar er wri ower j ess P	tbox- gins- iting- point
Unit – 3 MS WORD I- equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proo References: • Cox et a • David W Press.	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- — page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tab ver point -preparation of company presentation – nt-Creation of slides-Use of templates and slide designs for creating rawings and graphics. Developing a Professional presentation ducts. Power point shortcut keys II- 2007 Microsoft Office System Step-by- Step, First Edition, PH //higam-Business Data Analysis Using Excel, First Edition, Oxford	e of] water ole - eating on E	Font mark - lette g pc Busin	-Text c-mar er wri ower j ess P	tbox- gins- iting- point
Unit – 3 MS WORD I- equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proc References: • Cox et a • David W Press. • Alexister	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tak ver point -preparation of company presentation – nt -Creation of slides-Use of templates and slide designs for cre rawings and graphics. Developing a Professional presentation ducts. Power point shortcut keys II- 2007 Microsoft Office System Step-by- Step, First Edition, PH /higam-Business Data Analysis Using Excel, First Edition, Oxford on, TMH, 2008, Enterprise resource planning.	e of] water ole - eating on E	Font mark - lette g pc Busin	-Text c-mar er wri ower j ess P	tbox- gins- iting- point
Unit – 3 MS WORD I- equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proc References: • Cox et a • David W Press. • Alexisle	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- — page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tab ver point -preparation of company presentation – nt-Creation of slides-Use of templates and slide designs for creating rawings and graphics. Developing a Professional presentation ducts. Power point shortcut keys II- 2007 Microsoft Office System Step-by- Step, First Edition, PH //higam-Business Data Analysis Using Excel, First Edition, Oxford	e of] water ole - eating on E	Font mark - lette g pc Busin	-Text c-mar er wri ower j ess P	tbox- gins- iting- point
Unit – 3 MS WORD I- equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proo References: Cox et a David W Press. Alexisle The Oxf	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tab ver point -preparation of company presentation – nt-Creation of slides-Use of templates and slide designs for cre rawings and graphics. Developing a Professional presentation ducts. Power point shortcut keys II- 2007 Microsoft Office System Step-by- Step, First Edition, PH /higam-Business Data Analysis Using Excel, First Edition, Oxford on, TMH, 2008, Enterprise resource planning. ord Hand Book of Internet studies, William.H.Dulton, Oxford.	e of] water ole - eating on E	Font mark - lette g pc Busin	-Text c-mar er wri ower j ess P	tbox- gins- iting- point
Unit – 3 MS WORD I- equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proo References: • Cox et a • David W Press. • Alexisle • The Oxf	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- — page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tab ver point -preparation of company presentation – nt-Creation of slides-Use of templates and slide designs for cre rawings and graphics. Developing a Professional presentation ducts. Power point shortcut keys II- 2007 Microsoft Office System Step-by- Step, First Edition, PH //higam-Business Data Analysis Using Excel, First Edition, Oxford on, TMH, 2008, Enterprise resource planning. ford Hand Book of Internet studies, William.H.Dulton, Oxford.	e of] water ole - eating on E	Font mark - lette g pc Busin	-Text c-mar er wri ower j ess P	tbox- gins- iting- point
Unit – 3 MS WORD I- equations -line s indent- print pre Unit -4 MS WORD – I overview of pow Unit – 5 MS Power Poin slides- use of d Institutions, Proc References: • Cox et a • David W Press. • Alexisle • The Oxf Online learning a	or filesharing to Mobile to Mobile- System to Mobile Over views of various Ribbons- paste special- formatting- usage spacing – bullets- – page layouts-styles- header and footers – v view-split -views- keyboard shortcut keys IMail Merge- Macros- Designing a company letter pad- Time tab ver point -preparation of company presentation – nt-Creation of slides-Use of templates and slide designs for cre rawings and graphics. Developing a Professional presentation ducts. Power point shortcut keys II- 2007 Microsoft Office System Step-by- Step, First Edition, PH /higam-Business Data Analysis Using Excel, First Edition, Oxford on, TMH, 2008, Enterprise resource planning. ord Hand Book of Internet studies, William.H.Dulton, Oxford.	e of] water ole - eating on E	Font mark - lette g pc Busin	-Text c-mar er wri ower j ess P	tbox- gins- iting- point



Course Code	ECONOMETRICS FOR BUSINESS FORECASTING	L	Т	P	С
21E04201		4	0	0	4
	Semester			II	
Course Objective	s:				
 To explain 	n econometrics and application areas of econometrics in real worl	d			
	nowledge on predicting techniques appropriate for the business d				
To demon	strate the procedure of hypothesis testing using regression with re	eal d	ata.		
	s types of regression models and functional forms applicable for				
 To impart 	t knowledge on time series and index numbers.				
Course Outcomes	s (CO): Student will be able to				
Understan	d concept of econometrics and need and application in real wor	ld			
Learn diff	erent predicting techniques and functional forms applicable to the	e giv	en da	ata.	
	vledge on testing hypothesis procedure and interpretation.				
 Know diff 	Ferent types of regression models applicable for different types of	dat	a var	iables	
	and compute the different index values and issues involved in co	nstru	iction	n of a	nd
	ndex numbers.				
UNIT - I				Hrs:1	2
	oduction – meaning ,scope and importance of Econometrics –Me				
	oplication areas of Econometrics; Specification: Meaning – Speci	ficat	ion E	Bias -	
<u> </u>	sion, Sample Regression, Error Term.	r			
UNIT - II		-		Hrs:	
	egression Model: Simple Linear Regression Model (SLRM) –A				
	imation - Ordinary Least Squares Estimation: Point Estimation of				
	eters; Goodness of Fit – Coefficient of Determination (R^2) -				
	ng the individual Regression Parameters - Testing the significant	ce of	\mathbf{R}^2 .	(prob	lems
only).		r —			
UNIT - III				Hrs:1	
	Regression Model: Multiple Regression Models – Assumptions				
	mptions (In brief only) - Model with two independent variables				
L	retation of MLR equations- Goodness of Fit - Coefficient of D				R²) -
	ent of Determination; Hypothesis testing in MLR model (Proble				
UNIT - IV		-		Hrs:1	
	Econometrics : Introduction to Dummy Variables – Qualitative				
	Features of Logit model - Estimation of logit for Individual d				del -
	rast logit and probit models - Application areas of logit and prob				
UNIT - V				Hrs:0	
	ting: Introduction to Time series –Components of Time series				
	bes of index number - Unweighted and Weighted Index; Av				
Textbooks:	y and Value Indices; Issues in Constructing and Using Index Nun	nbers	s(Cas	e stud	ly).
	N. Gujarati, Basic Econometrics, 3rd Edition, 1995, Mcgraw-Hil	1			
	5 A A A	1.			
	ENDERS, " Applied Econometric Time Series ", Wiley India. ivia, Azhar Iqbal, "Econometrics and business forecasting" Wiley	201	1		
S. John E.Sh Reference Books:		201	+		
	an, Ramu, "Introductory Econometrics With Applications", 4t	h F	lition	Haro	ourt
College Pu	• • •	II LA	ntion	TIALC	ourt
	ndick, Econometric Models and Economic forecasts, 4th Editio	n I	Daara	one	
Z. KOUCH PY	nuick, Econometric mouels and Economic forecasts, 4 Euluo	, I	cars	0115	



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Online Learning Resources:

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	OPERATIONS RESEARCH	L	Т	Р	С
21E00205		4	0	0	4
	Semester	-	-	II	-
Course Objective	S:				
To provid	e the basic knowledge about Operation Research, importance, a	ppli	catior	1 area	s of
	s research and various optimizing techniques in the business oper	· ·			
• To impart	different optimization models under typical situations in the bus	ines	s orga	nizati	ion.
•	e different game strategies under cut-throat competitive business		•		
	n optimization tools in solving the management problems thro				and
	nematical approach.	C		U	
Course Outcomes	s (CO): Student will be able to				
	d nature, scope and significance of Operation Research and formu	ilatio	n of	oiven	
	roblem in a LPP model and solving methods.	inun	11 01	Siven	
	erent optimizing solutions for various business problems using ap	prop	riate		
	techniques.	1 1			
Acquire th	e skills to complete a project effectively and efficiently with in th	e giv	en re	esourc	es.
UNIT - I				Hrs:1	
Introduction to C	DR: Meaning, Nature, Scope & Significance of OR - Typic	ral a	annlia	ration	s of
	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				
UNIT - II		Lee	cture	Hrs:1	2
Transportation Pro	oblem: Introduction, Transportation Model, Finding initial basic	fea	sible	soluti	ons.
	optimality, Unbalanced Transportation problems, Transportation				
maximization, Deg			•		
Assignment Prob	lem - Introduction, Mathematical formulation of the problem	m, S	Soluti	on of	f an
Assignment probl	em, Hungarian Algorithm, Multiple Solution, Unbalanced Ass	ignn	nent	proble	ems,
Maximization in A	ssignment Model.	1			
UNIT - III				Hrs:1	
1 0	sequencing, Johnsons Algorithm for n Jobs and Two machines	, n J	obs a	and T	hree
-	hrough m machines, Two jobs and m Machines Problems.	-			0
UNIT - IV				Hrs:1	
•	ncepts, Definitions and Terminology, Two Person Zero Sum Ga				•••
	Ile Point), Principal of Dominance, Mixed Strategy Games (Ga e of Game Theory in Managerial Application.	me	witho	out Sa	dale
UNIT - V	e of Game Theory in Managerial Application.	Ιq	otura	Hrs:1	2
	ent: Network Analysis – Definition –objectives -Rules for con				
• •	ning Critical Path – Earliest & Latest Times – Floats - Applie		-		
	n Project Planning and Control – PERT Vs CPM. (exclude Project				und
Textbooks:				0/	
	s Research / R.Pannerselvam, PHI Publications.				
-	s Research / S.D.Sharma-Kedarnath				
3. Operation	s Research /A.M.Natarajan,P.Balasubramani,A. Tamilarasi/Pears	on E	duca	tion.	
Reference Books:					



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- 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	C
21E04203		4	0	0	4
	Semester]	I	
Course Objectiv	/es:				
	e the student to understand the roles & responsibilities of Business	Ana	lyst	and	
Data Sci	entist in business,				
 To expla 	in the basic concept of data management and data mining techniqu	les, r	nach	ine	
learning					
	possible for the application of business analytics in various business	ss ar	eas.		
Course Outcom	es (CO): Student will be able to				
	siness analytics career opportunities in business analytics				
	nd data, big data and the way to manage the data in the organisation				
Gain kno	wledge on data visualisation, classification, evaluation and interpre-	etatio	n		
 Know data 	ta mining, multidimensional data analysis and concepts of associat	ion a	naly	sis ar	ıd
cluster a					
	nowledge on machine learning, artificial Intelligence and Framewo	orks	for b	uildiı	ıg
	Learning Systems.				
UNIT - I				Hrs:	
Data Engineer va	That is business analytics? Historical Overview of data analysis, less Business Analyst, Career in Business Analytics, What is data so tions for data science, Data Scientists Roles and Responsibility				
UNIT - II		Leo	cture	Hrs:	
Classification D	ata quality, Dealing with missing or incomplete data, Data Vi ata Science Project Life Cycle: Business Requirement, Data A pothesis and Modeling, Evaluation and Interpretation, Deploym	Acqu	isitic	on, D	ata
UNIT - III		Leo	cture	Hrs:	
Introduction to	Data Mining: The origins of Data Mining, Data Mining Tasks, OL	AP	and		
	l data analysis, Basic concept of Association Analysis and Cluster				
UNIT - IV		-		Hrs:	
Introduction to	Machine Learning: History and Evolution, AI Evolution, S	tatist	ics	Vs D)ata
Mining Vs, Da	ta Analytics Vs, Data Science, Supervised Learning, Unsupe	ervise	ed L	earni	ng,
Reinforcement L	earning, Frameworks for building Machine Learning Systems	-			
UNIT - V				Hrs:	
	Business Analysis: Retail Analytics, Marketing Analytics, Fin	anci	al A	nalyt	ics,
	tics, Supply Chain Analytics				
Textbooks:					
	Business Analytics: An Introduction to the methodology and its app	licati	on,		
	Pochiraju, Sridhar Seshadri, Springer				
	o Machine Learning with Python: A Guide for Data Scientists 1st E	Editio	on, by	У	
	er, Sarah Guido, O'Reilly				
	Data Science, Laura Igual Santi Seguí, Springer.				
Reference Book					
	Data Mining, Pang-Ning Tan, Michael Steinbach, Vipin Kumar, F	'ears	on		
Education India					



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

2. An Introduction to Business Analytics, Ger Koole, Lulu.com, 2019

Online Learning Resources:

https://nptel.ac.in/courses/110/105/110105089/ https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-mg24/ https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-mg11/



Course Code	BUSINESS RESEARCH METHODS	T.	Т	Р	С
21E00204	DUSHVESS RESEARCH WE THODS	4	0	0	4
211200204	Semester	-	-	U I	-
	Semester				
Course Objective	s:				
ř	uce business research, types and technology used in business resea	arch.			
	in detail on research process involved in business research.				
	sources of data and instruments to collect data				
• To provide	e knowledge on analysis and interpretation of outcome of the data	in a	scien	tific	
way.					
•	e knowledge on descriptive and inferential statistical analysis.				
	competence skills to undertake business research problem and ca	arryo	ut sc	ientif	ïc
research.	1 I	2			
*Standard Statis	tical tables shall be allowed in the examination				
	s (CO): Student will be able to				
Learn type	es of business research, technology used in business research in te	chnol	logic	al era	ι.
Identify re	search problem, appropriate research design and sample design for	r the	prob	olem,	
formulate	hypothesis, testing process of hypothesis.		-		
Understan	d sources of data, instruments to collect data, analyse and interpre	tatio	n of c	lata.	
	d present the research report effectively and efficiently.				
UNIT - I		Lec	ture]	Hrs:C	8
Introduction to B	Business Research: Definition-Types of Business Research. Scient	ntific	Inve	estiga	tion,
Technology and E	Business Research: Information needs of Business - Technologie	s use	ed in	Bus	iness
	ernet, E-mail, Browsers and Websites. Role of Business Resea				
Decisions.				C	
UNIT - II		Lec	ture]	Hrs:1	2
The Research Pr	ocess: Problem Identification: Broad Problem Area-Prelimina	ry D	ata (Gathe	ring.
	- Hypothesis Development - Statement of Hypothesis- Proceed				
	esearch Design: Types of Research Designs: Exploratory, Descrip				
Designs and Case	Study -Measurement of Variables- Operational Definitions and S	cales	s-Noi	mina	l and
Ordinal Scales- R	ating Scales- Ranking Scales- Reliability and Validity - Sampli	ng ai	nd M	letho	ds of
sampling		-			
UNIT - III		Lec	ture]	Hrs:1	2
Collection and A	nalysis of Data Sources of Data-Primary and Secondary Sources	ces c	of Da	ita -	Data
Collection Method	ds- Interviews: Structured Interviews and Unstructured Interview	ews-	Obse	ervat	ional
Surveys: Question	onnaire Construction: Organizing Questions- Structured	and	Uns	struct	ured
Questionnaires - C	Guidelines for Construction of Questionnaires.				
UNIT - IV		Lec	ture]	Hrs:1	2
Data Preparation	and Analysis: Data preparation process, problems in preparation	ation	proc	cess	- An
overview of Descr	iptive, Associational and Inferential- Statistical Measures.		-		
UNIT - V		Lec	ture]	Hrs:1	2
The Research H	Report: Research Reports-Components-The Title Page-Table	of	Con	tents	-The
	ry-The Introductory Section-The Body of the Report-The Final				
	s - References-Appendix - Guidelines for Preparing a Good Res				
Presentation.			1		
Textbooks:					
	rch Methodology – methods & Techniques, C.R. Kothari, Vishwa	prak	asha	n.	
	rch Methods for Business–A Skill Building Approach, Uma Seka	-			y &
	33				-



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- Sons (Asia) Pvt. Ltd, Singapore.
- 3. Research Methodology(Concepts and cases) Deepak Chawla NeenaSondhi-Vikas 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	•	v	II	•
	Senester				
Course Objective					
	n overview of data warehousing and data mining				
0	1 data sets, major tasks in data pre-processing				
	basic concepts of data warehousing and On-line Analytical	1 Process	sina		
	te on data base structures, multidimensional data structures			Nota Data	
	analysing skills on context of data warehouse		cepts of w	Teta Data.	
_	a procedure of getting data into the data warehouse.				
	s (CO): Student will be able to				
	d data warehousing and data mining concepts				
	a sets, statistical descriptions of data, tasks in pre-processin	a of date	`		
	vledge on data warehouse modelling and On-line Analytical			0	
			•		
	ata base structures, multidimensional data structures and lea	arn conc	epts of Mo		
Apply pro UNIT - I	cedure of getting data into the data warehouse	Lastur	e Hrs:10		
	instad data mining Ita importance. Maaning of data mini			franctional	ting what
Introduction: Mot	ivated data mining -Its importance – Meaning of data mini can be mined? are all of the patterns interesting? Classif	ng- Da	a mining	ining aust	lites, what
					ems, data
UNIT - II	ives, integration of a data mining system with a database or		e Hrs:12	ystem.	
	g: Types of data sets and attribute values, basic statistical d			o doto vier	ulization
		·			
	milarity, data quality, major tasks in data preprocessing, da	ata redu	ction, data	a transform	lation and
UNIT - III	n, data cleaning and data integration.	Lastar	e Hrs:12		
	and On Line Analytical Drassesing, Data Warshouse, Das				
	g and On-Line Analytical Processing: Data Warehouse- Bas		·		•
	LAP, data warehouse design and usage, data warehouse in				
	induction, efficient methods for data cube computer				
	databases, Data Base Structures – Organizing Relational				
	Choosing a Structure. Meta Data: Human Meta Data, Comp	puter Ba	ised Meta	Data for p	eople and
computer to use. UNIT - IV		Lastar	. II		
	untante of the Date mancheness Active Analysis Hear O		e Hrs:12	Comotine otie	na Data
	ontexts of the Data warehouse: Active Analysis, User Q				
-	n: Stages of the Project – Developing a Project Plan, Data w	varenous	ing Desig	in Approac	nes – The
Architecture Stage	<u>,</u>	Lastar	- II		
UNIT - V	the Determination Francisco Charity Charity		e Hrs:10	·	tion Data
÷	the Data warehouse – Extraction, Transformation, Cleanin	0	•		
	a Decision Tree, Correlation and Other Statistical Analysis	s, Neura	I Network	is, Nearest	Neighbor
<u> </u>	ng the Results to Use.				
Textbooks:		1 7	1 • • • •		7 6
	i Han & Micheline Kamber, "Data Mining – Concepts a	and lec	hniques"	Morgan I	Caufmann
	shers, 2nd Edition, 2006.				
	aret H Dunham, "Data Mining Introductory and advanced to	spics", F	earson ed	ucation	
	Evans "Business Analytics" Pearson, 2 nd Edition, 2017				
Reference Books					
	oster Provost & Tom Faucett "Data Science for Business" S			TT	
2. E	fram G. Mallach: Decision Support Systems and Data wareh	ouse Sys	stems TM	н.	



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- 3. T.H.M.Sivanandam, Data Mining Techniques and Tasks Thomson.
- 4. Richard T Watson :Data Management, Data Bases and Organizations, Wiley.
- 5. Marakas, Modern Data Warehousing, Mining and Visualization Core Concepts Pearson
- 6. 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			
Course Objective	۶ç•				
•	basic knowledge in the area of R-Programming				
	methods to explore, import, export and manipulate data and data	frar	nes.		
	owledge on hypothesis tests for estimating or predicting statistica			S	
Course Outcome	s (CO): Student will be able to				
Know abo	out R programming overview				
 Learn how 	v to programme In R for data analysis				
	nd concepts and terminology used in R-programming				
	emonstrate the procedure to explore ,import, export and manipulat				
	late hypothesis and testing of hypothesis for predicting models usi	ng F	legre	ssion	and
	stical tools for the given data.	-			
UNIT - I				Hrs:1	
R Programming, Managing.	Overview and History of R, Getting Help, R Packages: Load	ling,	Inst	alling	and
UNIT - II		Le	cture	Hrs:1	0
Data Definition &	Control Structures, Data definition types, constants, variables, R	data	types	s and	
objects, Reading a	and writing data.		• •		
UNIT - III		Le	cture	Hrs:1	2
Expressions: Arith	metic, Logical, Precedence rules Control Structures: Sequencing,	Inpu	it and	l outp	ut
statements, Assign	nment statement, Control Structures: Selection, Repetition, Combi	nati	on, Fi	unctic	ons,
<u> </u>	loop functions, Flow Control				
UNIT - IV		-		Hrs:	-
	vith R, Import, export and manipulate data and data frames, Statist	ical	sumn	naries	of
continuous and ca	tegorical data.				
UNIT - V		Ιe	cture	Hrs:	12
	and simple regression models, Linear models like ANOVA, linear				
• 1	neralized linear models, Basic graphics & reports of statistical ana	0		ii uiiu	
Textbooks:			-		
	k. Beginning R: the statistical programming language. John Wiley	& \$	Sons.	2012	
	ohn Mount, and Jim Porzak. Practical data science with R. Mannin			_	
Reference Books		0.			
	dley, and Garrett Grolemund. "R for Data Science": Import,	Ti	dv. 7	Transf	form
	Model Data. " O'Reilly Media, Inc.", 2016.	,	,	1	
	an. The art of R programming: A tour of statistical software desig	n. N	lo Sta	rch F	ress.
	r o o o o o o o o o o o o o o o o o o o	,			
2011.					
2011. Online Learning	Resources:				
Online Learning	Resources: ube.com/watch?v=3iSKFCKLUsI				



Course Code	General Elective – I	L	Т	P	С
21E00207a	ADVANCED COMMUNICATION	2	0	0	2
	Semester			II	
Course Objectives:					
	ommunication concepts	1			
	e students' competence in communication at an advanced leve ate communication skills viz., listening, speaking, reading		11/1	ting	with
teaching aids.		anu	wi	ung	with
	(O): Student will be able to				
	e communication concepts and				
	munication and competence skills				
	pply proficiency in business communication at the workpla	ce an	d pr	ofessi	ional
contexts.					
UNIT - I				Hrs:6	-
	al Communication – Effective Listening – Barriers, Steps for				
	- Body Language & Modulation, Informative, Persuasion				
	Obstacles, Effective Reading, Reading Comprehension – E	inect	ive	Writi	ng –
UNIT - II	Iaking Methods, Executive Summery.	Loo	turo	Hrs:	6
	Reports: Types of Business Letters – Elements; Types of Re				
	ments; Annual Reports - Technical Proposals – Structure – C				
Memos.		neun	ai b	1,000	
UNIT - III		Lec	ture	Hrs:	3
	Meeting Invitation - Notice - Agenda - Meeting Participant				
	te - Minutes of the Meeting – Documentation – Filing;			,	U
UNIT - IV		Lec	ture	Hrs:	3
	tegies: Conflict Resolution - Win-Win strategy; Manager		lego	tiatio	ns –
	ve, Integrative Strategies; Interviews - Types - purpose - prod				
UNIT - V				Hrs:	
	munication: Conventional Modes Vs Computer based Tech				
	ro Soft & Google Tools – Data – Collection – Organizi	ng –	- Ar	nalyzi	ng -
Presentations using Te	ecnnology.				
Textbooks:			- ~		
	ommunication – Strategies and Applications, Geraldine E.Hyr	ies, N	/IcG1	awH	ίΠ
	munication, C.S.Rayudu, HPH.				
Reference Books:	munication, Meenakshi Raman, Oxford University Press.				
	munication, Shalini Varma, Vikas.				
	imunication, Raymond V.Lesikar, Neeraja Pandit et al., TMH				
	imunications, Hudson, Jaico Publications				
	munication Sehgal, khetarpal, Excel Books				
	nmunication, Harward Business School, Harward Business Re	view	No.	1214.	
6. Communicati	on skills, Sanjay Kumar, Pushpalata, Oxford				
Online Learning Res					
	swayam2.ac.in/imb19_mg14/preview				
https://www.youtube.	com/watch?v=ITHnugowc_Q				



Course Code	General Elective – I	L	Т	P	С
21E00207b	E-BUSINESS	2	0	0	2
	Semester			II	
Course Objective					
	s the concepts and various application issues of e-business and var	rious	sonlı	ne	
	for e-business.				
To explain	n various electronic payment systems.				
	s (CO): Student will be able to				
	d electronic business and related concepts in detail.				
	ecurity threat in e-business and steps, methods to overcome securit			~	
Know var business v	ious electronic payment system and business models in the presen	t tec	nnoio	ogy	
• Know the	e-business infrastructure requirements for e-business.	T.a		ILuga	c
	nucinass - Electronic husiness - Electronic commerce difference			Hrs:	
	business : Electronic business, Electronic commerce, difference ectronic commerce models, types of electronic commerce, value				
	nerce in India, internet, web based tools for electronic commerce				
	ponents of electronic data interchange, electronic data interchange			ome	uata,
UNIT - II	onents of electronic data interenange, electronic data interenange	-		Hrs:	5
	to e- business: Security overview, Electronic commerce th				
	blic key and private key Cryptography digital signatures, digital c				
	blic networks : HTTP, SSL, Firewall as security control, public				
(PKI) For Security		KC.	y 11111	usuu	cture
UNIT - III		Le	cture	Hrs:	5
	nt system : Concept of money, electronic payment systems, ty	ypes	of	electi	onic
	smart cards and electronic payment systems, infrastructure issues				
fund transfer.					
UNIT - IV		Le	cture	Hrs: 4	4
E-business application	ations and strategies : Business models & revenue models over	inte	rnet,	emer	ging
trends in e- busin	esse- governance, digital commerce, mobile commerce, strategie	s fo	r bus	iness	over
	d business models.				
UNIT - V		Le	cture	Hrs:	5
	astructure and e- marketing : Hard works system software in				
managing e-busin	ess applications infrastructure, what is e- marketing, e-marketin	g pl	annir	ig, tao	ctics,
strategies.					
Textbooks:					
	fey :e-business & e-commerce management- Pearson.				
2. E- comme	rce- e-business :Dr.C.S.Rayudu, Himalaya.				
Reference Books					
	David (2000), e-commerce strategy, Technologies and applications				
	Gary P.and Perry, James T(1 ST edition 2000) Electronic commerce	e, T	homs	on	
Learning.					
	mlesh K and Nag, Debjani (1 st edition 1999) ,e- commerce, T	'he c	cuttin	g edg	ge of
huginggo 7	MIL Dublishing company				
	TMH Publishing company				
Online Learning	· · ·				



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

https://www.classcentral.com/course/swayam-e-business-14018

Course Code	General Elective – I	LT	P C
21E00207c	INDUSTRY 4.0 & INNOVATION	2 0	0 2
	Semester	I	I
Course Objectiv			
·	de an overview of industry 4.0 and technology based innovations.		
Ũ	the theory and concepts with Industrial application of computers		
	luce the basic concepts of Industry 4.0, Artificial Intelligence,	Big Data	and
	of Things.		
	iss and demonstrate the applications and tools of Industry 4.0.		
·	art knowledge on innovation types, stages of innovation process, an	d competi	tive
advantag			
	es (CO): Student will be able to		
 Underst 	and the basic concepts of Industry 4.0 and new technologies in	n decisio	n
making			
Outline	the features of Artificial Intelligence and application domains		
Summar	ize the Big data domain stack and Internet of Things		
Identify	the applications and Tools of Industry 4.0		
	nd think innovative ideas based on technology		
	he knowledge in various industries based on technology to ta	ke effecti	ve and
	managerial decision.		
UNIT - I		Lecture	Hrs·6
	ed – Reason for Adopting Industry 4.0 - Definition – Goals a		
Principles -	ed Reason for Raopting Industry 1.0 Definition Cours (,11
	Industry 4.0 – Big Data – Artificial Intelligence (AI) – Industrial	Internet o	fThings
	- Cloud – Augmented Reality – Mixed Reality.	internet o	11111165
UNIT - II		Lecture	Hrs: 6
Artificial Intellig	ence: Artificial Intelligence: Artificial Intelligence (AI) – What &	ż Why? -	History
	ons of AI -The AI - Environment - Societal Influences of AI - App		
and Tools - Asso	ciated Technologies of AI - Future Prospects of AI - Challenges of	AI.	
UNIT - III		Lecture	Hrs: 6
Big Data and IO	T: Data : Terminologies - Big Data Definitions - Essential of Big	Data in Ir	idustry
4.0 - Big Data M	erits and Advantages - Big Data Components : Big Data Character	istics - Bi	g Data
	eworks - Big Data Applications - Big Data Tools - Big Data I		
Platforms; Intern	et of Things (IoT) : Introduction to IoT - Architecture of IoT - 7	Fechnolog	ies for
IoT - Security in	IoT.		
UNIT - IV		Lecture	
	$IoT\ -\ Manufacturing\ -\ Healthcare\ -\ Education\ -\ Aerospace$		
U U	ansportation and Logistics – Impact of Industry 4.0 on Society: Imp		siness,
	pple. Tools for Artificial Intelligence, Big Data and Data Analytics,		
	Augmented Reality, IoT, Robotics.		
UNIT - V		Lecture	
	aning - Stages of Innovation Life cycle – Types of Innovations - 1	Innovatior	1 as a
	l process – Innovation and competitive advantage.		
Textbooks:	a Innovation Der Lee Tild John Dessent 0 stal W7'l I I'	Dalitat	NT
1. Managin	g Innovation -, By Joe Tidd, John Bessant & et.al., Wiley India	Publishe	rs, new



Delhi, Third Edition.
2. Introduction to Industry 4.0 and Industrial Internet of Things by Prof.SudipMisra, IIT Kharagpur.
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



C
2
s,
/
e
ne
Cell
ita-
ew
g a
de,
-
Γ,
es
~3
ne
ey
<i></i>



MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- Ms Office Access- Step by step, PHI publications
- 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