

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	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 – 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.	21E04202	Quantitative Methods for Managers	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 & Applications	CC	4	0	0	4
7.		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	21E00309	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.	21E04402	Project Work	PR	0	0	20	10
		TOTAL		8	0	20	18



Course Code		L	Т	Р	С
21E00101	MANAGEMENT & ORGANIZATIONAL BEHAVIOUR	4	0	0	4
	Semester		-	Ī	•
Course Objectiv	es:				
	t basic conceptual knowledge on Management theories and Practic				
 To achiev 	ve higher productivity and accomplishing the goals of the organizat	ion.			
Course Outcome	s (CO): Student will be able to				
Understan	nd concepts, theories and practices				
 Apply th 	eoretical knowledge in managing the organization and Know	the	beha	aviou	r of
employee	s at individual, group and organisational levels at work pla	ce t	ınder	diffe	erent
leadershij	o styles.				
UNIT - I		Leo	cture	Hrs:	8
Role of Managen	nent - Concept - Significance - Functions - Principles of Manag	emei	nt - P	atteri	ns of
Management: Sci	entific – Behavioural – Systems – Contingency.				
		τ.		T.T	10
UNIT - II Decision Malving	& Controlling – Process – Techniques. Planning – Process – Prol	-		Hrs:	
	lling - System of Controlling – Controlling Techniques – N				
Effective.	ining - System of Controlling – Controlling Techniques – w	lann	ig C	onuo	inng
UNIT - III		Leo	ture	Hrs:1	2
	iour & Motivation –Understanding Individual Behaviour – Perce				
	s – Johari window- Transactional Analysis- Motivation– Conce				
	ories of Maslow, Herzberg, David McClelland, and Porter and Law				
UNIT - IV		Lee		Hrs:1	
	& Leadership: Benefits of Groups - Types of Groups - Gro				
	adership and Organizational Culture and Climate: Leadership				
	– Transactional Vs Transformational Leadership – Qualities of go	od 1	eader	- Wo	men
Leadership in Ind	1a.	т		TT 1	2
UNIT - V	 ehaviour–Organizing Process – Departmentation Types – M			Hrs:1	
	isational culture- Types of culture – Organisational Culture Vs Org				
	ement -Change Management.	sams	ation		mate
Textbooks:					
	of Management, Koonz, Weihrich and Aryasri, Tata McGraw Hill				
	tional Behaviour: Design, Structure and Culture, Gupta, Willey				
3. Managem	nent and Organisational Behaviour, Subbarao P, Himalaya Publish	ing l	House	e	
Reference Books					
	nisational Behaviour ,S.S.Khanka, S.Chand				
	nisational Behaviour, Stephen P. Robbins, Pearson Education				
	nisational Behaviour, Mishra .M.N, Vikas				
	agement and Organisational behaviour, Pierce Gordner, Cengage.				
	viour in Organizations, Hiriyappa .B.New Age Publications nisational Behaviour, Sarma, Jaico Publications.				
	iples of Management, Murugesan, Laxmi Publications				
Online Learning					
Sinne Learning	11050 ut CO51				



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Course Code		L	Т	Р	С
21E00102	BUSINESS ENVIRONMENT & LAW	4	0	0	4
	Semester			Ι	
Course Objectiv			1.1		
	uce business environment and various business environment factor	s 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 bu	aina	0.001	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	rvoi	it a b	usine	SS.
-	nd the various laws relating to business activities	1900		abilite	
	and plan business effectively and efficiently in the light of info	rmat	ion c	n var	ious
	policies and laws.	mai		ii vai	1005
UNIT - I		La	oturo	Hrs:	2
	Business Environment:-Meaning, Components of Business Envi				
	iberalization, Privatization and Globalization.	IOIII	ient	maa	, ii iai
UNIT - II		Lee	cture	Hrs:	12
Monetary, Fiscal	and Trade Policy: Monetary& Fiscal Policy -, EXIM Policy, Ro	ole o	f EX	IM B	ank.
Balance of Payme	ents: WTO: Role and functions of WTO in promoting world trac	le –7	RIP	S, TR	IMS
and GATS, - Dun	nping and Anti-dumping measures.				
UNIT - III				Hrs:1	
	Need, classification and sources of Business Law, Law of Contra				
	ct and essential elements of a valid Contract, Offer and Acceptance			Con	tract
	Consideration, Capacity to Contract and free consent, Legality of th			TT	2
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.	nee	.015,	Com	Juliy
UNIT - V		Lee	cture	Hrs:1	2
Information Tech	nnology Act, 2000: Scope and Application of ITAct, 2000- D				
	lties and adjudication, cyber regulations appellate, tribunals, du				
Right to Informat	ion Act,2005 –GST Act 2017.				
Textbooks:					
1. Essentials	s 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.				
	law, R.S.N Pillai, Bhagavathi, S.Chand				
Online Learning	Resources:				



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Course Code	MANAGERIAL ECONOMICS	Ĺ	T	P	<u>C</u>
21E00103		4	0	0	4
	Semester			I	
Commo Obie -4!					
Course Objectives:					
	cision making skills at all levels of management	la fa		4:	d
	nagerial theories, behavioural theories and optimization method	is to	r ene	ective	and
	tioning of firms. oncept of demand, techniques to forecast demand and productio	n on		0	
considering ti	· · · ·	ii ai	arysi	5	
	market structures and price strategies applicable under differe	ant	husin	ACC	
	various products.	cint	ousin	035	
	CO): Student will be able to				
· · · · · · · · · · · · · · · · · · ·	he relationship of Managerial economics with other functional	area	S		
	hniques and methods to predict the demand scientifically.	ui eu			
		.fit			
-	duction levels and analyse the relationship of Cost-Volume Pro		6.4		
	ed decisions on price fixation under different market structur	es o	t the	econ	omy
under differen	nt scenario.	1			
UNIT - I				Hrs:	
	gerial Economics: Definition, Nature and Scope, Relationship				
	on Management, Marketing, Finance and Personnel, Operation				
	onomist. Objectives of the firm: Managerial theories of firm, B	ehav	vioura	al the	ories
	techniques, New management tools of optimization.	-			
UNIT - II				Hrs:	
	Demand Analysis – Law of Demand - Elasticity of demand, typ				
	and. Demand estimation – Marketing research approaches to c	iema	and e	stima	tion
	ecasting, forecasting techniques.	Ŧ			-
UNIT - III				Hrs:1	
	Production function, Isoquants and Isocosts, Production func-				
	glas Production Function, Returns to Scale and Returns to Fac				
	- cost-output relationship in the short run and long run, Ave	erage	e cos	t curv	/es
Break Even Analysis. UNIT - IV		La	oturo	Hrs:1	r
	Pricing practices: Features and Types of different competitive				
	in Perfect competition, Monopoly, Monopolistic competitive				
	Pricing methods in practice: Price discrimination, product li				
	pricing, penetration pricing, Loss Leader pricing. Pricing of mu				
UNIT - V	prioring, ponoticution prioring, 2000 Doudor prioring, ritering of me			Hrs:1	
	s Cycles:-Definition and meaning-characteristics of Inflation-				
	Anti-Inflationary methods - Definition and characteristics of				
	cle - steps to avoid business cycle			5	
Textbooks:					
	conomics, Dwivedi D.N. Vikas Publishers				
	conomics, Gupta, TMH				
6	cononneo, Oupia, Imit				
Reference Books:	Economics Deerson Education James I Demos and Engen	Dr.	iahar	~	
-	Economics, Pearson Education, James L.Pappas and Engenel	r.br	ignat	11	
	conomics, Suma Damodaran, Oxford.				
	mics by MN Jhingan-Oxford				
4. Managerial E	conomics- Dr.DM.Mithani-Himalaya Publishers				



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- 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	<u>C</u>
21E00104		4	0	0 I	4
	Semester			1	
Course Objective	A S •				
· · · · · ·	luce accounting, accounting rules, accounting process and prepara	tion	of fir	nancia	1
statement			01 111	1411010	••
	n methods of valuation of assets,				
	the meaning and interpretation of financial statements through a	ratio	anal	ysis	
technique			-		
	s (CO): Student will be able to				
 Prepare the 	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 int	erpre	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	accou	untin	g, use	es of
accounting and be	ook keeping Vs Accounting, Single entry and Double entry system	ns, c	lassif	icatio	on of
	f debit & credit. (Only theory)	1			
UNIT - II				Hrs:	
	Process: Overview, Books of Original Record; Journal and Subsid				
Trial Balance. F	inal accounts: Trading accounts- Profit & loss accounts- Ba	alanc	e sh	eets	with
			• •		
adjustments. (Pro	blems on Only Final Accounts)				
adjustments. (Pro	blems on Only Final Accounts)	Leo	cture	Hrs:1	
adjustments. (Pro UNIT - III Valuation of Ass	blems on Only Final Accounts) Sets: Introduction to Depreciation- Methods (Simple problems	Leo	cture 1 Str	<u>Hrs:1</u> aight	line
adjustments. (Pro UNIT - III Valuation of Ass method, Diminis	blems on Only Final Accounts) sets: Introduction to Depreciation- Methods (Simple problems hing balance method and Annuity method). Inventory Valuat	Leo	cture 1 Str	Hrs:1	line
adjustments. (Pro UNIT - III Valuation of Ass method, Diminis inventory valuation	blems on Only Final Accounts) Sets: Introduction to Depreciation- Methods (Simple problems	Lec fron tion:	ture Str M	Hrs:1 aight ethod	line s of
adjustments. (Pro UNIT - III Valuation of Ass method, Diminis inventory valuation UNIT - IV	blems on Only Final Accounts) sets: Introduction to Depreciation- Methods (Simple problems hing balance method and Annuity method). Inventory Valuat on (Simple problems from LIFO, FIFO).	Lec from tion:	cture n Str M	Hrs:1 aight ethod Hrs:1	line s of
adjustments. (Pro UNIT - III Valuation of Ass method, Diminis inventory valuation UNIT - IV Financial Analysi	blems on Only Final Accounts) Sets: Introduction to Depreciation- Methods (Simple problems hing balance method and Annuity method). Inventory Valuat on (Simple problems from LIFO, FIFO). s -I Analysis and interpretation of financial statements from inv	Lec from tion: Lec	eture n Str M eture	Hrs:1 aight ethod Hrs:1 com	line s of 2 pany
adjustments. (Pro UNIT - III Valuation of Ass method, Diminis inventory valuatio UNIT - IV Financial Analysi point of view, Lie	blems on Only Final Accounts) sets: Introduction to Depreciation- Methods (Simple problems hing balance method and Annuity method). Inventory Valuat on (Simple problems from LIFO, FIFO).	Lec from tion: Lec	eture n Str M eture	Hrs:1 aight ethod Hrs:1 com	line s of 2 pany
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adjustments. (Pro UNIT - III Valuation of Ass method, Diminis inventory valuatio UNIT - IV Financial Analysi point of view, Lio Ratio Analysis). UNIT - V	blems on Only Final Accounts) Sets: Introduction to Depreciation- Methods (Simple problems hing balance method and Annuity method). Inventory Valuat on (Simple problems from LIFO, FIFO). s -I Analysis and interpretation of financial statements from inv	Lec from tion: Lec restor rt (A	cture N Str M cture case case	Hrs:1 aight ethod Hrs:1 comp e stud Hrs:1	line s of 2 pany y on 2
adjustments. (Pro UNIT - III Valuation of Ass method, Diminis inventory valuation UNIT - IV Financial Analysis point of view, Lio Ratio Analysis). UNIT - V Financial Analysis Objectives of Cast	blems on Only Final Accounts) sets: Introduction to Depreciation- Methods (Simple problems hing balance method and Annuity method). Inventory Valuat on (Simple problems from LIFO, FIFO). s -I Analysis and interpretation of financial statements from inv quidity, leverage, solvency and profitability ratios – Du Pont Char s-II: Objectives of fund flow statement - Steps in preparation of fu sh flow statement- Steps in Preparation of Cash flow statement -	Lec fron tion: Lec estor t (A Lec und f	cture M cture case cture low alysi	Hrs:1 aight ethod Hrs:1 comp e stud Hrs:1 staten s of (line s of 2 pany y on 2 nent,
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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	L	T	P	<u>C</u>
21E00105		4	0	0	4
	Semester			Ι	
Course Objective					
	n descriptive statistics and inferential statistics uce various measurements used to describe the data and inter the	rocul	ta of	tha d	oto
• To Introd	ice various measurements used to describe the data and inter the r	resuit	IS OI	the u	ata
•	ibe the concept of probability, theorems, and types of probability d	lictril	outio	ne of	
data.	the concept of probability, incorents, and types of probability of	1151111	Juno	115 01	
	the computational, analytical and interpretation skills using the da	ita			
	s (CO): Student will be able to	iia			
	ad statistical techniques popularly used to describe the data in m	nanac	erial	l deci	isio
making.	a statistical techniques popularly used to describe the data in it	lunug	Serial		13101
e				امذه	
	e procedure involved in inferential statistics and appropriate tests for	or giv	ven d	iata.	
	computational skill, interpretation of results of the data analysis.				
• Analyse a	nd differentiate various types of data distribution and its probabilit	y dis	tribu	tion.	
UNIT - I				Hrs:	
	tatistics - Nature & Significance of Statistics to Business, , M				
	- Median - Mode ; Measures of Dispersion: range, quartile	e de	viati	on, r	nea
	d deviation, coefficient of variation.				
UNIT - II		Lec	ture	Hrs:	
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correlation - Co-	efficient of correlation. Regression analysis - Meaning and ut	tility	of r	egres	ssio
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MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

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Course Code	MANAGEMENT INFORMATION SYSTEMS	L	Т	Р	С
21E00106	MANAGEMENT INFORMATION STSTEMS	4	0	0	4
	Semester			Ι	
Course Objective					
	le the basic concepts of data and Management Information System	n and	l utili	ty of	the
	the managerial decisions.				
	in Management of Information system, MIS design and implemen	tatio	n pro	cess	in
an organi					
	s security, ethical and social issues in management of Informatio	n sys	stem.		
	s (CO): Student will be able to		•		
	anagement of Information system scope, application and challe	enges	s 1n 1	mana	ging
MIS.					
	nd traditional and modern approaches for data resource management				
• Evaluate	product based and process based cost and benefit to implement an	nd m	ainta	in Ml	[S in
an organi	zation.				
UNIT - I		Lee	cture	Hrs:	8
MIS An overview	v- Introduction, Need for MIS and IT nature and scope of MIS, N	AIS	chara	cteris	stics,
	role of MIS in global business. Challenges of Managing MIS.				
UNIT - II		Lee	cture	Hrs:	12
Data resource ma	nagement- Data base concepts, The traditional approaches, the 1	node	ern aj	pproa	ches
(Data base manag	ement approaches) DBMS, Data models, Data ware housing and n	ninin	g.		
UNIT - III		Lee	cture	Hrs:1	2
	ion of IS- Enterprise systems, ERP, CRM, SCM, DSS, Types of a				
support techniqu	es, Decision making and Role of MIS, Business intelligenc	e an	d K	nowle	edge
management syste	ems.	•			
UNIT - IV				Hrs:1	
	IS- Project planning, SDLC, System development models, Pro-				
	system design, Implementation process, Product based MIS evaluation	tion	, Cos	t /Be	nefit
	Process based calculation, System maintenance	Ŧ		TT 1	
UNIT - V				Hrs:1	
	&Social Issues : IS security threats, Protecting IS, IS Security	Tech	nolo	gies,	The
	plan, IS Ethical Issues, social issues.				
Textbooks:	no conici Denomostive D. D. Covel Vilson Dublications				
	nagerial Perspective, D.P.Goyal, Vikas Publications.	~			
	nent Information Systems Text & Cases, W S Jawadekar, Tata McC	Graw	-Hill	•	
Reference Books					
1. Managem	nent Information Systems, C Laudon and Jane P.Laudon, et al, Pear	rson	Educ	ation	•
2. MIS, Ho	ssein Bidgoli, Nilanjan Chattopadhyay, Cengage Learning				
	tion to Information Systems, Rainer, Turban, Potter, WILEY-India	ı.			
-	nent Information Systems, James A. Obrein, Tata McGraw-Hill .				
	MIS, Mahapartra,PHI.				
-	nent Information Systems, Gordon B. Davis & Margrethe H.Ols	on, ^r	Fata	McG	raw-
Hill .					
Online Learning					
	ses.nptel.ac.in/noc20_mg60/preview				
	/courses/110/105/110105148/				
https://onlinecour	ses.swayam2.ac.in/cec21_ge05/preview				





Course Code	SKILL ORIENTED COURSE	L	Т	Р	С
21E00107	BUSINESS COMMUNICATION PRACTICE	0	1	2	$\frac{c}{2}$
211.00107	Semester	v	•	I	
	Semester			-	
Course Objective	28:				
	n communication concepts				
To develop	p the students' competence in communication at an advanced leve	1.			
To demo	nstrate communication skills viz., listening, speaking, reading	and	l wri	ting	with
teaching a					
	s (CO): Student will be able to				
	nd the communication concepts and				
	communication and competence skills		1	. .	1
	d apply proficiency in business communication at the workplace	ce ar	nd pro	ofessi	onal
contexts. UNIT - I		La		Hrs:	0
	munication – Significance, Scope – Communication Process –				
	- Channels of Communication –Organisation Structure -				
	Upward, Downward, Horizontal Communication.	101	mai,	mo	i iiiai
UNIT - II	opward, Downward, Horizontar Communication.	Le	cture	Hrs:	10
	unication: Verbal – Oral Communication: Advantages and Li				
	Written Communication – Characteristics, Advantages & Limit				
-	Sign language – Body language – Kinesics – Proxemics – Hepatics				
UNIT - III				Hrs:8	3
Interpersonal Co	ommunication: Communication Styles, Managing Motivati	on	to	Influ	ence
Interpersonal Con	nmunication - Role of emotion in Inter personal Communication -	Lea	dersh	ip sty	/les.
UNIT - IV		La	atura	Hrs:8	<u> </u>
	munication: Types of barriers – Technological – Socio-Psycho				
	ers, Types of listening.	Jiog		Janie	15 -
UNIT - V	eis, Types of listening.	Le	cture	Hrs:8	3
	Formal reports – Writing effective letters – Different types of				
	ues – Communication etiquettes.				
Textbooks:	*				
1. Business	Communication: A Practical Approach, Naik, Willey				
	Communication, C.S.Rayudu, HPH.				
3. Business	Communication, Meenakshi Raman, Oxford University Press.				
Reference Books					
	communication, Shalini Varma, Vikas.				
	Communication, Raymond V.Lesikar, Neeraja Pandit et al.,TMH				
	Communications, Hudson, Jaico Publications				
	communication for managers, Penrose, Raspbery, Myers, Cengage		N T -	1014	
	Communication, Harward Business School, Harward Business Rev	view	No.1	1214.	
	of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand				
Online Learning					
*	ses.swayam2.ac.in/imb19_mg14/preview				
imps://online-deg	ree.swayam.gov.in/dyp20_d02_s1_hs01/preview				



Course Code	INFORMATION TECHNOLOGY LAB	L	Т	P	С
21E00108		0	1	2	2
	Semester			Ι	
Course Objecti					
	de knowledge on applications of information technology and	.1 1	1		
	onstrate the MS Office applications with hands on experience in			.1 1	
	in and exhibit statistical functions of association, testing hypo	othesi	is for	the da	ata
Course Outcom	alyse and interpret the outcome of the data.				
	and edit the documents with effective presentation to superiors.				
	and ear the documents with effective presentation to superiors.		n the	evcel	
	ith formulae and functions.	ata n		CAUCI	
	and interpret the business data outcome statistically in an effecti	ve a	nd eff	icient	
manner.	and interpret the business data baccome statisticary in an errori	ve u		letein	
List of Experim	ents:				
Unit -1					
Introduction to	Hardware Component: (need to explain using images or vie	deos) Var	ious 1	Inpu
	nd their usage in corporate world- Memories (RAM/ROM) and	d its	types	– Va	riou
* I I	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 GP	S ena	able
	or filesharing to Mobile to Mobile- System to Mobile				
Unit – 3	Over views of verieus Dikkens, nexts special formetting was	a of	Font	Tout	hav
	Over views of various Ribbons- paste special- formatting- usag spacing – bullets- – page layouts-styles- header and footers –				
•	view-split -views- keyboard shortcut keys	wate	1111111	-mai	gins
Unit -4	view-spint - views- keyboard shortedt keys				
	Mail Merge- Macros- Designing a company letter pad- Time ta	ble	– lette	er wri	ting
	ver point -preparation of company presentation –	010	1000		2
Unit – 5					
MS Power Poin	nt-Creation of slides-Use of templates and slide designs for cr	eatin	g po	wer j	poin
slides- use of d	rawings and graphics. Developing a Professional presentation	on]	Busin	ess P	lans
	lucts. Power point shortcut keys				
References:					
	11- 2007 Microsoft Office System Step-by- Step, First Edition, PH				
	/higam-Business Data Analysis Using Excel, First Edition, Oxfor	d Uı	nivers	ity	
Press.					
	on, TMH, 2008, Enterprise resource planning.				
• The Oxf	ord Hand Book of Internet studies, William.H.Dulton, Oxford.				
Online Learnin	and an and a first set to be a				
	resources/Virtual labs:				
	rsera.org/specializations/excel rsera.org/specializations/everyday-excel				
	rsera.org/learn/excel-basics-data-analysis-ibm				
mps.//www.cou	1501a.012/10a11/07001-0a5105-0ata-alla1y515-10111				



Course Code 21E04201	ECONOMETRICS FOR BUSINESS FORECASTING	L 4	Т 0	P 0	C 4
21E04201	Semester	-	-	II	
	Semester				
Course Objective	S:				
	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 da	ata.		
 To discuss 	types of regression models and functional forms applicable for	the d	lata.		
 To impart 	knowledge on time series and index numbers.				
Course Outcomes	(CO): Student will be able to				
Understan	d concept of econometrics and need and application in real worl	ld			
Learn diffe	erent predicting techniques and functional forms applicable to the	e giv	en da	ta.	
 Gain know 	ledge on testing hypothesis procedure and interpretation.				
 Know diff 	erent types of regression models applicable for different types of	data	a vari	ables	
Construct	and compute the different index values and issues involved in con	nstru	ction	of a	nd
	dex numbers.				
UNIT - I				Hrs:1	.2
	oduction - meaning ,scope and importance of Econometrics -Me				
econometrics - Ap	plication areas of Econometrics; Specification: Meaning - Specification	ficati	ion B	ias -	
Population Regress	sion, Sample Regression, Error Term.				
UNIT - II		Leo	cture	Hrs:	12
Simple Linear Re	gression Model: Simple Linear Regression Model (SLRM) -As	ssum	ptior	ns of a	S LR
Population parame procedure - Testi	imation - Ordinary Least Squares Estimation: Point Estimation of eters; Goodness of Fit – Coefficient of Determination (R^2) - ng the individual Regression Parameters – Testing the significance	Hyp	othe	sis te	sting
only). UNIT - III		Leo	ture	Hrs:1	2
Multiple Linear	Regression Model: Multiple Regression Models – Assumptions	of M	ILR 1	mode	l and
	mptions (In brief only) - Model with two independent variables				
	retation of MLR equations- Goodness of Fit - Coefficient of D				
	ent of Determination; Hypothesis testing in MLR model (Problem			```	,
UNIT - IV				Hrs:1	2
	Econometrics: Introduction to Dummy Variables - Qualitative				
	Features of Logit model – Estimation of logit for Individual da				
Ų.	rast logit and probit models - Application areas of logit and prob				
UNIT - V				Hrs:()8
Business Forecas	ting: Introduction to Time series -Components of Time series	; In	ndex	Num	bers:
	bes of index number - Unweighted and Weighted Index; Av				
	y and Value Indices; Issues in Constructing and Using Index Num				
Textbooks:					-
1. Damodar	N. Gujarati, Basic Econometrics, 3rd Edition, 1995, Mcgraw-Hil	1.			
2. WALTER	ENDERS, "Applied Econometric Time Series", Wiley India.				
3. John E.Sil	ivia, Azhar Iqbal, "Econometrics and business forecasting" Wiley	2014	4		
Reference Books:					
	an, Ramu, "Introductory Econometrics With Applications", 4t	h Ed	ition	Harc	ourt
College Pu					
	ndick, Econometric Models and Economic forecasts, 4 th Editio	n, P	ears	ons	
Online Learning	Resources:				



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	BUSINESS ANALYTICS AND DATA SCIENCE	L T P C				
21E04203		4 0 0 4				
	Semester	II				
Course Objectiv	/es:					
To enabl	e the student to understand the roles & responsibilities of Business	Analyst and				
Data Sci	entist in business,					
 To expla 	in the basic concept of data management and data mining techniqu	es, machine				
learning	and					
To make	possible for the application of business analytics in various business	ss areas.				
Course Outcom	es (CO): Student will be able to					
Learn bu	siness analytics career opportunities in business analytics					
Understa	and data, big data and the way to manage the data in the organisation	on.				
Gain knowledge on data visualisation, classification, evaluation and interpretation						
• Know data mining, multidimensional data analysis and concepts of association analysis and						
cluster a		2				
	nowledge on machine learning, artificial Intelligence and Framewo	orks for building				
	Learning Systems.	6				
UNIT - I		Lecture Hrs:				
Introduction: W	hat is business analytics? Historical Overview of data analysis, I	Data Scientist vs.				
Data Engineer va	s. Business Analyst, Career in Business Analytics, What is data so	cience, Why Data				
Science, Applica	tions for data science, Data Scientists Roles and Responsibility	•				
UNIT - II		Lecture Hrs:				
Data: Data Col	lection, Data Management, Big Data Management, Organization	sources of data,				
	lata quality, Dealing with missing or incomplete data, Data Vi					
	ata Science Project Life Cycle: Business Requirement, Data A					
	pothesis and Modeling, Evaluation and Interpretation, Deployn	nent, Operations,				
Optimization.						
UNIT - III		Lecture Hrs:				
	Data Mining: The origins of Data Mining, Data Mining Tasks, OL					
	l data analysis, Basic concept of Association Analysis and Cluster					
UNIT - IV		Lecture Hrs:				
	Machine Learning: History and Evolution, AI Evolution, St					
	ta Analytics Vs, Data Science, Supervised Learning, Unsupe	rvised Learning,				
	earning, Frameworks for building Machine Learning Systems	x . xx				
UNIT - V		Lecture Hrs:				
	Business Analysis: Retail Analytics, Marketing Analytics, Fin	ancial Analytics,				
	tics, Supply Chain Analytics					
Textbooks:	N ' A 1 /' A Y / 1 /' / 1 1 1 1 1 ' / 1	· · ·				
	Business Analytics: An Introduction to the methodology and its appl	lication,				
	Pochiraju, Sridhar Seshadri, Springer	1 1				
	o Machine Learning with Python: A Guide for Data Scientists 1st E	dition, by				
	er, Sarah Guido, O'Reilly					
	Data Science, Laura Igual Santi Seguí, Springer.					
Reference Book						
	Data Mining, Pang-Ning Tan, Michael Steinbach, Vipin Kumar, F	'earson				
Education India						
	on to Business Analytics, Ger Koole, Lulu.com, 2019					
Online Learning						
· ·	/courses/110/105/110105089/					
	n/noc/courses/noc17/SEM2/noc17-mg24/					
https://nptel.ac.ir	n/noc/courses/noc20/SEM1/noc20-mg11/					





Course Code	BUSINESS RESEARCH METHODS	L	Т	P	С		
21E00204		4	0	0	4		
	Semester	ter II					
Course Objective							
	ace business research, types and technology used in business research	arch.					
	in detail on research process involved in business research.						
To discuss	sources of data and instruments to collect data						
To provide	e knowledge on analysis and interpretation of outcome of the data	in a	scier	ntific			
way.							
To provide	e knowledge on descriptive and inferential statistical analysis.						
To impart	competence skills to undertake business research problem and ca	arryc	out sc	ientif	ïc		
research.							
*Standard Statis	tical tables shall be allowed in the examination						
Course Outcomes	(CO): Student will be able to						
Learn type	s of business research, technology used in business research in te	chno	logic	al era	ι.		
 Identify re 	search problem, appropriate research design and sample design for	or the	e prol	olem,			
formulate	hypothesis, testing process of hypothesis.		_				
Understan	d sources of data, instruments to collect data, analyse and interpre	etatio	n of o	data.			
Prepare an	d present the research report effectively and efficiently.						
UNIT - I		Leo	cture	Hrs:0	8		
Introduction to B	usiness Research: Definition-Types of Business Research. Scient	ntific	e Inve	estiga	tion,		
	Business Research: Information needs of Business - Technologie						
	ernet, E-mail, Browsers and Websites. Role of Business Resea						
Decisions.				C	,		
UNIT - II		Leo	ture	Hrs:1	2		
The Research Pr	ocess: Problem Identification: Broad Problem Area-Prelimina						
	- Hypothesis Development - Statement of Hypothesis- Proceed						
	esearch Design: Types of Research Designs: Exploratory, Descrip						
	Study -Measurement of Variables- Operational Definitions and S						
	ating Scales- Ranking Scales- Reliability and Validity - Sampli						
sampling		0					
UNIT - III		Leo	cture	Hrs:1	2		
	nalysis of Data Sources of Data-Primary and Secondary Sour						
	ds- Interviews: Structured Interviews and Unstructured Interviews						
	onnaire Construction: Organizing Questions- Structured						
• -	Guidelines for Construction of Questionnaires.						
UNIT - IV		Leo	ture	Hrs:1	2		
	and Analysis: Data preparation process, problems in prepar						
_	iptive, Associational and Inferential- Statistical Measures.		F				
UNIT - V		Leo	ture	Hrs:1	2		
	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						
Presentation.		- care			0.41		
Textbooks:							
	rch Methodology – methods & Techniques, C.R. Kothari, Vishwa	pral	kasha	n.			
	rch Methods for Business–A Skill Building Approach, Uma Seka	-			v &		
	Asia) Pvt. Ltd, Singapore.	,	20111	,, 110	ja		
	rch Methodology(Concepts and cases) Deepak Chawla	Neen	aSon	dhi-V	/ikas		
publis				V	mab		
Publis	Q						



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

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	es:				
• To give a	n overview of data warehousing and data mining				
To explai	n data sets, major tasks in data pre-processing				
	n basic concepts of data warehousing and On-line Analytical				
	te on data base structures, multidimensional data structures	and con	cepts of M	leta Data.	
	t analysing skills on context of data warehouse				
	n procedure of getting data into the data warehouse.				
	s (CO): Student will be able to				
	nd data warehousing and data mining concepts				
	a sets, statistical descriptions of data, tasks in pre-processing				
	wledge on data warehouse modelling and On-line Analytical				
	ata base structures, multidimensional data structures and lea	rn conce	epts of Me	eta data	
	ocedure of getting data into the data warehouse				
UNIT - I			eHrs:10		
	ivated data mining -Its importance – Meaning of data mini				
	can be mined? are all of the patterns interesting? Classif				ems, data
UNIT - II	tives, integration of a data mining system with a database or		rehouse sy e Hrs:12	vstem.	
	a. Trunce of data acts and attaikute values, havis statistical d			data rular	alization
	g: Types of data sets and attribute values, basic statistical d				
	milarity, data quality, major tasks in data preprocessing, data on, data cleaning and data integration.		citoli, uata		ation and
UNIT - III		Loctur	e Hrs:12		
	g and On-Line Analytical Processing: Data Warehouse- Basi			vorabouso	modeling
	LAP, data warehouse design and usage, data warehouse in				
	induction, efficient methods for data cube computat				
	databases, Data Base Structures – Organizing Relational 1				
	Choosing a Structure. Meta Data: Human Meta Data, Com				
computer to use.	choosing a bractare. Meta Data. Haman Meta Data, Com	Juter Du	.sea meta	Duiu IoI p	copie una
UNIT - IV		Lecture	eHrs:12		
	ontexts of the Data warehouse: Active Analysis, User Qu			Constructin	g a Data
	n: Stages of the Project – Developing a Project Plan, Data w				
Architecture Stag					
UNIT - V		Lecture	e Hrs:10		
	the Data warehouse - Extraction, Transformation, Cleanin			ummarizat	ion. Data
Ū.	a Decision Tree, Correlation and Other Statistical Analysis	•	•		
<u> </u>	ng the Results to Use.	-			e
Textbooks:	*				
1. Jiawe	i Han &MichelineKamber, "Data Mining – Concepts a	ind Tec	hniques"	Morgan I	Kaufmann
	shers, 2nd Edition, 2006.		-		
2. Marg	aret H Dunham, "Data Mining Introductory and advanced to	pics" ,P	earson ed	ucation	
3. James	s 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 wareho		tems TM	H.	
	H.M.Sivanandam, Data Mining Techniques and Tasks Thor				
	ichard T Watson :Data Management, Data Bases and Organi		-		
5. N	Iarakas, Modern Data Warehousing, Mining and Visualization	on Core	Concepts	Pearson	



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

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	L
	Semester			11	
Course Objectiv					
-	e basic knowledge in the area of R-Programming	c			
	n methods to explore, import, export and manipulate data and data nowledge on hypothesis tests for estimating or predicting statistica			0	
	s (CO): Student will be able to		anou	.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.		0.0910	551011	una
UNIT - I		Leo	ture	Hrs:1	2
	Overview and History of R, Getting Help, R Packages: Load				
Managing.					
UNIT - II		Lec	cture	Hrs:1	0
Data Definition &	c Control Structures, Data definition types, constants, variables, R	data	types	s and	
objects, Reading a	and writing data.				
UNIT - III				Hrs:1	
	nmetic, Logical, Precedence rules Control Structures: Sequencing,				
	nment statement, Control Structures: Selection, Repetition, Combin	natic	on, Fu	unctio	ons,
	loop functions, Flow Control				
UNIT - IV				Hrs:	
	with R, Import, export and manipulate data and data frames, Statisti	ical s	sumn	naries	of
continuous and ca	ategorical data.				
UNIT - V				Hrs:	
	and simple regression models, Linear models like ANOVA, linear			n and	
mixed models, ge	neralized linear models, Basic graphics & reports of statistical ana	lyses	5		
Textbooks:					
	k. Beginning R: the statistical programming language. John Wiley			2012	•
2. Zumel, Nina, J	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, Model Data. " O'Reilly Media, Inc.", 2016.	Tic	ły, 7	ranst	ìorm,
	an. The art of R programming: A tour of statistical software desig	n. N	o Sta	rch F	ress,
Online Learning	Resources:				
	ube.com/watch?v=3iSKFCKLUsI				
L .	ses.nptel.ac.in/noc19_ma33/preview				



Course Code	General Elective – I	L	Т	Р	С
21E00207a	ADVANCED COMMUNICATION	2	0	0	$\frac{c}{2}$
211200207a	Semester	4	-	II	
	Senester			11	
Course Objectives:					
	mmunication concepts				
	e students' competence in communication at an advanced leve	1.			
	ate communication skills viz., listening, speaking, reading		wri	ting	with
teaching aids.	······································			0	
	O): Student will be able to				
	e communication concepts and				
	nunication and competence skills				
	ply proficiency in business communication at the workplace	ce an	d pr	ofessi	ional
contexts.			•		
UNIT - I		Lec	ture	Hrs:6	5
Concept of Manageria	l Communication – Effective Listening – Barriers, Steps for	Acti	ve L	isteni	ng –
	Body Language & Modulation, Informative, Persuasion				
	Obstacles, Effective Reading, Reading Comprehension - E				
-	laking Methods, Executive Summery.				C
UNIT - II		Lec	ture	Hrs:	6
Business Letters & R	eports: Types of Business Letters - Elements; Types of Re	ports	s – I	nforn	nal –
Formal Reports – Eler	nents; Annual Reports - Technical Proposals - Structure - C	ircul	ars -	Notic	ces –
Memos.					
UNIT - III		Leo	ture	Hrs:	3
Meetings & Reports:	Meeting Invitation - Notice – Agenda – Meeting Participant				
	e - Minutes of the Meeting – Documentation – Filing;			/	0
UNIT - IV		Leo	ture	Hrs:	3
Communication Strat	egies: Conflict Resolution - Win-Win strategy; Manager	ial N	Vego	tiatio	ns –
	ve, Integrative Strategies; Interviews – Types – purpose – proc		0		
UNIT - V			ture	Hrs:	6
Technology for Com	munication: Conventional Modes Vs Computer based Tech	nolc	gies	- E	mail,
	o Soft & Google Tools – Data – Collection – Organizi				
Presentations using Te		U		•	C
Textbooks:					
	ommunication – Strategies and Applications, Geraldine E.Hyn	es N	/cGt	awHi	11
	munication, C.S.Rayudu, HPH.	105, 11	1001	u •• 1 1	
	munication, Meenakshi Raman, Oxford University Press.				
Reference Books:					
	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 Re	view	No.	1214.	
	on skills, Sanjay Kumar, Pushpalata, Oxford				
Online Learning Res					
	wayam2.ac.in/imb19_mg14/preview				
https://www.youtube.c	com/watch?v=ITHnugowc_Q				



Course Code	L	Т	P	С	
21E00207b	General Elective – I E-BUSINESS	2	0	0	2
	Semester			II	
Course Objectives	:				
To imparts	the concepts and various application issues of e-business and var	rious	onli	ne	
strategies for	or e-business.				
• To explain	various electronic payment systems.				
	(CO): Student will be able to				
Understand	l electronic business and related concepts in detail.				
Identify sec	curity threat in e-business and steps, methods to overcome securi	ty iss	ues.		
Know varie	ous electronic payment system and business models in the presen	t tecl	nnolo	ogy	
business we	orld.				
• Know the	e-business infrastructure requirements for e-business.				
UNIT - I	•	Lec	ture	Hrs: (5
Introduction to e-bu	usiness : Electronic business, Electronic commerce, difference	betw	een o	e-busi	iness
& e-commerce, ele	ctronic commerce models, types of electronic commerce, value	chair	ns in	electr	onic
	herce in India, internet, web based tools for electronic commen				
	onents of electronic data interchange, electronic data interchange				
UNIT - II				Hrs: (5
Security threats to	o e- business: Security overview, Electronic commerce th	nreats	s, E	ncryp	tion,
Cryptography, publ	lic key and private key Cryptography digital signatures, digital c	ertif	icate	s, sec	urity
	olic networks : HTTP, SSL, Firewall as security control, public				•
(PKI) For Security.		5			
UNIT - III		Lec	ture	Hrs: (5
Electronic payment	t system : Concept of money, electronic payment systems, ty	ypes	of	electr	onic
payment systems, si	mart cards and electronic payment systems, infrastructure issues	in E	PS,	Electr	onic
fund transfer.					
UNIT - IV		Lec	ture	Hrs: 4	1
E-business applicat	tions and strategies : Business models & revenue models over	inte	rnet,	emer	ging
trends in e- busines	sse- governance, digital commerce, mobile commerce, strategie	s for	bus	iness	over
web, internet based	business models.				
UNIT - V		Lec	ture	Hrs: (5
E –business infras	structure and e- marketing : Hard works system software in	frast	ructu	ire, IS	SP's,
managing e-busine	ss applications infrastructure, what is e- marketing, e-marketin	g pla	nnin	g, tao	ctics,
strategies.					
Textbooks:					
	ey :e-business & e-commerce management- Pearson.				
2. E- commer	ce- e-business :Dr.C.S.Rayudu, Himalaya.				
Reference Books:					
1. Whitley, D	avid (2000), e-commerce strategy, Technologies and applications	.TM	H.		
	Gary P.and Perry, James T(1 ST edition 2000) Electronic commerce			on	
Learning.	- · · · · · · · ·				
	nlesh K and Nag, Debjani (1st edition 1999) ,e- commerce, T	'he c	uttin	g edg	e of
business,TMH Publishing company					
Online Learning F					
	es.nptel.ac.in/noc19_mg54/preview				
·	entral.com/course/swayam-e-business-14018				



Course Code		Gen	eral Electi	ve – I			L	Т	Р	С
21E00207c		INDUSTRY	4.0 & IN	NOVA	ΓΙΟΝ		2	0	0	2
					Sem	ester		I	I	
Course Objectiv										
•		ew of industry		•	•					
•	•	nd concepts wi		. .						
To Intro	duce the basi	ic concepts of	f Industry	4.0, Art	tificial Intellig	ence,	Big 1	Data	and	
	of Things.									
		nstrate the app								
To Impa advantag		e on innovation	ı types, staş	ges of in	novation proce	ess, an	d con	npeti	tive	
Course Outcom		dent will be ab	le to							
Underst	and the basi	c concepts of	Industry 4	1.0 and	new technolo	gies i	n dec	isio	n	
making		Ĩ	2			C				
0	the features	of Artificial I	Intelligenc	e and a	pplication do	mains				
		data domain s	-							
	-	ions and Too			01 1111150					
•		ovative ideas		•	OGV					
		ge in various				, to ta	ko of	fecti	ve a	nd
	t managerial	•	muustrics	Dascu	Jii teennology	10 10		iccu	ve a	lu
UNIT - I		uecision.					Loo	turo	Hrs:	
		for Adopting	Inductor	<u>40</u> T	Definition ()
Industry 4.0: Ne	eu - Reason	i for Adopting	g maustry	4.0 - 1	\mathcal{J} eminition – G	joals a	ina l	Jesig	,11	
Principles - Technologies of	Inductory 10	Pig Data	Artificial I	talligan	and (AI) Indu	actrial	Intor	not o	fThi	200
- Cyber Security						istriai	men	net o	11111	igs
UNIT - II		ignenieu Kear	ny = winco	I Keant	y.		Lec	ture	Hrs:	6
Artificial Intellig	ence: Artific	ial Intelligence	e Artificia	l Intellio	vence (AI) – V	What &				
of AI -Foundatio										
and Tools - Asso								011 2		
UNIT - III	<u> </u>	8		~ P • • • •		8		ture	Hrs:	6
Big Data and IO	T: Data : Te	rminologies -]	Big Data D	efinition	ns - Essential o	of Big				
4.0 - Big Data M		•	•			•				•
Processing Fram				-	-				-	
Platforms; Intern										
IoT - Security in								C		
UNIT - IV							Lec	ture	Hrs:	6
Applications of	IoT – Man	ufacturing – l	Healthcare	– Educ	cation – Aero	space	and	Defe	ence	_
Agriculture – Tra	.	•	.	•		• •	act o	n Bu	sines	s,
Government, Peo	•		÷	Big Data	and Data Ana	lytics,				
Virtual Reality, A	Augmented R	eality, IoT, Ro	botics.				r			
UNIT - V	<u> </u>								Hrs:	
Innovation: Me						ons - 1	Innov	atior	ı as a	
knowledge-based	1 process – In	novation and c	competitive	advanta	age.					
Textbooks:		D I m : 1	1 7 1 5	~	. 1	T 11	D 1			
	ng Innovation hird Edition.	-,By Joe Tide	d, John Be	ssant &	et.al., Wiley	⁷ India	Publ	lishe	rs, N	ew
2. Introduct	tion to	Industry	4.0	and	Industrial	In	ternet	t of		



MASTER OF BUSINESS ADMINISTRATION (BUSINESS DATA ANALYTICS)

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



21E00208 DATA ANALYTICS LAB 0 1 2 2 Semester II Course Objectives: • To explain the procedure in creation of company, ledger accounts and to explore, present financial statements of an business organization • To give knowledge on using of various financial tools to take long term investment decision • To demonstrate the process of storing, retrieving the data relating to employees, dealers, customers and consumers in an effective and efficient way • To impart the knowledge on Systems and MIS and process of designing the MIS in an organization. • • Demonstrate the creation of company, ledger accounts, explore and export financial statements • • Exhibit the calculation of cost of capital and discounting factor techniques in long term investment decision. • • Store and retrieve the data relating to dealers, customers and consumers based on products, geographical criteria. • • Present the data in the form of pivot tables, graphs and charts in effective and efficient way • • Construct and present employee salary administration in an organization in an informative manner. • • Understand information system in the organization, design of MIS and also internet and the tools used in Internet. • List of Excel: Cells – name range – references – Creating and editing worksheets-Cell formatting-Crea	Course Code	Skill Oriented Course	L	Т	Р	С	
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References:Ms Office Excel-Frye, PHI publications		Excel Erve DUI publications					



MASTER OF BUSINESS ADMINISTRATION (BUSINESS 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