

## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

### SEMESTER - I

S.	Course	Course Name	Category	Hour	s per	week	Credi
No.	codes			L	T	P	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	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	Н	ours per	week	Credi
	codes			L	T	P	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.	21E03202	R- Programming	CC	4	0	0	4
		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	ırs pe	r week	Cred
	codes			L	T	P	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	21E05309	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	T	P	its
1.	21E04401	*Big Data Analytics	SC	4	0	0	4
2.	21E04402	*Supply Chain Analytics	SC	4	0	0	4
3.	21E05403	Project Work	PR	0	0	20	10
		TOTAL		8	0	20	18

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



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	MANAGEMENT & ORGANIZATIONAL BEHAVIOUR	L	T	P	C
21E00101	MANAGEMENT & ORGANIZATIONAL BEHAVIOUR	4	0	0	4
	Semester			I	
Course Objective					
	t basic conceptual knowledge on Management theories and Practic				
	re higher productivity and accomplishing the goals of the organizat	ion.			
Course Outcome	s (CO): Student will be able to				
<ul> <li>Understand</li> </ul>	nd concepts, theories and practices				
<ul> <li>Apply th</li> </ul>	eoretical knowledge in managing the organization and Know	the	beh	aviou	r of
	s at individual, group and organisational levels at work pla				
leadership					
UNIT - I		Lea	cture	Hrs:	8
	nent – Concept – Significance – Functions – Principles of Manage				
	entific – Behavioural – Systems – Contingency.	CITICI		uttori	15 01
management. Ser	charte Bona routal Systems Contingency.				
UNIT - II		Lec	cture	Hrs:	12
Decision Making	& Controlling - Process - Techniques. Planning - Process - Prob	olem	s — :	Maki	ng It
Effective Contro	lling - System of Controlling - Controlling Techniques - M	lakir	ng C	ontro	lling
Effective.					
UNIT - III		Lec	cture	Hrs:1	2
Individual Behav	iour & Motivation -Understanding Individual Behaviour - Perce	ption	1 – L	earni	ng –
Personality Types	s – Johari window- Transactional Analysis- Motivation- Conce	pt o	f Mo	tivati	on -
Motivational The	ories of Maslow, Herzberg, David McClelland, and Porter and Law	ler			
UNIT - IV		Lec	cture	Hrs:1	2
Group Behavior	& Leadership: Benefits of Groups - Types of Groups - Gro	up l	Form	ation	and
Development. Le	adership and Organizational Culture and Climate: Leadership	— T1	raits	Theo	ry –
Managerial Grid	<ul> <li>Transactional Vs Transformational Leadership – Qualities of go</li> </ul>	od 1	eader	- Wo	men
Leadership in Ind	ia.				
UNIT - V				Hrs:1	
	sehaviour-Organizing Process - Departmentation Types - M				
	isational culture- Types of culture – Organisational Culture Vs Org	ganis	ation	al cli	mate
	ement -Change Management.				
Textbooks:					
	s of Management, Koonz, Weihrich and Aryasri, Tata McGraw Hill				

- 2. Organizational Behaviour: Design, Structure and Culture, Gupta, Willey
- 3. Management and Organisational Behaviour, Subbarao P, Himalaya Publishing House

#### **Reference Books:**

- 1. Organisational Behaviour ,S.S.Khanka, S.Chand
- 2. Organisational Behaviour, Stephen P. Robbins, Pearson Education
- 3. Organisational Behaviour, Mishra .M.N, Vikas
- 4. Management and Organisational behaviour, Pierce Gordner, Cengage.
- 5. Behaviour in Organizations, Hiriyappa .B.New Age Publications
- 6. Organisational Behaviour, Sarma, Jaico Publications.
- 7. Principles of Management , Murugesan , Laxmi Publications

### **Online Learning Resources:**



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https://onlinecourses.nptel.ac.in/noc20\_mg51/preview

https://onlinecourses.swayam2.ac.in/cec20\_mg03/preview

https://onlinecourses.nptel.ac.in/noc20\_mg58/preview

https://onlinecourses.nptel.ac.in/noc21\_mg30/preview



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	BUSINESS ENVIRONMENT & LAW		T	P	C		
21E00102	DOSINESS ENVIRONMENT & LAW	4	0	0	4		
	Semester			I			
Course Objective							
	uce business environment and various business environment factor	s an	d law	'S			
•	business that have major repercussions on business enlighten.						
<ul> <li>To explai</li> </ul>	n and update the changes that occur constantly in the sphere of bus	sines	s env	/ironi	nent		
and laws							
Course Outcomes (CO): Student will be able to							
<ul> <li>Acquire t</li> </ul>	he knowledge on business policies and environment factors to car	ryou	ıt a bı	usine	SS.		
<ul> <li>Understar</li> </ul>	nd the various laws relating to business activities						
<ul> <li>Conduct</li> </ul>	and plan business effectively and efficiently in the light of information	rmat	ion o	n vai	rious		
business 1	policies and laws.						
UNIT - I		Lec	cture	Hrs:	8		
Introduction to E	Business Environment:-Meaning, Components of Business Envir	ronn	nent	Indu	strial		
policy of 1991, Li	iberalization, Privatization and Globalization.						
UNIT - II				Hrs:			
	and Trade Policy: Monetary& Fiscal Policy -,EXIM Policy, Ro						
Balance of Payme	ents: WTO: Role and functions of WTO in promoting world trace	le –T	RIPS	S, TR	JMS		
and GATS, - Dun	nping and Anti-dumping measures.						
UNIT - III		Lec	cture	Hrs:1	2		
Law-Definition -1	Need, classification and sources of Business Law, Law of Contr	ract	-1872	2 (Pa	rt-I):		
Nature of Contract	ct and essential elements of a valid Contract, Offer and Acceptanc	e. La	aw of	Con	tract		
	Consideration, Capacity to Contract and free consent, Legality of the						
UNIT - IV				Hrs:1			
Companies Act,	1956 (Part-I): Kinds of Companies, Formulation of Compan	ies,	Inco	rpora	tion,		
	nents. Company Act, 1956 (Part-II): Company Management, D	irect	ors,	Com	pany		
	ions, Auditors, Modes of Winding-up of a company.						
UNIT - V				Hrs:1			
	nnology Act, 2000: Scope and Application of ITAct, 2000- D	_	_				
_	lties and adjudication, cyber regulations appellate, tribunals, dut	ies o	of su	bscri	bers-		
Right to Informat	ion Act,2005 –GST Act 2017.						
Textbooks:							
1. Essentials	s of Business Environment, K. Aswathappa, Himalaya publishers.						

- 1. Essentials of Business Environment, K.Aswathappa, Himalaya publishers.
- 2. Economic Environment of Business, 7th Edition, Ahuja H.L. S.chand
- 3. Mechantile Law- Garg, Sareen, Sharma, Chawla, Kalyani publishers.

### **Reference Books:**

- Indian Economy, Dutt and Sundaram, S. Chand, New Delhi.
- Business Environment Text and Cases, Justin Paul, TMH.
- Indian Economy- Misra and Puri, Himalaya.
- Legal Aspects of Business, Ravinder Kumar, Cengage.
- A Manual of Business Laws, S.N. Maheshwari & Maheshwari, Himalaya.
- Business law for management, K.R.Bulchandani-Himalaya Publishing.
- Business law, R.S.N Pillai, Bhagavathi, S.Chand



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## **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



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	MANACEDIAL ECONOMICS	L	T	P	C
21E00103	MANAGERIAL ECONOMICS	4	0	0	4
	Semester			I	
<b>Course Objectives:</b>					
	ecision making skills at all levels of management				
	anagerial theories, behavioural theories and optimization method	ds fo	r eff	ective	e and
	ctioning of firms.				
	concept of demand, techniques to forecast demand and productio	n an	alysi	l <b>S</b>	
considering					
	e market structures and price strategies applicable under difference	ent 1	ousir	iess	
	or various products.				
	CO): Student will be able to				
	the relationship of Managerial economics with other functional	area	S.		
• Learn the tec	chniques and methods to predict the demand scientifically.				
<ul> <li>Ascertain pr</li> </ul>	oduction levels and analyse the relationship of Cost-Volume Pro-	ofit.			
<ul> <li>Take inform</li> </ul>	ned decisions on price fixation under different market structure	es o	f the	ecor	nom
under differe	ent scenario.				
UNIT - I		Lec	cture	Hrs:	8
Introduction to Man	agerial Economics: Definition, Nature and Scope, Relationship	with	oth	er are	eas i
Economics, Product	ion Management, Marketing, Finance and Personnel, Operation	ons 1	resea	rch -	Th
	conomist. Objectives of the firm: Managerial theories of firm, B	ehav	<sup>,</sup> iour	al the	orie
	n techniques, New management tools of optimization.				
UNIT - II				Hrs:	
	Demand Analysis - Law of Demand - Elasticity of demand, typ				
	nand. Demand estimation – Marketing research approaches to c	lema	ınd e	stima	ation
	precasting, forecasting techniques.				
UNIT - III				Hrs:	
	: Production function, Isoquants and Isocosts, Production func-				
	iglas Production Function, Returns to Scale and Returns to Fac				
	s - cost-output relationship in the short run and long run, Ave	erage	cos	t cur	ves
Break Even Analysis					
UNIT - IV				Hrs:	
	d Pricing practices: Features and Types of different competitive				
	on in Perfect competition, Monopoly, Monopolistic competiti				
	- Pricing methods in practice: Price discrimination, product li				
	g pricing, penetration pricing, Loss Leader pricing. Pricing of mu	_			
UNIT - V	or Cycles Definition and magning share stanistics of Inflation			Hrs:	
	ess Cycles:-Definition and meaning-characteristics of Inflation-				
effects of inflation-	Anti-Inflationary methods - Definition and characteristics of	ı DU	ısıne	ss cy	cies

## **Textbooks:**

- 1. Managerial Economics, Dwivedi D.N. Vikas Publishers
- 2. Managerial Economics, Gupta, TMH

phases of business cycle - steps to avoid business cycle

## **Reference Books:**

1. Managerial Economics, Pearson Education, James L.Pappas and EngeneF.Brigham



## 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



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	EDIANGLA A GGOVINENIG FOR MANAGERG	L	T	P	С			
21E00104	FINANCIAL ACCOUNTING FOR MANAGERS	4	0	0	4			
	Semester			I				
Course Objective								
To introd	luce accounting, accounting rules, accounting process and prepara	tion	of fii	nancia	ıl			
statement								
	n methods of valuation of assets,							
_	e the meaning and interpretation of financial statements through	ratio	anal	ysis				
technique								
	s (CO): Student will be able to							
<ul> <li>Prepare th</li> </ul>	ne financial statements with accounting knowledge							
<ul> <li>Value the</li> </ul>	assets of the business organizations under different methods							
<ul> <li>Analyse</li> </ul>	the financial performance and position of the business organization	on an	d int	erpre	t the			
results fro	om the point of company and investor			-				
UNIT - I Lecture Hrs: 8								
	counting: Definition, Importance, Objectives and principles of a							
	ook keeping Vs Accounting, Single entry and Double entry system							
	f debit & credit. (Only theory)	,						
UNIT - II	`	Lec	ture	Hrs:	12			
The Accounting I	Process: Overview, Books of Original Record; Journal and Subside	liary	bool	ks, led	lger,			
Trial Balance, F	inal accounts: Trading accounts- Profit & loss accounts- Ba	alanc	e sh	eets	with			
adjustments. (Prol	blems on Only Final Accounts)							
UNIT - III	-	Lec	ture	Hrs:1	2			
Valuation of Ass	sets: Introduction to Depreciation- Methods (Simple problems	fron	Str	aight	line			
	hing balance method and Annuity method). Inventory Valuat			ethod				
	on (Simple problems from LIFO, FIFO).							
UNIT - IV		Lec	ture	Hrs:1	2			
Financial Analysi	s -I Analysis and interpretation of financial statements from inv	esto	and	com	pany			
point of view, Lic	quidity, leverage, solvency and profitability ratios – Du Pont Char	t (A	Case	e stud	y on			
Ratio Analysis).					•			
UNIT - V				Hrs:1				
	s-II: Objectives of fund flow statement - Steps in preparation of fu							
	sh flow statement- Steps in Preparation of Cash flow statement -				Cash			
flow and Funds fl	ow statements - Funds flow statement Vs Cash flow statement. (C	nly t	heor	y).				

#### **Textbooks:**

- 1. Financial Accounting, Dr.S.N. Maheshwari and Dr.S.K. Maheshwari, Vikas Publishing House Pvt. Ltd.,
- 2. Accountancy .M P Gupta & Agarwal ,S.Chand

#### Reference Books:

- 1. Financial Accounting ,P.C.Tulisan ,S.Chand
- 2. Financial Accounting for Business Managers, Asish K. Bhattacharyya, PHI
- 3. Financial Accounting Management An Analytical Perspective, Ambrish Gupta, Pearson Education
- 4. Accounting and Financial Management, Thukaram Rao, New Age Internationals.
- 5. Financial Accounting Reporting & Analysis, Stice&Stice, Thomson
- 6. Accounting for Management, Vijaya Kumar, TMH



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- 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	T	P	C				
21E00105		4	0	0	4				
	Semester			I					
Course Objective									
· ·	n descriptive statistics and inferential statistics								
	uce various measurements used to describe the data and inter the r	esul	ts of	the d	ata				
analysis.				c					
	ibe the concept of probability, theorems, and types of probability d	listri	butic	ns of					
data.									
	To impart the computational, analytical and interpretation skills using the data								
	s (CO): Student will be able to		• _ ·	1 1					
	nd statistical techniques popularly used to describe the data in m	ıanaş	geria	i deci	sion				
making.									
	e procedure involved in inferential statistics and appropriate tests for	or gi	ven c	lata.					
<ul> <li>Learn the</li> </ul>	computational skill , interpretation of results of the data analysis.								
<ul> <li>Analyse a</li> </ul>	and differentiate various types of data distribution and its probabilit	y dis	stribu	ition.					
UNIT - I	UNIT - I Lecture Hrs: 12								
Introduction of s	tatistics - Nature & Significance of Statistics to Business, , M	easu	res o	of Ce	ntral				
	- Median - Mode; Measures of Dispersion: range, quartile								
deviation, standar	d deviation, coefficient of variation.								
UNIT - II		Lec	cture	Hrs:	12				
Correlation & R	egression: Introduction, Significance and types of correlation	n –	Me	asure	s of				
	efficient of correlation. Regression analysis - Meaning and ut								
	rison between correlation and regression – Properties of regression	coe	effici	ents-I	Rank				
Correlation.									
UNIT - III				Hrs:1					
	eaning and definition of probability - Significance of proba								
	eory of probability: Addition and multiplication - Binominal dis	stribu	ation	– Poi	sson				
distribution – Nor	mal distribution.								
UNIT - IV				Hrs:1					
	thesis- Hypothesis testing: One sample and Two sample tes								
	ge samples (z-test), One sample and Two sample tests for means of	ot sm	all s	ample	es (t-				
	est: One-way and two way ANOVA.	T		T T	00				
UNIT - V	(A) 1 1 (CAT D) (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Hrs:					
	Methods: Importance of Non-Parametric method – difference b		•						
and non-parametr	ric methods; Chi-square test: Test of Goodness of fit - test fo	r In	depe	ndenc	e of				

## Textbooks:

1. Statistical Methods, Gupta S.P., S.Chand.Publications

Attributes; Sign test: One sample and paired samples data.

2. Business Statistics, J.K.Sharma, Vikas house publications house Pvt Ltd

#### **Reference Books:**

- 1. Statistics for Management, Richard I Levin, David S.Rubin, Pearson,
- 2. Complete Business Statistics, Amir D. Aezel, Jayavel, TMH,
- 3. Statistics 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.



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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/



Hill.

**Online Learning Resources:** 

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

## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	NAME OF STREET AND ON ON ON ON OTHER PARTY.	L	T	P	С				
21E00106	MANAGEMENT INFORMATION SYSTEMS	4	0	0	4				
	Semester			Ι	-				
Course Objective	es:								
	le the basic concepts of data and Management Information System	n anc	l util	ity of	the				
	the managerial decisions.								
	in Management of Information system, MIS design and implement	tatio	n pro	cess	in				
an organi									
	s security, ethical and social issues in management of Informatio	n sys	stem.						
Course Outcomes (CO): Student will be able to									
	anagement of Information system scope, application and challe	nges	s in	mana	ging				
MIS.									
<ul> <li>Understand traditional and modern approaches for data resource management and models.</li> </ul>									
<ul> <li>Evaluate</li> </ul>	product based and process based cost and benefit to implement an	ıd m	ainta	in M	S in				
an organi	zation.								
UNIT - I		Lec	cture	Hrs:	8				
	v- Introduction, Need for MIS and IT nature and scope of MIS, N	MIS (	chara	cteris	stics,				
	role of MIS in global business. Challenges of Managing MIS.				•				
UNIT - II		Lec	cture	Hrs:	12				
Data resource ma	nagement- Data base concepts, The traditional approaches, the r	node	ern a	pproa	ches				
	ement approaches) DBMS, Data models, Data ware housing and m	ninin	g.						
UNIT - III		1		Hrs:1					
	ion of IS- Enterprise systems, ERP, CRM, SCM, DSS, Types of o								
	es, Decision making and Role of MIS, Business intelligence	e an	id K	nowl	edge				
management syste	ems.								
UNIT - IV		1		Hrs:1					
•	IS- Project planning, SDLC, System development models, SDLC,			_					
	system design, Implementation process, Product based MIS evalua	ıtıon.	, Cos	st /Be	nefit				
	Process based calculation, System maintenance	Τ	- 4	TT1	12				
UNIT - V	&Social Issues: IS security threats, Protecting IS,IS Security			Hrs:1					
	plan, IS Ethical Issues, social issues.	I eci	шою	gies,	The				
Textbooks:	pian, 13 Euncai issues, sociai issues.								
	nagerial Perspective, D.P.Goyal, Vikas Publications.								
		Trove.	. LT:11	ſ					
	nent Information Systems Text & Cases, W S Jawadekar, Tata McC	JIW	-HII	.•					
Reference Books			T7 J						
~	nent Information Systems, C Laudon and Jane P.Laudon, et al, Pear	:son	Educ	ation	•				
	ssein Bidgoli, Nilanjan Chattopadhyay, Cengage Learning								
	tion to Information Systems, Rainer, Turban, Potter, WILEY-India	ι.							
_	ment Information Systems, James A. Obrein, Tata McGraw-Hill .								
5. Cases in I	MIS, Mahapartra,PHI.	_	_						

6. Management Information Systems, Gordon B. Davis & Margrethe H.Olson, Tata McGraw-



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https://onlinecourses.nptel.ac.in/noc20\_mg60/preview

https://nptel.ac.in/courses/110/105/110105148/

https://onlinecourses.swayam2.ac.in/cec21\_ge05/preview



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	SKILL ORIENTED COURSE	L	T	P	C
21E00107	BUSINESS COMMUNICATION PRACTICE	0	1	2	2
	Semester			I	
G 01: 4:					
Course Objectives					
	communication concepts	1			
	the students' competence in communication at an advanced leve strate communication skills viz., listening, speaking, reading		1	tina	with
teaching ai		anc	ı WII	ung	witti
	(CO): Student will be able to				
	the communication concepts and				
	ommunication and competence skills				
	apply proficiency in business communication at the workplace	ce ar	nd pr	ofessi	onal
contexts.	apply protections in customers communication at the world		- P-	01000	.01141
UNIT - I		Le	cture	Hrs:	8
	unication - Significance, Scope - Communication Process -	Esse	ential	s of	good
	Channels of Communication -Organisation Structure -				
Communication – U	Jpward, Downward, Horizontal Communication.				
UNIT - II		Le	cture	Hrs:	10
	nication: Verbal - Oral Communication: Advantages and Li				
	Vritten Communication - Characteristics, Advantages & Limit				erbal
Communication: Si	gn language - Body language - Kinesics - Proxemics - Hepatics	: Ch	ronii	nics.	
UNIT - III		Le	cture	Hrs:8	3
Interpersonal Cor	nmunication: Communication Styles, Managing Motivati	on	to	Influ	ence
Interpersonal Comm	munication - Role of emotion in Inter personal Communication -	Lea	dersl	nip sty	yles.
UNIT - IV		La		I Ima. C	)
	unication: Types of barriers – Technological – Socio-Psycho			Hrs:8	
	s, Types of listening.	olog.	icai	Darrie	rs –
UNIT - V	s, Types of listening.	ΙΔ	ctura	Hrs:8	2
	Formal reports – Writing effective letters – Different types of				
	es – Communication etiquettes.	Du	SIIICS	5 1011	518 -
Textbooks:	25 Communication enquences.				
	ommunication: A Practical Approach, Naik, Willey				
	ommunication, C.S.Rayudu, HPH.				
	ommunication, Meenakshi Raman, Oxford University Press.				
Reference Books:	ommunication, Mechanism Raman, Oxford Omversity 11055.				
	ommunication, Shalini Varma, Vikas.				
	ommunication, Raymond V.Lesikar, Neeraja Pandit et al.,TMH				
	ommunications, Hudson, Jaico Publications				
	ommunication for managers, Penrose, Raspbery, Myers, Cengage				
	Communication, Harward Business School, Harward Business Rev		No.	1214.	
	of Business Communication, Rajendra Pal, JS.Korlahhi, S.Chand				
Online Learning I	U U				
	es.swayam2.ac.in/imb19_mg14/preview				
1 11 11 1	a arranama arrain/dam20 d02 a1 ha01/marriana				

https://online-degree.swayam.gov.in/dyp20\_d02\_s1\_hs01/preview



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	INFORMATION TECHNOLOGY LAB	L	T	P	C
21E00108		0	1	2	2
	Semester			I	

#### **Course Objectives:**

- To provide knowledge on applications of information technology and
- To demonstrate the MS Office applications with hands on experience in the lab.
- To explain and exhibit statistical functions of association, testing hypothesis for the data and analyse and interpret the outcome of the data.

#### **Course Outcomes (CO):**

- Prepare and edit the documents with effective presentation to superiors.
- Obtain hands of experience in designing and editing the templates and data in the excel sheets with formulae and functions.
- To test and interpret the business data outcome statistically in an effective and efficient manner.

### **List of Experiments:**

Unit -1

**Introduction to Hardware Component**: (need to explain using images or videos) Various Input output devices and their usage in corporate world- Memories (RAM/ROM) and its types— Various types of processes- Storage devices Internal vs External Unit 2

**Instruction to Operating System** (need to explain using videos) — overview of Windows 7/8.2/10/server- Ubuntu — Linux- various versions of Android- IoS — Capturing GPS enabled pictures- tools for filesharing to Mobile to Mobile- System to Mobile Unit — 3

**MS WORD I-** Over views of various Ribbons- paste special- formatting- usage of Font -Textbox-equations -line spacing – bullets- — page layouts-styles- header and footers – watermark-margins-indent- print preview-split -views- keyboard shortcut keys
Unit -4

**MS WORD** – **II**Mail Merge- Macros- Designing a company letter pad- Time table – letter writing-overview of power point -preparation of company presentation – Unit – 5

**MS Power Point**-Creation of slides-Use of templates and slide designs for creating power point slides- use of drawings and graphics. Developing a Professional presentation on Business Plans, Institutions, Products. Power point shortcut keys

#### References:

- Cox et all- 2007 Microsoft Office System Step-by- Step, First Edition, PHI.
- David Whigam-Business Data Analysis Using Excel, First Edition, Oxford University Press.
- Alexisleon, TMH, 2008, Enterprise resource planning.
- The Oxford Hand Book of Internet studies, William.H.Dulton, Oxford.

#### 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



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	ECONOMETRICS FOR BUSINESS FORECASTING	L	T	P	C
21E04201		4	0	0	4
	Semester			II	
Course Objective					
_	n econometrics and application areas of econometrics in real worl				
	nowledge on predicting techniques appropriate for the business d				
	strate the procedure of hypothesis testing using regression with re				
	s types of regression models and functional forms applicable for	the d	ata.		
	t knowledge on time series and index numbers.				
	s (CO): Student will be able to	1			
	d concept of econometrics and need and application in real world		1		
	erent predicting techniques and functional forms applicable to the	give	en da	ta.	
	vledge on testing hypothesis procedure and interpretation.	dote		ahlaa	
	Ferent types of regression models applicable for different types of and compute the different index values and issues involved in con-				
	and compute the different fidex values and issues involved in condex numbers.	iisti u	CHOI	i Oi a	IIU
UNIT - I	idex numbers.	Lac	tura	Hrs:1	2
	roduction – meaning ,scope and importance of Econometrics –Me				
	oplication areas of Econometrics; Specification: Meaning – Specification:				
_	sion, Sample Regression, Error Term.	Houn	on D	143	
UNIT - II	oron, bumple regression, brief rorm	Lec	ture	Hrs:	12
	egression Model: Simple Linear Regression Model (SLRM) –As	l			
	imation - Ordinary Least Squares Estimation: Point Estimation of				
	eters; Goodness of Fit – Coefficient of Determination (R <sup>2</sup> ) -				
	ng the individual Regression Parameters – Testing the significance				
only).			,	•	
UNIT - III		Lec	ture	Hrs:1	2
Multiple Linear	<b>Regression Model:</b> Multiple Regression Models – Assumptions	of M	ILR 1	mode	land
	mptions (In brief only) - Model with two independent variables				
variables – Interp	retation of MLR equations- Goodness of Fit - Coefficient of D	eterr	ninat	ion (	$R^2$ ) -
	ent of Determination; Hypothesis testing in MLR model (Problem	ms o	nly).		
UNIT - IV				Hrs:1	
	<b>Econometrics</b> : Introduction to Dummy Variables – Qualitative				
models:- Logit -	Features of Logit model - Estimation of logit for Individual da	ata; l	Probi	t mo	del -
	rast logit and probit models - Application areas of logit and prob				
UNIT - V				Hrs:0	
	sting: Introduction to Time series –Components of Time series				
	pes of index number - Unweighted and Weighted Index; Av				
	y and Value Indices; Issues in Constructing and Using Index Num	ibersi	(Case	e stud	y).
Textbooks:	N Colonia Dari Erromatica 2 1 Etc. 1007 M	1			
	N. Gujarati, <b>Basic Econometrics</b> , 3rd Edition, 1995, Mcgraw-Hil	I.			
	ENDERS, "Applied Econometric Time Series", Wiley India.	201	ı		
	ivia, Azhar Iqbal, "Econometrics and business forecasting" Wiley	2014	١		
Reference Books:					

2. Robert Pyndick, Econometric Models and Economic forecasts, 4<sup>th</sup> Edition, Pearsons

College Publishers.

1. Ramanathan, Ramu, "Introductory Econometrics With Applications", 4th Edition Harcourt



## 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



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	OPERATIONS RESEARCH	L	C		
21E00205		4	0	0	4
	Semester			II	
Course Objective					
	e the basic knowledge about Operation Research, importance, a			n area	is of
•	s research and various optimizing techniques in the business oper				
_	different optimization models under typical situations in the bus		_		ion.
	e different game strategies under cut-throat competitive business				
<u> </u>	n optimization tools in solving the management problems thro	ugh 1	mode	elling	and
using mat	nematical approach.				
Course Outcomes	s (CO): Student will be able to				
	d nature, scope and significance of Operation Research and formu	ılatio	n of	given	l
	roblem in a LPP model and solving methods.				
	erent optimizing solutions for various business problems using ap	propi	iate		
_	techniques.				
	e skills to complete a project effectively and efficiently with in the				
UNIT - I		Lec	ture	Hrs:1	.2
	OR: Meaning, Nature, Scope & Significance of OR - Typic				
	rch. The Linear Programming Problem - Introduction, Form				
	blem, Limitations of L.P.P, Graphical method, Simplex method:			zation	and
	el(exclude Duality problems), Big-M method and Two Phase me			T T 1	2
UNIT - II		Lec	ture	Hrs:1	.2
	oblem: Introduction, Transportation Model, Finding initial basic				
	optimality, Unbalanced Transportation problems, Transportation	ion p	robl	ems	with
maximization, Deg		~			
	lem – Introduction, Mathematical formulation of the problem				
	em, Hungarian Algorithm, Multiple Solution, Unbalanced Ass	agnm	ent	probl	ems,
Maximization in A UNIT - III	assignment Model.	Laa	<b>411</b> 00	Hrs:1	0
	sequencing, Johnsons Algorithm for n Jobs and Two machines				
	brough m machines, Two jobs and m Machines Problems.	, 11 J	oos a	ana i	III CC
UNIT - IV	in ough in machines, 1 wo jobs and in machines 1 roblems.	Lec	fure	Hrs:1	0
	ncepts, Definitions and Terminology, Two Person Zero Sum Ga	•			
_	the Point), Principal of Dominance, Mixed Strategy Games (Ga				
	e of Game Theory in Managerial Application.				
UNIT - V		Lec	ture	Hrs:1	2
Project Managem	ent: Network Analysis - Definition -objectives -Rules for cor	struc	ting	net	work
•	ning Critical Path - Earliest & Latest Times - Floats - Applie				and
PERT techniques	n Project Planning and Control - PERT Vs CPM. (exclude Project	ct Cra	ıshin	g).	

- **Textbooks:** 
  - 1. Operations Research / R.Pannerselvam, PHI Publications.
  - 2. Operations Research / S.D.Sharma-Kedarnath
  - 3. Operations Research / A.M. Natarajan, P. Balasubramani, A. Tamilarasi/Pearson Education.

## Reference Books:



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- 1. Introduction to O.R/Hiller &Libermann (TMH).
- 2. Operations Research: Methods & Problems / Maurice Saseini, Arhur Yaspan & 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



**Education India** 

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

## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	BUSINESS ANALYTICS AND DATA SCIENCE	L	T	P	C
21E04203		4	0	0	4
	Semester		I	I	
Course Objective					
	e the student to understand the roles & responsibilities of Business	Ana	llyst a	and	
	entist in business,				
	in the basic concept of data management and data mining techniqu	es, r	nachi	ne	
learning					
	possible for the application of business analytics in various business	s ar	eas.		
	es (CO): Student will be able to				
	siness analytics career opportunities in business analytics				
	and data, big data and the way to manage the data in the organisation				
<ul> <li>Gain kno</li> </ul>	owledge on data visualisation, classification, evaluation and interpre	tatio	n		
<ul> <li>Know da</li> </ul>	ta mining, multidimensional data analysis and concepts of associati	on a	nalys	sis ar	ıd
cluster a					
<ul> <li>Obtain k</li> </ul>	nowledge on machine learning, artificial Intelligence and Framewo	rks :	for b	uildiı	ng
Machine	Learning Systems.				
UNIT - I			cture		
	That is business analytics? Historical Overview of data analysis, I				
	s. Business Analyst, Career in Business Analytics, What is data so	eienc	e, W	hy D	ata
	tions for data science, Data Scientists Roles and Responsibility				
UNIT - II			cture		
	lection, Data Management, Big Data Management, Organization				
	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, Deployn	nent,	Ope	eratic	ons,
Optimization.		Ţ		**	
UNIT - III			ture	Hrs:	
	Data Mining: The origins of Data Mining, Data Mining Tasks, OL				
	l data analysis, Basic concept of Association Analysis and Cluster		•	**	
UNIT - IV			ture		
	Machine Learning: History and Evolution, AI Evolution, St				
	ta Analytics Vs, Data Science, Supervised Learning, Unsupe	rvise	a L	earni	ng,
	earning, Frameworks for building Machine Learning Systems	Τ	.4	TT	
UNIT - V	Business Analysis: Retail Analytics, Marketing Analytics, Fin		cture		:
	tics, Supply Chain Analytics, Marketing Analytics, Fin	ancı	ai Ai	патус	ics,
Textbooks:	ries, Supply Chain Analytics				
	Business Analytics: An Introduction to the methodology and its appl	icati	on		
	Pochiraju, Sridhar Seshadri, Springer	ıcatı	on,		
	o Machine Learning with Python: A Guide for Data Scientists 1st E	ditio	n br	7	
	o Machine Learning with Python: A Guide for Data Scientists 1st E er, Sarah Guido, O'Reilly	uiii(	111, US	′	
	o Data Science, Laura Igual Santi Seguí, Springer.				
Reference Book					
	s: o Data Mining, Pang-Ning Tan, Michael Steinbach, Vipin Kumar, F	00.50	on		
1. minoduction to	Data winning, rang-wing ran, wiichael Steilluach, vipili Kumar, P	cars	UII		



## 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/



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	BUSINESS RESEARCH METHODS	L	T	P	С
21E00204		4	0	0	4
	Semester			II	
<b>Course Objectives:</b>					
To introduce	business research, types and technology used in business rese	arch.			
<ul> <li>To explain in</li> </ul>	detail on research process involved in business research.				
<ul> <li>To discuss so</li> </ul>	ources of data and instruments to collect data				
<ul> <li>To provide k</li> </ul>	nowledge on analysis and interpretation of outcome of the data	in a	scie	ntific	
way.					
<ul> <li>To provide k</li> </ul>	nowledge on descriptive and inferential statistical analysis.				
<ul> <li>To impart cor</li> </ul>	mpetence skills to undertake business research problem and c	arryc	out sc	ientif	ïc
research.					
*Standard Statistica	al tables shall be allowed in the examination				
Course Outcomes (C	CO): Student will be able to				
<ul> <li>Learn types of</li> </ul>	of business research, technology used in business research in te	chno	logic	al era	ì.
<ul> <li>Identify research</li> </ul>	arch problem, appropriate research design and sample design for	or the	prol	olem,	
formulate hyp	pothesis, testing process of hypothesis.				
<ul> <li>Understand s</li> </ul>	ources of data, instruments to collect data, analyse and interpre-	etatio	n of	data.	
<ul> <li>Prepare and p</li> </ul>	present the research report effectively and efficiently.				
UNIT - I		Lec	ture	Hrs:0	)8
<b>Introduction to Bus</b>	iness Research: Definition-Types of Business Research. Scie	ntific	Inve	estiga	tion,
Technology and Bus	iness Research: Information needs of Business - Technologie	es us	ed in	Bus	iness
Research: The Intern	net, E-mail, Browsers and Websites. Role of Business Rese	arch	in N	lanag	gerial
Decisions.					
UNIT - II		Lec	ture	Hrs:1	.2
	ess: Problem Identification: Broad Problem Area-Prelimina				
	Hypothesis Development - Statement of Hypothesis- Proceed				
	earch Design: Types of Research Designs: Exploratory, Descri				
•	udy -Measurement of Variables- Operational Definitions and S				
Ordinal Scales- Ratir	ng Scales- Ranking Scales- Reliability and Validity - Sampli	ing a	nd M	Ietho	ds of
sampling					
UNIT - III				Hrs:1	
Collection and Ana	lysis of Data Sources of Data-Primary and Secondary Sour	ces o	of Da	ıta -	Data
	Interviews: Structured Interviews and Unstructured Interviews				
	aire Construction: Organizing Questions- Structured	and	Un	struct	tured
	delines for Construction of Questionnaires.	•			
UNIT - IV				Hrs:1	
<del>-</del>	and Analysis: Data preparation process, problems in preparation	ation	pro	cess	- An
	ive, Associational and Inferential- Statistical Measures.				
UNIT - V		Lec	ture	Hrs:1	.2

## Presentation. **Textbooks:**

1. Research Methodology – methods & Techniques, C.R. Kothari, Vishwa prakashan.

**The Research Report**: Research Reports-Components-The Title Page-Table of Contents-The Executive Summary-The Introductory Section-The Body of the Report-The Final Part of the Report-Acknowledgements – References-Appendix - Guidelines for Preparing a Good Research report - Oral

2. Research Methods for Business-A Skill Building Approach, Uma Sekaran, John Wiley &



## 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



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

<b>Course Code</b>	DATA WAREHOUSING AND DATA MINING	L	T	P	С
21E04204		4	0	0	4
	Semester			II	

### **Course Objectives:**

- To give an overview of data warehousing and data mining
- To explain data sets, major tasks in data pre-processing
- To explain basic concepts of data warehousing and On-line Analytical Processing
- To educate on data base structures, multidimensional data structures and concepts of Meta Data.
- To impart analysing skills on context of data warehouse
- To explain procedure of getting data into the data warehouse.

### Course Outcomes (CO): Student will be able to

- Understand data warehousing and data mining concepts
- Know data sets, statistical descriptions of data, tasks in pre-processing of data
- Gain knowledge on data warehouse modelling and On-line Analytical Processing of data
- Identify data base structures, multidimensional data structures and learn concepts of Meta data
- Apply procedure of getting data into the data warehouse

UNIT - I Lecture Hrs:10

Introduction: Motivated data mining -Its importance – Meaning of data mining- Data mining functionalities, what kinds of patterns can be mined? are all of the patterns interesting? Classification of data mining systems, data mining task primitives, integration of a data mining system with a database or data warehouse system.

UNIT - II Lecture Hrs:12

Data preprocessing: Types of data sets and attribute values, basic statistical descriptions of data, data visualization, measuring data similarity, data quality, major tasks in data preprocessing, data reduction, data transformation and data, discretization, data cleaning and data integration.

UNIT - III Lecture Hrs:12

Data Warehousing and On-Line Analytical Processing: Data Warehouse-Basic concepts, data warehouse modeling: Data cube and OLAP, data warehouse design and usage, data warehouse implementation, data generalization by attribute-oriented induction, efficient methods for data cube computation, exploration and discovery in multidimensional databases, Data Base Structures – Organizing Relational Data warehouse – Multi-Dimensional Data Structures – Choosing a Structure. Meta Data: Human Meta Data, Computer Based Meta Data for people and computer to use.

UNIT - IV Lecture Hrs:12

Analyzing the Contexts of the Data warehouse: Active Analysis, User Queries – OLAP Constructing a Data warehouse System: Stages of the Project – Developing a Project Plan, Data warehousing Design Approaches – The Architecture Stage.

UNIT - V Lecture Hrs:10

Getting Data into the Data warehouse – Extraction, Transformation, Cleaning, Loading and Summarization. Data Mining, Creating a Decision Tree, Correlation and Other Statistical Analysis, Neural Networks, Nearest Neighbor Approaches, Putting the Results to Use.

#### **Textbooks:**

- 1. Jiawei Han & Micheline Kamber, "Data Mining Concepts and Techniques" Morgan Kaufmann Publishers, 2nd Edition, 2006.
- 2. Margaret H Dunham, "Data Mining Introductory and advanced topics", Pearson education
- 3. James Evans "Business Analytics" Pearson, 2<sup>nd</sup> Edition, 2017

#### **Reference Books:**

- 1. Foster Provost & Tom Faucett "Data Science for Business" SPD
- 2. Efram G. Mallach:Decision Support Systems and Data warehouse Systems TMH.



### 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:**

 $https://online courses.swayam2.ac.in/cec19\_cs01/preview\#: \sim : text = Data\%20 mining\%20 is\%20 the\%20 extraction, predictive\%20 information\%20 from\%20 large\%20 databases.$ 

https://onlinecourses.nptel.ac.in/noc20\_cs12/preview

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



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	R- PROGRAMMING	L	T	P	С	
21E03202		4	0	0	4	
	Semester	· II				
Course Objective	es:					
	e basic knowledge in the area of R-Programming					
<ul> <li>to explain</li> </ul>	methods to explore, import, export and manipulate data and data	fran	ies.			
• Impart kn	owledge on hypothesis tests for estimating or predicting statistical	al me	thod	S		
	s (CO): Student will be able to					
	out R programming overview					
	v to programme In R for data analysis					
	nd concepts and terminology used in R-programming	. 41	مدما			
	emonstrate the procedure to explore, import, export and manipulate				لمسم	
	late hypothesis and testing of hypothesis for predicting models usi	ng K	egres	ssion	ana	
UNIT - I	stical tools for the given data.	Loc	turo	Hrs:1	2	
	Overview and History of R, Getting Help, R Packages: Load					
Managing.	Overview and history of K, Getting Help, K Fackages. Load	ınıg,	msta	amng	anu	
Managing.						
UNIT - II		Lec	ture	Hrs:1	0	
	Control Structures, Data definition types, constants, variables, R	data	types	and		
objects, Reading a	<b>▼ ▲</b>					
UNIT - III				Hrs:1		
	ametic, Logical, Precedence rules Control Structures: Sequencing,					
	nment statement, Control Structures: Selection, Repetition, Combi- loop functions, Flow Control	natio	n, Fu	ınctic	ns,	
UNIT - IV	•	Lec	ture	Hrs:	10	
Exploring Data w continuous and ca	vith R, Import, export and manipulate data and data frames, Statistic tegorical data.	ical s	umn	naries	of	
UNIT - V		Lec	ture	Hrs:	12	
Hypothesis tests, a	and simple regression models, Linear models like ANOVA, linear	regre	essio	n and		
	neralized linear models, Basic graphics & reports of statistical ana					
Textbooks:						
	k. Beginning R: the statistical programming language. John Wiley ohn Mount, and Jim Porzak. Practical data science with R. Mannii			2012.		
Reference Books		<i>O</i> ,				
	· dley, and Garrett Grolemund. "R for Data Science": Import,	Tic	l <sub>v.</sub> T	ransf	orm	
	Model Data. "O'Reilly Media, Inc.", 2016.	, 110	.,, 1	. 1 (1110)	J1111,	
	an. The art of R programming: A tour of statistical software design	n. N	o Sta	rch P	ress.	
2011.		, 1			,	
Online Learning	Resources:					

https://www.youtube.com/watch?v=3iSKFCKLUsI https://onlinecourses.nptel.ac.in/noc19\_ma33/preview



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	General Elective – I	L	T	P	C
21E00207a	ADVANCED COMMUNICATION	2	0	0	2
	Semester			II	
Course Objectives:					
	mmunication concepts				
•	e students' competence in communication at an advanced leve				
	ate communication skills viz., listening, speaking, reading	and	wri	ting	with
teaching aids.					
`	O): Student will be able to				
	e communication concepts and				
	nunication and competence skills				
<ul> <li>Obtain and ap</li> </ul>	ply proficiency in business communication at the workplan	ce an	ıd pr	ofessi	ional
contexts.					
UNIT - I				Hrs:6	
	ll Communication - Effective Listening - Barriers, Steps for				
	Body Language & Modulation, Informative, Persuasion				
•	Obstacles, Effective Reading, Reading Comprehension - E	Effect	ive	Writi	ng –
	laking Methods, Executive Summery.	1			
UNIT - II				Hrs:	_
	eports: Types of Business Letters - Elements; Types of Re				
	ments; Annual Reports - Technical Proposals - Structure - C	ircul	ars -	Notio	ces –
Memos.					
UNIT - III		Lec	ture	Hrs:	3
	Meeting Invitation - Notice - Agenda - Meeting Participant	s - F	Roles	; Me	eting
conduction & Etiquette	e - Minutes of the Meeting – Documentation – Filing;				
UNIT - IV		Lec	ture	Hrs:	3
Communication Strat	egies: Conflict Resolution - Win-Win strategy; Manager	ial N	Vego	tiatio	ns –
Bargaining, Distributiv	ve, Integrative Strategies; Interviews – Types – purpose – prod	cess;			
UNIT - V		Lec	ture	Hrs:	6
Technology for Com	munication: Conventional Modes Vs Computer based Tech	nolo	gies	- E	mail,
	o Soft & Google Tools - Data - Collection - Organization	ng -	- Ar	alyzi	ng -
Presentations using Te	echnology.				

### **Textbooks:**

- 1. Managerial Communication Strategies and Applications, Geraldine E.Hynes, McGrawHill
- 2. Business Communication, C.S.Rayudu, HPH.
- 3. Business Communication, Meenakshi Raman, Oxford University Press.

### Reference Books:

- 1. Business communication, Shalini Varma, Vikas.
- 2. Business Communication, Raymond V.Lesikar, Neeraja Pandit et al., TMH
- 3. Business Communications, Hudson, Jaico Publications
- 4. Business communication Sehgal, khetarpal, Excel Books
- 5. Effective Communication, Harward Business School, Harward Business Review No.1214.
- 6. Communication skills, Sanjay Kumar, Pushpalata, Oxford

### **Online Learning Resources:**

https://onlinecourses.swayam2.ac.in/imb19\_mg14/preview https://www.youtube.com/watch?v=ITHnugowc\_Q



## MASTER OF BUSINESS ADMINISTRATION **BIG DATA ANALYTICS**

Course Code	General Elective – I	L	T	P	С
21E00207b	E-BUSINESS	2	0	0	2
	Semester			II	
Course Objective	es:				
	ts the concepts and various application issues of e-business and var	rious	onli	ne	
<u> </u>	for e-business.				
<ul> <li>To explai</li> </ul>	n various electronic payment systems.				
	s (CO): Student will be able to				
Understar	nd electronic business and related concepts in detail.				
<ul> <li>Identify s</li> </ul>	ecurity threat in e-business and steps, methods to overcome securit	ty iss	ues.		
Know var	rious electronic payment system and business models in the presen	t tecl	nnolo	ogy	
business	world.				
Know the	e-business infrastructure requirements for e-business.				
UNIT - I	•	Lec	ture	Hrs:	6
Introduction to e-	business: Electronic business, Electronic commerce, difference	betw	een (	e-bus	iness
	lectronic commerce models, types of electronic commerce, value				
	merce in India, internet, web based tools for electronic commer				
Interchange, com	ponents of electronic data interchange, electronic data interchange	proc	ess.		
UNIT - II		Lec	ture	Hrs:	6
Security threats	to e- business: Security overview, Electronic commerce th	reats	s, E	ncryp	tion,
	blic key and private key Cryptography digital signatures, digital c				
protocols over pu	iblic networks: HTTP, SSL, Firewall as security control, public	key	infr	astru	cture
(PKI) For Securit	y.				
UNIT - III		Lec	ture	Hrs:	6
Electronic payme	ent system: Concept of money, electronic payment systems, ty	ypes	of	electi	ronic
payment systems,	smart cards and electronic payment systems, infrastructure issues	in E	PS,	Electi	onic
fund transfer.					
UNIT - IV				Hrs: 4	
E-business applic	ations and strategies: Business models & revenue models over	inte	rnet,	emer	ging
trends in e- busin	esse- governance, digital commerce, mobile commerce, strategie	s for	bus	iness	over
web, internet base	ed business models.				
UNIT - V		Lec	ture	Hrs:	6
	astructure and e- marketing: Hard works system software in				
	ness applications infrastructure, what is e- marketing, e-marketin				
strategies.	•	_			
Textbooks:					
1. Dave char	ffey :e-business & e-commerce management- Pearson.				

- 2. E- commerce- e-business :Dr.C.S.Rayudu, Himalaya.

## **Reference Books:**

- Whitley, David (2000) ,e-commerce strategy, Technologies and applications. TMH.
   Schneider Gary P. and Perry, James T(1<sup>ST</sup> edition 2000) Electronic commerce, Thomson Learning.
- 3. Bajaj, Kamlesh K and Nag, Debjani (1st edition 1999) ,e- commerce, The cutting edge of business, TMH Publishing company

### **Online Learning Resources:**

https://onlinecourses.nptel.ac.in/noc19\_mg54/preview



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

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

Course Code	General Elective – I	L	T	P	C
21E00207c	INDUSTRY 4.0 & INNOVATION	2	0	0	2
	Semester	<u> </u>	]	II	
Caura Objectiv	000				
Course Objectiv	le an overview of industry 4.0 and technology based innovations.				
	the theory and concepts with Industrial application of computers				
•	uce the basic concepts of Industry 4.0, Artificial Intelligence,	Ria	Date	and	í
Internet of	- · · · · · · · · · · · · · · · · · · ·	Dig	Data	i and	L
	ss and demonstrate the applications and tools of Industry 4.0.				
	rt knowledge on innovation types, stages of innovation process, and	d cor	mnet	itive	
advantag		1 001	прси	Itive	
	es (CO): Student will be able to				
	and the basic concepts of Industry 4.0 and new technologies in	n de	cisio		
making	and the basic concepts of madsify 4.0 and new teenhologies in	ı uc	C1310	11	
_	the features of Artificial Intelligence and application domains				
	ize the Big data domain stack and Internet of Things				
•	the applications and Tools of Industry 4.0				
	d think innovative ideas based on technology		cc .		
	the knowledge in various industries based on technology to tall	ke ei	rtect:	ive a	.nd
	managerial decision.				
UNIT - I				Hrs:	6
•	ed - Reason for Adopting Industry 4.0 - Definition - Goals a	ınd l	Desig	gn	
Principles -	( 1 ) ( 10 ) D. D. D. D. D. C.	<b>.</b>		CTD1 :	
	Industry 4.0 – Big Data – Artificial Intelligence (AI) – Industrial	Inter	net c	)fTh1	ng
UNIT - II	– Cloud – Augmented Reality – Mixed Reality.	T a		Hrs:	-
	l ence: Artificial Intelligence: Artificial Intelligence (AI) — What &				
	ns of AI -The AI - Environment - Societal Influences of AI - App.				
	ciated Technologies of AI - Future Prospects of AI - Challenges of		OII L	<b>7</b> 0111a	1113
UNIT - III	traced recliniologies of 74 - 1 dealer 1 rospects of 74 - Chancinges of		rture	Hrs:	6
	Γ: Data: Terminologies - Big Data Definitions - Essential of Big				
	erits and Advantages - Big Data Components : Big Data Character				
	eworks - Big Data Applications - Big Data Tools - Big Data F				
Platforms; Intern	et of Things (IoT): Introduction to IoT - Architecture of IoT - 7	Γech:	nolos	gies f	for
IoT - Security in					
UNIT - IV		Leo	cture	Hrs:	6
Applications of	IoT – Manufacturing – Healthcare – Education – Aerospace	and	Def	ence	_
Agriculture – Tra	nsportation and Logistics - Impact of Industry 4.0 on Society: Imp	act o	on Bu	ısine	ss,
	ple. Tools for Artificial Intelligence, Big Data and Data Analytics,				
	augmented Reality, IoT, Robotics.				
UNIT - V				Hrs:	
	ning - Stages of Innovation Life cycle – Types of Innovations - 1	nno	vatio	n as a	ì
	process – Innovation and competitive advantage.				
<b>Textbooks:</b>					

1. Managing Innovation -, By Joe Tidd, John Bessant & et.al., Wiley India Publishers, New



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

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-

 $Tidd/publication/285052130\_Managing\_Innovation/links/5662e4a508ae418a786b8dd8/Managing\_Innovation.pdf$ 



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	Skill Oriented Course	L	T	P	C
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.

#### **Course Outcomes (CO): Student will be able to**

- 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 Experiments:**

#### Unit - 1

**Introduction to Excel**- Cells – name range – references – Creating and editing worksheets-Cell formatting-Creating and using formulas and functions-Use of Macros –Sorting and querying data-Working with graphs and charts – usage of Paste special

#### Unit -2

**Basis of Excel**: Managing Worksheets and Workbooks. - Worksheet Vs. Workbook - Creating new worksheets and workbooks - Deleting worksheets and workbooks - Naming and renaming a worksheet - Toggling between worksheets and workbooks - Copy and Move Worksheets - Hide, Unhide, Group and Ungroup Cells - Hide and Unhide Worksheets - Save and Save As

### Unit-3

**Advanced Excel**: Cell Referencing - Data Validation- Naming a Cell or Range of Cells (Name Manager).- Basic formulas (SUM, COUNTA, AVERAGE, MAX, MIN). Text Functions (RIGHT, LEFT, MID, SUBSTITUTE, FIND, LEN). Date Functions (TODAY, NOW, DAY, MONTH, YEAR, EDATE, EOMONTH, TEXT).

#### Unit – 4

**Advanced Excel II**: Lookup Functions (VLOOKUP, HLOOKUP, MATCH, INDEX). - Logical Functions (IF, AND, OR). -Data Analysis Functions (SUMIF, SUMIFS, COUNTIF, COUNTIFS).- Conditional Formatting, Filtering and Sorting. - Graphs, Charts and Pivot Tables remove duplicates **Unit** – **5** 

**Conducting Online surveys** – usage of Google drive – micro soft online surveys – sharing with the help of social media/ internet- getting responses from online survey- sorting and filter online survey

#### **References:**

• Ms Office Excel-Frye, PHI publications



## 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



### MASTER OF BUSINESS ADMINISTRATION **BIG DATA ANALYTICS**

<b>Course Code</b>	Stratagia Managament	L	T	P	C
21E00301	Strategic Management	4	0	0	4
Semester II					
Course Objecti	/es:				

- To describe and discuss the strategic management process.
- To build skills to develop strategic vision, mission objectives.
- To explain concepts of core competence, strategy for completive advantage.
- To give an understanding about strategic analytical tools and techniques.
- To provide knowledge on strategy formulation, types of strategies to implement.
- To create awareness on various strategy evaluation and controlling approaches.

#### Course Outcomes (CO): Student will be able to

- Know strategic management process
- Obtain strategy implementation, analytical and evaluating skills about various strategies.
- Understand on establishing strategic controls at national and international context

UNIT - I Lecture Hrs: 8

Introduction- Concepts in Strategic Management, Strategic Management as a process

- Developing a strategic vision, Mission, Objectives, Policies - Factors that shape a company's strategy - Environmental Scanning -Concepts of Core Competence, Crafting a strategy for competitive advantage.

UNIT - II Lecture Hrs: 12

Strategic Analysis and Choice: Tools and techniques- Porter's Five Force Model, BCG Matrix, GE Model, SWOT Analysis and TOWS Matrix,. Market Life Cycle Model - and Organizational Learning, and the Experience Curve.

UNIT - III Lecture Hrs:12

Strategy Formulation: Formulation of strategy at corporate, business and functional levels. Strategy Alternatives:- Stability Strategy, Growth Strategy, Retrenchment Strategy, and Combination Strategy, .

Lecture Hrs:12 **UNIT - IV** 

Strategy Implementation: Types of Strategies: Offensive strategy, Defensive strategy, vertical integration, horizontal strategy; Tailoring strategy to fit specific industry and company situations, Strategy and Leadership, Resource Allocation as a vital part of strategy - Planning systems for implementation

UNIT - V Lecture Hrs:12

Strategy Evaluation and control - Establishing strategic controls - Role of the strategist benchmarking to evaluate performance - strategic information systems - Guidelines for proper control- Strategic surveillance -strategic audit - Strategy and Corporate Evaluation and feedback in the Indian and international context.

#### Textbooks:

Strategic Management – J.S.Chandan & Nitish sen Gupta, Vikas

## **Reference Books:**

- Strategic Management Concepts and Cases ,Fred R.David, PHI.
- Strategic Management, Hill, Ireand, manikutty, Cengage.
- Concepts in Strategic Management and Business Policy, Wheelen & Hunger, Pearson Education.
- Strategic Management Text and Cases, V.S.P. Rao, Excel.
- Strategic Management, Ireland, Hoskinsson, Hitt, Cengage.
- Strategic Management Theory and Application, Habergerg, Rieple, oxford.



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- Strategic Management, P. SubbaRao, Himalaya.
- Business policy and strategic management, Sukul Lomash, P.K.Mishra, Vikas

### **Online Learning Resources:**

 $http://rizvihmct.com/wp-content/uploads/2017/02/Semester-VI-strategic-managment.pdf \\ https://sgp1.digitaloceanspaces.com/cakart/5929/study\_contents/Chapter\_1\__Introduction\_to\_Strategic\_Management.pdf$ 

https://old.mu.ac.in/wp-content/uploads/2014/04/Introduction-to-Strategic-Management-book.pdf https://www.cimaglobal.com/Documents/ImportedDocuments/cid\_tg\_strategic\_analysis\_tools\_nov07.pdf.pdf

https://resources.saylor.org/www.resources/archived/site/wp-content/uploads/2013/09/Saylor.orgs-Strategy-Formulation.pdf

https://resources.saylor.org/wwwresources/archived/site/wp-content/uploads/2013/04/BUS300-2.3\_Strategy-Formulation.pdf

 $https://static.careers 360.mobi/media/uploads/froala\_editor/files/Strategy-Implementation- and Control.pdf\\$ 



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	Data Visualization	L	T	P	С
21E04301	Data visuanzation	4	0	0	4
	Semester	III			

### **Course Objectives:**

- To explain the significance of data, basic concepts of Data Visualization(DV).
- To give knowledge on dashboard designing, data discovery, exploration, bid data lake and pitfalls of data visualization.
- To familiar with DV techniques and procedure to create, add and edit features for effective visualization of data.
- To impart knowledge on Data Visualization Tools focusing on TABLUE, Power BI and Olikviews.

### Course Outcomes (CO): Student will be able to

- Understand importance of data, analyzing, reasoning about data through visualizations.
- Study more insights of the data for effective decision making.
- List out properties of DV, goals, functions and framework of DV.
- Gain knowledge on dashboard designing, data discovery, exploration, bid data lake and pitfalls of data visualization
- Acquire knowledge on DV tools TABLEAU, Power BI and Qlikviews to explore meaningful and insightful information in the data.

• Compare and contrast TABLEAU, Power BI and Olikviews.

UNIT – I		Lecture Hrs: 8					
<b>Introduction:</b>	Data	Visualization	Definition,	Graphics	and	Computing,	History
ofDataVisualization,AnalyzingMilestoneData,GoalsofDV,FunctionsofDataVisualization,FrameworkofDataVisualization,StagesofDataVisualization,Properties of Data Visualization							
IINIT _ II			Lecture Hrs: 12				

**Dashboard:** Design principles, Dashboards, SOC Dashboard, Data Discovery and Exploration, Data requirements for visualization, Big Data Lake, Pitfalls of Data visualization.

UNIT – III Lecture Hrs:12

**Data Visualization Techniques & Visualization data:** Creatinga Scatterplot, Addingregressionline to the scatter plot, plotting categories, Labelling the graph, Legend

Layouts, creating a facet, theming, Creating barcharts, Violinplots, density plots, Basic Graphics, the grammar of Graphics & ggplot 2 package (using qplot (), using Geometrics, facets, scaling, Themes and other graphics Transformation), figures with multiple plots.

UNIT – IV Lecture Hrs:12

**DataVisualizationTool:** Tableau, Gettingstartedwith Tableau, Creatingbasiccharts, Creatingcommonvisualizations • Creatingdashboardlayouts, Usingdashboardfilters, Creatingcalculated fields and measures • Using Quick Tablecalculations.

UNIT – V Lecture Hrs:12

**DataVisualizationTools:PowerBI&Qlikview:**GettingstartedwithPowerBi-UploadingdatatoPowerBI-IntroducingQuickInsights-Introductiontoreports-IntroducingVisualInteractions-Decoratingthereport - Savingthereport-Pinning a report-Filtering a report – Introduction to Qlikview – difference between Qlik, Power BI &Tableau

#### **Textbooks:**

- **1.**ColeNussbaumerKnaflic, "StorytellingWithData: ADataVisualizationGuideforBusinessProfessionals", Wileypublications
- 2. KieranHealy, "DataVisualization-APracticalIntroduction", PrincetonUniversityPress.
- 3. ScottBerinato, "GoodCharts: TheHBRGuidetoMakingSmarter, MorePersuasiveDataVisualizations",



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

2016.,

**4.** ClausO. Wilke, "Fundamentals of Data Visualization", O'Reilly Media, Inc.

#### **Reference Books:**

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

### **Online Learning Resources:**

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

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

http://byrneslab.net/classes/biol607/readings/Friendly\_2008\_dataviz\_history.pdf

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

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

http://www.ajtmr.com/papers/Vol11Issue1/Vol11Iss1\_P4.pdf

https://www.sas.com/content/dam/SAS/en\_us/doc/whitepaper1/data-visualization-techniques-106006.pdf

https://datos.gob.es/sites/default/files/doc/file/data\_visualization\_tool\_report.pdf

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

https://wmich.edu/sites/default/files/attachments/u1158/2019/Tableau%20WMU\_2.pdf

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

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

https://cedar.princeton.edu/sites/g/files/toruqf1076/files/media/introduction\_to\_tableau\_training\_0.pdf

https://smetricinsights.com/wp-content/uploads/2021/03/Tableau-VS-QlikView-VS-Power-BI-2019-

Update.pdf



#### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	D 12.42 A 1.42	L	T	P	С
21E04302	Predictive Analytics	4	0	0	4
	Semes	ter	I	(I	
<b>Course Objectives:</b>					
<ul> <li>To explain c</li> </ul>	oncept of analytics and types of analytics				
<ul> <li>To impart kr</li> </ul>	nowledge on predictive methods of qualitative da	ata			
<ul> <li>To infuse kn</li> </ul>	lowledge on methods to predict quantitative data				
To discuss of	document structure, style and document preparat	ion tools			
G G (	66) 6 1 111 11				

#### Course Outcomes (CO): Student will be able to

- Understand analytics and classification
- Acquire theoretical and practical knowledge on qualitative and quantitative methods
- Predict future value on time series data using moving averages and least squares
- Demonstrate presentation skills on document preparation, types of documents
- Write research or review papers in prescribed format using MS office

UNIT – I		Lecture Hrs: 8
T 4 1 41 4 TO 11 41 1	4 D.C. '.' C.A. 1 .' 1 .	11' '' C 1 .' D C' '.'

**Introduction to Predictive analytics:** Definition of Analytics advantage and limitation of analytics – Definition of predictive analytics –Introduction to Descriptive analytics, Predictive analytics, Prescriptive analytics (theory only) - Applications and limitation of predictive analytics.

UNIT – II Lecture Hrs: 12

**Forecasting with Qualitative methods:** Meaning of Qualitative forecasting – Methods of Qualitative forecasting – Criteria to select method of forecasting - Application areas of Qualitative methods - Differentiation between Qualitative and Quantitative forecasting methods.

UNIT – III Lecture Hrs:12

**Linear Regression:** Correlation and Regression - Charting the Relationship - Calculating Pearson's Correlation Coefficient- Simple Regression - Array - Entering Formulas- Multiple Regression - LINEST() function with Multiple Predictors - Using Excel.

UNIT – IV Lecture Hrs:12

**Forecasting with Moving Averages:** About Moving Averages – Types of moving averages Signal and Noise- Lost Periods -Smoothing Versus Tracking - Criteria for Judging Moving Averages - Mean Absolute Deviation - Least Squares – Using Excel.

UNIT – V Lecture Hrs:12

**Working with Documents:** Defining purpose and scope documents, Understanding structure of documents – case studies, articles, white papers, technical reports, minutes of meeting Documentation formats and Styles. Document preparation tools – PowerPoint, Word, Excel.

### Textbooks:

1. Camm/cochran/fry/ohlmann/anderson/sweeney/williams, "Essentials of Business analytics descriptive predictive prescriptive", cengage publishing house.( Student's Handbook for Associate Analytics - III).

#### **Reference Books:**

- Eric Siegel, "Predictive Analytics: The Power to Predict Who Will Click, Buy, Lie, or Die Paperback Illustrated, January 20, 2016", Wiley Publications.
- Conrad Carlberg, "Predictive Analytics: Microsoft Excel Paperback Illustrated, July 2, 2012".
- Kotu, Vijay, BalaDeshpande, "Predictive Analytics and Data Mining: Concepts and Practice with RapidMiner", 1st Edition.

### **Online Learning Resources:**



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

https://www.youtube.com/channel/UCLI5I1QwKqQn0Cf4nzdGKeQ/search?query=predictive%20 analytics and the complex of the complex

https://www.youtube.com/channel/UCfrjJZDwYwfMNUkWWuqzPWQ/search?query=predictive%20analytics

https://www.predictiveanalyticsworld.com/book/pdf/Predictive\_Analytics\_by\_Eric\_Siegel\_Excerpts.pdf

https://bvrithyderabad.edu.in/wp-content/uploads/2018/03/PredictiveAnalytics-HANDOUTS.pdf

 $https://mycourses.aalto.fi/pluginfile.php/1168274/mod\_resource/content/1/PredictiveAnalytics-Part1-2020.pdf$ 

https://mirtech.ir/wp-content/uploads/2018/04/Predictive-Analytics.pdf

https://ncss-wpengine.netdna-ssl.com/wp-content/themes/ncss/pdf/Procedures/NCSS/Logistic\_Regression.pdf

https://www.stat.cmu.edu/~cshalizi/uADA/12/lectures/ch12.pdf

https://www.nemoursresearch.org/open/StatClass/January2011/Class8.pdf

https://ftp.idu.ac.id/wp-

content/uploads/ebook/ip/REGRESI%20LOGISTIK/Practical%20Guide%20to%20Logistic%20Regression%20(%20DDFD::://www.compression.com/second-compression-compression-compress

0PDFDrive%20).pdf

https://www.analyticsvidhya.com/blog/2016/02/guide-build-predictive-models-segmentation/segmentation-segmen

http://www.cpdftraining.org/downloads/Levenbach\_Techniques2017.pdf

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



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	Manhadian Anahadian	L	T	P	С
21E04303	Marketing Analytics	4	0	0	4
Se	emester		III		
Course Objectives:					
To explain basic cond	cepts in marketing				
<ul> <li>To impart knowledge</li> </ul>	on analyzing consumer and busine	ss markets			
To infuse knowledge	on pricing strategies and promotion	nal strategies			
	ng analytics tools and techniques us				
	ge on demand forecasting tools using				

#### Course Outcomes (CO): Student will be able to

- Understand various concepts of marketing
- Implement promotional strategies and pricing strategies for a product

To inject knowledge on tools to recommend buying a product and placing a product

- Classify and predict type of customers using excel
- Compute customer life time value for a product of a company
- Know the tools to recommend buying a product and placing a product

- Know the tools to recommend buy	ing a product and placing a product
UNIT – I	Lecture Hrs: 8
Understanding Marketing Managemen	nt: Concepts of marketing, Marketing environment, Marketing Mix,
Product life cycle, Analyzing competitors	, Conducting marketing research , Creating long term loyalty relationship.
UNIT – II	Lecture Hrs: 12
<b>Connecting With Customers:</b> Analyzing	g consumer & Business Markets, Segmentation Targeting & Positioning
(STP), New product development, Development	oping pricing strategies, Advertising & Sales promotion
UNIT – III	Lecture Hrs:12
Marketing Resources Using Excel: Con	joint analysis, Market segmentation using cluster analysis, Allocation of
marketing resources customer acquisition	and retention, Calculating Customer Life time value (CLTV) using RFM
Analysis.	

UNIT – IV Lecture Hrs:12

**Demand forecasting using Excel:** Modelling trend and seasonality, usage of neural networks, forecasting new product sales - Bass Diffusion model, Nonlinear pricing - Price bundling. (Theory Only)

UNIT – V Lecture Hrs:12

 $\textbf{Recommendation Systems:} \ Classification \ trees \ , \ market \ basket \ analysis, \ Information \ filtering \ system - Content \ based \ , \ Collaborative \ filtering.$ 

### **Textbooks:**

- 1. Wayne L.Winston (2014), Marketing Analytics, Wiley India Private Ltd.
- 2. Rajkumar Venkatesan, Paul Farris, Ronald T.Wilcox (2015), Cutting-Edge Marketing Analytics, Pearson.

#### **Reference Books:**

- 1. Gordon S.Linoff, Michael J.A.Berry (2017), Data Mining Techniques for marketing, Sales and Customer Relationship Management, Wiley India Private Ltd.
- 2. Lilien, Gary L., Arvind Rangaswamy and Arnaud De Bruyn (2013), Principles of Marketing Engineering, Second Edition, published by DecisionPro, Inc.
- 3. U.Dinesh Kumar (2017) Business Analytics, Wiley India Private Ltd.

#### **Online Learning Resources:**

http://www.personal.psu.edu/jxb14/MA/Introduction.pdf

https://engage.marketo.com/rs/460-TDH-945/images/definitive-guide-to-marketing-metrics-marketing-analytics.pdf https://cdn2.hubspot.net/hub/53/blog/docs/ebooks/introduction-to-marketing-analytics.pdf

https://www.youtube.com/channel/UCgp23vdLNaUitOkCxxVnRrg/search?query=marketig%20 analytocs

 $https://www.google.co.in/books/edition/Marketing\_Analytics/w5iOAgAAQBAJ?hl=en\&gbpv=1\&dq=marketing+analytics+pdf\&printsec=frontcover$ 



**Textbooks:** 

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

## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code				L	Т	P	C	•
21E04304	Fina	ncial Analytics	-	4	0	0	4	
21201001		Seme	ster		II	-		
		24114	5001					
Course Objectives:								
•	cept of financial ar	nalytics and investments						
•	•	es trading and settlement n	nechai	nism				
		d, trends and stock marke						
<ul> <li>To impart kn</li> </ul>	wledge on derivativ	ves and role of derivatives	in Inc	dian eco	nomy			
<ul> <li>To infuse inf</li> </ul>	mation on charts a	nd graphs to predict the sh	nare va	alue	•			
<ul> <li>To discuss to</li> </ul>	s and techniques for	or predicting market price	of a s	hare				
Course Outcomes (C	): Student will be	able to						
Understa	d concept of finance	ial analytics and investme	ents					
• Acquire	owledge on securi	ties trading and settlemen	t mecl	nanism				
<ul> <li>know the</li> </ul>	oncept of mutual f	fund, trends and stock man	rket in	ndices				
<ul> <li>Aware of</li> </ul>	on derivatives and	role of derivatives in India	n eco	nomy				
<ul> <li>Demonst</li> </ul>	te and practice cha	arts and graphs to predict t	he sha	are valu	e			
<ul> <li>Compute</li> </ul>	n predicting marke	t price of a share using inc	dicato	rs				
UNIT – I				Lecture	e Hrs: 12			
Introduction to fina	cial and investmen	nt analytics:						
	es of Investment, I	analytics-Introduction to I nvestment Avenues - Sec s - Margin Trading.						
UNIT – II				Lecture	e Hrs: 12			
Performance Evalua	ion:							
Mutual Funds, Types	of Mutual Funds S	schemes, Structure, Trend	s in I	ndian M	Iutual Fu	nds.Ne	et Ass	et
		action to Indian Stock Ma						
Bank Nifty (Theory C								
UNIT – III				Lecture	e Hrs:12			
IntroductiontoDerix	tives•Develonmen	tandGrowthofDerivativeM	//arket	s BriefI	ntroductio	ontoFo	rward	1_
	•	ofDerivatives,Derivativem						
•	• •	tetinIndia-(Theory only)	ar nous	, 1,1			(1)	•
UNIT – IV		( <u>-</u>		Lecture	e Hrs:12			
Technical Analysis	· Chart Patterr	s Candle Stick reading				ehe ite	tradir	1σ
view/money control:	. Chart Taucin	is Candle Stick reading	using	open s	source w	cosites	uaum	ıg
•	art Screen- loadir	g charts from trading vie	w/ M	onev Co	ontrol we	hsite .	.Cand	le
		patterns- Low-Close Doji		-				
		ts- M tops- W Bottoms-						
		oss- – Carry forward tradii					710510	5
UNIT – V		Sally lornard dudi			e Hrs: 08			
	Indices and Tooks	ical Indicators using tradi	na vic			wahai	Δς •	
Why use indicator - 7  – bollinger bands -	ps for using indica ivot Levels — sup	tors-Set up, understanding er trends- MACD- Rain Retail Trader -FII -DIIin st	g, use bow	ofthetec (LiveDa	hnicalInc	licator	s - RS	



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

- 1. Mastering the Stock Market: High Probability Market Timing and Stock SelectionTools by John L. Person Wiley trading
- 2. Investment Analysis and portfolio management, Chandra, Tata McGraw Hill .

#### **Reference Books:**

- Investment, Bodie, McGraw Hill Book Company
- Investment Management, V.K.Balla, S.Chand Company LtdSecurity Analysis and Portfolio Management, Punithavathy Pandian, Vikas

#### **Online Learning Resources:**

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

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

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

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

https://redox-college.s3.ap-south-1.amazonaws.com/kmc/2020/Apr/18/K7QYwjlultBb0xge1tM4.pdf

https://www2.karlin.mff.cuni.cz/~kopa/derivatives.pdf

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

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

https://www.stat.purdue.edu/~wang913/Projects%20and%20Talks/Technical%20Analysis%201.pdf

 $https://srcc.edu/sites/default/files/B.Com(Hons)\_IIIyearVIsem\_FundamentalsofInvestments\_Week2\_Dr.KanuJain.pdf$ 

 $https://www.fidelity.com/bin-public/060\_www\_fidelity\_com/documents/learning-center/Idenitfying-Chart-Patterns.pdf$ 

https://www.elearnmarkets.com/uploads/content\_pdf/MxudjQevBU.pdf

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

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



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	Human Capital Analytics	L	T	P	C
21E04305	Human Capitai Analytics	4	0	0	4
	Semester		I	II	
Course Objective					
	a basic concepts in human resource management and role of HR r	nanag	ger		
	knowledge on HR analytics, HR data sources				
	n models for predicting effectiveness of HRM system				
	s importance of HR analytics and scope of big data in HR				
<ul> <li>To elucid</li> </ul>	ate methods of performance appraisal system				
	and demonstrate dashboard creation on HR data in Excel				
Course Outcomes	s (CO): Student will be able to				
<ul> <li>Understan</li> </ul>	d concepts in human resource management and role of HR management	ger			
<ul> <li>Obtain kn</li> </ul>	owledge on HR analytics, HR data sources				
Know the	models for predicting effectiveness of HRM system				
<ul> <li>Aware of</li> </ul>	methods of performance appraisal system				
<ul> <li>Exhibit sk</li> </ul>	ills in creating dashboard on HR data in Excel				
UNIT – I		Lect	ure I	Irs: 8	,
Introduction : Mea	aning of HR and HRM, Objectives of HRM, Nature & Scope of	HRM	I, Sig	nific	ance
of HRM and Func			, ,	,	
UNIT – II		Lect	ure F	Irs: 1	2
	idying HR analytics, emergence of HR analytics, skills require				
Advantages of HR	Analytics, Making the Best use of HR Analytics, Challenges to				rtics,
UNIT – III		Lect	ure I	Hrs:12	2
Employee Data a	nd sources: Importance of data availability and governance,	Emp	loyee	prii	nary
sources, Employee	e data secondary sources, HRMS/HRIS and data sources; Analyti	cs fra	me v	vorks	like
LAMP, HCM:21 N					
Types of Analytic	s, pitfalls of HR Analytics, Future of HR Analytics, The scope	e of b	ig da	ıta in	HR
Analytics					
UNIT – IV		Lect	ure I	Irs:12	2
Annual Stock takin	ng: Stock taking of performance -Uses –Appraisal system design	: Pro	cess		
	Appraisal methods - MBO and Assessment centre -360 degree app				
	rd. Stock taking of potential- Appraisal for reward - Appraisal for				
Recognition					
UNIT – V		Lect	ure I	Hrs:12	2
Important excel fo	rmulas useful for creating dash boards, VLOOKUP, INDEX, SU	MIF.	AVE	RAC	GEIF
	pplication of Excel Functions in creating HR dash boards, calcu				
salary and Incentiv				T	J
Textbooks:					
LALDOUNS.					

- 1. Moore, McCabe, Duckworth, and Alwan. "The Practice of Business Statistics: Using Data for Decisions", Second Edition, New York: W.H.Freeman, 2008.
- 2. Jac Fitz- enz, John R. Mattox, II, "Predictive analytics for Human Resources", Wiley Publications, 2014.
- 3. Gene Pease Boyce Byerly, Jac Fitz-enz, "Human Capital Analytics", Wiley Publications, 2013.

### **Reference Books:**



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Brian E. Becker, Mark A. Huselid, Mark A Huselid, David Ulrich, "The HR Scorecard: Linking People, Strategy, and Performance", **Harvard Business Review Press; First edition** (1 March 2001. Tracey Smith, "HR Analytics: The What, Why and How".

Jac FITZ-ENZ "The New HR Analytics: Predicting the Economic Value of Your Company's Human", 2010.

### **Online Learning Resources:**

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

https://www.aihr.com/resources/The\_Basic\_principles\_of\_People\_Analytics.pdf

http://u.camdemy.com/sysdata/doc/f/fb30e8a98c5d9a85/pdf.pdf

https://support.sas.com/publishing/pubcat/chaps/65636.pdf



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Course Code	General Elective- II (MOOCS)	L	T	P	C
21E00307a	Entrepreneurship Development	2	0	0	2
	Semester		Ι	II	
Course Objectives					
	in preparation of business plan, contents and effective presentat	ion of	f busi	ness	
plan.	10				
	and Generate new business opportunity,		4 :	~4 a la :	1:4
	and discuss strategies for Decisions under Uncertainty and envir	Onme	ent in	stabi	my,
	ction strategies, Market scope strategy & Imitation strategies on Women entrepreneurship focusing on Rural Entrepreneurship	n and	l		
	con women entrepreneurship focusing on Kurai Entrepreneurship eurship Development Programmes (EDPs) to transform as entrepr				
	(CO): Student will be able to	CHCu	1.		
	new business ventures with new creative business plan models,	cont	ente e	and	
	resentation of business plan.	COIII	ciits a	ına	
	arious strategies for decisions under different scenarios to reduce	risk			
11 0	allenges faced by Women entrepreneurship focusing on Rural E			rs	
	need of Entrepreneurship Development Programmes (EDPs) to t				
	ur with case studies.		01111	••	
UNIT – I		Lec	ture I	Irs: 4	
	Types of ownership, sole trading, partnership, Important features rate entrepreneurship, Intrapreneurship - Role of Government i				
UNIT – II		Leci	ture I	Hrs: 6	
	and Feasibility Studies: The Concept of Project, Project Life				
	ty – Project proposal & preparation of DPR (detailed project repo			5	
C,		,			
UNIT – III		Lec	ture I	Irs:6	
Aspects of the En	trepreneurship: Idea generation – opportunities - SWOT Ana	lysis	- pat	ents	and
	ctual Property Rights. Source of Capital, Debt capital, seed capi				
- Informal Agencie	s In financing entrepreneurs, Technology and business incubator	s.			
UNIT – IV		Lec	ture I	Irs:6	
_	Strategy: Generation of new business opportunity, Decisions v				•
	ronmental instability - Risk Reduction strategies, Market scope	strate	gy- I	mitat	ion
strategies					
UNIT – V			ture I		
		aced	•	won	
•	11 0	ases	of	won	
•	d, Rural Industrialization – Role of NGO's – Organising EDPs –	- Nee	a, Ob	jectiv	es,
	epreneurship Development Programmes.				
Textbooks:					

1. The Dynamics of Entrepreneurial Development and Management, Vasanth Desai,

Himalaya.



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

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

#### **Reference Books:**

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

### **Online Learning Resources:**

https://www.tutorialspoint.com/entrepreneurship\_development

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

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



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<b>Course Code</b>	General Elective- II (MOOCS)	L	T	P	С
21E00307b	PROJECT MANAGEMENT	2	0	0	2
	Semester		I	II	
Course Objective					
	in communication concepts				
	op the students' competence in communication at an advanced lev			. •	•.1
	onstrate communication skills viz., listening, speaking, reading	gand	wrı	tıng	with
teaching					
	es (CO): Student will be able to				
	and the communication concepts and				
	communication and competence skills				
	nd apply proficiency in business communication at the workpla	ice an	id pro	otessi	onal
contexts.	T	т.		T 4	
UNIT – I				<u>Irs: 4</u>	
•	ement: meaning of project, project management, nature of	projec	ets ,	proj	ect
management syst	tem, project life cycle, project management process.				
UNIT – II		Lect	ure I	Irs: 6	1
	s: types of analysis -technical analysis, economic analysis, f	inanci	ial ai	nalysi	is,
sensitivity analys	sis, social analysis, institutional analysis				
UNIT – III				Irs:6	
Organizing syst	tem and processor for project implementation: working of	syste	m, d	esign	of
system, project	work system design, work breakdown structure, project execu-	tion p	olan ,	, proj	ject
procedure manua	.1				
UNIT – IV		Lect	ure I	Irs:6	
Project risk ma	nagement: Concept of risk, five stage process in risk management	nt , ty	pes o	of risl	κs,
Project risk mana	agement – an integrated approach Project risk analysis and manage	ement	(PR	AM)	
UNIT – V		Lect	ure I	Irs:6	
Monitoring and	<b>control</b> : meaning of project monitoring, activities to monitor:	proje	ct cc	ntrol	, the
	ol, post evaluation approach: project benfit monitoring and e				-
	ing and evaluation, project benfit monitoring methods :PBM me				
	activities-project completion-impact evaluation			1	
Textbooks:					

#### **Reference Books:**

1. Project management: jack gido, penna state university, edition 2007.

1. Project management: vasant desai, Himalaya publishing house, edition 2008.

- 2. Project management : s. chowdary publishers,copyrights1998,by mcgraw hill education pvt ltd.
- 3. Project management : jeffie k .pinto ,Indian edition ,published by dorling Kindersley india pvt ltd 2009.
- 4. Project planning scheduling & control: james p .lewis, tata mcgraw hill education pvt ltd. Third edition 2009

### **Online Learning Resources:**



## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

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

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

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

Lecture Hrs:6



UNIT - V

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

## MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	General Elective- II (MOOCS)	L	T	P	C
21E00307c	BUSINESS ETHICS AND CORPORATE	2	0	0	2
	GOVERNANCE				
	Semester		I	II	
Course Objectives					
	ace concept of business ethics, corporate ethics, theories, models	and a	ppro	aches	tor
	naking and ethics in competitive business.				
	n role of ethics in business competition.	. •			
	lear on ethical aspects in various functional areas in the organizat				
_	knowledge on Corporate Governance, structure, theories, philoso	pmes	ana		
	Social Responsibility (CSR). (CO): Student will be able to				
	d concepts of business ethics, corporate ethics, theories, models a	nd or	nroo	ohoo:	for
	naking and ethics in competitive business.	mu a <sub>k</sub>	ргоа	ches .	101
	the role of ethics in business competition.				
	apply ethical aspects in various functional areas in the corporate	hugin	000		
	porate Governance, structure, theories, philosophies and Corpora				
	ility (CSR).	.16 30	Ciai		
•	the stakeholders in CSR and correlate CSR with ethical aspects of	hucin	P66		
UNIT – I	te stakeholders in CSR and correlate CSR with ethical aspects of			Hrs: 4	
	Ethics meaning, need, scope, nature, importance, functions, n				
	proaches to business ethics, source of ethical knowledge for business		-	-	
	en popular myths about business ethics, ethical dilemmas,				
	jor unethical business practices.	ouc	01 0	Jiida	, III
UNIT – II	J	Lec	ture I	Hrs: 6	<del></del>
	:- Ethical approaches, modern decision making, ten amendmen				
	heory of consequentialism, Right Albert Carr's theory of busines				
	duties(rules); Concept of Justice – Types of justice; Indian Eth				
-	tadvaita Philosophy (Ramanuja), Gandhian Ethics, Ethics of Bh				
standards in Indian		Ü	Ü		
UNIT - III		Lec	ture I	Hrs:6	
Ethical aspects in	Organization:- Ethics issues in marketing and advertisemen	it, Et	hical	issue	es in
finance and accoun	nting, Ethical issues in HRM, Production and operations manag	gemei	nt, in	forma	ation
technology, Comb	ating frauds, Cyber crime, Whistle blowing., professional ethics	and	huma	an va	lues,
Decision making a	and types of business companies, Josephson's six Pillars of Cha	racte	r and	Busi	iness
Decision making,					
UNIT - IV				Hrs:6	
_	rnance:- Purpose- Theories and Philosophies of Corporate G				
	d purpose of corporate governance, Theories of corporate governance	ernan	ce, I	rinci	ples,
	nce codes and practices.	_			
	hts and Protection, issues in corporate governance, The Emerging	g Tre	nd in		
corporate governar	ice.				



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**CSR**( **Corporate Social Responsibility**):- Needs, types and nature of social responsibilities, history and evolution of corporate governance in India, Salient features, Structure and Standards of corporate governance in India, Models of corporate governance

#### **Textbooks:**

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

#### **Reference Books:**

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

### **Online Learning Resources:**

https://ddceutkal.ac.in/Syllabus/BECG-MBA.pdf

https://sist.sathyabama.ac.in/sist\_coursematerial/uploads/SBAA1503.pdf

https://www.bimkadapa.in/materials/BECG%20-5-UNITS-PDF.pdf

https://www.augstskola.lv/upload/CSR%20book\_FINAL\_01.2020.pdf

https://www.himpub.com/documents/Chapter2975.pdf

https://www.icsi.edu/media/webmodules/publications/EGAS-Final.pdf



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Course Code	Business Simulation Lab	L	T	P	C
21E00308	9	0	0	2	1
	Semester			II	
G 01: 4:					
Course Objective					
	se the students to learn various online/ offline gathering of the data				
	stand various statistical tools including Excel				
	the students to visualize using various tools including Excel				
I .	them into their functional domains Marketing, Finance and HR				
	rstand the basic data base system of MS Access				
	es (CO): Student will be able to				
	iarize Students with basic to intermediate data gathering skills for	using	vario	ous to	ols
	de students hands on experience on various statistical Utilities				
	proficiency in creating solutions for Data Management and Report				
UNIT – I		Lect	ure F	Irs: 4	
	ata (Using Online/Offline)				
	r of Marketing/HR/revenant management stream - gathering prin				
	ta into excel - sorting and filtering the required shape - Colleti			terinş	g the
secondary data (l	Financial data/ balance sheets/stock data/ mutual fund data/Insuran				
UNIT – II		Lect	ure I	Hrs: 6	)
Statistical Analy	vsis (Using Excel / SPSS / R-studio Open-Source Online tools)				
Formulation of F	Iypothesis - Statistical Calculation of Uni Variable - Bi Variable -	Multi	vari	able -	_
interpretation of	the result				
UNIT – III		Lect	ure F	Irs:6	
Visualization of	Data (Using Excel/Power Bi/ Tableau Public/Other Open Sour	ce Vi	suali	zatio	n
tools)					
Introduction Cha	arts -Rules for Creating Charts- Labels- Title of the chart- Axis of	the cl	nart-	Quicl	K
	o row to column -changing the data – different types charts				
UNIT – IV		Lect	ure I	Irs:6	
Database Creat	ion: Data base creation in HR, FINANCE & MARKETING, Crea	ting S	Sales	Data	base
	ta – Create models using marketing data – Creating HR Data base				
_	ations of NPV, IRR				
UNIT – V		Lect	ure F	Irs:6	
	MS- Access & SPSS: Overview of MS Access – getting started –				
	ribbon – creating data base. Overview of SPSS- Data entry and an				,
features of SPSS					
	-				
Textbooks:					
-	n Davis & Branko Pecar "Business Statistics Using Excel" Oxford	l Univ	ersit	y Pres	SS.
Reference Book	s:				

- David Whigham "Business Data Analysis Using Excel" Oxford University Press.
- Winstion "Excel 2010 Data Analysis and Business Modelling" PHI Learning Private Limited.
- Bajpai "Business Statistics" Pearson.
- D P Apte: Statistical Tools for Managers USING MS EXCEL, Excel Books.



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### **Online Learning Resources:**

https://www.coursera.org/courses?query=microsoftexcel https://onlinecourses.nptel.ac.in

https://swayam.in/Advanced-excel https://swayam.in/spss-lectures



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

<b>Course Code</b>	Evnorimental Learning Preject	L	T	P	C
21E05309	Experimental Learning Project	0	0	2	1
	Semester		I	II	

Experiential learning project is a multifaceted assignment that serves as a group academic and intellectual experience. Students are required to take up a mini project work, in which the student or a team of maximum four students can choose any specific problem of Industry / Industry based project work / social problem that interests them. Student or team need to conduct research on the subject, maintain a portfolio of findings or results, create a final product demonstrating their learning acquisition or conclusions (as a paper, short film, or multimedia presentation), and give an oral presentation before the Project Review Committee consisting of Head of the Department, supervisor/mentor and two other senior faculty members of the department



#### MASTER OF BUSINESS ADMINISTRATION RIC DATA ANAL VTICS

<b>Course Code</b>	Dia data Analytica	L	T	P	C
21E04401	Big data Analytics	4	0	0	4
	Semester	IV			
Course Object					
	ain big data futures and classification of analytics				
	art knowledge on analytics flow for big data and big data stack				
	idate big data tool using Hadoop				
	uss security related aspects in big data				
<ul> <li>To exp</li> </ul>	lain various application areas of big data				
	nes (CO): Student will be able to				
<ul> <li>Unders</li> </ul>	tand big data futures and classification of analytics				
<ul> <li>Acquire</li> </ul>	e knowledge on analytics flow for big data and big data stack				
<ul> <li>Learn b</li> </ul>	ig data tool using Hadoop				
	of security related aspects in big data				
<ul> <li>know t</li> </ul>	ne various application areas of big data				
UNIT - I		Lect	ure H	rs:12	
Introduction to	Big Data: What is Analytics- Descriptive Analytics, Diagnostic	Analyt	ics, Pr	edictiv	e
Analytics, Prese	criptive Analytics. What is Big Data- Characteristics of Big Data	- Volu	ıme, V	elocity	,
Variety, Veraci	y, Value.				
UNIT - II		Lect	ure H	rs: 12	
Analytics flow	and big data stack: Analytics Flow for Big Data- Data Collection	, Data	Prepa	ration,	
Analysis Types	, Analysis Modes, Visualizations, Big Data Stack- Raw Data Sou	irces,	Data A	ccess	
Connectors, Da	ta Storage, Batch Analytics, Real-time Analytics, Interactive Que	erying	, Servi	ng Data	abase
Web & Visuali:	zation Frameworks				
UNIT - III		Lect	ure H	rs:12	
	op: NoSQL, Comparison of SQL and NoSQL, Hadoop -RDBMS				
Distributed Cor	nputing Challenges – Hadoop Overview - Hadoop Distributed Fi	le Sys	tem - I	Process	ing
Data with Hado	op - Managing Resources and Applications with HadoopYARN	- Inter	acting	with H	ladoo
Ecosystem					
IINIT - IV		Lect	ure H	rs·12	

**UNIT - IV** Lecture Hrs:12

Security in Big Data: Security, compliance, auditing, and protection pragmatic steps to securing/ big data classifying data- protecting big data analytics- big data and compliance-the intellectual property challenge

UNIT - V **Lecture Hrs:08** 

Big Data Applications: Business Specification Examples of Big Data- Financial, Web, Healthcare, Internet of Things, Environment, Logistics & Transportation, Industry, Retail.

#### Textbooks:

- 1. AnandRajaraman and Jeffrey David Ullman, "Mining of Massive Datasets", Cambridge
- 2. University Press, 2012.
- 3. David Loshin, "Big Data Analytics: From Strategic Planning to Enterprise Integration with Tools, Techniques, NoSQL, and Graph", Morgan Kaufmann/El sevier Publishers, 2013.
- 4. Frank J. Ohlhorst, "Big data analytics Training Big Data in to big money", wiley publishing house Raj kamal, preetisaxena, "Big Data analytics", Tata Mcgraw hill publishing house

#### **Reference Books:**

- 1. EMC Education Services, "Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data", Wiley publishers, 2015.
- 2. Bart Baesens, "Analytics in a Big Data World: The Essential Guide to Data Science and itsApplications", Wiley Publishers, 2015.
- 3. DietmarJannach and Markus Zanker, "Recommender Systems: An Introduction",



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Cambridge University Press, 2010.

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

Jimmy Lin and Chris Dyer, "Data-Intensive Text Processing with MapReduce", Synthesis Lectures on Human Language Technologies, Vol. 3, No. 1, Pages 1-177, Morgan Claypool publishers.

Online Learning Resources:

 $https://mrcet.com/downloads/digital\_notes/IT/(R17A0528)\% 20BIG\% 20DATA\% 20ANALYTICS.pdf$ 

https://people.cs.kuleuven.be/~joost.vennekens/DN/bigdata.pdf

http://www.diag.uniroma1.it//~rosati/dmds-1516/big-data-intro.pdf

https://www.studocu.com/in/document/apj-abdul-kalam-technological-university/big-data-

analytics/big-data-analytics-module-3/29363497

https://www.coursehero.com/file/56423140/BDA-Unit-2-Notespdf/

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

analytics/big-data-analytics-module-2/29363495

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

beyond-the-syll/11465888

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



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Course Code 21E04402	Supply Chain Analytics	L 4	T 0	P 0	C 4
21EU44U2	Semester	4	_	V	4
	Schester			· •	
Course Objectives:					
	concept of supply chain management, supply chain planning				
	knowledge role of analytics in supply chain				
	eoretical knowledge on supply chain strategies, its developme	nt and	d den	and	
forecasting					
	core components of supply chain analytics and types of supply				
	n knowledge on metrics and indicators for smooth functioning	of su	pply	chain	
	nterrelationship of supply chain and ERP in internet market				
	(CO): Student will be able to				
	concept of supply chain management, supply chain planning				
	wledge role of analytics in supply chain		1.0		
	cal knowledge on supply chain strategies, its development and			oreca	sting
	components of supply chain analytics and types of supply chain	n anal	ytics		
	trics and indicators for smooth functioning of supply chain				
UNIT - I	terrelationship of supply chain and ERP in internet market	Loca	turo I	Hrs:12	)
	pply Chain Management, Evolution of Supply Chain Mana	·			
	gement, Supply Chain Planning, Different views of Supply Ch	_	111, 71	iiaiyt	105 1
UNIT - II		Lec	ture I	Irs:12	2
Supply Chain Strate	egy, Supply Chain Drivers, Developing Supply Chain Strate	egy, S	trate	gic F	it in
Supply Chain, Dema	and Forecasting in Supply Chain.				
UNIT - III		Lec	ture I	Irs:10	)
Defining Supply Ch	nain Analytics - A simple definition, The Three Core Compor	ents o	of Su	pply	Chai
Analytics, How Sup	ply Chain Analytics Works, What Makes for Good Analytics,	Types	of A	nalyt	ics.
UNIT - IV		Lec	ture I	Hrs:10	)
The Importance of S	Supply Chain Analytics - Big Data in the Supply Chain, Look	ing a	t the	Bene	fits o
	anding the Basics of Metrics and KPIs - Strategic G				
Considerations.					
UNIT - V				Irs:12	
	-procurement – E-Logistics – Internet Auctions – E-markets –	- Elec	tronic	Bus	iness
	ion Business Object in SCM				
Textbooks:		~			
	7. Robertson, "Supply Chain Analytics: Using Data to Optimise	e Supp	oly		
chain pi	rocesses", Taylor & Francis publisher				
Reference Books:					
Online Learning I	Resources:				
https://www.tutorial	spoint.com/supply_chain_management/supply_chain_management	ment_	tutor	ial.pd	f
	e.com/watch?v=PmR2SKeY9Ms&list=PLGit8yny_3ANzZMs	JJjeux	Mg-		
	nnel=SupplyChainAnalytics				
1	st.ac.in/2017/Uploads/11/POM-326.pdf				
https://onlinecourses	s.nptel.ac.in/noc22_mg14/preview				



### MASTER OF BUSINESS ADMINISTRATION BIG DATA ANALYTICS

Course Code	PROJECT WORK	L	T	P	C			
21E05403		0	0	20	10			
	Semester	IV						

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

#### **Reference Books:**

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