

UNIVERSITY DEPARTMENT

Program Code: ECGC

2021 – 2022 onwards



BHARATHIAR UNIVERSITY

(A State University, Accredited with "A" Grade by NAAC, Ranked 13th among Indian Universities by MHRD-NIRF, World Ranking : Times - 801-1000, Shanghai - 901-1000, URAP – 1047)

Coimbatore - 641 046, Tamil Nadu, India

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

The graduate will

PEO1:	Attain leadership and problem-solving skills in business environment							
PEO2:	Provide advancement of conceptual and practical knowledge in the field of							
	business process management							
PEO3:	Attain broad knowledge and understanding of the theories, principles, methods,							
	and techniques for data storage, integration, handling, and processing							
PEO4:	Iave substantive knowledge of the entrepreneurial potential							
PEO5:	Have ability to communicate effectively and function efficiently on							
	multidisciplinary teams							
PEO6:	Attain knowledge and skills in statistical modelling for data-intensive problem							
	solving							
PEO7:	Attain machine learning skills to design and implement efficient, data-driven							
	solutions to real world problems							
PEO8:	Have innovation skills and drive the businesses through multifaceted skills							
PEO9:	Attain conceptual and practical knowledge in the field of business management to							
	contribute to nation building while upholding ethical practices							
PEO10:	Have ability to communicate effectively and function efficiently on							
	multidisciplinary teams							
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PROGRAM OUTCOMES (PO)

At the end of the B.Voc. Programme, graduates will be able to

PO1:	Demonstrate a working knowledge on business process
PO2:	Develop relevant skills in excel
PO3:	Develop relevant programming abilities in R for Data Analytics
PO4:	Develop relevant programming abilities in Python for Data Analytics
PO5:	Demonstrate proficiency with statistical analysis of data
PO6:	Develop the ability to build and assess data-based models
PO7:	Execute statistical analyses with professional statistical software
PO8:	Demonstrate skill in data management
PO9:	Demonstrate skill in data visualization
PO10:	Apply data science concepts and methods to solve problems in real-world
	contexts and will communicate these solutions effectively



PSO1:	Understand and apply the concepts and methods of business process services
PSO2:	Interpret results/solutions and identify appropriate courses of action for a given managerial situation
PSO3:	Encourage an aptitude for business improvement, innovation, and entrepreneurial action in the field of data analytics
PSO4:	Develop new or improved innovative business processes from gap analysis through process design in support of an organization's strategic objectives in a socially responsible manner
PSO5:	Evaluate the opportunities for business process and supply chain improvement based on current best practices across industries
PSO6:	Analyze the key business processes that drive the value chain of an organization
PSO7:	Evaluate current global business issues and their impact on various enterprises
PSO8:	Interact effectively and professionally, using influencing, communication and consultative skills across all levels and functions of businesses, in a customer- centric and ethical manner
PSO9:	Integrate appropriate information and other technologies, both existing and emerging, in developing business processes and business models
PSO10:	Work effectively on team projects and research assignments respecting the diversity to all team members
	Concare un press

B.Voc. BUSINESS PROCESS AND DATA ANALYTICS

(For the students admitted from the academic year 2021-22 onwards)

SCHEME OF EXAMINATIONS

				ı of urs	Marks for		rks	S
S. No.	SUBJECT	Lecture	Practical	Duration Exam Ho	CIA	CEE	Total Ma	Credit
Year I	– Semester I	-						
1	Part I: Language Paper I-Tamil/Malayalam/French ##	3	-	3	50	50	100	3*
2	Part II: English I ##	3	-	3	50	50	100	3*
3	Core 1: Principles of Management and Business Organization	5	-	3	50	50	100	5^
4	Core 2: Fundamentals of Business Analytics	6	-	3	50	50	100	6^
5	Core 3: Finance and Accounting for Business Process	5	-	3	50	50	100	5^
6	Allied 1: Mathematics for Data Analytics I	4	-	3	50	50	100	4*
7	# Value Added 1: Environmental Science	2	-	2	-	50	50	2^*
8	@Internship	-	2	-	50	-	50	2^
	Total Credits	28	2					30
Year I	– Semester II	1						
9	Part I: Language Paper II-Tamil/Malayalam/French ##	3	-	3	50	50	100	3*
10	Part II: English II ##	3	-	3	50	50	100	3*
11	Core 4: Managing Business Processes	5	-	3	50	50	100	5^
12	Core 5: Customer Relationship Management	6	-	3	50	50	100	6^
13	Core 6: Computational Finance	-	5	3	50	50	100	5^
14	Allied 2: Mathematics for Data Analytics II	4	-	3	50	50	100	4*
15	# Value Added 2: Human Rights	2	-	2	/-	50	50	2^*
16	@ Internship	-	2	0-n	50	-	50	2^
	Total Credits	23	7	$2^{\circ}/2$	100			30
Year Il	– Semester III							0
17	Core 7: Relational Database Management System	5	2-	3	50	50	100	5^
18	Core 8: Research Methods	6	 -/ 	3	50	50	100	6^
19	Core 9: Campus to Corporate	-	5	3	50	50	100	5*
20	Allied 3: Business Communication	5	-	3	50	50	100	5*
21	AOS1: Data Analysis using SPSS	<u></u>	5	3	50	50	100	5^
22	# Elective 1: Yoga for Human Excellence	2	-	2	-	50	50	2^*
23	@Internship	-	2	-	50	-	50	2^
	Total Credits	18	12					30
Year I	– Semester IV							0
24	Core 10: Marketing Management	5	-	3	50	50	100	5*
25	Core 11: Managerial Economics	5	-	3	50	50	100	5*
26	Core 12: Data Visualization for Business Intelligence	5	-	3	50	50	100	5^
27	Core 13: R Programming	-	5	3	50	50	100	5^
28	Allied 4: Insurance for Business Process Services	4	-	3	50	50	100	4^
29	AOS 2: Supply Chain Management			3	50	50	50	4^
30	# Elective 2: General Awareness	2	-	2	-	50	50	2^*
	Total Credits	25	5					30
Year I	II – Semester V							
31	Core 14: Human Resource Management	5	-	3	50	50	100	5*
32	Core 15: Organizational Behaviour	6	-	3	50	50	100	6^
33	Core 16: Machine Learning for Data Analytics	6	-	3	50	50	100	6^

34	Core 17: Python for Data Analytics	-	6	3	50	50	100	6^
35	AOS 3: Tally for Accounts	-	4	3	50	50	100	4*
36	**Mini Project and Viva Voce	-	3	-	50	50	100	3*
	Total Credits	17	13					30
Year Il	II – Semester VI							
37	Core 18: Data Mining and Data Warehousing	6	-	3	50	50	100	6^
38	Core 19: Digital Marketing	6	-	3	50	50	100	6^
39	Core 20: Business Ethics and Corporate Social Responsibility	6	-	3	50	50	100	6*
40	Core 21: Entrepreneurship Development	6	-	3	50	50	100	6*
41	**Project and Viva Voce	-	6	-	50	50	100	6^
42	\$ SWAYAM Online Course	-	-	-	-	-	-	2 ^{\$}
	Total Credits	24	6					32
	Grand Total Credits for Three Years 3700 18							
1	~ NSQF Assessment: Collection Executive (SSC/Q2214)							
2	2 ~ NSQF Assessment: Associate CRM (SSC/Q2202)							
3	~ NSQF Assessment: Business Intelligence Analyst - (SSC/Q8102)							

4 ~ NSQF Assessment: Associate Analytics (SSC/Q2101)

CIA Continuous Internal Assessment

- **CEE** Comprehensive External Examinations
- AOS Application Oriented Subject
 - * General Component: 12 Credits
 - ^ Skill Component: 18 Credits
 - # Value Added / Elective: No Continuous Internal Assessment. Only University Examination.
 - @ Internship: No University Examination. Only Continuous Internal Assessment
 - \$ Online Course: This can be availed by the students at any time during the course of study and it must be completed before 5th semester. The credits will be given along with the sixth semester marks. Four weeks of online course is considered as one credit course. Students are expected to produce certificates from Swayam, NPTEL, Spoken Tutorial of IIT Mumbai, Coursera and equivalent.

~ NSQF Assessment

- ** **Project / Mini Project: Internal marks 50**: Observation report & Review, **External marks 50**: Presentation, Viva & Final record
- ## Part I: Language Paper Part II: English for Semester I & II will be followed by the Syllabus of BU Affiliated colleges approved by the Bharathiar University



Course code	13A	Principles of Management and Busine Organization	ess	L	Т	Р	С			
Core		Core 1		5	-	-	5			
Pre-requisite		Knowledge about Organisation	Syllab	us Ve	rsion	2021	1-22			
Course Objec	tives:									
 The main objectives of this course are to: 1. Explore the basic concepts and processes of management. 2. Make student understand the Managerial role. 3. Ensure students know the organizational environment. 										
Expected Cou	rse Outcor	nes:								
On the success	ful complet	ion of the course, student will be able to:								
1 Understa	nd the evaluation	ation of managerial concepts				K2				
2 Know the	e planning o	con <mark>cepts in</mark> management and will able to plan	their pro	ojects	K2,	K3, 1	K5			
3 Realize t	he need and	process of staffing in management				K2				
4 Grasp the	e role of lea	der in an organization			K	2, K4	1			
5 Aware of various business natures							K6			
K1 - Remember	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	<mark>al</mark> uate; I	K6 - (Create					
			- 1	24						
Unit:1 Over	view of Ma	ina <mark>gement states and st</mark>			12	Hou	rs			
Meaning – D	efinition –	Evaluation of Management thought: FW Ta	aylor, H	lendry	Fayo	l, Elt	ton			
Mayo, and Pet	er Drucker	- Management as an art - science - profession	n – Princ	ciples	and Fu	inctio	ons			
of Managemen	nt Levels of	Management.	S. 11	20						
		1999 C.	1.		1					
Unit:2 Plan	ning			2 = 1	12	Hou	rs			
Definition – N	Nature and	Characteristics of Planning – Importance –	Types of	of Pla	ns – P	lann	ing			
process – Limi of Authority –	Decentraliz	ganizing: Meaning – Principles and Types of ation – Organization Charts.	Organi	zatior	ı – Del	egat	10n			
Unit.3 Staff	ina				12	How	rc			
Meaning notu	ing re-need in	nortance - functions of staffing recruitment	maan	ing o	$\frac{14}{nd}$	rcas				
recruitment se	lection mag	ning and importance selection process	troinir	ing a	nu sou		01 brd			
recruitment-selection-meaning and importance - selection process – training - principles and										
process of file	I VICW.									
Unit·4 Direc	rting				12	Нош	rs			
Nature and pu	rpose of di	recting – principles – motivation – introduction	on to the	eories	of mo	tivati	ion			
Nature and purpose of directing – principles – motivation – introduction to theories of motivation – Leadership: Styles - Controlling: Definition – Characteristics of control – Steps in controlling – Effective control – Control Techniques. Co-ordination: Definition – Features and Benefits of co- ordination – Techniques of effective co-ordination.										

Un	it:5 Busir	ness Basics	~	~ .		12 Hours
Na	ture and pu	rpose of business	 Characteristi 	cs – Comparis	on among Business –	Professional
and	l employme	ent – various types	of industry w	ith commerce -	- forms of business of	rganization –
sol	e – partners	hip, joint Hindu fa	mily firm – joi	int stock compa	anies – cooperative or	ganizations –
put	olic utilities	and public enterpri	ises.			
						
Un	it:6 Cont	emporary Issues				2 Hours
Ca	se Study, E	xpert Lectures, Onl	line Seminars -	Webinars		
]	Cotal Lecture Hours	62 Hours
Te	xtbook(s)					
1	R. N. Gup	ta, 2005, Principles	s of Manageme	<mark>nt, S.</mark> Chand an	d Company Limited.	
2	Ghuman, I	K and Aswathapa,	K, (2017). Man	agement conce	pts and cases (10th ed.	.), Tata
2	McGraw I	Hills, New Delhi		10		
Re	ference Boo	oks			6	
1	Ramaswar	my, I. (2011). Prin	nciples of Busin	ness Manageme	ent, (8th ed.), Himalay	a Publishing
1	House, Ne	w Delhi.				
2	Koontz, H	, and Weihrich, H	(2016). Essent	tials of Manage	ment: An Internationa	l Perspective
2	(8thed.), T	`ata McGraw Hills,	New Delhi.	501		
3	Stephen P	. Robbins and Day	vid A. Decenze	o , 2012. Fund	amentals of Managem	ient, Pearson
5	Education	, 8th Edition,	1	3/		
4	J.S.Chand	lan, 2010 Managen	nent Concepts a	and Strategies, Y	Vikas Publishing Hous	se,.
5	Tim Hann	agan, 2009 Manage	ement Concepts	s and Practices,	Macmillan India Ltd.,	, 5th Edition,
		A Charles	A COLOR			
Re	ated Onlin	e Contents [MOO	C, SWAYAM	<mark>, NPTE</mark> L, Web	osites etc.]	
1	Principles	of Management -]	NPTEL		y particular	
			SSLL1	LODIT & WINSPA		
Co	urse Design	ed By: Dr. A. Vim	ala and Dr. C.	. Dhayanand		
Ma	pping with	Programme Out	comes			
	COs	PO1	PO2	PO3	PO4	PO5
	CO1	М	S	М	М	М
	CO2	S	S	S	М	М
	CO3	S	S	М	М	М
	CO4	S	S	М	М	М
	CO5	S	S	М	М	М
*S-	Strong; M-	Medium; L-Low	-		·	

Course code	13B	Fundamentals of Business Analytics	5	nalytics L						
Core		Core 2		6	-	-	6			
Pre-requisite		Basic Excel Skills	Syllab	us Ve	rsion	2021	-22			
Course Objec	tives:									
 The main objectives of this course are to: 1. Understand the emerging role of business analytics in organizations. 2. Help learners to make better business decisions. 3. Effectively use and interpret analytic models. 										
Expected Cou	rse Outcor	nes:								
On the success	ful comple	tion of the course, student will be able to:								
1 Understa	nd and criti	cally apply the concepts and methods of busin	ness ana	lytics	K	2, K3	3			
2 Identify,	model and	solve decision problems in different settings	6	•		K4				
3 Interpret manageri	results/solu	whether a problem or an opportunity	on for a	gıven	K	4, K5	5			
4 Create viable solutions to decision making problems										
5 Have a st	rategic und	erstanding of business analytics				K4				
K1 - Remember	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate; I	K6 - (Create					
II	duction	(Benning and	-	-	10	11				
Business Anal	vtics - Sco	ne and Evolutions Data for Business Analy	tics - De	ata Se	te Rio	nou. Dat	rs -9 -			
Metrics - Clas	sification.	Reliability and Validity. Models in Business	S Analyt	ics. t	vpes. P	robl	em			
Solving – Defi	nition – Str	ucturing – Analyzing – Interpretation – Imple	ementati	on.	P					
		1995 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1							
Unit:2 Anal	ytics on Sp	readsheets			12 Hours					
Basic Excel - Add-Ins.	Formulas	 Functions – Basic, Specific Applications, 	Insert,	Logi	cal, Lo	okup) –			
Unit:3 Doso	rintivo And	lytics			13	How	rc			
Data Visualiza	ation - Das	hypers hhoards – tools charts and its types. Databa	se queri	es: ta	hles so	ortin	15 α_			
Pareto analysis and filtering data. Statistical methods for summarizing data: Frequency distribution for categorical data – Frequency distribution for numerical data – Cumulative relative frequency										
distribution – percentiles and quartiles – cross-tabulations – pivot tables and charts.										
Unit:4 Statistical Analysis 13 Hours										
Mean, Mediar	n, Mode, ra	nge variance and Standard deviation for bus	iness de	cisior	. Meas	sures	of			
association – C	Co-variance	, Correlation and it's excel correlation tools a	nd outlie	ers.						

Un	it:5 Sprea	adsheet Modellin	g and Analytics	5		12 Hours
Ma	acro excel a	nd its application	. Spread sheet de	esign – quality –	applications in busir	less analytics
– L	Jsers friendl	y applications – v	what-If analysis a	and Data tables.		
Un	it:6 Cont	emporary Issues				2 Hours
Ca	se Study, E	xpert Lectures, O	nline Seminars -	Webinars		
				T	otal Lecture Hours	62 Hours
Te	xtbook(s)					
1	Evans, J. I	R., (2013), Busine	ess Analytics: Me	ethods, Models,	and Decisions.	
2	RN Prasad	l, 2015 Seema, Fu	undamentals of E	Susiness Analytic	cs, Wiley Revised Ed	ition,
Re	ference Boo	oks				
1	Liebowitz	, J. (2013). Busin	ess analytics: An	introduction. C	RC Press.	
2	Haydn The	omas - 2014 Dem	onoid Business .	<mark>Analysis Fundan</mark>	nentals Pearson First	Edition,
	Nitin R. P	atel, Peter C. Bru	<mark>ce, 2010</mark> Data M	ining for Busine	<mark>ss I</mark> ntelligence: Conc	epts,
3	Technique	es, and Applicatio	<mark>ns in</mark> Microsoft (Office Excel with	<mark>h X</mark> LMiner, GalitShn	nueli , Wiley
	Publication	n 🦲		The second	3	
4	Turban E,	Armson, JE, Lian	ng, TP andSharda	a, 2007 Decision	support and Busines	S
	Intelligenc	e Systems, 8 th E	dition, John Wil	ey and Sons,		
5	Efraim Tu	rban, Ramesh Sh	arda, Jay Aronso	n, David King, 2	2009. Decision Suppo	ort and
	Business I	ntelligence Syste	ms, 9th Edition,	Pearson Education	on	
<u> </u>		G () D (0		ALL		
Re	lated Onlin	e Contents [MO	OC, SWAYAM	, NPTEL, Webs	sites etc.]	1
1	Business A	Analytics for Mar	agement Decisio	on - By Prof. Ru	dra P Pradhan IIT K	haragpur -
	SWAYAN					
C				C. Il	I Dr. C. Dhaman	1
CO	urse Design	ed By: Dr. A. VI	maia and Dr. 5.	Sadnasivam an	la Dr. C. Dhayanan	1
M		Due que un o Ou	COST IN	1001 C		
IVI	COs	Programme Ou	PO2	DO3	DO4	DO 5
		roi	PO2 M	PO3 M	PO4 M	<u>F05</u> M
		2 2	IVI M	IVI M	M	M
	CO2	2	M	S	M	M
	CO4	2	M	S M	M	M
	C04 C05	2 2	S IVI	IVI M	M	<u> </u>
*6	Strong: M	Nadium: L. Law	د د	1 V1	171	3

Cou	rse code	13C	Finance and Accounting for Business Pr	ocess	L	Т	Р	С		
Core	e		Core 3		5	-	-	5		
Pre-	requisite		Fundamental Accounting Knowledge	Syllab	us Ve	rsion	2021	1-22		
Cou	Course Objectives:									
The 1. 4 2. 1 3. 0	 The main objectives of this course are to: 1. Aid students in acquiring skills of competence and competition. 2. Develop top class, highly talented business executives. 3. Give an insight into FandA standards, compliance, and general ledger activities 									
Exp	ected Cou	rse Outcon	nes:							
On t	he success	ful complet	tion of the course, student will be able to:			T				
1	Understa	nd Account	ing Principles and to be Skilled in Accounting	g.		K.	$\frac{2, \mathrm{K}^2}{\mathrm{K}^2}$	1		
2	Gain kno	the acquir	but the Inventory Process in the business processition of knowledge of Accounts receivable	ess servi	ces		K2			
3 Facilitate the acquisition of knowledge of Accounts receivable process and Chart of Accounts.							K2			
Give an insight into Accounting standards, compliance and general ledger activities and to be an Accounts Executive and ERP Finance Functional K2, F						2, K3	3			
5	Acquire l	knowledge	of Accounting Standards and IFRS in Busines	ss.	- 1	K	2, K3	3		
K1 -	Remember	er; K2 - Un	derst <mark>and; K3 - Apply; K4 - Analyse; K5 -</mark> Ev	aluate; I	K6 - (Create				
				81	0					
Unit	$\frac{1}{2}$ Func	lamentals	of Accounting and Business Process Service	es	1	12	Hou	rs		
An	Overview	of Accou	nting – Objectives – Basic Accounting pr	inciples	and	guide	lines	3 — :		
Acco	ounting A	Systems of	Book keeping Classification of accounts	Donvenu Basic	Acco	– ACC unting	ount rule	ing s		
Acc	ounting cy	vcle – Vou	$rac{1}{2}$ $rac{$	ess Pro	cess (Dutsou	rcing	s — 5 —		
Reas	sons for B	PS E-Logis	stics – Facility Management – Classification	of BPS	$\mathbf{b} - \mathbf{B}$	PS ind	ustry	, in		
India – Destination smaller towns for BPS – Challenges										
Unit:2Inventory Management Process12 Hours								rs		
Inventory management – Transportation – Material Requirements Planning(MRP) – Inputs to MRP – Purchase requisition – Purchase order – Meaning of Accounts payable – Vendor Master creation and Maintenance – Invoice processing – Department functions – T and E Processing/ Employee reimbursements – International Commercial Terms(Inco Terms) – Credit note processing – Debit note or Debit memo – Evaluated Receipt Settlement(ERS) – Payment process/vendor payments – Debit balances – Invoice audit and recovery – Vendor Reconciliation – Vendor support – Optical character Reading (Receipt										
ven	uoi suppor	ı – Optical	character Reading / Recognition (OCK).							

Unit:3 Accounts receivable Process and Chart of Accounts 1	12 Hours						
Accounts receivables - introduction - Customer set up - Credit management - boo	oking sales						
order revenue recognition - pre-billing closing reconciliations - collections - cash application -							
reconcile outstanding customer balances – Introduction to General Ledger Accounting – Chart of							
accounts - Intercompany accounting and Reconciliation - various reports (Statutor	ory reports,						
Schedules, variance) – Statutory reports – Statutory accounts–UK.							
Unit:4 Finance and Accounting Technology in Modern Business 1	12 Hours						
Emerging trend in FandA technology – Traditional accounting method – advantages –	limitations						
- modern accounting - advantages and limitations - ERP - integrated systems or	Enterprise						
Resource Planning system – Meaning and Definition of ERP – Need for ERP – H	ERPs with						
complete function – challenges in implementation of ERP – Industries covered u	under ERP						
system– ERP software companies – Oracle Application – SAP – Systems Application	cations and						
Products – Other tools – XBRL definition – Accounting Standards and IFRS – Intro	roduction –						
Scope of accounting standards – Procedure for issuing an Accounting standard – Compl	liance with						
the accounting standards – Indian accounting standards – International accounting st	standards –						
IFRS – international financial reporting standards – Introduction – advantages Int	nternational						
accounting standards board $- XBRL - Structure of IFRS - IFRS.$							
Unit:5 Internal Control Framework of Business Process Services	12 Hours						
Internal controls over Financial reporting – Introduction to operational risk – Intro	aduction to						
provisions of Sarbanes Oxley Act. 2002 – Internal Control Framework – Sarbanes (Oxlev Act						
compliance in an Off shoring environment – Information security – Business Cont	tinuity and						
Disaster Recovery Planning- Operating model of Business Process Services – Cost eff	fectiveness						
and process efficiency – Service areas in BPS – Transaction Flows in a Business Process	s Service –						
Roles and Responsibilities in BPS – Tower wise End to End operation – BPS	terms and						
Definitions - Service Level Agreement - Role of Quality in BPS - Introduction t	to Lean –						
Introduction to Six Sigma – Future BPS	to Lean						
Unit:6 Contemporary Issues	2 Hours						
Case Study Expert Lectures Online Seminars - Webinars	2 110415						
Cuse Study, Expert Dectures, Onnie Seminus - Webnus							
Total Lecture Hours	62 Hours						
Textbook(s)							
1 TCS Material							
2 Jain S P and Narang K I 2014 Advanced Accountancy Kalvani Publishers 20th Edition							
2 Juni 5 Fund Hurang K D, 2017, Advanced Accountancy, Karyani Fubishers, 2011	Lunuon						
Reference Books							
1 Reddy T S and Murthy Financial Accounting Margham Publications 2016 6th Edition							
Keudy L.S and Wurthly Financial Accounting Margnain Publications 2010, oth Edition.							
2 Nagarajan K.L., Vinayagam. N and P. L. Mani , 2010, Financial Accounting, Sultan Chand							
allu 30118 2 M V Khan and D H Jain 2000 "Management A securitine" McCorrect 1.11 541 - 1.11							
3 M Y Khan and P H Jain, 2009, "Management Accounting", McGraw hill, 5th edition							

Palepu Healy and Bernard, 1996, Business analysis and valuation, South western college 4 publication, 2nd edition

5 Porter, G.A., and Norton, C.L. (2013). Financial Accounting - 6e, Cengage Learning.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

- Fundamentals of Financial Accounting Swayam 1
- 2 Financial accounting – IIT Mandi from NPTEL
- 3 Introduction to Computers – Spoken Tutorial
- LibreOffice Writer 4

Course Designed By: TCS, Dr. A. Vimala and Dr. Dhanabakiyam

Mapping with	Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5				
CO1	S	M	М	M	М				
CO2	S	М	М	M	М				
CO3	S	M	S	M	М				
CO4	S	М	М	M	М				
CO5	S	S	M	M	S				
*S Strong: M I	Madium: I Low	and the second second	A DESCRIPTION OF	1-1	1				

S-Strong; M-Medium; L-I



Cou	irse code	1AA	Mathematics for Data Analytics I	L	Т	Р	С	
Allie	ed		Allied 1		4	-	-	4
Pre-	requisite		Knowledge in Probability and Matrix	Syllabı	ıs Ve	rsion	2021	-22
Cou	rse Objec	tives:						
The	main obje	ctives of thi	s course are to:					
1. l	Provide kn	owledge of	a wide range of mathematical techniques and	l applica	tion c	f		
1	nathematio	cal methods	/tools in data analytics.					
Exp	ected Cou	rse Outcor	nes:					
On t	he success	ful complet	ion of the course, student will be able to:					
1	Understa	nd concepts	of matrices and determinants				K2	
2	Understa	nd and appl	y differential calculus			K.	2, K3	3
3	Learn ab	out Integral	cal <mark>culus</mark>				K2	
4	Learn and	d employ th	e basics of statistics for data analysis			K2 a	and I	X3
5	Learn ab	out the role	of <mark>proba</mark> bility distributions in <mark>data</mark> an <mark>alysis</mark>	_		K2 a	and I	X3
K1 -	Remember	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	<mark>al</mark> uate; F	X6 - (Create		
Uni	t:1 Matr	rices and D	eterminants	1		8 I	Iour	S
Def	inition and	l Properties	of Determinants-Definition and Types of Ma	trix, Tra	nspos	se of a	Matı	ix,
Sym	metric, Sl	kew Symm	etric Matrices, Orthogonal matrices, Herm	itian and	d Ske	ew Hei	rmiti	an,
Min	ors and Co	ofactors, Ac	ljoint and Inverse of a Matrix, Cramer's Rule	e, Soluti	on of	Simul	taneo	ous
Line	ar Equatio	ons by Inver	se Matrix Method.	SI/	1			
							-	
Uni	t:2 Diffe	rentiation					lour	'S
Intro	oduction	-Differentia	I Equations of Order and Degree- Cla	Issificatio	on o	t Diff	eren	tial
Equ	ations- Di	ferential of	x^{n} n, sin x, cos x, tan x, cosec x, sec x, cot	t x, log x	κ, e^	x, u v	and	u/v
meth	nods (resul	ts only)- S	imple problems using the above results.					
TT.						0.1	T	
Uni	t:3 Integ	gral Calcult	IS	1 1:66-			lour	'S
Gen	eral Intro	duction of	integral Calculus, integration of Sum and	a airrere	ence	of Ful Interne		ns,
Deti	gration by	Simplifica	notions. Integration of Trigonometric Experies	on by Pa and Dafi	arts,	integra	uon and	01 ita
Rau	onal and n	rrauonai fu	netions, integration of Trigonometric Function	ons, Den	mte I	megrai	and	ns
PIO	bernes.							
Unit	t.A Stati	stics I				81	Jour	e e
	ning and	Definitions	of Statistics - Scope and Limitations Statisti	ical encu	irios			ð the
nroh	olem - Met	hods to be	on Statistics - Scope and Limitations. Statistics amployed types of enquiries - Presentation of	f data bu	n Diac	ramm	o or atic s	ind
Gra	hical Met	hod - Form	ation of Frequency Distribution	i uata Uy		, a 11111		uiu
Gru			and of Prequency Distribution.					

Unit:5	Prob	ability Distributio	ns			8 Hours
Introdu	iction a	nd Definitions of p	robability - Sco	ope and Limitat	tions -Random Variab	le - Types of
Randor	n Varia	ble - Continuous D	istributions (sir	nple problems o	only).	
Unit:6	Cont	emporary Issues				2 Hours
Case S	tudy, E	xpert Lectures, Onl	ine Seminars -	Webinars		
				I	Cotal Lecture Hours	42 Hours
Textbo	ok(s)					
1 Bu	siness N	Mathematics and St	atistics by Dr.	P. R. Vittal		
2 Di	fferentia	al and Integral Calc	ulas by N. Pisk	unov		
3 An	Introdu	ction of Probabilit	y Theory and it	s Applications	by William Feller	
Refere	nce Boo	oks	A 43 13	all a second		
1 Di	fferentia	al Calculus by Char	ndrika Prasad			
2 Int	egral C	alculus by Cha <mark>ndril</mark>	ka Prasad			
3 Nu	merical	Methods by P.Kar	<mark>ida</mark> samy, K. Th	ilagavathy, K.	<mark>Gun</mark> avathi	
4 Fu	ndamen	tal of Mathem <mark>atica</mark>	l Statistics by S	S.C. Gupta	1 Same	
5 Ve	ctor Alg	gebra by N <mark>arayan S</mark>	hanti and P.K.	Mittal	12.	
		and the second	ale -	A		
Relate	l Onlin	e Content <mark>s [MOO</mark>	C, SWAYAM	, NPTEL, Web	o <mark>sites etc.</mark>]	
Di	screte N	Iathematics - By Pr	rof. Sudarshan	Iyengar, Prof. N	Neeldhara IIT Ropar,	IIT
- Ga	ndhina	gar - SWAYAM	had	En la		
~				and a	5 1	
Course	Design	ed By: Dr. A. Vim	ala and Dr. M	uthamilselvan	IS /	
Mappir	ig with	Programme Outcor	nes			
CO)s	PO1	PO2	PO3	PO4	<u>PO5</u>
	<u>)1</u>	M	M	M	M	M
)2 >2	S N	M	M	S N	S
	15	M	S	S	M	S
)4 _	S	M	M		
	15 N ()	S S	8	M	S	5
*S-Stro	ong; M-	viedium; L-Low				

Course code	1FA	Environmental Science		L	Т	Р	С		
Value Added		Value Added 1		2	_	-	2		
Pre-requisite		Understanding in Environment	Svllabı	us Ve	rsion	2021	-22		
Course Obie	rtives:		0						
The main obje	The main objectives of this course are to:								
1 Evolve in	1 ne main objectives of this course are to: 1 Evolve into ecologically informed and socially responsible citizens who are empowered to								
protect the	1. Evolve into ecologically informed and socially responsible citizens who are empowered to protect the natural resources while ensuring sustainable lifestyle and developmental mode								
protoco un									
Expected Cor	arse Outcon	nes:							
On the succes	sful comple	tion of the course, student will be able to:							
1 Gaining	in-depth kn	owledge on natural processes that sustain life			K	1, K2	2		
2 Predictin	ng the cons	equences of human actions on the web of	f life, g	lobal	K	1, K2	2		
² economy	y, and qualit	y of <mark>human life.</mark>							
3 Develop	critical thin	kin <mark>g for env</mark> ironmental protection and conser	vation		K	1, K2	2		
Acquirir	ig values	and attitudes towards understanding er	nvironme	ental-	K	1, K2	2		
4 economi	c-social cha	llenges.							
5 Adoptin	g sustainabi	lity as a practice in life, society, and industry.			K	K1, K2			
K1 - Rememb	er; K2 - Un	<mark>de</mark> rstand; K3 - Apply; K4 - Analyse; K5 - Ev	<mark>al</mark> uate; k	<mark>X6 -</mark> C	reate				
		Free Street and Street	- J						
Unit:1 Mult	idisciplinar	y nature of environmental studies	1.1	1	3 H	Iour	S		
	1	and the second second	1	1					
Unit:2 Natu	ral Resourc	es	ã /	1	4 H	Iour	S		
Unit:3 Ecos	ystems	- 19 M	1		3 H	Iour	S		
			2						
Unit:4 Biod	iversity and	its conservation			3 H	Iour	S		
		SPREATE TO PLEVALE							
Unit:5 Envi	ronmental F	Collution			3 H	Iour	'S		
Unit:6 Con	temporary	Issues			2 H	Iour	S		
Case Study, E	Expert Lectu	res, Online Seminars –Webinars							
					1				
Total Lecture Hours 18 Hours									
Textbook(s)									
1 Erach Ba	rucha, Textl	book for Environmental Studies, UGC							
2 Dr. Radha	a (2019), En	vironmental Studies, Revised Edition Prasann	na Publis	shers					
Reference Bo	oks		07						
1 Dharmen	dra S. Senga	r, (2007) 'Environmental law', Prentice hall o	of India						

2	G. Tyler Miller and Scott E. Spoolman, (2014) "Environmental Science", Cengage Learning
2	India
2	Rajagopalan, R, (2005) 'Environmental Studies-From Crisis to Cure', Oxford University
5	Press,
4	Benny Joseph, (2006) 'Environmental Science and Engineering', Tata McGraw-Hill, New
4	Delhi,
5	Gilbert M. Masters, (2004) 'Introduction to Environmental Engineering and Science', 2nd
5	edition, Pearson Education,
Rel	lated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	Environmental Studies - By Dr. Tushar Banerjee Devi Ahilya Viswavidyalaya, Indore -
1	SWAYAM

Course Designed By: Bharathiar University



Field Work Field Work - 2 - 2 Pre-requisite Awareness in Collection and Payments Syllabus Version 2021-22 Course Objectives: Syllabus Version 2021-22 The main objectives of this course are to: . . . 1. The students will get hands on experience in a company to exhibit their skills learnt. . . 2. The students will gain interaction with company employee in the real work environment. . . 3. The students will get hands on experience in a company to exhibit their skills learnt. K6 1 The students will get hands on experience in a company to exhibit their skills learnt. K6 2 The students will get hands on experience in a company to exhibit their skills learnt. K6 1 The students will gain interaction with company employee in the real work environment. K4 3 The students will gain understanding of general rules, regulation, duties and responsibilities K2 4 They may get good rapport with the organisation for future reference. K3	Course code 16A	ourse code 16A Internship L T							
Pre-requisite Awareness in Collection and Payments Syllabus Version 2021-22 Course Objectives: The main objectives of this course are to: 1. The students will get hands on experience in a company to exhibit their skills learnt. 2. 2. The students will gain interaction with company employee in the real work environment. 3. The students will gain understanding of general rules, regulation, duties and responsibilities. Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 The students will get hands on experience in a company to exhibit their skills learnt. K6 2 The students will gain interaction with company employee in the real work environment. K6 3 The students will gain interaction with company employee in the real work environment. K6 3 The students will gain understanding of general rules, regulation, duties and responsibilities K4 3 The students will gain understanding of general rules, regulation, duties and responsibilities K2 4 They may get good rapport with the organisation for future reference. K3	Field Work	Field Work		-	2	-	2		
Course Objectives: The main objectives of this course are to: 1. The students will get hands on experience in a company to exhibit their skills learnt. 2. The students will gain interaction with company employee in the real work environment. 3. The students will gain understanding of general rules, regulation, duties and responsibilities. Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 The students will gain interaction with company employee in the real work environment. 2 The students will gain interaction with company employee in the real work environment. 3 The students will gain understanding of general rules, regulation, duties and responsibilities 4 They may get good rapport with the organisation for future reference. K3	Pre-requisiteAwareness in Collection and PaymentsSyllabus Version2								
The main objectives of this course are to: 1. The students will get hands on experience in a company to exhibit their skills learnt. 2. The students will gain interaction with company employee in the real work environment. 3. The students will gain understanding of general rules, regulation, duties and responsibilities. Expected Course Outcomes: 0n the students will get hands on experience in a company to exhibit their skills learnt. 1 The students will get hands on experience in a company to exhibit their skills learnt. 1 The students will get hands on experience in a company to exhibit their skills learnt. 2 The students will gain interaction with company employee in the real work environment. 3 The students will gain understanding of general rules, regulation, duties and responsibilities 4 They may get good rapport with the organisation for future reference. K3	Course Objectives:								
Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 The students will get hands on experience in a company to exhibit their skills learnt. K6 2 The students will gain interaction with company employee in the real work environment. K4 3 The students will gain understanding of general rules, regulation, duties and responsibilities K2 4 They may get good rapport with the organisation for future reference. K3	 The main objectives of this course are to: The students will get hands on experience in a company to exhibit their skills learnt. The students will gain interaction with company employee in the real work environment. The students will gain understanding of general rules, regulation, duties and responsibilities. 								
On the successful completion of the course, student will be able to: Image: The students will get hands on experience in a company to exhibit their skills learnt. K6 1 The students will gain interaction with company employee in the real work environment. K6 3 The students will gain understanding of general rules, regulation, duties and responsibilities K2 4 They may get good rapport with the organisation for future reference. K3	Expected Course Outcor	nes:							
1The students will get hands on experience in a company to exhibit their skills learnt.K62The students will gain interaction with company employee in the real work environment.K43The students will gain understanding of general rules, regulation, duties and responsibilitiesK24They may get good rapport with the organisation for future reference.K3	On the successful complet	ion of the course, student will be able to:							
2The students will gain interaction with company employee in the real work environment.K43The students will gain understanding of general rules, regulation, duties and responsibilitiesK24They may get good rapport with the organisation for future reference.K3	1 The students will get	t hands on experience in a company to exhib	oit their sk	tills le	earnt.	K	6		
3The students will gain understanding of general rules, regulation, duties and responsibilitiesK24They may get good rapport with the organisation for future reference.K3	2 The students will gat environment.	in interaction with company employee in the	e real wor	k		K	4		
4 They may get good rapport with the organisation for future reference. K3	3 The students will gai responsibilities	The students will gain understanding of general rules, regulation, duties and responsibilities					2		
	4 They may get good	apport with the organisation for future refer	ence.			K	3		
5 Students may get campus to corporate exposure K3	5 Students may get car	npus to corporate exposure		1		K	3		
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - Create	K1 - Remember; K2 - Un	<mark>derstan</mark> d; K3 - Apply; K4 - Analyse; K5 - E	Evaluate; I	X6 - (Create				
Contraction of the second s		Contra One -		J					

Marks awarding Mode for 50 marks

25 marks will be awarded by the concerned instructor of the department based on the students review progress assigned by the faculty and presentation during the course of internship. Remaining 25 marks will be awarded by conducting public viva in the department with the tutor and the expert (Industry Expert is preferable) assigned by the department head based on the students final report, presentation and viva voce for the creation of portfolio. The students must get certificate with 75% attendance for the 30 Hours. The minimum pass mark is fixed as 30 and failing the above will be instructed to redo the work.

Course Designed By: Dr. A. Vimala, Dr. S. Sadhasivam and Dr. C. Dhayanand

Mapping with Programme Outcomes								
COsPO1PO2PO3PO4PO5								
CO1	S	М	М	S	М			
CO2	S	М	М	S	М			
CO3	S	М	S	S	М			
CO4	S	М	М	S	М			
CO5	S	S	М	S	S			
*S-Strong; M-	Medium; L-Low	•	·	·				



Course code	23A	Managing Business Processes		L	Т	Р	С	
Core		Core 4		5	-	-	5	
Pre-requisite		Understanding of Business Organisation	Syllab	us Ve	rsion	2021	1-22	
Course Objec	tives:							
 The main objectives of this course are to: 1. Understand business process to use it as competitive advantage 2. Develop and define planning and control mechanism 3. Understand the interactions between human behaviour and process design 								
Expected Cou	rse Outcor	nes:						
On the success	ful complet	ion of the course, student will be able to:						
1 Be aware	of the effe	ctive business processes				K2		
2 Learn the	effectual b	usiness functions of BPM			K2,	K3, 1	K6	
3 Recogniz	the ways	of controlling the process in the business			K2,	K3, 1	K6	
4 Understa	nd the vario	bus techniques of quality control in business p	rocess		K2,	K4, 1	K6	
5 Know the	e ways to m	anage the business			K2,	K3, I	K5	
KI - Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate; I	<u> </u>	reate			
Unit.1 Drog	ee Manag	mont		-	12	Uom	rc	
Process manage	$p_{\text{comment}} = D$	efinition-Identification of Business Process-	Core Vs	Supp	ort Pro	ncess	es-	
Components of	of Process	Management-Understanding Internal/External	al Custo	mer a	and Er	d U	ser	
Requirements	- 7QC Tool	s-Why Why Analysis - Failure Mode and Eff	ects Ana	alysis	(FME)	A) .		
-			1			,		
Unit:2 Proc	ess Manago	ement in BPM			14	Hou	rs	
Process Mana	gement in	BPM - Role of BPM in Process Mana	gement	-Typ	ical B	usin	ess	
Processes Out	sourced -O	perating Models – BPM-Lifecycle. Meaning	g of Six	Sigm	a – H	istor	y –	
Applications of	of Six Sig	ma -Variation Measures -Level of Perform	mance	–Cha	racteris	stics	of	
Normal Distrib	oution – CT	Q –Six Sigma Approaches – DMAIC/DFSSS						
Unit:3 Proc	ess Mappir	g Techniques		T		Hou	rs	
Process Mapp	ing Technic	jues – SIPOC-Swim Lane Diagram-Process	Mapping	g 100	ls - S1x	Sig	ma	
Organization-	Six Sigma I	Project Methodology– Denne – Measure – Al	naryze –	Impr	ove- C	ontro)].	
Unit:4 Oual	ity Manago	ement and Lean			12	Нош	rs	
Ouality Mana	igement –	Introduction-Transaction Monitoring -Oua	lity Ass	suranc	e Me	thods	s -	
Process Impro	vements- I	ntroduction to Lean - Lean Principles-Type	s of Wa	aste-K	laizen-	LEA	AN	
tools.								

Unit:5 Delivery and Risk Management 12 Hour							
Delivery Management-Customer Management - Knowledge Management- People Management-							
Iransition Management - Finance Management - Risk Management- Introduction - Risk Factors-							
Types of Risks- Fraud Management- Business Continuity Plan - Identity Management.							
Unit:6 Contemporary Issues 2 Hours							
Case Study, Expert Lectures, Online Seminars - Webinars							
Total Lastura Hours 64 Hour							
Textbook(s)							
1 Fundamentals of Business Process – TCS Material							
Ravi Anupindi , Sunil Chopra , Sudhakar D. Deshmukh -, 2012 Managing Business Process							
² Flows . Pearson Education							
Reference Books							
1 Jeston, John, Nelis, Johan, (2014), Business Process Management. Routledge. ISB 9781136172984.							
https://solutionsreview.com/business-process-management/understanding-difference-lean-siz							
² sigma-business-process-management/							
2 Mathias Weske 2019 Business Process Management: Concepts, Languages, Architectures. 3							
³ ed.							
Marlon Dumas, Marcello La Rosa, Jan Mendling, Hajo A. Reijers, (2013) Fundamentals							
Business Process Management, Springer							
5 Peter Franz and Mathias Kirchmer- 2012 Value-Driven Business Process Management: Th							
Value-Switch for Lasting Competitive Advantage, Mc-Graw Hill,							
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
Business Planning and Project Management - By Dr. Ravi Ahuja Savitribai Phule Pune							
University, Pune - SWAYAM							
2 LibreOffice Calc – Spoken Tutorial							
3 LibreOffice Base – Spoken Tutorial							
Course Designed By: TCS, Dr. A. Vimala and Dr. S Sadhasivam							
Mapping with Programme Outcomes CO- PO1 PO2 PO4							
COS POI PO2 PO3 PO4 PO5 CO1 S S M M M							
CO1 S S M M CO2 S S M M							
CO2 S S MI MI S CO3 S S M M S							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							
CO3 S M M S *S-Strong: M-Medium: L-Low S S S S							

*S-Strong; M-Medium; L-Low

Course code	23B	Customer Relationship Managemen	ıt	L	Т	Р	С		
Core		Core 5		6	-	-	6		
Pre-requisite		Capability to build relationship	Syllabı	us Ve	rsion	2021	-22		
Course Objec	tives:								
 The main object Examines 0 Help comp technology Help the st 	 The main objectives of this course are to: Examines CRM and its application in marketing, sales, and service Help companies align business process with customer centric strategies using people, technology, and knowledge Help the students understand the organizational context of CRM 								
Exported Cou	urso Outoor	magi							
On the success	ful complet	ion of the course student will be able to:							
1 Know the	e need of re	lationship marketing in the business			K2	K3 1	K6		
2 Understa	nd the conc	epts and principles of CRM			K2.	K3.1	K6		
3 Get to kn	ow the vari	ous stages and functions of CRM			K2.	K3. 1	K6		
4 Be aware	of Call Ce	ntre and customer satisfaction measurement			K2.	K3.]	K6		
5 Realize t	he role of m	arketing in CRM			K2.	K3.]	K6		
K1 - Remember	er: K2 - Un	derstand: K3 - Apply: K4 - Analyse: K5 - Ev	aluate: F	X6 - (Create				
Unit:1 Relat	tionship Ma	arketing	1.1	1	12	Hou	rs		
Overview, M	eaning- Ba	asis of Building Relationships- Customer	Lifetim	ie Va	alue- (Conf	lict		
Management a	nd Custom	er Retention.	<u> - </u>	/					
Unit:2 Cust	omor Polot	ionshin Managamant	-		12	Нош	rc		
CRM- Evoluti	ion Meanir	Definition Objectives and Benefits- Rel	ationshir	hetv	veen C	RMa	and		
Technology- C	Creating a C	RM culture- Building blocks of CRM- CRM	Strategie	es- Ty	pes of	CRN	ша И.		
		SPIRATE TO D. STALE							
Unit:3 Func	tions of CF	RM			12	Hou	rs		
Planning CRM	I Project- C	General Business Goals and Objectives- Fram	ework o	of Suc	cessful	CR	M-		
CRM: Implem	entation Ste	eps- Role of CRM and Employees, the HCRN	1 Model,	, Way	Forwa	ard.			
	<u>a</u> ,				10				
Unit:4 Call	Centre		D / H	7 1	12	Hou	rs		
collecting payr tele sales calls,	Objectives, Classification, Functionality, Developments- CRM and Data Warehousing- Steps, collecting payments over the telephone, Converting Customer Enquiries into sales, make outbound tele sales calls, Information Processing- Data Mining Technology and Process.								
Unit:5 CRM	I Marketin	g			12	Hou	rs		
Initiatives- Wl	hat is ECRN	M? - Levels, ECRM Tools- Difference betwee	en CRM	and l	ECRM	- CR	M:		

Uni	it:6 Con	temporary Issues	5			2 Hours		
Cas	se Study, H	Expert Lectures, O	nline Seminars –	Webinars				
				T	otal Lecture Hours	62 Hours		
Tex	xtbook(s)							
1	1 Dr. K. Govinda Bhat, Customer Relationship Management, Himalaya Publishing House, 2010 edition.							
2	Dr. Jaspr	eet Kaur 2012, Cu	stomer Relations	ship Managemer	nt, Kogent Solution			
					-			
Ref	erence Bo	ooks						
	Shraddha	M. Bhome, D	Dr. Amarpreet	Singh Ghura,	(2014), Customer	Relationship		
1	Managen First Edit	nent a theory and lion.	Practice to manage	ge and retain cus	stomers, International	book house,		
2	S. Shajah	an, (1997), Relation	onship Marketing	, McGraw Hill.				
3	Paul Gree	en Breg, (2002), C	ustomer Relation	ship Manageme	ent, Tata McGraw hill			
4	Alok Ku concepts	mar, Chhabisinba and application, B	, Rakesh Sharan iztantra Publicati	na, (2007), Cus	stomer Relationship	Management		
5	S. Shanr	nugansund <mark>aram,</mark>	(2010) Customer	r relationship r	nanagement: moderr	n trends and		
3	perspecti	ves, PHI	1 Alexandre	And S				
			and the second					
Rel	ated Onli	ne Content <mark>s [MO</mark>	OC, SWAYAM	, NPTEL, Webs	sites etc.]			
1	Custome	r Relationship Ma	nagement – IIME	3				
2	Custome	r Relationship Ma	nagement – NPT	EL				
		0						
Cot	urse Desig	ned By: Dr. A. Vi	mala and Dr C.	Dhayanand				
		10			88 1			
Ma	pping wit	h Programme Ou	itcomes	ALC: NO	and the second se			
	COs	PO1	PO2	PO3	PO4	PO5		
	CO1	S	S GATE 1	M D.S. M	М	М		
	CO2	S	S	М	М	Μ		
	CO3	S	S	М	М	М		
	CO4	S	S	М	М	М		
	CO5	S	S	М	М	М		
*S-	Strong; M	-Medium; L-Low						

Course code	23P	Computational Finance		L	Т	Р	С	
Core		Core 6		-	-	5	5	
Pre-requisite		Knowledge in Finance and Accounting	Syllabu	us Ve	rsion	2021	-22	
Course Objec	tives:							
 The main objectives of this course are to: 1. To inculcate the knowledge of MS Excel 2. To understand the basic statistics tools and methods 3. To enable the students to construct spread sheet for basic financial applications using financial functions available in MS Excel. 								
Expected Cou	rse Outcor	nes:						
On the success	ful complet	ion of the course, student will be able to:						
1 Understand	nd basic fu cial tools ir	nctions in Spread sheet and Concepts of Income a Spread Sheet.	me State	ement		K4		
2 Gain kno	wledge of 7	Frend Analysis and Beta Calculation in Spread	d Sheet			K6		
3 Acquire l	knowledge	the Pay-back period and BEP graph in Spread	Sheet			K6		
4 Attain sk Sheet	ill about Ea	rning Per share and Economic Order Quantity	y in Spre	ead		K6		
K1 - Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate; H	X6 - C	Create			
Ex·1 Pren	aration of]	Income Statement and Time Value of Mon	v	-1	12	Hom	rs	
Input: Receipt Functions to b Combo Boxes, Expected Outp Input: Cash Fl	s and Paym be used: Da Controls, S but: Income ows, Function	ents, ata validation, Audit Toolbar, 'fx' – function Scenarios, Goal Seek, Auto Correct. Statement ons to be used: FV, NPER, PMT, PV, TYPE	ns, Conc	lition	al Forr	natti	ng,	
Expected Outp	out: NPV, I	KK, KUI						
Ex:2 Estin	nating the S	Share Price and Calculation of Risk Adjust	ed Rate	9	12	Hou	rs	
Input: Share Prices Functions to be used: Graph, Trend Setting Expected Output: Trend Input: Share Prices, Functions to be used: CAPM Functions								
	out: Deta va				1			
Ex:3 Capit	tal Rationi	ng and Leverage			12	Hou	rs	

Input: Cash Flows
Functions to be used: Solver Parameters
Expected Output: Ranking based on Pay-back period
Expected Output: Ranking based on Fay-back period
Input: Various Cost
Functions to be used: Goal Seek
Functions to be used. Odd Seek
Expected Output: DOL, DFL and DCL; BEP graph
Fx-4 Designing Capital Structure Inventory Management 12 Hours
Input: Summarized Income Statement
Functions to be used: Cool Seek
Functions to be used. Goal Seek
Expected Output: EPS, EPS growth rate.
Input: Inventory data
Functions to be used. Scenarios
Functions to be used. Scenarios
Expected Output: EOQ, Max level, Min level, Graph.
Ex:5 Credit Policy and Cash flow Estimation 12 Hours
Input: Opening and Closing Receivables.
Functions to be used: Min, Max
Expected Output: Aging Schedule
Input: Cash flows
Functions to be used: Auto correct
Expected Output: Cash Budget
Total Lecture Hours 60 Hours
Textbook(s)
Bodhanwala. R. J., (2010), Financial Management using Excel Spreadsheet, Taxmann
¹ Publication, New Delhi. 3rd Edition.
2 Mayes Timothy R, 2013 Financial Analysis with Microsoft Excel, Cengage,.
Reference Books
1 S.N. Maheshwari., (2014), Elements of Financial Management, Sultan Chand and Sons.
Prasanna Chandra (2007) Fundamentals of Financial Management Tata McGraw Hills
² Publishing Company Limited.
M.Y. Khan and P.K.Jain , 2008. Financial management, Text, Problems and cases Tata
McGraw Hill, 5 th edition
Brigham, Ehrhardt, 2010 Financial Management Theory and Practice, 13 th edition, Cengage
⁺ Learning
_ Aswat Damodaran, 2013 Corporate Finance Theory and practice, John Wiley and Sons, 3rd
⁵ edition.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1 https://www.excel-easy.com/ WEBSITE

Course Designed By: TCS, Dr. A. Vimala and Dr. Sumathi

Mapping with Programme Outcomes

mapping min		comes			
COs	PO1	PO2	PO3	PO4	PO5
CO1	М	S	М	S	S
CO2	S	S	S	S	S
CO3	S	S	S	S	S
CO4	S	S	S	S	S
CO5	S	S	S	S	М
*S-Strong; M-	Medium; L-Low	0.001	and the second		



							1	
Cou	rse code	2AA	Mathematics for Data Analytics II		L	Т	Р	С
Allie	ed		Allied 2		4	-	-	4
Pre-	requisite		Mathematics for Data Analytics I	Syllabu	ıs Ve	rsion	2021	1-22
Cou	rse Objec	tives:						
The	main obje	ctives of thi	s course are to:					
1. I	Provide kn	owledge of	a wide range of mathematical techniques and	applicat	tion c	of		
1	nathematio	cal methods	t/tools in data analytics.					
Exp	ected Cou	rse Outcon	nes:					
On t	he success	ful complet	ion of the course, student will be able to:					
1 Understand concepts of Vector Algebra							K2	
2	Understa	nd and app	y differential calculus			K2 :	and I	Χ3
3	Learn abo	out Integral	calculus				K2	
4 Learn and employ the basics of statistics for data analysis						K2 :	and I	Χ3
5	5 Learn about the role of probability distributions in data analysis K2 and K3							
K1 -	Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate; k	<u> (</u> (Create		
					- 4		-	
Unit	t:1 Vecto	or Algebra		1		81	lour	'S
Def: Trip	inition, Ad	and Vector	Triple Product, Applications of Vectors (sim	ple prob	two N lems	ectors / ectors/	, Sca	ılar
		113	and the second second	AT	1			
Unit	t:2 Num	erical Integ	gration	ST.	1	8 H	Iour	'S
Trap	pezoidal R	ule, Simpso	on's 1/3 Rule, Simpson's 3/8 Rule, Newton - F	Raphson	Rule.			
			-83 (S ²)					
Unit	t:3 Diffe	rentiation	Calculus II	2.		8 H	Iour	S
Diff	erentiation	n of function	on functions (chain rule), Inverse Trigonome	etric fun	ction	s and 1	Impli	icit
func	tions. Su	ccessive d	ifferentiation up to second order (param	etric for	rm r	not inc	lude	ed).
Defi	nition of d	lifferential e	equation, order and degree, formation of diffe	erential e	quation	on. De	finiti	ion
– Pa	rtial differ	entiation of	two variables up to second order only. (Simp	ole Probl	ems.)			
Unit	t:4 Statis	stics II		<u> </u>	1 1	81	lour	'S
Mea	sures of I	Jispersion	- Range, Quartile Deviation, Mean Deviation	on, Stand		Deviati	$\frac{100}{7}$	ind
Co-e	efficient o	I Variation	1. Skewness – Meaning – Measures of	Skewnes	S - 1	Pearson		ind
DOW Door	riey s co-e	ficient of f	Skewness. Correlation – Meaning and Defini	uon - SC	auer	ulagra	III, K	ari
rear	son s co-e							
Unit	-5 Droh	ahility and	Random Variables			QT	Iour	•6
Prol	$\frac{100}{100}$	The avions	of probability - conditional probability - P	laves' th	eorer	n_disor	ete o	and
cont	inuous ran	dom variał	ples-joint distributions-marginal and condition	nal distr	ibutic	n-uiser	aria	nce

and	linear regression.	
Un	it:6 Contemporary Issues	2 Hours
Ca	se Study, Expert Lectures, Online Seminars - Webinars	
	Total Lecture Hours	42 Hours
Te	xtbook(s)	
1	Business Mathematics and Statistics by Dr. P.R. Vittal	
2	Differential and Integral Calculas by N. Piskunov	
3	An Introduction of Probability Theory and its Applications by William Feller	
Ref	ference Books	
1	Differential Calculus by Chandrika Prasad	
2	Integral Calculus by Chandrika Prasad	
3	Numerical Methods by P.Kandasamy, K. Thilagavathy, K. Gunavathi	
4	Fundamental of Mathematical Statistics by S.C. Gupta	
5	Vector Algebra by Narayan Shanti and P.K. Mittal	
Rel	lated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	Discrete Mathematics - By Prof. Sudarshan Iyengar, Prof. Neeldhara IIT Ropar,	IIT
I	Gandhinagar - SWAYAM	
	Securities and The The	
Co	urse Designed By: Dr. A. Vimala and Dr. Muthamilselvan	

Course code	2FB	Human Rights	Т	Р	С				
Value Added	<u> </u>	Value Added 2		2	-	-	2		
Pre-requisite		Awareness on Ethics and Values	Syllabu	us Ve	rsion	2021	-22		
Course Objec	tives:								
 The main objectives of this course are to: 1. Create awareness, conviction and commitment to values for improving the quality of life through education, and for advancing social and human wellbeing 									
Expected Cou	rse Outcon	nes:							
On the success	ful complet	ion of the course, student will be able to:							
1 Understand human values and value education						K1			
2 Learn the	eir role in na	ational development				K1			
3 Understa	nd global d	evelopment with ethics and values				$\frac{K1}{K1}$			
4 Learn various therapeutic methods						$\frac{KI}{V^{1}}$			
J Learn and	$r = \mathbf{K2} - \mathbf{Un}$	d numan rights derstand: K3 - Apply: K4 - Applyse: K5 - Fy	aluate I	76 - (reate				
KI - Kememok	.1, K2 - OII	derstand, KS - Appry, K4 - Anaryse, K5 - Ev		XU - C	Icate				
Unit:1 Conc Deve	ept of Hun lopment	nan Values, Value Education Towards Pers	sonal	4	3 H	Iour	'S		
Aim of educat	tion and val	ue education; Evolution of value-oriented ed	ucation;	Conc	ept of	Hum	ian		
values; types o	of values; C	omponents of value education. Personal Deve	elopmen	it: Sel	t-analy	/\$1\$ 8	ind		
challenged R	sensitizati	age experience maturity family member	chanten s peigh	igea,		orke	II y arc		
Character For	mation To	wards Positive Personality: Truthfulness.	Constr	uctivi	, co-w tv. Sa	crifi	лз. ce.		
Sincerity, Self-	-Control, A	ltruism, Tolerance, Scientific Vision.	Consu	activi	<i>,</i> , <i></i>		,		
	,	When a server a with the							
Unit:2 Value	e Educatio	n Towards National and Global Developme	ent		4 I	Iour	S		
National and	Internation	al Values: Constitutional or national value	s - Den	nocra	cy, soo	cialis	m,		
secularism, equ	uality, justi	ce, liberty, freedom, and fraternity. Social Val	lues - Pi	ty and	l probi	ty, se	elf-		
control, univer	rsal brother	hood. Professional Values - Knowledge thi	rst, sinc	erity	in pro	fessi	on,		
regularity, pur	nctuality, a	nd faith. Religious Values - Tolerance, wi	sdom, c	harac	ter. A	esthe	tic		
values - Love	and appre	clation of interature and fine arts and response	ect for	the sa	ame. N	atio	nai		
		lai understanding.							
Unit:3 Impa	ct of Glob	al Development on Ethics and Values			3 H	Iour	S		
Conflict of cr	oss-cultura	l influences, mass media, cross-border educ	cation, r	nateri	alistic	valu	es,		
professional c	hallenges,	and compromise. Modern Challenges of	Adolesc	ent l	Emotio	ns a	ind		
behaviour; Sex	and spiritu	ality: Comparison and competition; positive a	and nega	tive t	hought	s.			

Unit:4 Therapeutic Measures	3 Hours
Control of the mind through a. Simplified physical exercise b. Meditation - Object	ctives, types,
effect on body, mind and soul c. Yoga - Objectives, Types, Asanas d. Activities: (i)	Moralisation
of Desires (ii)Neutralisation of Anger (iii)Eradication of Worries (iv)Benefits of Bless	ings
Unit:5 Human Rights	3 Hours
Concept of Human Rights - Indian and International Perspectives a. Evolution of H	uman Rights
b. Definitions under Indian and International documents 2. Broad classification of H	uman Rights
and Relevant Constitutional Provisions. a. Right to Life, Liberty and Dignity b. Righ	t to Equality
c. Right against Exploitation d. Cultural and Educational Rights e. Economic Right	s f. Political
Rights g. Social Rights 3.Human Rights of Women and Children a. Social I	Practice and
Constitutional Safeguards (i)Female Foeticide and Infanticide (ii)Physical assault and	d harassment
(iii)Domestic violence (iv)Conditions of Working Women 4.Institutions for Imple	mentation a.
Human Rights Commission b. Judiciary 5. Violations and Redressal a. Violation	by State b.
Violation by Individuals c. Nuclear Weapons and terrorism d. Safeguards.	
Unit:6 Contemporary Issues	2 Hours
Case Study, Expert Lectures, Online Seminars - Webinars	
1 3 E. C.	
Total Lecture Hours	18 Hours
Textbook(s)	
1 Value Education – Human Rights, Bharathiar University	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1 Human Rights in India - By Prof. (Dr.) Y.S.R. Murthy O.P. Jindal Global Univer SWAYAM	rsity -
Contract Contract and Contract and Contract	
Course Designed By: Bharathiar University	
DUCATE IN PLEVAN	

Cou	Course code 26A Internship L				Т	Р	С		
Field	l Work		Field Work		-	2	-	2	
Pre-	requisite		Understanding the Customer Care	Syllabu	s Ver	sion	2021	-22	
Cou	rse Objec	tives:							
The 1. 7 2. 7 3. 7	 The main objectives of this course are to: The students will get hands on experience in a company to exhibit their skills learnt. The students will gain interaction with company employee in the real work environment. The students will gain understanding of general rules, regulation, duties and responsibilities. 								
Exp	ected Cou	rse Outcor	nes:						
On t	he success	ful complet	ion of the course, student will be able to:						
1	The stude	ents will ge	hands on experience in a company to exhib	oit their sk	tills le	earnt.	K	6	
2	The students will gain interaction with company employee in the real work environment.					K	4		
3 The students will gain understanding of general rules, regulation, duties and responsibilities					K	2			
4	They may	y get good <mark>1</mark>	apport with the organisation for future refer	<mark>enc</mark> e.			K	3	
5	Students	may get car	npus to corporate exposure		1		K	3	
K1 -	Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - E	valuate; I	X6 - (Create			
	Concession Courses								

Marks awarding Mode for 50 marks

25 marks will be awarded by the concerned instructor of the department based on the students review progress assigned by the faculty and presentation during the course of internship. Remaining 25 marks will be awarded by conducting public viva in the department with the tutor and the expert (Industry Expert is preferable) assigned by the department head based on the students final report, presentation and viva voce for the creation of portfolio. The students must get certificate with 75% attendance for the 30 Hours. The minimum pass mark is fixed as 30 and failing the above will be instructed to redo the work.

Course Designed By: Dr. A. Vimala, Dr. S. Sadhasivam and Dr. C. Dhayanand

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5			
CO1	S	М	М	S	М			
CO2	S	М	М	S	М			
CO3	S	М	S	S	М			
CO4	S	М	М	S	М			
CO5	S	S	М	S	S			
*S-Strong; M-Medium; L-Low								



Core 7 5	5							
Pre-requisiteKnowledge in Data and Information SystemSyllabus Version2021-2	22							
Course Objectives:								
The main objectives of this course are to:								
1. Present an introduction to database management systems, with an emphasis on how to organize, maintain and retrieve - efficiently, and effectively - information from a DBMS.								
Expected Course Outcomes:								
On the successful completion of the course, student will be able to:								
1 Describe the fundamental elements of relational database management systems K2, K3								
2 Explain the basic concepts of relational data model, entity-relationship model, relational database design relational algebra and SOL								
3 Design ER-models to represent simple database application scenarios K3 K4								
4Improve the database design by normalization.K3, K4								
5 Familiar with basic database storage structures and access techniques: file and k3, K4 page organizations, indexing methods including B tree, and hashing.								
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - Create								
and the second sec								
Unit:1 Database Systems 12 Hours	5							
File System Data Processing – Dependence - Data Redundancy – Data Anomalies - DBM System Environment and Functions.	of IS							
Property in second second second								
Unit:2 Data Models 12 Hours	5							
Data Modelling – Importance – Basic Building Blocks – Business Rules – Evolution of Data Model – Degrees of Data Abstraction.	ta							
Unite 2 Deletional Detahara Madel and Name-Resting								
Unit:3 Relational Database Model and Normalization 14 Hours	5							
Logical view of data – Keys – Integrity Rules – Relational Algebra – Entity Relationship Modelling - ER Diagram – Need for Normalization – Normalization Process – Normal Forms - 1NF – 2NF – 3NF – BCNF – 4NF.								
Unit:4 Structured Query Language 14 Hours	5							
Introduction to SQL – Data Definition Commands – Data Manipulation Commands – SELEC	Т							
Queries – Joining Database Tables - Join Operators – Sub queries and Correlated Queries – SQ Functions – Relational Set Operators	L							

TIm	4.5 Do40	haas Design				10 Houng		
UII	Data	Dase Design	Davialanmant I	ifa Cuala D	atahaga Lifa Cyala	Concentual		
	ormation s	System - System I	Development L	lie Cycle – D	Valadase Life Cycle –	- Conceptual		
Des	sigii – Logi	cai Design – Filysic	ai Desigii – Da	alabase Design	Sualegies.			
Un	it.6 Con	temnorary Issues				2 Hours		
Ca	se Study F	Expert Lectures On	ine Seminars -	Webinars		2 110015		
Cu	se Study, L	xport Dectures, on		vv comurs				
				Γ	otal Lecture Hours	64 Hours		
Te	xtbook(s)							
4	Coronel,	Carlos, and Steven	Morris, (2016),	Database Syste	ems: Design, Impleme	ntation, and		
1	Managem	ent. Cengage Learr	ning.					
r	A Silbers	chatz, H Korth, S S	udarsha <mark>n (2005</mark>), "Database Sy	stem and Concepts", f	ifth Edition		
Z	McGraw-	Hill		10 m				
Ref	ference Bo	oks			6			
1	Gupta, G.	K. (2011). Databas	se management	system. Tata M	IcGraw-Hill Education	1.		
2	Rob, Cor	onel, (2006) "Datab	ase Systems", S	Seventh Edition	, Cengage Learning.			
3	R. Elması	ri and S.B. Navathe	, "Fundamental	s of Database S	ystems", Addison We	sley, 2000		
4	Gary W.	Hanson and James	V. Hanson, "Da	itabase Manager	<mark>ment an</mark> d Design", Pre	entice Hall of		
	India Pvt	Ltd, 1999.	The second second					
5	Database	Management Syste	m: R. Ramakris	shnan and J. Ge	hrke, McGraw Hill.			
Rel	ated Onlin	ne Contents [MOO	C, SWAYAM	, NPTEL, Web	sites etc.]			
1	NOC: Int	Spoken Tutorial	ise Systems - IN					
Z	KDDM5	- Spoken Tutoriai	-		5			
Co	Irse Desig	ed By: Dr A Vim	ala and Dr. C	handra				
CO	inse Desigi	icu by. Di. A. vii		lianura				
Ma	pping wit	h Programme Out	comes					
	COs	PO1	PO2	PO3	PO4	PO5		
<u> </u>	CO1	М	S	М	S	S		
	CO2	S	S	S	S	S		
	CO3	S	S	S	S	S		
	CO4	S	S	S	S	S		
	CO5	S	S	S	S	М		
*S-	Strong; M	Medium; L-Low						

Course code 33B Research Methods				L	Т	Р	С	
Core			Core 8		6	-	_	6
Pre-re	equisite		Knowledge in data and interest to explore	Syllab	us Ve	rsion	2021	-22
Cours	e Objec	tives:						
The m 1. To 2. To rep 3. To	 To familiarize students with basic of research and the research process. To enable the students in conducting research work and formulating research synopsis and report. To impart knowledge for enabling students to develop data analytics skills and meaningful intermetation to the data sets as as to solve the humans/Descent problem. 							
int	erpretati	on to the da	tta sets so as to solve the business/Research p	roblem.				
Expec	ted Cou	rse Outcor	nes:					
On the	e success	ful complet	ion of the course, student will be able to:					
$1 \begin{bmatrix} I \\ r \end{bmatrix}$	1 Develop understanding on various kinds of research, objectives of doing research, research process, research designs and sampling.					K2, K3		3
2 H	2 Have basic knowledge on qualitative research techniques						K2, K3	
3 H	³ Have adequate knowledge on measurement and scaling techniques as well as the quantitative data analysis K3, K4						1	
4 Have basic awareness of data analysis-and hypothesis testing procedures						K3, K4		1
5 V	Write a re	esearch rep	ort and thesis				K6	
K1 - R	Remembe	er; K2 - Un	ders <mark>tand; K3 - Apply; K4 - Analyse; K5 -</mark> Ev	valuate; 1	K6 - (Create		
TT •4 1				19	1	10		
Unit:1	I Intro	duction					Hou	rs
Resear Defini	rch Proc ng the pr	ess - Crite roblem	ria of Good Research – Research Problem	– Selec	ting t	he pro	blem	1 –
Unit:2	2 Resea	arch Desig	n			12	Hou	rs
Meani	ing of Re	esearch Des	sign – Need – Features – Importance – Sam	oling De	sign -	- Proba	bility	<u>y</u> –
Non p	robabilit	y – Steps –	Criteria – Characteristics - Types		-			
Unit:3	3 Scali	ng Techniq	ues and Data Collection Methods			12	Hou	rs
Measu Data C	urement Collection	in research n – Collecti	 Measurement scales – Scaling – Scaling on of data through questionnaire, schedules 	g Techni	ques	– Metl	hods	of
Unit:4	Testi	ng of Hype	theses			12	Hou	rs
Hypot Nonpa	thesis – trametric	Procedure	e for Hypothesis Testing – Test of H	ypothese	s –	Param	etric	
Unit:5	Interpretation and Rep	oort Writing			10 Hours			
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Meaning	of Interpretation – Te	chniques – Sig	nificance of Re	eport Writing – Step	s in Writing			
Report -	Layout of Research Rep	ort – Types of I	Reports					
Unit:6	Contemporary Issues				2 Hours			
Case Stu	dy, Expert Lectures, Onl	ine Seminars -	Webinars					
			T	otal Lecture Hours	60 Hours			
Textbool	k(s)							
1 Koth	ari, S. R. Research Meth	odology: Meth	ods and Technic	jues. 2013.				
2 Coop	per, D.R. and P.S. Schind	iller (2006)- Bu	siness Research	Methods, (New Delh	i: Tata			
² McG	braw-Hill)							
Reference	e Books	A 10 17	ALL PROPERTY.					
1 Malł	notra, N. K. (2015). Ma <mark>rl</mark>	<mark>keting research.</mark>	Pearson Higher	Ed.				
2 Bryn	nan, A. (2015). Social re	search methods	. Oxford Univer	<mark>rsity</mark> Press.				
3 Pann	eerselvam, R., 2004. Re	<mark>sea</mark> rch Methodo	ology, Prentice h	n <mark>all</mark> of India, New Del	hi,			
And And	erson.J.Berry H.D. a <mark>nd P</mark>	oole M, 2008 7	Thesis and Assig	nment writing - Wile	y Eastern			
TLtd.,	New Delhi	0 0 1	7.500	12				
5 Uma	. Sekaran (2002) <mark>Re</mark> searc	h Methods for	Business: A <mark>Sk</mark> i	l <mark>l Buildi</mark> ng Approach,	, Wiley			
		Contraction of the second						
Related	Online Contents [MOO	C, SWAYAM	, NPTEL, Webs	sites etc.]				
1 Rese	earch Methodology - <mark>SW</mark>	AYAM	1-1					
		And a	and !!					
Course D	Designed By: Dr. A. Vim	ala, Dr S. Sadl	hasivam and D	<mark>r. C. Dhayanand</mark>				
	8	10 C 10 C						
Mapping	g with Programme Out	comes	-	Con 1				
COs	PO1	PO2	PO3	PO4	PO5			
CO1	M	S	М	S	S			
CO2	S	S	I I I S	S	S			
CO3	S	S	S	S	S			
CO4	S	S	S	S	S			
CO5	S	S	S	S	Μ			
*S-Stron	g; M-Medium; L-Low							

Course code	33P	Campus to Corporate		L	Т	Р	С	
Core		Core 9		_	_	5	5	
Dro roquisito		Understanding Dusiness Etiquettes	Syllab	No Vo	ncion	2021		
Pre-requisite		Understanding Business Enqueties	Synab	us ve	rsion	2021	22	
Course Objec	tives:							
The main object	The main objectives of this course are to:							
 Equip the students for campus readiness Learn various etiquettes required to work in the organization 								
3. Familiarize	the office	automation and computer skills						
		·····						
Expected Cou	rse Outcon	nes:						
On the success	ful complet	ion of the course, student will be able to:						
1 It enable	es the stud	ent to understand the history of corporat	e origin	and		K2		
existence	of BPO in	the world	. 1					
2 Demonst application	rate the volume	arious pre-requisite of etiquettes and i	ts real	time		K3		
3 Explore t	he PC and	data skills using Word, Excel and PowerPoint	t		K4	1, K5	5	
4 Understate level job	nd the appl and in their	ication of aptitude and implement the knowledge	edge for	entry	K.	3, K4	1	
5 Expose th	ne knowled	ge of understanding world of work and SWO	T analys	is		K5		
K1 - Remember	er; K2 - Un	ders <mark>tand; K3 - Apply; K4 - An</mark> alyse; <mark>K5 -</mark> Ev	aluate; I	K6 - (Create			
	1	Constitution of the second	AN	1				
Unit:1 Over	view of Co	rporate and BPO Industry	ŝ.	1	12	Hou	rs	
Overview of c	orporate -	History of corporate - campus and corporate	– distin	ction	– over	view	of	
BPO Industry I		wond.						
Unit:2 Corp	orate Etiq	uettes	~		12	Hou	rs	
Corporate cult	ure - Corpo	prate etiquette – importance of corporate etiq	uette in	India,	UK ar	nd U	<u>S</u> -	
Dressing and	grooming	skills - Workplace etiquette - Business eti	quette -	- Em	ail etic	luette	e -	
Telephone and	d meeting	etiquette - Presentation skills - Professiona	al comp	etenc	ies: an	alyti	cal	
thinking - liste	ning skills ·	time management - team skills - stress mana	gement.					
		.,,			101			
DC and data a	nd Data SE	alls word introduction functions formattin	~ ~~~~	hias		Hou	rs Jr	
PC and data s	kills – MS ekille MS	word – introduction – functions - formatting	g – grap mulas ir		- spen	ducti	:K—	
to power point	- editing a	nd formatting – presentation – animation.	mulas n		1 muo	uucu	IOII	
For Point	u							
Unit:4 Anal	ytical and]	Logical Reasoning			12	Hou	rs	
Aptitude App	etizer - A	nalytical and logical reasoning - Quantitat	ive vs.	verba	l aptit	ude		
practice – sho	rtcut routes	s -workouts from previous year / batch test	ts – fam	niliariz	ze the	vario	ous	

types of problems from quantitative and non-verbal reasoning areas in competitive exams for employment and/or higher studies. **Unit:5** | **Understanding of World of Work 12 Hours** Career planning - goal setting - values - understanding the world of work - sectors of employment - talent management - talent acquisition - SWOT analysis - resume preparation -Facing group discussion and interview. **Unit:6** | Contemporary Issues 2 Hours Case Study, Expert Lectures, Online Seminars - Webinars **Total Lecture Hours** 62 Hours Textbook(s) Vimala, A., (2016), Career Preparation and Talent Management Oviya Publication, 1 Coimbatore. McGrath, E. H (2008). Basic Managerial Skills for All, 8th ed. Prentice-Hall of India, New 2 Delhi, RVC. **Reference Books** Rajendra pal and J.S. Korlahalli, (2011) - Essentials of Business Communication 1 S.Chandand sons. Ramesh, MS, and C. C Pattanshetti (2003), -Business Communication R. Chand and Co, 2 New Delhi. Study Guides Basic Business Communication: Skills for Empowering the Internet Generation 3 by Lesikar and Flatley Soft Skills Enhancing Employability: Connecting Campus With Corporate by M.S. Rao. I.K. 4 International Business Communication: The Real World and Your Career Senguin 5 Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] NOC: Business English Communication - NPTEL

Course Designed By: TCS and Dr. A. Vimala

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5			
CO1	S	М	М	S	M			
CO2	S	М	М	S	M			
CO3	S	М	S	S	M			
CO4	S	М	М	S	M			
CO5	S	S	М	S	S			
*S-Strong; M-N	Medium; L-Low	•			•			

Cou	rse code	3AA	Business Communication		L	Т	Р	С
Allie	ed	I	Allied 3		5	-	-	5
Pre-	requisite		Knowledge in English Communication	Syllab	us Ve	rsion	2021	1-22
Cou	rse Objec	tives:						
The 1. F 2. F 3. C	The main objectives of this course are to:1. Provide effective organizational communication.2. Enable the students to learn the good communication.3. Compose effective business correspondence.							
Exp	ected Cou	rse Outcor	nes:					
On the	he success	ful complet	ion of the cours <mark>e, student w</mark> ill be able to:					
1	Learn the	e importanc	e and methods of communication.			K2,	K3, 1	K6
2	Expertise	e in letter w	riti <mark>ng.</mark>			K2,	K3, 1	K6
3	Write van	rious busine	ss correspondences.			K2,	K3, 1	K6
4	Frame di	fferent type	s of reports.			K2,	K3, I	K6
5	Become	skilled at di	therent internal communication methods.	1 . 1	76 6	<u>K2,</u>	K3, I	K6
KI -	Remembe	er; K 2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate;	<u> 10 - C</u>	reate		
I Init	·1 Com	munication			4	12	How	re
Esse	ntial and	Importance	of Business Communication Methods of	Commu	nicati	n = 1	vnes	<u>s</u> –
Barri	iers.	Importaneo	of Busiless Communication. Methods of	Commu	mouti		. yper	,
		11 3		â /	1			
Unit	:2 Com	munication	through Letters			12	Hou	rs
Layo	out of lette	ers – busine	ess enquiries – Offers and Quotations – Orde	ers – Ex	ecutio	on of C	Order	s –
Canc	cellation o	f Orders – (Claims – Adjustments and settlement of account	unts – L	etters	of con	nplai	nts
- Co	llection le	tters –Statu	s enquiries.					
T T •4	3 XX • 4	·	SURCATE IN IN SUNC			10		
Unit	:3 Writ	ing Busines	ss Components			12	Hou	rs
Ban	k corresp	ondence –	Agondo Minutos Proportion	compa	iny s	ecretar	y w	ıın
snare			– Agenda – Minutes – Freparation.					
∐nit	·4 Com	munication	through Reports			12	Hom	rs
Esse	ntials – I	mportance	– Contents - Reports by individuals – Con	mittees	- A1	nual r	epor	t –
Appl	lication for	r appointme	ent – reference and appointment orders.				-por	•
		11	11					
Unit	:5 Inter	nal Comm	unication			12	Hou	rs
Shor	rt speeche	s – Memo	- Circulars - Notices - Explanations to s	uperiors	– C	ommui	nicati	ion
medi	a – Merits	s of various	devices - Intercom, Telex and Telephone - F	Fax – Int	ernet.			

Unit:6Contemporary Issues2 Hours								
Cas	e Sti	udy, Expert Lectures, Onl	ine Seminars -	Webinars				
Total Lecture Hours62 Hours								
Tex	Textbook(s)							
1	Rajendra pal and J.S. Korlahalli, (2011) "Essentials of Business Communication" Sultan							
1	Chand and sons.							
2	Vik	ram Bisen (2009) "Busine	ess Communic	ation" New Age	e International Publishe	ers		
Ref	eren	ce Books						
1	Ran	nesh, MS, and C. C Pat	tanshetti, (200	03), "Business	Communication" R. C	ChandandCo,		
	Nev	v Delhi.		·		D 11:1:		
2	Roc	Inquez M V (2003), "E	ffective Busin	ness Communic	cation Concept" Vika	s Publishing		
	Con	npany.		· · · · · · · · · · · · · · · · · · ·	1 D 11'1' II			
3	Urn	111a Rai, Sm Rai (2016) "	Business Com	munication" Hi	malaya Publishing Hou	ise.		
4	Mac	thukar, R K, (2010), Bus	iness Commu	nication, Vikas	Publishing House New	Delhi.		
5	Huc	Ison, R.H.,(2006) Busines	s Communica	tion, 5th Edition	n, Jaico Publishing Hou	ise, Delhi.		
Dal	- 4 - d	Online Contonts [MOO	C CHUANAN					
	NO	C: Dusiness English Com	c, Swaran	I, NFIEL, WE	osites etc.j			
1	NU	C: Business English Com	munication - 1	NPIEL				
Cou	maa I	Designed Day Dr. A. Vim	ala and Dr. S	Sadhagiyama	nd Dr. C. Dhavanand	1		
Cou	1501	Designed Dy. DI. A. Vill	ala allu DI. S	. Saunasivani a	inu Di. C. Dhayanan	1		
Mai	nnin	a with Programma Out	Comos	to all	A DATE			
wia	<u>6660</u>		PO2	PO3	PO4	PO5		
		1 M	M	I	I	<u> </u>		
		2 M	M	I.	L	 L		
	<u>CO</u>	3 M	M	L	L	 L		
	<u>CO</u>	4 M	M	L		 L		
	CO	5 M	М	1 Dialet	L	L		
*S-S	Stror	ng; M-Medium; L-Low			1 1			

Co	Course code33QData Analysis Using SPSSL					Т	Р	С	
AOS .			AOS 1		-	_	5	5	
Pre	-requisite		Understanding of Research Methods	Syllabı	ıs Ve	rsion	2021	-22	
Cou	Course Objectives:								
The 1.	 The main objectives of this course are to: 1. To understand the uses of SPSS, as a tool to summarize and aid in the interpretation of research findings. 								
Exp	oected Cou	rse Outcor	nes:						
On	the success	ful complet	ion of the course, student will be able to:						
1	Understa	nd how to v	vork with SPSS			K	2, K3	3	
2	Understa	nd how to a	cquire information (samples)			K.	3, K4	1	
3	Understa	nd how to e	ente <mark>r and reorgan</mark> ize information within SPSS			K4	1, K5	5	
4	Carry out	t inferential	statistical analysis using SPSS			K.	5, Ke	5	
5	Understa	nd how to e	ffectively summarize research finds using SP	S S		K.	5, Ke	5	
K1	- Remembe	er; K2 - Un	de <mark>rstan</mark> d; K3 - Apply; K4 - Analyse; K5 - Ev	<mark>al</mark> uate; F	X6 - C	Create			
La	b Exercises	5		1					
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Enter Data Enter Data	into SPSS into SPSS	and create Frequency Table and Interpret the and create Multiple Response Sets and interpret and put Cross Tabulation and Chi Square and and calculate Measures of Dispersion and inter- and perform Independent Samples T-Test and and perform One Way ANOVA and interpret and perform Mann-Whitney U Test and interpret and perform Kruskal-Wallis Test and interpret and perform Bivariate Correlation and interpret and perform Simple Regression and interpret and perform Multiple Regression and interpret	results ret the re interpret the terpret the terpret the the result pret the result the result the result the result the result the result the result the result the result the result	esults at the results be results bet the lts results sults sults lts ults	results lts ults results	Hou	rs	
Tex	tbook(s)					·			
1	Jeremy J.	Foster (200	1). Data analysis using SPSS for windows. Sa	age publi	icatio	ns. Lor	ndon		
2	Verma, J.	P, (2013).	Data Analysis in Management with SPSS Sof	ftware, S	pring	er			
Ref	erence Boo	oks							
1	Clifford H Dusbury T	E.Lunnebor Thomson lea	g, (2000). Data analysis by resampling: or arning. Australia.	concepts	and	appli	catio	ns.	
2	Michael S	S. Louis -	- Beck (1995). Data analysis an introdu	ction, S	Series	: quar	titat	ive	

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	applications in the social sciences. Sage. Publications. London.
2	Wagner, William E., III, (2019) Using IBM® SPSS® Statistics for Research Methods and
3	Social Science Statistics, Sage Publications
4	Rajendra Nargundkar, (2019) "Marketing Research -Text and Cases", Tata McGraw Hill 4th
4	Edition.
5	Arora PN and bothers(2011),"Complete Statistical Methods", S. Chand, 3rd Edition
Rel	lated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	Data Analysis for Social Science Teachers - SWAYAM

Course Designed By: Dr. A. Vimala and Dr. C. Dhayanand

Mapping with Programme Outcomes									
COs	PO1	PO2	PO3	PO4	PO5				
CO1	М	S	М	S	S				
CO2	S	S	S	S	S				
CO3	S	S	S	S	S				
CO4	S	S	S	S	S				
CO5	S	S	S	S	М				

*S-Strong; M-Medium; L-Low



Course	e code	3FC	Yoga for Human Excellence		L	Т	Р	С
Elective Elective 1					2	-	-	2
Pre-rec	quisite		Understanding of oneself	Syllab	us Ve	rsion	2021	-22
Course	e Object	tives:						
The ma	The main objectives of this course are to:							
1. Inculcate Yoga in students for physiological and psychological development and maintenance							e	
F 4		0-4						
Expect		ful complet	nes:					
$1 E_1$	success.	a student to	holi of the course, student will be able to:				V N	
1 El	rootioo r	e student to					κ2 <i>V</i> 4	
$\frac{2}{2}$ Pl		motional at					Κ4 <i>V</i> 4	
$\frac{3}{4}$ In	ussess e	moral valu					K4 K1	
4 III 5 Δ	ttoin hi	moral valu	f consciousness				К1 К2	
J A	amambe	$\frac{1}{2} \frac{1}{1} \frac{1}$	derstand: K3 Apply: K4 Applyse: K5 Ex	valuata. I	76 6	Tranta	κ <i>z</i>	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - Create								
1. Yoga 1.1 Phy	a and P ysical St	hysical He	alth hree bodies - Five limitations		X0 - (
 Yoga 1.1 Phy 1.2 Sim Exercis 1.3 Mat 1.4 Yog Patchim 2. Art of 2.1 Mai 2.2 Sex 2.3 Ten 2.4 Mei 3.1 Purj 3.2 Intro 	a and P sysical St applified ses – Ka trarasan gasanas nothasan of Nurt intaining a and Sp a stages ntal frec limation pose and cospection	hysical He ructure - T physical Ez palapathi as -Massag - Padmasa nas - Ustras uring the I g the youth irituality - of Mind juency - M d Philosopl on - Analys	alth hree bodies - Five limitations kercises - Hand Exercises -Leg Exercises – B ges - Acupuncture - Relaxational ana- Vajrasanas – Chakrasanas (Side) - Virucl sanas -Vakkarasanasi – Salabasanas ife force and Mind fulness - Postponing the ageing process Significance of sexual vital fluid - Married life ethods for concentration	reathing hasanas -	Exerc - Yog	cises - :	Eye ra -	
 Yoga 1.1 Phy 1.2 Sim Exercis 1.3 Mat 1.4 Yog Patchim Art of 2.1 Mai 2.2 Sex 2.3 Ten 2.4 Mer 3.1 Purj 3.2 Intro 3.3 Mor 3.4 New 	a and P ysical St oplified ses – Ka trarasan gasanas nothasan of Nurt intaining a and Sp of stages ntal frec limation pose and cospection praint and stages	hysical He ructure - Th physical Ez palapathi as -Massag - Padmasa nas - Ustras uring the I g the youth irituality - J of Mind juency - Me d Philosoph on of Desire ion of Ara	alth hree bodies - Five limitations xercises - Hand Exercises -Leg Exercises – B ges - Acupuncture - Relaxational una- Vajrasanas – Chakrasanas (Side) - Virucl sanas -Vakkarasanasi – Salabasanas ife force and Mind fulness - Postponing the ageing process Significance of sexual vital fluid - Married life ethods for concentration hy of life is of Thought es	reathing hasanas - fe -Chast	Exerc - Yog	cises - a muth	Eye ra -	
 Yoga 1.1 Phy 1.2 Sim Exercis 1.3 Mat 1.4 Yog Patchim 2. Art of 2.1 Mai 2.2 Sex 2.3 Ten 2.4 Mer 3.1 Purj 3.2 Intro 3.3 Mor 3.4 Neu 	a and P sysical St oplified ses – Ka trarasan gasanas nothasan of Nurt intaining a and Sp n stages ntal frec limation pose and cospection oralization	hysical He ructure - T physical Ex palapathi as -Massag - Padmasa nas - Ustras uring the I g the youth irituality - of Mind juency - M d Philosopl on - Analys on of Desire ion of Ang	alth hree bodies - Five limitations xercises - Hand Exercises -Leg Exercises – B yes - Acupuncture - Relaxational yna- Vajrasanas – Chakrasanas (Side) - Virucl sanas -Vakkarasanasi – Salabasanas ife force and Mind fulness - Postponing the ageing process Significance of sexual vital fluid - Married life ethods for concentration hy of life is of Thought es er	reathing hasanas - fe -Chast	Exerc - Yog	cises - : a muth	Eye ra -	
 Yoga 1.1 Phy 1.2 Sim Exercis 1.3 Mat 1.4 Yog Patchim 2. Art of 2.1 Mai 2.2 Sex 2.3 Ten 2.4 Mer 3.1 Purj 3.2 Intro 3.3 Mor 3.4 Neu 4. Hum 	a and P sysical St oplified ses – Ka trarasan gasanas nothasan of Nurtu intaining a and Sp n stages ntal frect limation pose and cospection oralization utralization	hysical He ructure - Th physical Ez palapathi as -Massag - Padmasa nas - Ustras uring the l g the youth irituality - of Mind juency - M d Philosoph on of Desira ion of Angy ources dev	alth hree bodies - Five limitations xercises - Hand Exercises -Leg Exercises – B yes - Acupuncture - Relaxational yes - Acupuncture - Relaxational yes - Acupuncture - Relaxational yes - Vajrasanas – Chakrasanas (Side) - Virucles sanas -Vakkarasanasi – Salabasanas ife force and Mind fulness - Postponing the ageing process Significance of sexual vital fluid - Married life ethods for concentration hy of life is of Thought es er velopment	reathing hasanas - fe -Chast	Exerc - Yog	cises - 1	Eye ra -	
 Yoga 1.1 Phy 1.2 Sim Exercis 1.3 Mat 1.4 Yog Patchim Art of 2.1 Mai 2.2 Sex 2.3 Ten 2.4 Mer 3.1 Purj 3.2 Intra 3.3 Mor 3.4 Neu 4. Hum 4.1 Erad 	a and P sysical St applified ses – Ka trarasan gasanas nothasan of Nurt intaining a and Sp a stages ntal frec limation pose and cospection ralization utralization	hysical He ructure - T physical Ez palapathi as -Massag - Padmasa nas - Ustras uring the l g the youth irituality - of Mind juency - M d Philosoph on of Desire ion of Ang ources dev of worries	alth hree bodies - Five limitations kercises - Hand Exercises -Leg Exercises – B ges - Acupuncture - Relaxational ana- Vajrasanas – Chakrasanas (Side) - Virucl sanas -Vakkarasanasi – Salabasanas ife force and Mind fulness - Postponing the ageing process Significance of sexual vital fluid - Married life ethods for concentration hy of life is of Thought es er	reathing hasanas - fe -Chast	Exerc - Yog	cises - a muth	Eye ra -	

4.3.	. Greatness of Friendship	
4.4	Individual Peace and World Peace	
5. L	Law of Nature	
5.1	Unified force - Cause and Effect system	
5.2	Purity of Thought and Deed and Genetic centre	
5.3	Love and Compassion	
5.4	Cultural Education - Fivefold Culture	
	Total Lecture Hours 18 Hou	rs
Tex	xtbook(s)	
1	Manavalakalai Yoga, Vedathiri Publications	
2	Simplified Physical Exercises – Vethathiri Maharishi, Vethathiri Publication. Yogasanas –	
2	Vethathiri Publication	
3	Yoga for Modern Age – Vethathiri Maharishi, Vethathiri Publications	
4	The World Order of Holistic Unity – Vethathiri Maharishi, Vethathiri - Publications	
5	Sound health through yog <mark>a – Dr. K. Chandrasekaran.</mark>	
Rela	ated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	Yoga Practices 1 - By Dr Vikas Swami Vivekananda Yoga AnusandhanaSamsthan -	
1	SWAYAM	
Cou	urse Designed By: Bharathiar University	



Cou	rse code	36A	Internship		L	Т	Р	C	
Field Work			Field Work		-	2	-	2	
Pre-	Pre-requisiteKnowledge in Statistical ToolsSyllabus Version						2021	-22	
Cou	Course Objectives:								
The 4. 7 5. 7 6. 7	 The main objectives of this course are to: 4. The students will get hands on experience in a company to exhibit their skills learnt. 5. The students will gain interaction with company employee in the real work environment. 6. The students will gain understanding of general rules, regulation, duties and responsibilities. 								
Exp	ected Cou	rse Outcor	nes:						
On t	he success	ful comple	ion of the course, student will be able to:						
1	The stude	ents will ge	t hands on experience in a company to exhib	oit their sk	cills le	earnt.	K	.6	
2	The stude environm	ents will ga nent.	in interaction with company employee in the	e real wor	k		K	.4	
3	The stude responsib	ents will ga pilities	in understanding of general rules, regulation	, duties a	nd		K	.2	
4	They may	y get good i	apport with the organisation for future refer	ence.			K	3	
5	Students	may get ca	mpus to corporate exposure		1	_	K	.3	
K1 -	Remember	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - E	valuate; l	K6 - (Create			
			Contra One -						

Marks awarding Mode for 50 marks

25 marks will be awarded by the concerned instructor of the department based on the students review progress assigned by the faculty and presentation during the course of internship. Remaining 25 marks will be awarded by conducting public viva in the department with the tutor and the expert (Industry Expert is preferable) assigned by the department head based on the students final report, presentation and viva voce for the creation of portfolio. The students must get certificate with 75% attendance for the 30 Hours. The minimum pass mark is fixed as 30 and failing the above will be instructed to redo the work.

Course Designed By: Dr. A. Vimala, Dr. S. Sadhasivam and Dr. C. Dhayanand

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5			
CO1	S	М	М	S	М			
CO2	S	М	М	S	М			
CO3	S	М	S	S	М			
CO4	S	М	М	S	М			
CO5	S	S	М	S	S			
*S-Strong; M-I	Medium; L-Low							



Course code	43A	Marketing Management		L	Т	Р	С	
Core		Core 10	Core 10 5 -					
Pre-requisite		Understanding Customer and Organisation Syllabus Version 20						
Course Objectives:								
The main objectives of this course are to:								
 Develop a Provide op 	better under portunities	rstanding of the role of marketing in a busines to analyze marketing activities within the firm	s organi 1	izatio	1			
3. Examines	the role and	importance of marketing in a firm						
Expected Cou	Irse Outcor	nes:						
1 Understa	nd the conc	ents of Marketing			K	1 K2	,	
2 Aware of	f the market	ing strategies			K2	$\frac{1}{K3}$	- K4	
3 Realise t	he need and	importance of branding, packaging and label	ling		K2,	$1. K^{2}$)	
4 Recogniz	the need	of knowing buyer behaviour			K	2, K4	1	
5 Be aware	of the glob	ll market trend K2. K3						
K1 - Rememb	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Eva	aluate; H	X6 - C	reate	,		
			- 28	1				
Unit:1 Intro	duction	Construction of the second	RIT	1	12	Hou	rs	
Marketing – D	Definitions -	- Concepts of Marketing - Concept of Marketi	ing philo	osoph	y – Ma	rketi	ing	
Vs Distributio	n – Marketi	ng Vs Selling – Marketing Vs Retailing - Na	ature of	Mark	eting -	- Sco	ope	
of Marketing	– Objective	es of Marketing - Marketing and other mai	nagerial	funct	ional	areas	5 –	
Warketing env	nonment –	Micro Environment – Macro Environment –	Tienus I	II WIAI	Ketting	•		
Unit:2 Marl	keting Stra	tegies			13	Нош	rs	
Definition – N	Vature – De	cision Process – Types – Marketing Mix – 4	Ps' - 7	Ps' –	Objec	tives	of	
Product Mana	gement – I	Product Planning – Product life cycle – Ne	w Prod	uct D	evelop	men	t –	
Features of Pro	oduct – Pric	ing Strategy – Market Segmentation – Compe	etitor An	nalysis	s – Stej	ps.		
Unit:3 Bran	ding, Pack	aging and Labelling			13	Hou	rs	
Brand – Mean	ning – Brai	nd Name Vs Trademark – Functions of Bran	nding –	Deve	eloping	g Bra	ind	
Names – Bran	d Strategy -	- Brand repositioning – Brand Stretching – B	Brand Ec	quity -	- Pack	aging	g –	
Functions – Co	ost effective	ness – Social Aspects – Labelling.						
Init.4 Ruve	r Rehaviou	ir.			12	How	rs	
Definition and	a salient fe	atures – Buver Behaviour model under syst	tem apr	proach	-Ec	onon	nic	
Model. Psychological model – Motivation – Perception – Learning – Attitude. Social and Cultural						ral		

inf	luence on B	uyer behaviour – F	Buying Process.			
Un	it:5 Globa	al Marketing				12 Hours
M	eaning – Do	mestic and Intern	ational Market	ing – Nature of	Global Marketing –	Elements of
Gle	obal Market	ing Mix – Advan	tages and Disa	dvantages of glo	obal marketing – En	try in Global
Ma	arket.					
TI	it. Cont	T aarraa				2 Hanna
	se Study E	emporary issues	lina Saminara	Webinara		2 Hours
Ca	ise Study, E	xpert Lectures, On	inte Seninais -	webiliais		
				T	otal Lecture Hours	64 Hours
Te	xtbook(s)					
1	Kotler Phi	lip, Keller, Koshy	and Jha, Marke	ting Managemer	nt, (2008), 13th Editio	on, Pearson
1	Education	/ Prentice Hall of [India.	al front of	•	
2	Philip Kot	ler, Gary Armstr <mark>o</mark> i	<mark>ng,</mark> Principles o	f Marketing, Pea	rson Education India	, 15th
2	Edition,20	15.				
			0			
Re	ference Boo	oks		S. CYA	See.	
1	Ramaswar	ny V. S., Namaki	umari S, (2006), Marketing Ma	anagement - The Inc	lian Context,
•	Macmillar	n India Ltd.	and the second	And a	191	
2	http://www	v.ddegjust.ac.in/stu	udymaterial/bba	a/bba-203.pdf		
3	https://driv	e.google.com/file/	/d/1yfGZRRj8e	S96611dm4ON5	OaMuJvyx3B1/view	
4	Rajan Sax	ena, Marketin <mark>g Ma</mark>	anagement, Mc	Graw Hill Educa	tion, Fifth edition, 20	015.
5	Philip Kot	ler, Herman Karta	ajaya, Marketir	ig 4.0: Moving f	f <mark>rom</mark> Traditional to I	Digital, wiley
_	publication	n, 2017.			JS / I	
<u> </u>		A 1 1 1 1 1 1 1 1 1 1				
Re	lated Onlin	e Contents [MOC	DC, SWAYAM	, NPTEL, Webs	sites etc.]	
I	Marketing	; Management - I –	- NPTEL	ALL AND		
0	D '					
Co	urse Design	ed By: Dr. A. Vin	iala, Dr. S. Sac	inasivam and D	r. C. Dnayanand	
M	anning with	Programme Out	comes			
	COs	PO1	PO2	PO3	PO4	PO5
	C01	S	S	M	M	M
	CO2	S	S	М	М	М
	CO3	S	S	М	М	М
	CO4	S	S	S	S	S

S

CO5

S

*S-Strong; M-Medium; L-Low

Μ

Μ

S

1							-		
Course	code	43B	Managerial Economics		Т	Р	С		
Core			Core 11	5 -					
Pre-req	luisite		Information on Market and Demand	Syllab	us Ve	rsion	2021	1-22	
Course	Course Objectives:								
The ma	The main objectives of this course are to:								
1. Explain the optimal allocation of resources within the firm									
2. Ana	lyse re	al-world bu	siness problems with a systematic theoretical	framew	ork				
3. Und	lerstanc	l the interna	al and external decisions to be made by managed	gers					
Evnort	od Cou	ma Outaar	mag						
On the		ful complet	ion of the course student will be able to:						
$1 R_{\ell}$	ecogniz	e the basic	concepts of managerial economics			K') K2	3	
$\frac{1}{2}$ Be	aware	of the dete	rminants of elasticity				$\frac{2, R}{K2}$,	
3 U	ndersta	nding and c	alculating break-even point			K	2. K ²	3	
4 K	now the	e different r	narket types.			K	2. Ke	5	
5 Re	ealize t	he applicati	ons of price discrimination.			K	, K2	2	
K1 - Re	emembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate; I	X6 - (Create	,		
		1	- Contraction of the						
Unit:1	Intro	duction	Realized and the second	- 1	1	12	Hou	rs	
Definit	ions – l	Nature of M	lanagerial Economics – Basic Characteristics	– Decisi	ion M	aking	Proce	ess	
- Scope	e of Ma	nagerial Ec	onomics – Role of Managerial Economist	AN I	1				
		11.8		ã /	1	-			
Unit:2	Dema	and			38	12	Hou	rs	
Concep	ot of De	emand – Ty	vpes of Demand – Law of Demand – Elastic	city of E	Demar	nd – Fa	actor	s –	
Price E	lasticit	y – Arc El	asticity – Income Elasticity – Cross Elastic	ity – C	oncep	ot of S	uppl	у-	
Elastici	ty of Sı	upply	Saturation & When						
TT T C			SURATE IN DISILIT			10			
Unit:3	Cost	: C '	Cont. Cont. Commenter Mindo of Cont. In			12.	Hou	rs	
Droduot	na Sigi		Cost - Cost Concepts – Kinds of Cost – If	itroduct	on to	Produ	Dro	1 –	
Froduct Even_P	1011 FIG	$FP(\Delta nalve)$	is	Lation a	IU PI	ammg	DIE	ak-	
Lven-i v		LI) Anarys	15						
Unit:4	Marl	xet				12	Hou	rs	
Market	– Clas	sification –	Various Forms of Market Structure – Perfe	ct Com	oetitic	n - In	perf	ect	
Compet	ition –	Monopolis	tic Competition – Pure Oligopoly – Differenti	ated Oli	gopo	ly - Mo	nop	oly	
1			· · · · ·			-			
Unit:5	Prici	ng				12	Hou	rs	
Introdu	ction –	Multiprod	act Pricing – Price Discrimination – Price Di	scrimina	ation	in Real	Wo	rld	
– Pricin	g Meth	ods							

Uni	t:6 Con	temporary Issues				2 Hours
Cas	e Study, I	Expert Lectures, Or	nline Seminars -	Webinars		
				T	otal Lecture Hours	62 Hours
Tex	tbook(s)					
1	Atmanan	d R., Managerial E	conomics, Exce	el Books, 2002		
2	D N Dw1	vedi, Managerial E	conomics, Vika	as publications, e	eighth edition, 2015.	
D 0	D	•				_
Ref	erence Bo	ooks	X7 X7			(2012)
1	Paul G.	Keat, Philip K.	Y. Young and	l Sreejata Bane	rjee, Pearson Educat	tion, (2013) ,
	Croix II	Detersor W Ch	nia Lawia and	r Today's Decisi	1000000000000000000000000000000000000	Economica
2	Dearson I	Education 5th Ed	lis Lewis, and	Suuiiii K. Jaiii	, (2008), Manageria	Economics,
3	Suma Da	modaran Manager	ial economics	oxford publication	n second edition 20	10
5	http://ww	w opentextbooks	org hk/system/fi	les/export/15/15	497/pdf/Principles_of	Managerial
4	Econom	nics 15497.pdf	¹ g.11k/3ystern/11	105/ CAPOIT 15/ 15	+>//pai/1 incipies_or	
5	http://ww	w.pondiuni.edu.in	/sites/default/fil	es/Managerial%	20Economics.pdf	
	1	1			1	
Rela	ated Onli	ne Content <mark>s [MO</mark>	OC, SWAYAM	I, NPTEL, Web	s <mark>ites etc.</mark>]	
1	Introduct	tion to Managerial	Economics - SV	VAYAM		
			Keningen	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
Cou	rse Desig	ned By: Dr. A. Vir	nala, Dr. S. Sa	dhasivam and I	<mark>Dr. C</mark> . Dhayanand	
		1012	a forest	and .		
Ma	oping wit	h Programme Ou	tcomes		IS / I	
	COs	PO1	PO2	PO3	PO4	PO5
	CO1	S	S	M	M	М
	CO2	S	S	M	М	М
	<u>CO3</u>	S	S	M M	M	М
	<u>CO4</u>	<u>S</u>	SIGATE	M	M	M
	CO5	S	S	M	M	М
*S-S	Strong; M	-Medium; L-Low				

Course coo	e 43C	43C Data Visualization for Business Intelligence L						
Core		Core 12		5	-	-	5	
Pre-requis	te	Understanding in Business Analytics	Syllab	us Ve	rsion	2021	-22	
Course Objectives:								
 The main objectives of this course are to: Introduce students to data visualization including both the principles and techniques. Students will learn the value of visualization, specific techniques in information visualization and scientific visualization, and how understand how to best leverage visualization methods. 						nts Ind		
Expected (ourse Outco	mes:						
On the succ	essful comple	tion of the course, student will be able to:						
1 Know	the basics of	data visualization			K	2, K3	;	
2 Under many	stand the important stand the important stand the standard stand Standard standard stan	ortance of data visualization and the design an	id use of		K	4, K5	;	
3 Learn time-v	³ Learn to wisely use various visualization structures such as tables, spatial data, time-varying data, tree and network, etc. K4, K5							
4 Learn 4 visual	the basics of or zation-based	colours, views, and other popular and important issues.	nt	M	K4,	K5		
5 Learn	basic algorith	ms in data visualization	6	7	K4,	K5		
K1 - Remen	nber; K2 - Un	dersta <mark>nd; K3 - Apply; K4 - Analyse; K5</mark> - Ev	aluate; 1	K6 - (Create			
Unit:1 In	roduction				12	Hou	rs	
Data Visua Coordinate Highlight	lization Intro Systems and	duction – figures – Mapping Data – Types axes - Colour to Distinguish – Represen	s of Da t data v	ta – l values	Scales – Co	Map lour	to	
Unit:2 Vi	sualization of	f Amounts and Distributions			12	Hou	rs	
Visualization of Amounts and Distributions 12 Hours Visualizing Amounts: Bar Plots, Grouped and Stacked Bars - Dot Plots - Heat Maps - Visualizing Distributions: Histograms, Density Plots - Single Distribution - Multiple Distribution - Q-Q Plots - Vertical and Horizontal axis -							ion	
Unit:3 Vi	sualization of	Proportions and Associations			12	Hou	rs	
Visualizing Proportions	Proportions: – Tree Maps	Pie Chart, Side-by-Side Bars – Stacked Ba – Nested Pies – Visualizing Associations: Sca	ars and atterplots	Dens s, Cor	ities – relogra	Nes ⁻ ms	ted	
T T •/ 4 T T	1				10			
Unit:4 Vi	Unit:4 Visualization of Time Series and Trends 12 Hours Visualizing Time Series Ledisided Time Series Making Time Series 10 King Series						rs or	
Visualizing Time Series: Individual Time Series, Multiple Time Series, Time series for two or								

more responses – Visualizing Trends: Smoothing, Showing Trends – Visualizing Geospatial Data – Projections – Layers

Unit:5 | Visual Story Telling

Figure Titles and Captions – Axis and Legend Titles – Tables – Balancing Data and Context – Image File Formats – - Choosing right Visualization Software - Story Telling from Visualization

Unit:6 | Contemporary Issues

Case Study, Expert Lectures, Online Seminars - Webinars

Total Lecture Hours62 Hours

12 Hours

2 Hours

Textbook(s)

- 1Wilke, Claus O., (2019), Fundamentals of Data Visualization: A Primer on Making
Informative and Compelling Figures. O'Reilly Media.
- 2 Dan Vlamis and Tim Vlamis, Data Visualization for Oracle Business Intelligence 11g, Oracle press, 11th edition 2015

Reference Books

- 1Iliinsky, N., and Steele, J. (2011). Designing data visualizations: Representing informational
relationships. O'Reilly Media.
- ² Cole Nussbaumer Knaflic ,Storytelling with Data: A Data Visualization Guide for Business Professionals, Wiley publication, 2015
- 3 Kieran Healy, Data Visualization A Practical Introduction, Princeton University 2019
- Alex Campbell, Data Visualization: Clear Introduction to Data Visualization with Python.
- Proper Guide for Data Scientist, 2020 Kindle edition
- 5 Praveen Kumar, Data Visualization with TABLEAU, Gurucool publication, Latest edition

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1 Business analytics and data mining Modelling using R - By Prof. Gaurav Dixit | IIT Roorkee -SWAYAM

Course Designed By: Dr. A. Vimala and Dr. Chandra

Mapping with Programme Outcomes

mapping with	happing with rogramme outcomes					
COs	PO1	PO2	PO3	PO4	PO5	
CO1	S	S	М	М	М	
CO2	S	S	М	М	М	
CO3	S	S	М	М	М	
CO4	S	S	М	М	М	
CO5	S	S	М	М	M	
*S-Strong; M-Medium; L-Low						

Course code	43P	R Programming		L	Т	Р	С	
Core		Core 13		-	-	5	5	
Pre-requisite		Knowledge on Data and Statistics	Syllab	us Ve	rsion	2021	-22	
Course Objec	Course Objectives:							
The main object	ctives of thi	s course are to:						
 Provide an Introduce s them with Introduce t 	 Provide an overview of a new language R used for data science Introduce students to the R programming environment and related eco-system and thus provide them with an in-demand skill set, in both the research and business environments Introduce the extended R ecosystem of libraries and packages 					de		
Expected Cou	rse Outcor	nes:						
On the success	ful complet	ion of the course, student will be able to:						
1 Use R for	r simple pro	ogra <mark>mming tas</mark> ks.				K2		
2 Extract d manipula	ata from fil tion tasks c	es and other sources and perform various data in them.	a		K	I, K2	2	
3 Code stat	istical func	tions in R.			K2,	K3, I	K6	
4 Use R Gr on data.	aphics and	Tables to visualize results of various statistic	Tables to visualize results of various statistical operations K2, K3					
5 Apply the	e knowledg	e of R gained to data Analytics for real life ap	oplication	ns.	K2,	K3, 1	K6	
KI - Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate; I	<u> 16 - (</u>	Create			
Lab Exercises		the state of the s	E	7				
1. Introductio	n: Downloa	ading and Installing R – R Environment – Co	mmand]	Line I	nterfac	e – F	٢	
2 Basics of R	Packages –	th $-$ Variables $-$ Data Types $-$ Vectors $-$ Call	ing Fund	tions	– Miss	ing		
Data					101150			
3. Advanced Reading Ex	Data Struct kcel Data –	ures in R: Data Frames – Lists – Matrices – A R Binary Files	Arrays –	Readi	ng CS	Vs –		
 4. Statistical (5. Basic Statistical Simple Line) 	Graphics in stics in R: S ear Regress	R: Base Graphics – Bar Chart - Histogram – Summary Statistics – Correlations – Covarian Sion – Multiple Linear Regression	Scatterp ce – T-T	lot -E ests –	oxplot ANO	s VA –	-	
					1			
		Total L	ecture H	lours	50	Hou	rs	
Lander Ia	red P (201	7) R for Everyone: Advanced Analytics and	Granhie	s Ad	lison-V	Vecla	-V	
1 Profession	ial.	<i>i</i>), it for Everyone. Advanced A maryties and	Oraphic	5. 7 I U		V CSI	<i>y</i>	
2 Sandip Ra	kshit ,R Pro	ogramming for Beginners, McGrawHill Publi	cation, 2	2017				
Reference Books								
1 wicknam, H., and Grolemund, G. (2016). R for data science: Import, tidy, transform,								

	visualize, and model data. O'Reilly Media.
2	Andrie de Vries and Joris Meys ,R Programming For Dummies, wiley publication, 2ed, 2016
2	Jeeva Jose Beginners Guide for Data Analysis using R Programming, Khanna publishing,

³ 2018.

4 Robert L. Kabacoff, R in Action, Dreamtech press, 2ed, 2015

5 K.G. Srinivasa, G.M. Siddesh, et al, Statistical Programming in R, Oxford Publication, 2017.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1 Introduction to R Software - By Prof. Shalabh | IIT Kanpur - SWAYAM

2 R Programming – Spoken Tutorial

Course Designed By: Brain Labs, Dr. A. Vimala and Dr. Chandra

Mapping with	Programme Outcomes
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COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	М	M	М
CO2	S	S	М	M	М
CO3	S	S	М	M	М
CO4	S	S	М	M	М
CO5	S	S	М	M	М
*S-Strong M	Medium: I - Low	Ed. Strates			4



Cou	rse code	4EA	Insurance for Business Process Servic	es	L	Р	C		
Allie	ed		Allied 4		4	-	-	4	
Pre-	requisite		Understanding of Risk	Syllabu	ıs Ve	rsion	2021	-22	
Course Objectives:									
The	The main objectives of this course are to:								
1. I	Develop ar	understandin	g of what risk is, how it can be measured and	transfer	red				
2. I	Inderstand	the various I	ife and Non-Life insurance Concepts						
3. F	Cnow abor	it Retirement	services provided by the Insurance Companie	S					
5. 1				5					
Exp	ected Cou	rse Outcome	S:						
Ont	he succes	sful completi	on of the cour <mark>se, student w</mark> ill be able to:						
1	To acquir	re the basic kr	owledge of Risk and Insurance				K2	-	
2	To gain k	nowledge abo	out the various Insurance Policies				K2		
3	To under	stand about th	e Non-life Insurance and Underwriting proces	SS			K3		
4	To understand the challenges of Healthcare Industry and its concepts K2								
5	To acquir	re the basic <mark>kr</mark>	n <mark>owled</mark> ge of Retirement plans in USA, UK and	<mark>d</mark> in Indi	a		K2		
K1 -	Remember	er; K2 - Unde	rstand; K3 - Apply; K4 - Analyse <mark>; K5 -</mark> Evalu	ate; K6	- Cre	ate			
				N	1				
Unit	:1 Conc	ept of Risk	Franken Lander Start		1	11	Hou	rs	
Risk	Manager	nent - Basic	concepts (Hazards, Perils, Assets, etc.) - Fu	ındamen	itals o	of Insu	ranc	e -	
Chai	acteristics	of a valid	contract - Insurance contract - Principles a	and Prac	ctices	of In	surai	nce	
Cont	ract - Imp	ortant termin	olo <mark>gies</mark> and parties in insurance contract - Ty	pes of I	nsura	nce (P	ersor	ial,	
Com	mercial, H	Health, Life, o	etc History of Insurance - Types of Insura	ance con	npani	ies - B	usin	ess	
units	in an Inst	urance compa	ny - Overview of Insurance Life Cycle (Unde	erwriting	g, Pol	icy Se	rvici	ng,	
Clair	ms, etc.) -	Reinsurance o	concept.						
			W. Questi in Lorence of MM						
Unit	:2 Life	Insurance Po	licy Alexandream cust			11	Hou	rs	
Imp	ortant tern	ninologies in	a Life Insurance policy - Parties in a Life In	surance	polic	y - Inc	livid	ual	
Life	Insurance	e plans - Su	pplementary Benefits - Policy Provisions -	- Owner	rship	rights	- L	ife	
Insu	rance poli	cy life cycle	(New business and Underwriting, Policy	servicir	ng, C	laims,	etc.) -	
Con	cept of A	nnuity - Type	es of Annuity - Annuity contract provisions	s - Anni	uity:	USA -	- Fix	ked	
Ann	uity, Fixed	l Index Annui	ty, Variable Annuity - Qualified and Non-Qu	alified A	Annui	ty - Pr	incip	les	
of G	roup Insur	ance - Group	Life Insurance - Group Retirement Plans				-		
Unit	:3 Non -	– Life Insura	nce concepts			11	Hou	rs	
Haz	Hazards Perils Catastrophe Property Damage and Business Interruption Policy exclusions								

Hazards, Perils, Catastrophe, Property Damage and Business Interruption, Policy exclusions, Indemnity, Deductibles, Retention, Premiums, Limits, Salvage, Subrogation, etc. - Insurance Providers – Co-Insurance, Reinsurance, Captive Insurance - Underwriting process - Policy Servicing process - Claims process – Reinsurance.

Unit:4Healthcare Insurance11 Hours						
How Healthcare Insurance works – Key Challenges of Healthcare Industry – Healthcare Eco System						
- Healthcare regulations and Standards; HIPAA - Medicare - Medicaid - Mediclaim - Individual						
Health Insurance policies – Group Health Insurance policies – Managed Care – Eye Care – Micro						
Insurance Schemes						
Unit:5 Concept of Retirement Services						
Retirement Planning – Asset Allocation and Asset Classes– Life stages of an Investor – Defined						
Administrator for Patiroment Services in USA Life evels of Participants in a plan (arrelment						
Administrator for Retirement Services in USA – Life cycle of Participants in a plan (enforment,						
Contribution, etc.) – Categories of Pension in $OK - DWF$ and $IFK - Annuity and income DiawdownPlan$						
Unit:6 Contemporary Issues 2 Hours						
Case Study, Expert Lectures, Online Seminars - Webinars						
Total Lecture Hours 57 Hours						
Textbook(s)						
1 TCS Material						
M N Mishra and S B Mishra ,Insurance, Sultan Chand publication, 22nd edition, 2016						
² Reference book.						
Reference Books						
1 Sharma R.S., Insurance: Principles and Practices (1960 Vora, Bombay).						
2 Dr. S.R.Myneni ,Law of Insurance, Asia Law House, 2nd edition, 2018						
C.L. Tyagi and Madhu Tyagi, Insurance Law and Practice, Atlantic publication, second edition,						
2016						
R. N. Chaudhary, General Principles of Law of Insurance, central law publication, 2nd edition,						
⁴ 2018.						
5 K.S.N. Murthy and K.V.S. Sarma, Modern Law Of Insurance In India: 5, LexisNexis publication,						
³ fifth edition 2013						
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1 Fundamentals of Insurance - SWAYAM						
2 Fundamentals of Banking and Insurance - SWAYAM						
Course Designed By: TCS and Dr. A. Vimala						

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5					
CO1	S	S	М	М	М					
CO2	М	М	М	М	М					
CO3	М	М	М	М	М					
CO4	М	М	М	М	М					
CO5	Μ	М	М	М	М					
*S-Strong; M-N	Iedium; L-Low				•					



Cou	rse code	4EA	Supply Chain Management		L	Т	Р	С			
AOS	5		AOS 2		4	-	-	4			
Pre-	requisite		Comprehend the Supply Network concept	Syllab	us Ve	rsion	2021	-22			
Cou	Course Objectives:										
The 1. U 2. I 3. I	 The main objectives of this course are to: Understand the primary differences between logistics and supply chain management Relate the individual processes of supply chain management within individual companies and across the supply chain Helps to understand the management components of supply chain management 										
Exn	ected Cou	rse Outcou	nes								
On t	he success	ful complet	ion of the course student will be able to:								
1	Understa	nd the role	and need of supply chain management				к2				
2	Recognis	e the efficie	and need of supply chain management			K	1 K2	,			
3	Know the	e ffective x	ways to manage the procurement of material			K2	K3	- K6			
<u> </u>	Re aware	of logistic	concepts and its basic activities			K2,	K3, 1	K6			
- -	De aware Realise th	e influence	of IT in supply chain management	-		K2,	$\frac{K3}{K3}$	K6			
K 1	Remember	$\mathbf{K}^{\mathbf{r}} = \mathbf{K}^{\mathbf{r}}$	derstand: K3 - Apply: K4 - Applyse: K5 - Fy	aluate I	X6_(T_{reate}	K 3, 1	X U			
111	Remember	, K2 OII			XU (licate					
Unit	•1 Intro	duction on	Supply Chain Management (SCM)		1	11	Нош	rs			
Mea	ning and	Definition	- Objectives – Importance of SCM - Scope	of SCM	- Tv	pes of	SCN	Л -			
Mai	or drivers	of SCM - S	Supply chain as a profession - Need for SCN	M in ma	rket t	odav -	Sup	nlv			
chai	n strategy.		appropriate as a profession freedom of a of	19 /		o aa j	~ ~p	2-)			
				1							
Unit	:2 Oper	ations mar	agement in SCM			11	Hou	rs			
Den	nand Man	agement -	Basic concepts - supplier Management - H	Basic co	ncept	s - Ot	berat	ion			
Man	agement i	n SCM - B	asic principles - Lean Manufacturing and SC	^C M – Co	ncept	s - Ber	efits	of			
Lear	n Manufac	turing - E	lements. Mass Customization – Characteris	stics – l	Drive	rs – L	evels	s —			
char	acteristics	- Methods	- SCM and Mass customization – Outsour	cing - C	lore c	ompete	encie	s -			
worl	king mode	ls.		U		1					
	0										
Unit	t:3 Proc	urement M	anagement in SCM			11	Hou	rs			
Intro	oduction -	Purchasing	cycle - types – Inventory models - EOQ mo	del - Inv	entor	y term	inolc	ogy			
- In	ventory N	lanagemen	t - Inventory counting system. JIT – Ele	ments –	- Ben	efits -	Vend	dor			
Man	agement.	5									
Unit	t:4 Logis	tics Mana	gement			11	Hou	rs			
Hist	ory and	Evolution	- Elements-Distribution of Management	- Distri	butio	n strat	egies	5 -			

Transportation Management - Participants in transportation - modes of Transportation - decision

factors and transport documentation - Fleet management – process – factors - Inter model transportation – containerization – Warehousing – Types - Warehouse Management System (WMS) – Packaging - 3PL - 4PL - Reverse Logistics.

Unit:5 Information Technology for SCM

Concepts - IT applications in SCM - Benefits of Integrated SCM tools - Role of Internet in SCM - Green Logistics - Data Mining and Data Warehouse.

Unit:6 Contemporary Issues

Case Study, Expert Lectures, Online Seminars - Webinars

Total Lecture Hours57 Hours

11 Hours

2 Hours

Textbook(s)

1	G. Raghuram, N. Rangaraj, Logistics and supply chain management, Macmillan India Ltd,2010.
2	Donald Bowersox, David Closs, M. Bixby Cooper, Supply Chain Logistics Management, Mc

² Graw Hill, 2012.

Reference Books

-	
1	D.K. Agarwal, (2003), Logistics and supply chain management, Macmillan India Ltd.
0	David Simchi Levi, Philip Kaminsky and Edith Simchi Levi, (2004), Managing the supply
2	chain, The Definite guide, Tata Mcgraw Hill.
2	Burt, Dobler and Starling, (2003), World Class Supply Management, The Key to SCM, Tata
5	McGraw Hill, 11th edition.
4	Chopra/Kalra, Supply Chain Management, Pearson publication, 6/e, 2016
5	Richard B. Chase, Ravi Shankar, et al Operations and Supply Chain Management(SIE),
	McGrawhill publication, 15th edition, 2018.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1 Supply Chain Management – CEC

Course Designed By: Dr. A. Vimala and Dr. S. Sadhasivam

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5					
CO1	S	S	М	L	М					
CO2	S	S	М	М	М					
CO3	S	S	М	М	М					
CO4	S	S	М	М	М					
CO5	S	S	М	М	М					
*S-Strong; M-	Medium; L-Low									

Course code	Course code4FEGeneral AwarenessL							С			
Elective	Elective Elective 2 2							2			
Pre-requisiteKnowledge in Current AffairsSyllabus Version								-22			
Course Objec	tives:			·							
The main objectives of this course are to:											
1. Imparting knowledge on "General Awareness" prescribed for the examination to be taken by the Undergraduate students											
Exposted Cou	rea Autoo	1051									
On the success	ful comple	ion of the course	student will be able to:								
1 Learn var	rious aptitu	e tests	, student will be uble to.				K2				
2 Learn rea	asoning test		100				K2				
3 Learn and	d understan	l about science a	nd technology, Compute	ers, etc			K2				
4 Learn ab	out sports a	nd culture	MOREN VAL				K2				
5 Learn and	d study cur	ent affairs		Sec. 1			K2				
K1 - Remember	er; K2 - Un	lerstand; K3 - A	pply; K4 - Analyse; K5	- <mark>Eval</mark> uate;]	K6 - (Create					
 Following are Verbal Aptir Numerical A Abstract Rea Tamil and C General Science Computer Economics a Social Studi Sports Current Af 	the areas tude Aptitude asoning Other Litera ence and Te and Comme es fairs	vnich cover the ure chnology and Ed	ucation								
			Tota	al Lecture I	Hours	18	Hou	rs			
$\frac{1 \text{ extbook(s)}}{1 \text{ General } \Delta}$	wareness 1	harathiar Univer	reity								
	wareness, 1		Sity								
Related Onlin	e Contents	[MOOC, SWA]	YAM, NPTEL, Websit	es etc.]							
1 https://ww	1 https://www.careerpower.in/gk-general-knowledge.html										
Course Design	ed By: Bha	rathiar Univers	ity								



Course code	53A	Human Resource Management		L	Т	Р	С				
Core	I	Core 14		5	-	-	5				
Pre-requisite	Pre-requisiteAwareness on Organisation and its EnvironmentSyllabus Vers										
Course Objec	tives:										
The main objectives of this course are to:1. Understand the concept of human resource management.											
2. Learn the s	skills Huma e strategic i	n Resource Manager ssues and strategies required to select and de	velon ma	nnow	er reso	urce	•				
5. Tharyse th	e strategie i	suce and strategies required to select and de	velop ma	npow		Juice					
Expected Cou	rse Outcon	nes:									
On the success	ful complet	ion of the course, student will be able to:									
1 Understa	nd the conc	ept <mark>s and</mark> role of HRM				K2					
2 Develop	selection ar	d i <mark>ntervie</mark> wing program			K2,	K3,]	K6				
3 Structure	and propos	e an OD intervention			K	2, Ke	5				
4 Expertise	e in career a	nd succession planning			K2,	K3, 1	K6				
5 Be aware	e of various	labour welfare measures		1	K	2, K3	3				
K1 - Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	<mark>zal</mark> uate; K	<u> 6 - C</u>	reate						
		Constan Quint 1		1							
Unit:1 Intro	duction		- A-	Υ.	12	Hou	rs				
HRM – Role	Definition of HRM	. Job Analysis: Process of Job Analysis	s – Job	and Des	Import criptio	ance n —J	e of Job				
Specification-	Motivation	1990									
Unit.? Recr	uitmont				12	How	rc				
Definition and	l Objective	s of Recruitment - Recruitment Policy -S	ources o	f Re		ent g	and				
Definition and Objectives of Recruitment – Recruitment Policy –Sources of Recruitment and Methods of Recruitment. Selection: Definition and Purpose of Selection – Selection Procedure. Training and development of Employees – Training Objectives – Need for Training – Training Methods – Advantages of Training – Performance Appraisal System: Components and Methods of Performance Appraisal.											
TL-24-2 T 1					1.0	TT .					
Unit:3 Indiv	idual and	Organizational Development		L.1	12. Set	Hou:	rs				
Definition, Objectives and Characteristics of OD and HRD Intervention. Job Satisfaction: Definition and Factors of Job Satisfaction.											
Unit:4Career Planning and Succession Planning.12 Hours											
Objectives, Process and Career Counselling – Advantages and Limitations – Career Development											
stages. Promotion, Transfer and Demotion.											

Un	it:5 Labo	our Welfare				12 Hours
De	finition of	Labour Welfare-	Objectives and	Scope of Labor	ur Welfare – Principl	es of Labour
We	lfare Progra	ammes- Ethics in I	HRM- Recent T	echniques in HI	RM.	
Un	it:6 Cont	emporary Issues				2 Hours
Ca	se Study, E	xpert Lectures, Or	nline Seminars -	Webinars		
				Τ	Cotal Lecture Hours	62 Hours
Te	xtbook(s)					
1	Subba Rao Himalaya	o. P., (2004), Pers Publishing House	onnel and Huma	an Resource Ma	nagement (Text and c	cases),
2	Gary Dess 2019.	sler, Biju Varkkey	, Human Resour	ce Management	t, Pearson education,	15th edition,
			1000	and the second second		
Ref	ference Bo	oks	Contraction of the			
1	George V	W Bohlander ar	nd Scott A Si	nell (2013), "	Principles of Huma	an Resource
-	Managem	ent". Fifteenth Ed	ition"; Thomson	Publications.	6	
2	K Aswath	appa, "Human R	esource and Pe	rsonal Manage	ment" (2017) Tata N	AcGraw Hill,
_	8thEdition				1.2	
3	L. M. Pras	ad, Human Resou	rce Managemen	t, Sultan Chano	d and Son's, Latest edi	ition,2018
4	Gary Dess	sler, Human Resou	irce Managemer	it, Pearson educ	ation,4e, 2017	
5	V.S.P Rac	o, Human Resourc	e Management,	Faxmanns publ	ication, 2nd edition, 2	020
			1	1		
Re	lated Onlin	e Contents [MO	DC, SWAYAM	, NPTEL, Web	sites etc.]	
1	NOC: Pri	nciples of Human	Resource Manag	gement - NPTE		
a						
Col	urse Design	ed By: Dr. A. Vi	nala and Dr. C.	Dhayanand	8	
3.5	• • • •	D	10			
Ma	pping with	Programme Ou	tcomes	PC2		D O 7
		POI	PO2	PO3	PO4	<u>P05</u>
		S	S C	M	M	
	<u>CO2</u>	S	S C	M	M	M
	<u>CO3</u>	S	S C	M	M	
	<u>CO4</u>	S	S C	M	M	M
* 9	<u>CO5</u>	S S	S	M	M	M
*S-	Strong; M-	Medium; L-Low				

Course code	53B	Organizational Behaviour		L	Т	Р	С				
Core	Core 15 6						6				
Pre-requisiteKnowledge in Organisation structure and ValuesSyllabus Ver							1-22				
Course Objectives:											
 The main objectives of this course are to: 1. Enable students to describe how people behave under different conditions 2. Demonstrate knowledge and understanding of organizational behaviour 3. Analyze the complexities in the management of the group behaviour in the organization 											
Expected Cou	rse Outcor	nes:									
On the success	ful complet	ion of the course, student will be able to:									
1 Be aware	of the basi	s of t <mark>he behaviour of employees in</mark> an organis	sation			K2					
2 Recogniz organisat	the em ion	otio <mark>ns, attitude and job satisfaction that</mark>	t prevai	ils in	K	2, K5	5				
3 Understa	nd motivati	on theories and relate that to organisation beh	naviour		K	2, K4	1				
4 Learn the	e importanc	<mark>e of tea</mark> m and the ways to frame team in an or	<mark>rg</mark> anisati	on	K	2, K3	3				
5 Realise th	ne concepts	of leadership and the decision making involv	<mark>zed</mark>	1	K	2, K3	3				
K1 - Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	<mark>al</mark> uate; 1	K6 - (Create						
Unit:1 Intro	duction	Contraction of the second seco	1		12	Hou	rs				
Foundation of	f Organiza	tional Behaviour – Work Settings – Org	anizatio	nal E	Sehavio	our a	ınd				
Management –	Values – F	ersonality – Individual Differences									
L: 4.2 E		les end leb Cediefe dien			10	r					
Unit:2 Emo	10n, Attitu	and Moods Emotions and Moods in	Action	۸ +	12	Hou	rs Iab				
Satisfaction – Individual Lea	Perception rning	n Process – Managing Perceptions – Imp	portance	of A	Attribu	tions	-				
Unit.2 Mati	untion The	ariag and Craung			10	How					
Definition	Value 1 ne	beories - Types Job Design Approaches	Joh Cha	ractor	istics N	Anda	12				
Groups in Org	anization -	Formal Group – Informal Group	JUU CIIA	Iaciei	isues r	vioue	л —				
Groups in Org											
Unit:4Team Works12 Hours											
Types of Team	Types of Team – Nature of Teamwork – Team Performance - Team Building										
Unit:5Leadership and Decision Making12 Hours											
Leadership Fo in Decision Ma	undation – aking – Typ	Leadership Perspectives - Moral Leadership bes of Decision – Managing the Decision-Mal	– Decis king Pro	ion N cess	laking	– Sto	eps				

Unit:6Contemporary Issues2 Hours										
Case Study, Expert Lectures, Online Seminars - Webinars										
Total Lecture Hours 62 Hours										
Textbook(s)										
1 John R. Schermerhorn, Jr., et al, (2011), Organizational Behaviour. John Wiley and Sons.										
2 Robbins, S. P., and Judge, T. (2013). Organizational behaviour (15th ed.). Boston: Pearson.										
Reference Books										
Pareek. U. (2010). Understanding Organizational Behaviour (2nd ed.). Oxford University										
Press										
Stephen P. Robbins, Timothy A. Judge, et al ,Organizational Behaviour, Pearson publication,										
Eighteen Edition, 2018										
3 L. M. Prasad, organisational Benaviour, sultan chand publication, 2014										
4 K. Ashwathappa, organisational Benaviour, Himalaya Publishing House, 2018										
5 Fred Luthans, organisational Behaviour, McGraw Hill Education, 12th edition, 2017										
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]										
I Organizational Benaviour - NPTEL										
Come Designed Des De A. Wards, De C. Collegioner et De C. Discoursed										
Course Designed By: Dr. A. Vimaia, Dr. S. Sadnasivam and Dr. C. Dhayanand										
Manning with Programma Outgomes										
COc PO1 PO2 PO3 PO4 PO5										
CO1 S S M M M										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
CO4 S S M M										
CO5 S S M M										
*S-Strong; M-Medium; L-Low										

Course code	53C	Machine Learning for Data Analytic	cs	L	Т	Р	С			
Core		Core 16		6	_	_	6			
Pre-requisite		Relational Database Management System	Syllab	us Ve	rsion	2021	1-22			
Course Objectives:										
The main objectives of this course are to: 1. Give introduction to various topics in machine learning. 2. Design and implement machine learning solutions to real time problems 3. Evaluate and interpret the results of the algorithms Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Understand the use of machine learning in predictive data analytics										
2 Gain kno	wledge on	nformation-based learning in data analysis			K4 a	nd K	5			
3 Gain kno	wledge on	similarity-based learning in data analysis			K4 a	nd K	5			
4Gain kno5Learn vai	rious tools	error-based learning in data analysis used in predictive data analysis using machine	e learnin	g	K4 a K4, k K	nd K K5 ar K6	.5 1d			
K1 - Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate; I	X6 - (Create					
T T •4 4 T 4		(10.1	r				
Predictive Dat	a Analytics	- Machine Learning - Types - Application	s – Data	Expl	oration	100r	s ata			
Quality Repor Preparation.	t – Data I	Distributions – Identifying and Handling D	Data Qua	ality	Issues	– D	ata			
Unit.2 Infor	mation Ra	sed Learning	1		12 H	lour	G			
Decision Tree Selection – Ha Ensembles.	ndling Des	on's Entropy Model – Information Gain – criptive features – Predicting Continuous Targ	· ID3 A gets - Tr	lgorit ee Pr	hm – i uning –	Featu - Mo	ure del			
Unit.3 Simil	arity Rase	l Learning			12 H	lour	c			
Feature Space Handling Nois	– Measuri y Data – Ef	ng Similarity using Distance Metrics – Near ficient Memory Search – Data Normalization	est Neig 1.	ghbou	r Algo	rithn	s n –			
Unit:4 Erro	r Based Le	arning			12 H	lour	S			
Simple Linear Descent – Lear	Simple Linear Regression – Measuring Error - Multivariable Linear Regression - Gradient Descent – Learning Rates – Initial Weights – Multinomial Logistic Regression.									
Unit:5 Evalu	Unit:5 Evaluation 12 Hours									
Misclassification Rate – Designing Evaluation Experiments – Performance Measures: Categorical										

Tar	gets, Predic	tion Scores, Mu	Iltinomial Targets	, Continuous Targ	gets.					
Unit:6 Contemporary Issues 2 Hours										
Case Study, Expert Lectures, Online Seminars - Webinars										
Total Lecture Hours 62 Hours										
Textbook(s)										
1	Kelleher, John D., et al. (2015), Fundamentals of Machine Learning for Predictive Data									
1	Analytics:	Algorithms, W	orked Examples, a	and Case Studies.	MIT P.					
2	John Paul	Mueller, Luca N	Aassaron, Machir	e Learning (in Py	thon and R) For D	ummies,				
2	wiley pub	ication, 2016								
Re	ference Boo	oks								
1	Raschka, S	5. (2015). Pytho	n machine learnin	g. Packt Publishi	ng.					
2	Gutierrez,	D. D. (2015). N	Iachine learning a	nd data science: A	An introduction to s	tatistical				
	learning m	ethods with R.	Technics Publicat	ions.						
3	Tom M. M	litchell, Machin	<mark>e Lea</mark> rning, McGr	awHill publication	on, Indian edition, 2	017				
4	Shan Suth	aharan, Machin	e Learning Models	s and Algorithms	for Big Data Classi	fication,				
	Springer p	ublication, 201	5	2						
5	Oliver The	eobald, Ma <mark>chine</mark>	Learning For Ab	solute Beginners,	2018					
Re	ated Onlin	e Contents [M	OOC, SWAYAM	, NPTEL, Webs	ites etc.]					
1	NOC: Intr	oduction to Ma	chine Learning (C	ourse sponsored t	by Aricent) – NPTE					
G										
Co	arse Design	ed By: Dr. A. V	imala and Dr. R	. Chandra	19					
		-								
Ma	pping with	Programme C	outcomes	DOA	DO 4	D O F				
	COs	POI	PO2	PO3	PO4	<u>P05</u>				
		M	S	M	S	S				
	<u>CO2</u>	S	Such	S	S	<u> </u>				
	<u>CO3</u>	S	S	S	S	<u> </u>				
	<u>CO4</u>	S	S	S	S	<u> </u>				
* 0	<u>CO5</u>	S	S	S	S	Μ				
*S-	Strong; M-	Medium; L-Lov	1							

Course code 53P			Python for Data Analytics		L	Т	Р	C		
Core			Core 17			-	6	6		
Pre	e-requisite		Knowledge in R Programming	Syllabu	s Ve	rsion	2021	-22		
Co	urse Objec	tives:								
The main objectives of this course are to:1. Provide comprehensive knowledge of python programming paradigms required for Data Science.										
Ex	pected Cou	rse Outcoi	nes:							
On	the success	ful comple	ion of the course, student will be able to:							
1	Understa	nd Python I	pasic data types			K4, K5, K6				
2	Demonst	rate the usa	ge of built-in objects in Python			K4, K	5, K	6		
3	Analyse the significance of python program development environment by K4, K5, K6 working on real world examples							6		
4	Implement through N	nt numerica NumPy	l programming, data handling and visualizat	ion		K4, K	5, K	6		
5	Visualise	data throu	gh python			K4, K	5, K	6		
K1	- Remember	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	valuate; K	6 - 0	Create				
			Franken hand the	- 1	1					
La	b Exercises				1					
 Introduction: Installation and Setup – Python Libraries – Python Packages – Ipython – Importing and Exporting Files Basics Python: Basic Data Types – NumPy Package – List – Tuples – Functions - Arrays Advanced Python: Panda Package – Data Frames – Filtering – Outliers – Summarization Data Manipulations in Python: Data Cleaning – Handling Missing Data – Data Transformation – String Manipulation – Data Wrangling Data Visualizations in Python: Line Plots – Bar Plots – Histogram – Density Plots – Scatter Plots – Categorical Data 										
			Total Lect	ure Hour	s	50 H	ours			
Textbook(s)										
1	1 McKinney, Wes. Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython. O'Reilly Media, 2017.									
2	Jeeva Jose and P. Sojan Lal, Introduction to Computing and Problem Solving with Python, Khanna Book Publishing, 2019									
Re	ference Boo	oks								
1	1 Nelli, F. (2018). Python data analytics: With pandas, NumPy, and Matplotlib. Apress.									
2	Vander Plas, J. (2016). Python data science handbook: Essential tools for working with data. O'Reilly Media.									

3	Reema Thareja, Python Programming: Using Problem Solving Approach, Oxford publication, 2017.
4	Bharti Motwani, Data Analytics using Python, Wiley Publication, 2020
5	U Dinesh Kumar Manaranjan Pradhan, Machine Learning using Python, Wiley publication,
5	2019.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

- 1 NOC:Business Analytics and Text Mining Modelling Using Python NPTEL
- 2 NOC:Data Analytics with Python NPTEL
- 3 Python Spoken Tutorial

Course Designed By: Dr. A. Vimala, Dr. R. Chandra and Dr. C. Dhayanand

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5			
CO1	М	S	М	S	S			
CO2	S	S	S	S	S			
CO3	S	S	S	S	S			
CO4	S	S	S	S	S			
CO5	S	S	S	S	М			
*S-Strong: M-Medium: L-Low								



Course code 5EB			Tally for Accounts			Т	Р	С		
AOS			AOS 3			-	4	4		
Pre-	requisite		Familiarity in Finance and Accounting	Syllabı	us Version 2021-22			1-22		
Cou	Course Objectives:									
 The main objectives of this course are to: 1. Impart knowledge regarding concepts of Financial Accounting Tally is an accounting package which is used for learning to maintain accounts. 										
Exp	ected Cou	rse Outcon	nes:							
On t	he success	ful complet	ion of the course, student will be able to:							
1	Understa	nd account	terms in Tally			K3, K4 and K6				
2	Handle a	ccount tran	saction using tally.			K3, K4 and K6				
3	Manage accounting of any Business or individuals						K3, K4 and K6			
4	Creating Computerized Books of accounts with finalizing reports K3, K4 and K6							nd		
5	Perform l	FIFO and F	ILO analysis		1	K3, k	K4 ar K6	ıd		
K1 -	Remembe	er; K2 - Un	ders <mark>tand; K3 - Apply; K4 - Analyse; K5 -</mark> Eva	aluate; H	X6 - (Create				
		115		ã /	1					
Lab	Exercises									
1. (Creation of	f a company	and ledger.							
2. H	reparation	n of Trial B	alance							
3. C	reation of	voucher ei	itries and a superior to a superior							
4. f	reparation	1 OI Cash Do	OK							
э. г 6 т	Proparation	1 01 Dallk R	Concination statement	vithout	odina	tmonto				
 b. Preparation of Trading, Profit and Loss Account and Trial Balance without adjustments. 7. Preparation of Trading, Profit and Loss Account and Trial Balance with adjustments. 										
7. Preparation of Frading, Profit and Loss Account and Frial Balance with adjustments.										
9 Preparation of hudget										
10. Fund Flow Analysis										
11. Cash Flow Analysis										
12. FIFO, LIFO										
13. Stock valuation										
			Total Lect	ture Ho	urs	50 H	Iour	'S		
Text	book(s)									
1Inc., K. S. (2008). Tally 9 in simple steps. John Wiley and Sons.										

2 Tally ERP 9 (Power of Simplicity) by Shraddha Singh

Reference Books

1GST Accounting with Tally.ERP 9

2 Comdex Business Accounting with MS Excel and Tally ERP 9 Course kit

3 Implementing Tally-ERP 9.0

4 Learn Tally.ERP 9 with GST and E-Way Bill

5 Learn Tally. ERP 9 A Self-Study Approach Book

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

- 1 Financial Accounting By Prof. CA. Varadraj Bapat | IIT Bombay SWAYAM
- 2 Front Accounting Spoken Tutorial

Course Designed By: Dr. A. Vimala and Dr. Sumathi

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5			
CO1	S	S	M	S	М			
CO2	S	S	S	M	М			
CO3	M	S	М	S	М			
CO4	S	М	M	S	М			
CO5	S	S	M	S	М			
*S-Strong; M-Medium; L-Low								

APL C
Mini		Course code56AMini Project and Viva VoceL						I	ſ	C
	Project		Mini P	roject			-	3	-	3
Pre-r	requisite		Knowl Analyt	edge in Resear ical Tools	ch Methods and	Sylla	bus Ve	rsion	2021	1-22
Cour	rse Objec	tives:								
The r	nain objec	ctives of the	s course	e are to:						
1. T 2. T	[°] he studen [°] he studen	ts will get l ts will gain	ands or interact	experience in ion with comp	a company to ex any employee in	thibit their sk the real wor	ills lea k envir	rnt. onmen	t.	
3. The students will gain understanding of general rules, regulation, duties and responsibilities.										
Fync	eted Cou	rsa Autoor	noc							
On th	ne success	ful comple	tion of the	he course, stud	ent will be able	to:				
	The students will get hands on experience in a company to exhibit their skills									
1	learnt. K6									
2 The students will gain interaction with company employee in the real work environment.									K4	
3 The students will gain understanding of general rules, regulation, duties and responsibilities									K2	
4	They may	y get good	capport	with the organi	sation for future	reference.	1		K3	
5	Students	may get ca	mpus to	corporate expo	sure		-1		K3	
K1 -	Remembe	er; K2 - Un	derstand	l; K3 - Apply;	K4 - Analyse; K	5 - Evaluate;	K6 - (Create		
			4			19	1			
Awan Inter Exter	rding Ma mal 50: O rnal 50: S	rks bservation ubmitting	report a final rep	nd Review ort, Presentatic	on and Viva Voc	e				
Cours	se Design	ed By: Dr.	A. Vim	ala, Dr. S. Sad	lhasivam and D	or. C. Dhaya	nand			
Map	ping with	Program	ne Outo	comes						
(COs	PO	l	PO2	PO3	PO4		P	05	
(C O 1	S		Μ	М	S		Ν	M	
(CO2	S		M	M	S ~		<u> </u>	M	
	203	<u>S</u>		M	S	<u> </u>		N		
	204	<u>S</u>		M	M	<u> </u>		N		
)										



Course cod	e 63A	Data Mining and Data Warehousin	g	L	Т	Р	С				
Core		Core 18		6	-	-	6				
Pre-requisi	te	Relational Database Management System	Syllab	us Ve	rsion	2021	-22				
Course Ob	ectives:										
 The main objectives of this course are to: 1. Introduce the concepts of data mining and data warehouse 2. Explore various data mining process 3. Mine frequent patterns from the datasets 											
Expected Course Outcomes:											
On the succ	essful comple	tion of the course, student will be able to:									
1 Understand the functionality of the various data mining and data warehousing component											
2 Appreciate the strengths and limitations of various data mining and data warehousing models K3, K6											
3 Explain the analyzing techniques of various data											
4 Descri	4 Describe different methodologies used in data mining and data ware housing. K4										
5 Comp- variou	are different a s technologies	pproaches of data ware housing and data min	ing with			K5					
K1 - Remer	nb <mark>e</mark> r; K2 - Ur	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	valuate; l	K6 - (Create						
Unit.1 De	to Mining		ŝ.	1	12	Hou	rc				
Introduction	to Data Min	ng - Kinds of Data - Kinds of Pattern - Tecl	nologie	s Use	1_1 <u>_</u>	1100	15				
Application	s and Issues o	f Data Mining.	morogie	0.000							
		ar Dans and P									
Unit:2 Da	ta	Elifeate an a siNU			12	Hou	rs				
Data Objec Measuring I	ts and Attribu Data Similarit	te Types - Basic Statistical Descriptions of y and Dissimilarity.	Data - I	Data V	Visualiz	zatio	n -				
Unit.3 De	to Pro-Proce	ssing			12	Hou	rc				
Overview of	f Data Pre-P	rocessing – Data Cleaning – Data Integratio	n – Dat	a Rec	luction	- D	15 ata				
Transforma	ion and Data	Discretisation.				- D	<u> </u>				
Unit:4 Data Warehousing 12 Hours											
Basic Concepts – Data Watchouse Modelling – Data Cube – Online Analytical Processing – Data											
Warehouse Design and Usage – Data Warehouse Implementation.											

Un	it:5 A	Association Rule Mini	ng			12 Hours		
Mi	ning F	requent Patterns, Asso	ociations and Co	orrelations – Ma	arket Basket Analysi	s - Frequent		
Iter	n set N	lining Methods - Patter	n Evaluation Me	ethods.				
Un	it:6 (Contemporary Issues				2 Hours		
Ca	se Stud	y, Expert Lectures, On	line Seminars - Y	Webinars				
				To	otal Lecture Hours	62 Hours		
Tey	xtbook	(s)						
1	Han,	Jiawei., Micheline Kan	nber, and Jian Pe	ei. (2012), Data I	Mining: Concepts and	đ		
1	Techr	niques, Third Edition. 3	ord ed. Waltham,	Mass.: Morgan	Kaufmann Publisher	·s.		
2	Introc	luction to Data Mining	, Tan, Steinbach	and Kumar, 2e	(2005)			
Ref	ference	e Books	A 413	and the second second				
1	1 Pujari, A. K. (2001). Data mining techniques. Universities Press.							
2	2 Suh, S. C. (2012). Practical applications of data mining. Jones and Bartlett Publishers.							
3	Data	Mining, Charu C. Agga	arwal, Springer 2	2015				
4	Data	Mining Practical Mach	ine Learning To	ols and Techniqu	ues, Ian Witten, Eibe	Frank, 2004		
5	Data	Mining and Machine L	earning: Fundan	nental Concepts	and Algorithms, Mol	nammed J.		
	Zaki	and Wagner Meira 201	9	1000	131 1 1 1			
Rel	ated C	Online Contents [MOC	DC, SWAYAM,	NPTEL, Webs	ites etc.]			
1	Data	Mining - By Mr. L. Ab	raham David S	t.John's College	<mark>, P</mark> alayamkottai - SW	AYAM		
ã								
Coi	arse De	esigned By: Dr. A. Vi	nala, Dr. R. Ch	andra (Subject	Expert) and Dr. C.	Dhayanand		
3.6	•	141 D 0 1		11.11	1			
Ma	pping	with Programme Out	comes	POL	DO 4	DOF		
	COs	POI	PO2	PO3	PO4	PO5		
		M	S	M	S	5		
	<u>CO2</u>	5	S	S	<u> </u>	<u> </u>		
	<u>CO4</u>	<u> </u>	5	<u> </u>	<u> </u>	<u>S</u>		
	$\frac{C04}{C05}$	<u> </u>		<u> </u>	<u> </u>	S M		
*6	CU3 S S S M *S Strong: M Medium: L Louy							
· 9-	Suong	, wi-wieululli, L-LOW						

Course code	63B	Digital Marketing		L	Т	Р	С		
Core		Core 19		6	-	-	6		
Pre-requisite		Awareness on Marketing and Social Media	Syllab	us Ve	rsion	2021	1-22		
Course Objec	tives:								
The main obje	ctives of thi	s course are to:							
1. Examine and explore the role and importance of digital marketing in today's rapidly changing business environment.									
Expected Course Outcomes:									
On the successful completion of the course student will be able to:									
Understand the role of Digital Marketing in integrated marketing									
l commun	Communications K2, K3								
2 Create engaging and high-impact marketing content K6									
3 Learn about Search Engine Optimization and Pay-Per Click Advertising K3, K4									
4 Create engaging blogging content K6									
5 Develop customer relationship using digital marketing K5, K6									
K1 - Rememb	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - E	valuate; l	K6 - (Create				
Unital Cost	ann an Tann	(10	11			
Creating a Cust	stomer Ave	ter - Cetting Clear on the Value You Provi	de Stac	tes of	the C	Hou	rs ner		
Journey- Pren	aring Your	Customer Journey Road Map - Establish	ing Mar	keting	Obie	ctive	s -		
Defining a Dig	gital Market	ing Campaign - Understanding the Types of	Campaig	gns.	, - J				
	0		1						
Unit:2 Craf	ting Winni	ng Offers			12	Hou	rs		
Offering Valu	e in Advan	ce - Designing an Ungated Offer - Designin	ig a Gate	d Off	er - De	signi	ing		
Deep-Discoun	t Offers - M	aximizing Profit.							
Unit:3 Purs	uing Conte	nt Marketing Perfection			12	Hou	rs		
Knowing the	Dynamics of	f Content Marketing - Finding Your Path to	Perfect (Conte	nt Mar	ketin	g -		
Executing Per	fect Conten	Marketing - Distributing Content to Attract	an Audie	ence.					
Unit.4 Plag	aina for Du	aineas			12	Uom	na		
Establishing a	n Blog Publ	ishing Process - Applying Blog Headline	Formulas	- A1	Iditing	a B	log		
Post - Buildir	ng High-Co	nverting Landing Pages - Capturing Traff	ic with S	Searcl	n Mark	ceting	g -		
Following Up with Email Marketing.									

Un	it:5 Tools	for Digital Mark	eting Success			12 Hours			
Bu	ilding a W	ebsite - Hosting a	Website - Ch	oosing Email M	Aarketing Software -	Considering			
Cu	stomer Rela	tionship Managen	nent (CRM) - A	Adding a Payme	nt Solution - Using I	Landing Page			
Sof	Software - Sourcing and Editing Images - Managing Social Media - Measuring Your Performance:								
Dat	Data and Analytics - Optimizing Your Marketing.								
Un	it:6 Cont	emporary Issues				2 Hours			
Ca	se Study, Ez	xpert Lectures, On	line Seminars -	Webinars					
	Total Lecture Hours								
Te	xtbook(s)								
1	1 Deiss, Ryan, and Russ Henneberry, (2020), Digital Marketing for Dummies. John Wiley and								
1	Sons.								
2	2 Puneet Bhatia ,Fundamentals of Digital Marketing, Pearson education, Second Edition,2019								
Re	ference Boo	oks							
1	Deiss, R.,	andHenneberry, R	. (2020). Digita	l marketing for c	lummies. John Wiley	and Sons.			
2	Ian Dodso	n, The Art of <mark>Digi</mark>	tal Marketing, W	Viley publication	<mark>i, 2016</mark>				
3	Seema Gu	pta, Digita <mark>l Marke</mark>	ting, McGrawh	ill publication, 2	.017				
4	Puneet Sir	igh Bhatia <mark>, Social</mark>	Media and mob	ile marketing, w	viley publication, 2019	9.			
5	Philip Kot	ler, Marketing 4.0	, wiley publicat	ion, 2017					
			Franciscon						
Re	lated Onlin	e Contents [MOC	<mark>DC, SWAYA</mark> M	, NPTEL, Web	sites etc.]				
1	Basics of I	Digital Marketing	- SWAYAM	and i					
		0			S / I				
Co	urse Design	ed By: Infosys BP	<mark>M, D</mark> r. A. Vim	ala and Dr. C.	Dhayanand				
		1 43	-		88 1				
Ma	pping with	Programme Out	comes	(Brown					
	COs	PO1	PO2	PO3	PO4	PO5			
	CO1	S	SUCATE		М	Μ			
	CO2	S	S	М	М	Μ			
	CO3	S	S	М	М	М			
	CO4	S	S	S	S	S			
	CO5	S	S	М	М	S			

*S-Strong; M-Medium; L-Low

Cou	rse code	63C	Business Ethics and Corporate S Responsibility	ocial	L	Т	Р	С		
Core	2		Core 20		6	_	_	6		
Pre-	requisite		Understanding in Values and Ethics	Syllah	us Ve	rsion	2021	1-22		
Cou		4:	enderstanding in varies and Ethes	Bynab		1 51011	_0_1			
Cou	rse Objec	uves:								
1. I 1. I 2. I 3. I	 Provide students with the basic skills concerning business ethics and corporate social responsibility Make students understand the role of ethics, corporate responsibility and sustainability in business activities Evaluate ethical business practices 									
T		0.1								
Exp On t	ected Cou	ful complet	les:							
1 Have clear input on ethics and its need in organisation								K6		
-						K2, K3,				
2	2 Understand the importance of ethics in marketing							5		
3 Gain knowledge on ethical HRM K2, K3								K5		
4 Realize the importance of Ethics in business							K2, K3, K4, K6			
5	Aware of	internation	al ethical business and CSR		_	K2 K4	K2, K3, K4 K6			
K1 -	Remembe	er; K2 - Un	lerstand; K3 - Apply; K4 - Analyse; K5	- Evaluate;	K6 - (Create	,			
		10		12						
Unit	t:1 Intro	duction on	Ethics			12	Hou	rs		
Ethi Impo orga	cs – Mea ortance, N nization –	aning, Def lature, Sco Running ar	e and Objectives, Sources, Types – be and Objectives – Myths about bus ethical business.	Ethics and iness ethics	s - E	ness – thics a	nd	ed, the		
Unit	t:2 Ethic	s in marke	ing			12	Hou	rs		
Ethics in areas of advertising, new product pricing, product packaging and labelling, personal selling, international marketing, supply chain management – criticism of ethics in marketing – Ethics in retail business.										
Unit:3 Ethics in HDM										
Priv	acy issues	– psycholo	vical expectation model – Restricting and	l lavoffs – v	vages	empow	iour /erm	s ent		
of the weakest and unique – Advancement of women in the workforce– Human quality										
development – Sexual harassment – Discrimination – Whistle Blowing Vs Organizational loyalty										
-En	nployer rig	ts and res	onsibilities							

	·	. 1.6			10 11					
Unit:4 Ethi	cs in other Manage	erial functions	·		12 Hours					
Ethics in pro	Ethics in production and operations management – Ethics in finance – Specific laws that affect									
retailers.										
Unit:5 Ethi	cs, CSR in global a	nd Indian con	text		12 Hours					
Ethics in global business – Ethical international decision – Making methods – Corporate										
responsibility	and the environmer	nt.								
Unit:6 Con	temporary Issues	. ~ .			2 Hours					
Case Study, E	Expert Lectures, On	line Seminars -	Webinars							
			Т	otal Lecture Hours	62 Hours					
Textbook(s)										
1 K. Aswth	appa (2014) Essent	ials of Business	Environment-H	Iimalaya Publishing H	Iouse					
$_2$ S K Man	S K Mandal ,Ethics in Business and Corporate Governance, McGrawHill Publication, second									
² edition, 2	017									
				6						
Reference Bo	oks 🦯		The second							
Hartman,	L., Desjardins, J.,	MacDonald, C	C., (2013), Busi	ness Ethics: Decision	Making for					
¹ Personal	Integrity an <mark>d Socia</mark> l	Responsibility	, Third edition, I	Mcgraw-Hill.						
2 Madhumi	2 Madhumita Chaterj, (2011), corporate social responsibility, oxford university press.									
3 Harish K	umar, (201 <mark>1) corp</mark>	orate social re	sponsibility: A	Waffle or Way of 1	Life, AITBS					
Publisher	s, India	1	3/							
A Mohapatr	a / Sreejesh ,Case	Studies in Bus	siness Ethics an	<mark>d Co</mark> rporate Governa	nce, Pearson					
⁺ publicatio	on,1e,2012									
5 G. Naga	Raju K. Viyyann	ia Rao , Busi	ness Ethics an	d Corporate Govern	ance, Wiley					
publication	on,2020			88 1						
		S. Martin	18.	1 per						
Related Onlin	ne Contents [MOO	C, SWAYAM	, NPTEL, Web	sites etc.]						
1 Business	Ethics – CEC	SPRIGATE	IL DISLATE							
2 https://ww	ww.canvas.net/brow	/se/santaclarau/	courses/busines	s-ethics-for-real-world	t					
Course Design	ned By: Dr. A. Vim	ala and Dr. S.	Sadhasivam							
Mapping wit	h Programme Out	comes								
COs	PO1	PO2	PO3	PO4	PO5					
CO1	S	S	М	М	М					
CO2	S	S	М	М	Μ					
CO3	S	S	М	М	Μ					
CO4	S	S	М	М	М					
CO5	CO5 S S M M M									
*S-Strong; M	*S-Strong; M-Medium; L-Low									

Cou	Course code 63D		Entrepreneurship Development		L	Т	Р	С			
Core	e		Core 21		6	-	_	6			
Pre-	requisite		Fundamentals of Business setup and Risk	Syllab	us Ve	rsion	2021	-22			
Cou	rse Objec	tives:									
The 1. I 2. 7 3. I 5	 The main objectives of this course are to: 1. Make students familiar about the entrepreneurship development and small business management 2. Train in Entrepreneurship 3. Learn the Entrepreneurship Development, Project management and Institutional support to start new ventures 										
Fvn	Exported Course Outcomes										
On t	On the successful completion of the course, student will be able to:										
1 Understand entrepreneurship and its impact in development							K2				
2 Identify the opportunities available in developing entrepreneurial qualities							K2, K3				
3 Manage projects effectively by understanding its roles and responsibilities							K2, K4				
Δ Know the parameters to assess opportunities and limitations for new business							K2, K3,				
T ideas							K4, K5				
5 Prepare feasible business plan							K2, K3,				
171		IZA II		1	76 6		4, K6)			
<u>KI</u> -	Remembe	er; K 2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 - Ev	aluate;	10 - (reate					
Unit	1 Fund	amentals o	f Entrepreneurship	9//	/	12	Hou	rs			
Mea	ning of	Entrepreneu	urship - characteristics, functions, and ty	pes of	entre	preneu	rshir) -			
Entr	epreneur -	Role of ent	repreneurship in economic development.			L · · ·	. 1				
	-		W Queen and P								
Unit	t:2 Entre	epreneursh	ip Development			12	Hou	rs			
Fact	ors affecti	ng entrepre	neur growth - economic - non-economic. Ent	treprene	urship	o devel	opm	ent			
prog	rammes -	need - obj	ectives - course contents - phases - evaluati	on. Inst	itutio	nal sup	port	to			
entre	epreneurs.										
T T •						10					
Unit	:3 Proje	ect Manage	ment	1		12	Hou	rs			
nrei	ining of pr	oject - conc	epts - categories - project life cycle phases - c	characte	ristics	or a p	rojec	x –			
project manager - role and responsibilities of project manager.											
Unit:4 Project Identification 12 Hours											
Sele	Selection - project formulation – contents of a project report - planning commission guidelines for										
form	formulating a project - specimen of a project report.										

Un	it:5 Fina	nce Feasibility an	d Project Eval	uation		12 Hours				
So	Source of finance for a project - Institutional finance supporting projects - project evaluation -									
obj	objectives - types - methods.									
		-								
Un	it:6 Cont	emporary Issues				2 Hours				
Ca	Case Study, Expert Lectures, Online Seminars - Webinars									
	Total Lecture Hours 62 Hours									
Te	xtbook(s)									
1	S. Choudh	nury, (2017), Proje	ect Management	, McGraw Hill E	Education					
C	Priyanka S	Singh and Supriya	Singh, (2018), 1	Entrepreneurshij	p and Project Manage	ment,				
Z	Thakur Pu	blication Pvt. Ltd	., Chennai.							
Ref	ference Bo	oks	0.001	and the second second						
1	Gupta, C.	B. and Srinivasan	N.P (2014) Entr	epreneurial Dev	<mark>el</mark> opment, Sultan Cha	nd and Sons				
2	Khanka S.S., (2006), Entrepreneurial Development, S Chand publishing.									
3	S. Anil Kumar, (2003) Entrepreneurship Development K.K Gupta for New Age International									
5	PVT limit	ed Chennai.		S CYA	6					
Δ	Robert D.	Hisrich, Michae	P. Peters, et a	l, Entrepreneurs	<mark>ship, M</mark> cGrawhill put	olication,11th				
т	Edition, 2	020.	1 de	100						
5	Vasant De	esai, Entre <mark>preneur</mark>	ship: Developme	ent and Manager	<mark>ment, H</mark> imalaya Publi	shing House,				
č	2015		Contractor							
			Sand	3- 1						
Re	lated Onlin	e Contents [MO	O <mark>C, SWAYAM</mark>	, NPTEL, Web	sites etc.]					
1	Entrepren	eurship Developn	ient – CEC		A BU					
2	Entrepren	eurship: Do your	venture – IIMB							
		1			Ge /					
Co	urse Design	ed By: Dr. A. Vi	nala and Dr. C	. Dhayanand	the second s					
			V SSLILIN	and souther						
Ma	pping with	n Programme Ou	tcomes	1 Platette						
	COs	PO1	PO2	PO3	PO4	PO5				
	CO1	S	S	M	M	M				
	CO2	S	S	М	М	М				
	CO3	S	S	M	М	M				
	CO4	S	S	M	M	M				
	CO5	S	S	М	М	М				
*S-	Strong; M-	Medium; L-Low								

Course code	67V	Project and Viva Voce		L	Т	Р	С		
Major Project		Major Project		-	6	-	6		
Pre-requisite		Knowledge in Core, Research Methods and Analytical Tools	Syllabus	s Vers	sion	2021	-22		
Course Object	tives:								
The main object 1. The student 2. The student 3. The student	ctives of the ts will get of ts will gain ts will gain	is course are to: on-the-job training and experience. knowledge on problem identification and a complete knowledge on the program and	solutions.	e outc	ome.				
Expected Cou	rse Outco	nes:							
On the success:	ful comple	tion of the course, student will be able to:							
1 Initially the students will know how to collect literature.									
2 On the ba data	2 On the basis of problem identification students will frame tool for collecting K3								
3 The student will get practical exposure on the framed objective.									
4 The stude analysis	4 The students will gain knowledge on compiling the collected data by using K4								
5 Through	report writi	ng, the student will get complete knowledg	<mark>e of</mark> the co	ourse.		K5			
K1 - Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyse; K5 -	Evaluate; I	K6- (Create	;			
Toythook(s)	1	and the second s	A	-					
1C.R. Kotha1Delhi: New	ari, "Resea v Age Inter	rch Methodology Methods and Techniques mational publisher, 2004	", Second	Editic	on, Ne	ew			
Reference Boo	ks								
1Ranjit Kur1Publication	nar, Resear ns, 2014	ch Methodology: A Step-by-Step Guide fo	r Beginner	rs, SA	GE				
2 Robert B F	Burns, Intro	oduction to Research Methods, SAGE Publ	ications						
Awarding Ma	rks								
Internal 50: O External 50 : S	bservation ubmitting	report and Review final report, Presentation and Viva Voce							
Course Designe	ed By: Dr.	A. Vimala, Dr. S. Sadhasivam and Dr. C	. Dhayana	and					

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5			
CO1	М	S	М	S	S			
CO2	S	S	S	S	S			
CO3	S	S	S	S	S			
CO4	S	S	S	S	S			
CO5	S	S	S	S	М			
*S-Strong; M-Medium; L-Low								





BHARATHIAR UNIVERSITY: COIMBATORE-641046 DEPARTMENT OF EXTENSION AND CAREER GUIDANCE

B.VOC. BUSINESS PROCESS AND DATA ANALYTICS

The B.Voc. Business Process and Data Analytics is a three years undergraduate programme sanctioned by the UGC and the degree is awarded by Bharathiar University. The B.Voc. Degree is recognized as regular UG degree by State and Central Government.

B.Voc. Business Process and Data Analytics students can find ample job opportunities in IT, BPM, and other industries. Within these sectors, professionals can find job profiles like Customer Care Executive, Data Analyst, Database Administrator, Statistician, Business Analyst, and any other job related to basic administration.

VISSION

• To nurture creative and innovative professionals who can contribute towards the development in the field of business process services and data analytics.

MISSION

- To develop problem solving and analytical competence of the students to enable them to take up eminent and gainful position in the BPM and IT industry.
- To impart professional education and training in the field of business process services, knowledge process service, information technology and data analytics.
- To produce graduates who are socially responsible and capable of engaging in Lifelong learning.