

Coimbatore - 641 046, Tamil Nadu, India

Programme Educational Objectives (PEO)

- PEO 1: Creating strong subject knowledge in Economics to develop and uplift the Society.
- PEO 2: Applying Economic theories and make the students to understand the practical knowledge on present Economic System.
- PEO 3: Creation of continuous improvement in their professional career through lifelong learning appreciating human Values and Ethics.



Programme Outcome (Po) for Under Graduate Degree in Economics

- **PO 1:** Creation of knowledge in fundamentals of Economics, application of Economics with the help of Mathematics, Statistics and Computer Applications is a strong foundation for UG Students.
- **PO 2:**Train the students to understand the concepts and theories in Economics to practical problems solving in the real world.
- **PO 3:**Decision making and evaluate the solutions for useful complex economic issues and train the students to meet the specified needs to resolve complex economic problems.
- **PO** 4:Train the students in Industrial, Agricultural and Service sector economics. This will be helpful for them to get into the concern sector for their Job Oriented goals.
- **PO 5:**Create knowledge and select the issues to adopt the techniques to understand resource allocation and Macro Economic policies in Indian Economy.
- **PO 6:**By way of getting complete knowledge in Economics may helpful for them to commit for the professional Ethics and responsibilities taken by them in their professional Career.
- PO 7:Students of undergraduate in Economics are practiced for Basic knowledge in Economics, Mathematics, Statistics and Accountancy. This type of getting knowledge may helpful to students to clear any kind of basic Competitive Examinations.
- **PO 8:**Knowledge in Economics and creation of domain knowledge will be effectively served to the students to understand the Society, Societal complex problems and for attainment of Comprehensive Solutions.

BHARATHIARUNIVERSITY::COIMBATORE641046

B.A./B.Sc./B.Com./B.C.A.etc., Course Title(CBCS PATTERN)

(For the students admitted from the academic year 2023-2024 and onwards)

				Examina	ation		
Dout	Title of the Course	Hours/	Duration	Max	ximum N	Aarks	Credits
Fart	The of the Course	Week	in Hours	CIA	CEE	Total	Creans
	Semester I						
Ι	Language- I	6	3	25	75	100	4
II	English-I	6	3	25	75	100	4
III	Core Paper I-Micro Economics-1	5	3	25	75	100	4
III	Core Paper II-Agricultural Economics	5	3	25	75	100	4
III	Allied A: Paper I History of India	6	3	25	75	100	4
	From 1600 To 1857Ad/Political						
	Science/Tourism						
IV	Environmental Studies#	2	3	-	50	50	2
	Total	30		125	425	550	22
	Semester II					-	
Ι	Language– II	6	3	25	75	100	4
II	English–II*	4	3	25	25	50	2
	Naan Mudhalvan subject 1: Effective English** (Language Proficiency for Employability)	2		25	25	50	2
	mbridge Course Details pdf	2					
III	Core Paper III-Micro Economics –II	5	3	25	75	100	4
III	Core Paper -IV-History of Economic	5	3	25	75	100	4
III	Allied A : Paper II History Of India From1858 To 1964/Political Science/Demography	6	3	25	75	100	4
IV	Value Education –Human Rights#	2	3	- 1	50	50	2
	Total	30		150	400	550	22
	Semester III	10 91.30	ALC: NO				
Ι	Language-III	5	3	25	75	100	4
II	English–III	5	3	25	75	100	4
III	Core Paper V- Macro Economics-I	5	3	25	75	100	4
III	Core Paper VI- Statistical Methods	5	3	25	75	100	4
III	Allied B: Paper I Political Science	5	3	20	55	75	3
	/Constitutional History of India 1773						
	to1892/Business Management For						
	Economics						
IV	Skill based Subject 1: Financial	3	3	25	25	50	2
	Accounting***						
IV	Tamil# / Advanced Tamil#(OR) Non-	2	3	-	50	50	2
	major elective-I(Yoga for Human Excellence)#/Women's Rights#						
	Total	30		145	430	575	23
	Semester IV	- •			••		-
I	Language-IV	5	3	25	75	100	4
II	English–IV	5	3	25	75	100	4
III	Core Paper VII-Macro Economics-II	5	3	25	75	100	4

Scheme of Examination

III	Core Paper-VIII-Mathematical	5	3	25	75	100	4
	Economics	-					-
	Allied B: Paper II Political Science	4	3	20	55	75	3
III	Constitutional History of India						
	1892to1950/ Introduction to industry 4.0						
IV	Skill Based Subject 2: Trade	2	3	25	25	50	2
	Documentation***						
117	Nam Madhalann Salainat 2.	2		25	25	50	2
1 V	Naan Muunaivan Subject 2: Office Fundementels**	2	-	23	23	50	2
	(Digital Skill for Employability)						
	(Digital Skill for Employability)						
	nttp://kb.naanmuunaivan.m/special.rn						
IV	Tamil#/Advanced Tamil# (OR) Non-	2	3	_	50	50	2
1 V	major elective-II(General Awareness#)	2	5		20	20	2
	Total	30		170	455	625	25
	Somostor V	50		170	400	025	23
ш	Care Denor IV Monotory Economics	6	2	25	75	100	1
	Core Paper IX-Monetary Economics	6	3	25	75	100	4
111	Core Paper X- Indian Economic	0	3	23	15	100	4
TIT	Development and Policies	6	2	25	75	100	1
	Core Paper XI- International Economics	5	3	23	75	100	4
111	Core Paper XII-–Entrepreneurship	5	3	23	15	100	4
TT		5	2	25	75	100	1
		3	3	23	73	100	4
IV	Skill based Subject 3:Business	2	3	25	25	50	2
	Total	30	5	150	<u> </u>	550	2
	Somostor VI	50		150	400	550	
ш	Care Danan VIII Eigaal East anti-	5	2	25	75	100	1
	Core Paper XIII-Fiscal Economics	5	3	25	75	100	4
	Core Paper XVI-Industrial Economics	5	3	25	15	100	4
111	Core Paper XV-Environmental	4	3	20	55	/5	3
TT		1	2	20	55	75	2
		4	3	20	55	75	3
	Elective III Care Denor VVI (Dreatical) Computer	4	3	20	35	75	2
IV	Application - Tally	4	3	30	43	15	3
IV	Skill based Subject 4:Soft Skills for	2	3	25	25	50	2
1 1	Business***	-	5	20	20	20	-
IV	Naan Mudhalvan Subject 3: Fintech courses						
	[Digital banking and Audit Essentials for						
	Employability]						
	Digital Marketing /Capital markets/	2	_	25	25	50	2
	Operational Logistics – Theory &	2		23	23	50	2
	Project/Assignment [^]						
	nttp://kb.naannuunaivan.m/nnages/u/u1/D1 gital Marketing ndf						
	http://kb.naanmudhalvan.in/images/1/16/DK N						
	SE.pdf						
	http://kb.naanmudhalvan.in/images/3/3e/Op_L						
	og_TNAPEX.pdf						
						- ^	
V	Institutional Training/Project			50	-	50	2
	work /field work /Related to						
	Economics/ Extension						
	Activities @	20		0 40	44.0		•
	Total	30		240	410	650	26
1	Grand Total	180		980	2520	3500	140

Note

@ No University Examinations. Only Continuous Internal Assessment (CIA)

- # No Continuous Internal Assessment (CIA). Only University Examinations.
- * English II- University semester examination will be conducted for 50 marks (As per existing pattern of Examination) and it will be converted for 25 marks.
- ** Naan Mudhalvan Course: CEE will be assessed by Industry for 25 marks and CIA will be done by the course teacher
- ***Skill Based Subjects: University semester examination will be conducted for 50 marks and it will be converted for 25 marks.

List	of Eleo	ctive papers (Colleges can choose any one of the paper as electives)
Elective –I	Α	ECONOMICS FOR INVESTORS
	B	AUDITING
	С	BASIC ECONOMETRICS
Elective-II	Α	MODERN BANKI <mark>NG AND IN</mark> SURANCE
	B	HEALTH ECONOMICS
	С	JOURNALISM
Elective-III	Α	RURAL ECONOMICS
	B	ACCOUNTANCY FOR ECONOMICS
	С	FINANCIAL MARKETS





BHARATHIAR UNIVERSITY: COIMBATORE 641 046 B A Economics Curriculum (University Department)

B.A Economics Curriculum (University Department) (For the students admitted during the academic year 2023 – 24 onwards)

Co	urse code		MICRO ECONOMICS-I	L	Р	С		
Cor	e/Elective/S	upportive	CORE PAPER – I	5			4	
Pre	-requisite		The course attempts to equip the students with the basic tools and methods of economic analysis.	Sylla Versi	bus on			
Co	urse Objec	tives:						
The	e main objec	ctives of thi	s course are:					
I	Understan consumer	d the conce and a produ	pts, methodology and the behaviour of the economic icer.	agents	as a			
2	Enlighten	the students	s about the economic objectives.					
3	To understand the fundamental concepts and theories of Microeconomics.							
Fvi	nantad Can	rea Autaar	nos:					
On	the success	ful complet	ion of the course student will be able:					
1	To impro	we the know	vledge of students on the basics of Micro Economics			K1		
1			wiedge of students on the basics of Micro Economics					
2	. To analy	$\frac{1}{1}$	Since relationship between the variables.	. 1	,	K2	,	
3	To enhan	ice the skill	s of students in the measurement of variables and rela	itionshi	ıp.	K5	,	
4	To impro	ve the attitu	ide of students towards economic laws.			K4	r	
5	To gener planning	ate an inter and forecas	est in the application of economics for business decis sting.	ion,		K)	
K1	- Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; 1	K6 – C	reate			
Uni	it:1		Definitions and Basic concepts		15	ho	urs	
app	Definition roach - Induction roach - Induction	on of Econor ctive and dec	nics - Adam Smith - Marshall - Robbins - Samuelson - M luctive methods - positive vs Normative study - static and	icro and dynami	l Mac	ro lysis	-	
Leo		- partial vs C						
Uni	it:2		Basic laws of Economics		15	ho	urs	
The	eory of cons	umer behav	viour - Cardinal Utility - Ordinal Utility - Law of dim	inishin	g Ma	rgin	al	
Uti	lity - Law o	f Equi Mar	ginal Utility - Law of Demand - Indifference curve an	nalysis	- Fea	tures	of	
ind	ifference cu	rve - Consı	mer's Equilibrium - Income, price and substitution e	fects.				
Uni	it:3		Elasticity of Demand		14	ho	urs	
]	Elasticity of	demand - Ty	pes and Degrees - Measurement - Factors influencing elast	sticity o	f dem	and -	-	
use	es - consume	r's surplus						
Uni	it:4		Factors of production		14	ho	urs	
Fac	tors of Proc	luction - La	nd, Labour, Capital and Organization - Laws of retur	ns - La	w of			
var	iable propor	tions.						
Uni	it:5		Cost and revenue concepts		15	ho	urs	
Cos	st and Reve	nue - conce	epts of cost and revenue - Average, Marginal and To	tal cos	t - Na	ature	of	
sho	rt run and	long run av	verage cost curves - Revenue; Total Revenue - Imp	ortance	e of 1	even	nue	

cur	ves						
Uni	it: 6	Contemporary Issues	2 hours				
		Expert lectures, online and offline seminars – Webinars					
		Total Lecture hours	75 –hours				
Tex	xt Book(s)						
1.	M.L. Jhing	gan, Micro Economic Theory, Vrinda Publications Ltd., New D	elhi, 2002.				
2.	HL AHUJ	A (2018) Advanced Economic Theory S.Chand & Co					
Ref	ference Boo	oks					
1.	Dr. S. San	karan, Micro Economics, Margham Publications, Chennai, 200	0.				
2.	Misra and	Puri, Advanced Micro Economics Himalaya Publishing House,	Mumbai,				
	1996.						
3.	V. Lokana	than, Principles of Economics, Economic Analysis					
	S. Chand	& Co., New Delh <mark>i 2003.</mark>					

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	Μ	Μ	Μ	M	L	L	S	S
CO2	S	S	Μ	S	Μ	S	S	Μ
CO3	S	S	Μ	S	M	Μ	S	S
CO4	S	S	Μ	L	M	L	Μ	Μ
CO5	Μ	S	M	М	S	S	S	S

Cou	irse code		AGRICULTURAL ECONOMICS	L	Р	С	
Cor	e/Elective/S	upportive	CORE PAPER – II	5			4
Pre	-requisite		This subject is mainly educating the students on Indian agriculture and Micro Economics concepts	Sylla Versi	bus on		
Cou	irse Object	tives:					
The	main objec	tives of thi	s course are:				
1	Make the s	students to	understand the Indian Agriculture				
2 To understand the role of Institutional agencies for Agricultural credit							
3	To know a	bout agricu	liture policy in India				
4	To equip the economy a	he students and Indian e	with the knowledge regarding the relationship betwee economy	een Agr	icultu	ral	
Exp	ected Cou	rse Outcor	nes:				
On	the success	ful complet	ion of the course, student will be able:				
1	To impro	ve the know	vledge of students on the status of agricultural sector	r .		K1	
2	To encou	rage the sk	ills of students in the measurement of productivity.			K2	
3	To stimu	late the stud	lents in the applications of Agricultural economics in	n pricing	2.	K3	
4	To engag	e the stude	nts in the analysis of debt crisis in the farm sector.	- F	5-	K4	
5	To prepar	re on proac	tive attitude towards the internal and external change	es in the		K6	
K1	- Remembe	er: K2 - Un	derstand: K3 - Apply: K4 - Analyze: K5 - Evaluate:	K6 – C	reate		
Uni	t:1	., 112 011	Agriculture and Economic Development		16	ho	urs
Def Agr indu	inition and iculture in astry-Agrica	scope of Ag Economic o ultural deve	griculture Economics – Agriculture in a growing Eco levelopment of a Nation. Interdependence between a clopment under the 5 year plans.	onomy - gricultu	- Role re an	e of d	
Uni	t:2		Productivity Productivity		16	ho	urs
Proo Patt Lab sma	ductivity in ern – New our and Wa ll and marg	Indian Agr technology ages – wom ginal farmer	iculture, Measuring Agriculture Productivity, Farm and its role in enhancing productivity of agriculture en in Agriculture, wage discrimination. Green Revo s.	size, Cr - Agric lution- l	oppin ultura Proble	g al ems	of
Uni	t·3		Agricultural Price Policy		15	ho	urs
Size	e of land ho	ldings- Ten	Agricultural Free Forms – Supply of Inputs	Irrigati	$\frac{13}{0}$ P	owe	r
See	d and Fertil cy, Food se	izer – Prici curity in In	ng of Inputs — Agricultural price policy in India – o dia, PDS– Crop Insurance.	bjective	es of p	orice	.,
1	•		· · · · · ·				
Uni	t:4		Agricultural Credit		15	ho	urs
Agr Nor Con	icultural Ca I-Institutior	redit in Inc nal credit- anks, and R	lia - Agricultural Indebtedness – causes – remedie Institutional agencies supplying Agricultural cr egional Rural Banks, NABARD.	edit: C	tutio o-ope	nal a crativ	and ves,
T T •	4.5		A 14 1 B. # . 1		12	1	
Uni	US	antrata D-f	Agricultural Marketing	00 077	<u>15</u>	ho	urs
Agr mar	keting and	arkets- Def regulated n	narkets - New Agricultural policy.	co- ope	rative	2	
			Total Lecture hours		75	-ho	urs

Tex	xt Book(s)
1.	Ruddar Dutt and K.P.M Sundaram, 2022, New Edition, Indian Economy, S.Chand & Co Ltd,
	New Delhi.
2.	Dhingra - Agricultural Economy of India, Sultan Chand, New Delhi, 1982.
3.	.K. Gupta, Agricultural Economics, Vrinda Publication (P) Ltd, New Delhi.
Ref	ference Books
1	S.K.Mishra & V.K.Puri, 2011, Indian Economy, Himalaya Publishing House, Mumbai.
2	A.N. Agarwal, 2019, Indian Economy Problems of Development and Planning.
3	C.S.Prasad, 2006, Sixty Years of Indian Agriculture.
4	P.Mala, 2014, Agricultural Economics, Dominant Publishers, New Delhi.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	Μ	S	Μ	M	Μ	L	S	L
CO2	S	S	S	S	S	S	S	S
CO3	Μ	S	S	М	S	S	S	Μ
CO4	Μ	S	S	S	S	S	S	S
CO5	Μ	S	S	Μ	S	S	S	S



Cou	irse code		TOURISM	L	Т	Р	С
Cor	e/Elective/S	upportive	ALLIED PAPER – I	6			4
Pre	-requisite		Development of Tourism in India and Economic concepts	Sylla Versi	bus on	1	
Cou	irse Object	tives:					
The	main objec	ctives of thi	s course are:				
1	Make the s	students aw	are of the nature and forms of tourism.				
2	Expose the computer t	e students re echnology	egarding the possibilities of employment potential and in tourism	the in	nporta	ance	of
Fwr	antad Con	man Autoon	2001				
Exp On i	the success	ful complet	ion of the course student will be able:				
1	To improv	$\frac{1}{1}$ the knowl	edge of students on the need and types of tourism			V 1	
1	To make		itude en Tourism				
2							r
3	To analyz	e the tourish	a demand and its measurement			K3	
4	To enhance	the applic	ation of economic ideas for tourism development	1		K4	
5	To improv technique	ve the skill o s.	f the students in using modern communication methods and	1		K6)
K1	- Remembe	er; K2 - Un	ders <mark>tand; K3</mark> - Apply; K4 - Analyze; K5 - Evaluate; K	16 - C1	reate		
T T •					10		
Uni	t:l		Tourism Concepts	<u> </u>	18	ho	urs
	Tourism co	ncepts - M	otivation for Iravel - Barriers to Iravel - forms of to	ourism	1 - 1ra	avel	
	industry ne	twork-Iou	rism and Tourism product-Meaning & Type - Touri	sm Pla	annin	g in	
	India - Gov Pleasure &	Religious	Fravel.	evelop	oment	-	
		102	the second second	7			
Uni	t:2	1 3	Types of Tourism	<u> </u>	18	ho	urs
com	Mass Touri	sm, Individ tourism - E	lual Tourism - paid holidays - Growth of modern Tour Elements of Tourism - Geographical resources for tour	ism - ism - I	The b Dome	asic stic	
lou	rısm.						
Uni	t•3		Travel & Tourism		19	ho	urs
Tray	vel Motivat	ion - evolut	tion of demand - Growth factor - Physical motivators	Real	and	по	uis
Rec	reation mot	tivation - H	ealth motivators - ethnic & family motivators - Busine	ess mo	tivati	on.	
Trav	vel & Touri	sm statistic	s - measurement of tourism - merits and demerits of to	ourism	1.		
II	+• <i>1</i>		Tourism and Economics		10	ha	
Eas	l:4	anciona of	Tourism Economic significance Tourism in		19	nlia	urs "
Dev	relonment	of infrastr	ictural development. Employment generation. mu	ltinlie	mun r - 1	our	ism
reta	iler - Trave	l agency or	peration - scope of work of travel agency - the Tour op	eratio	n - H	andl	ing
a cli	ient.	- 180110 J op					8
Uni	t:5		Communication		16	ho	urs
Rol	e of Comm	unication in	n travel - modern mass techniques - Computer Techn	ology	in To	uris	m -
Rail	lways, Hote	els, Reserva	ation, Airlines, Videotext system. Tourism in India	- India	a as a	tou	rist
para	ause - Grov	vin of touri	sin in india - Kole of 11DC for the growth towards to	urism	indus	try.	

	Total Lecture hours 90hours
Text	z Book(s)
1	A.K. Bhatia -Tourism Development - Principles and Practices, Sterling Publications Pvt. Ltd., New Delhi 1995
2	Sampad Kumar Swain & Jitendra Mohan Mishra Tourism: Principles and Practices
Refe	erence Books
1.	Virender Kaul -Tourism and the Economy, Har- Anand Publications, New Delhi, 1994,
2.	Alister Mathieson & Geoffery Wall-Tourism, Economic, Physical, Social Impacts Longman Inc, New York, 1982.
3.	A.K. Bhatia-International Tourism - Fundamental and Practices, Sterling Publishers Pvt. Ltd., New Delhi, 1994
4.	Jagmohan Negi-Travel Agency & Tour operation Concepts and Principles, Kanishka Publishers, New Delhi, 1997.
5.	Pran Nath Sate & Sushma Seth Bhat -An Introduction to Travel and Tourism Sterling Publications Pvt. Ltd., New Delhi 1977.
6	R.N. Kaul-Dynamics of Tourism Sterling Publications Pvt. Ltd., New Delhi, 1985.
7.	Pran Nath Seth- Successful Tourism Management, Sterling Publications Pvt. Ltd., New Delhi, 1987.
8.	Gulab Nabi - Socio Economic Impact of Tourism, Pioneer Publishers, Jaipur, 2000.
9.	Mukesh Ranga - Tou <mark>rism Pot</mark> ential in India, Abhijeet Publications, New Delhi, 2003

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COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	М	S	М	М	S	S	S	S
CO2	M	M	S	S	М	S	S	L
CO3	S	М	S	S	М	М	S	М
CO4	S	S	S	М	S	M	S	М
CO5	S	S	S	М	S	S	S	S

ENCATE TO PLATA



Сог	ırse code		MICRO ECONOMICS-II	L	Т	Р	С		
Cor	e/Elective/S	upportive	CORE PAPER III	5			4		
Pr	e-requisite		The course aims at equipping the students with the tools of economic analysis to deal with different types of market.	Sylla Versi	bus on				
Cou The	irse Objec t main object	t ives: ctives of thi	s course are:						
1	Imparting	knowledge	about the behaviour of economic agents namely prod	ucer ai	nd fao	ctor			
2	Understan	ding and an	alysing the theories of different factors and determini	ng the	ir prio	ces.			
Exp	oected Cou	rse Outcon	nes:						
Or	n the succes	sful comple	etion of the course, student will be able:						
1	To impro	ve the know	vledge of students on the markets and competition.	•		K	.1		
2	To analy	ze the busir	less decision process.			K	2		
3	To impro	ve the skill	of students in the findings of market equilibrium			K	3		
4	4 To motivate the students improving their attitude towards the logics of factor pricing								
5	To enhan	ce the appl	icability of ideas and concepts			K	.6		
K1	K1 - Remember: K2 - Understand: K3 - Apply: K4 - Analyze: K5 - Evaluate: K6 – Create								
			The second s	1					
Ur	nit:1		Market Structure		15	hou	rs		
and	Market Output De	Structure - termination	Meaning - Types - Perfect Competition - Time Eleme - Equilibrium of the firm and industry in short and lo	nt The ng run	eory -	Pric	e		
TT	•			74	1.4				
Ur	nit:2		Monopoly	a of M	14	hou	rs		
Pric	te and Outp	ut determin	ation under Monopoly and discriminating monopoly.	S OT IV	ιοπομ	ory -	-		
Ur	nit.3		Monopolistic competition and Oligopoly		15	hou	re		
Fea	tures of Mo	nonolistic (Competition - Price and output determination under	monor	nolist	ic	15		
com	npetition - S	Selling cost	- wastes of monopolistic competition - OligopolyF	eature	es an	d typ	es		
of o	ligopoly - P	rice and ou	tput determination under oligopoly.						
Ur	nit:4		Theories of Factor pricing		14	hou	rs		
Th - V	e theories o Vages - Rea	of factor pri	cing - Marginal Productivity Theory - Rent - Ricardia	n Theo	ory of	f Rer	nt		
Ur	nit:5		Interest and Profit		15	hou	rs		
Int Int	terest - Gros terest - Prof	ss Interest a it - Gross a	nd Net Interest - Classical - Neo - Classical and Keyn nd Net Profit - Theories of Profit.	esian '	Theor	ry of			
Uni	it: 6		Contemporary Issues			2 ho	urs		
		Expert lec	tures, online and offline seminars – Webinars						
			Total Lecture hours		75	ho	urs		

Tex	xt Book(s)							
1	M.L. Jhingan - Micro Economic Theory, Vrinda Publications Ltd., New Delhi 2002.							
2	H.L. Ahuja (2019) - Principles of Micro Economics, A new look at							
	Economic Theory S. Chand & Company Ltd., New Delhi							
Re	eference Books							
1	Dr. S. Sankaran- Micro Economics, Margham Publications, Madras 1990							
2	Misra and Puri- Advanced Micro Economics Himalaya Publishing House,							
	Mumbai 1996.							
3	Loganathan.V - Principles of Economics, Economic Analysis, S. Chand & Co, New							
	Delhi, 2003.							
4	Watson - Price Theory and its uses							
5	Stonier and Hague A textbook of Economic Theory							
5	Stomer and Hague - A textbook of Economic Theory.							

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	Μ	Μ	L	M	L	Μ	Μ
CO2	Μ	S	Μ	S	M	M	L	Μ
CO3	S	S	S	M	Μ	Μ	S	S
CO4	M	M	Μ	L	L	Μ	S	Μ
CO5	S	Μ	S	S	M	S	S	Μ

Cou	rse code		HISTORY OF ECONOMIC DOCTRINE	L	Т	Р	С			
Cor	e/Elective/S	upportive	CORE PAPER IV	5			4			
Pro	e-requisite	;	The core paper deals with the basic knowledge and ideas of economists and philosophers views.	Sylla Versi	bus ion					
Cou The	rse Object main object	tives: ctives of thi	s course are:							
1	To underst	tand the bas	ic ideas of different economist and philosophers conce	ept.						
2	To familia various the	rize the stu- oughts.	dents to learn the origin and development of economic	ideas	from	l				
Fvn	acted Con	man Autoor	1001							
On	the succes	sful comple	etion of the course, student will be able:							
1	1 To create knowledge on the evaluation of economic ideas. K1									
2	To increa	use a positiv	e attitude towards economic ideas.			K	2			
3	To make	the analytic	cal interest in the Marxian Economics.			K	3			
4	To under	stand the at	oplication of economic theories.			K	4			
5	To enhan	ice the appl	icability of ideas and concepts			K	5			
K1	- Rememb	ber: K2 - U	nderstand: K3 - Apply: K4 - Analyze: K5 - Evaluate:	K6 - (Create	;				
		,								
Un	it:1		Ancient Economic Thought		14	hou	rs			
Kau	Introdu tilya's Arth	ction – Anc nasastra – T	<mark>ie</mark> nt Economic Thought – The Greek. Plato – Aristotle hiruvalluvar.	– The	e Ron	nan -	-			
Un	it:2		Medieval Economic Thought	1	14	hou	rs			
Me	edieval Eco	nomic Tho	ught – St. Thomas Aquinas- Mercantilism- Thomas M	un- Pl	hysio	crate				
Cla	assical Tho	ughts. 🛛 👌			5					
TT	:4.2		Mandarakilaanka		15	1				
	III:3	Morrison nl	Marxian philosophy	Star	15 alo	nou	rs			
r The Soc	eory of Va cialism.	lue and Di	stribution - Theory of Surplus Value- Marxian Pred	iction	- Sc	ienti	fic			
T.	-4. 1		Economicidaes		15	har				
	fred Marsh	al- I R Clor	ECONOMIC INCAS	lrac	13 Parot	<u>nou</u>	13			
Th	eir theories	and Econo	mic ideas.	11 as —	1 arci	0 -				
.	•	[1 -	-				
Un	it:5		Recent Economic Thought	111	15	hou	rs			
Ra	o – Amarty	a Sen.	Thought – Dada Bai Naoroji - M.K.Gandhi - B.K.Am	веака	r - V	KK V				
T T *						<u>.</u> .				
Uni	t: 6	F (1	Contemporary Issues			2 ho	urs			
		Expert lec	tures, online and offline seminars – Webinars							
			Total Lecture hours		75 -	-hou	rs			
Te	xt Book(s)	1 0010		m 1	T 1'	•				
1	V. Logana Delhi	than,2018 -	- A History Economic Thought, S. hand and Co. Ltd.,	Tenth	Edit	ion,	New			

2	B.N. Ganguli, 1977- Indian Economic Thought, McGraw Hill Publication, Co. Ltd.
Re	eference Books
1	Alexander Gray- Development of Economic Doctorines.
2	Gide and Rist- Economic Thought
3	Meenakshi and others- A History of Economic Doctorines.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	Μ	Μ	L	L	S
CO2	S	S	Μ	L	L	Μ	L	Μ
CO3	Μ	Μ	S	Μ	S	L	L	S
CO4	S	S	Μ	Μ	Μ	• L	L	Μ
CO5	S	S	S	Μ	S	Μ	L	S



Cou	irse code		DEMOGRAPHY	L	Т	Р	С		
Cor	e/Elective/S	upportive	ALLIED PAPER – II	6			4		
Pre	-requisite		This paper deals with concepts like Population Trends, migration and urbanization and population policy in India	Sylla Versi	bus on				
Cou	rse Object	tives:							
1 he	main object	ctives of thi	s course are:						
2	To know a	bout the re-	asons for migration and trend of population in India						
3	To underst	tand the por	pulation policy in India						
4	To equip t	he students	with the knowledge regarding the relationship betwee	n Den	logra	phy			
-	and Econo	mic Develo	opment.			PJ			
Exp	ected Cou	rse Outcon	nes:						
On	the success	ful complet	ion of the course, student will be able:			17.1			
1	To impro	ove the know	wledge of students on the growth of population in India	ı.		KI			
2	To encou	rage the stu	idents to know about the Population explosion.			K2	2		
3	Construc	t the knowl	edge of Fertility, Nuptiality and Mortality.			K3	5		
4	To engag	e the stude	nts in the analysis of migration.			K4	ŀ		
5	To prepar	re on proac	tive attitude towards the population policy			K6)		
K1	- Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	<u>6 - C</u> 1	reate				
T T •	. 1			1	10				
Uni		1 Dervelann	Population and Development		19	no no	urs		
Pop	uth and the	i Developn	and scope of demography; compone	disti	pop	ulati	on nd		
SOUT	res of popu	ulation data	: Theories of population – Malthus Optimum theory of	f non	ulatio	n a	nu		
thec	ory of demo	graphic tra	nsition – Population and development.	r pop	ulullo	, ,			
	5	<u>8 1</u>							
Uni	t:2		Population Trends		19	ho	urs		
Pop	ulation tren	ids in the tw	ventieth century; Population explosion –Determinants	of age	and	sex			
stru	cture; Dem	ographic ef	fects of sex and age structure, economic and social imp	plicati	ons;	Age			
pyra	imids and p	projections.	subcite to pusitate						
Uni	t:3		Fertility, Nuptiality and Mortality		17	ho	urs		
Fert	ility, Nupti	ality and M	ortality-Importance of study of fertility – Factors affect	ting f	ertili	y –	10		
Soc	io-economi	c factors. N	Suptiality – Concept and analysis of marital status, sing	gle me	an ag	ge at			
mar	riage. Mort	ality – Dea	th rates, crude and age-specific; Mortality at birth and	infant	mort	ality	7		
rate									
Uni	t:4		Migration and Urbanization		19	ho	urs		
Mig	ration and	Urbanizatic	on-Concept and types – Temporary, internal and intern	ationa	1:	no	u 1 5		
Inte	rnational m	igration –It	s effect on population growth and pattern; Factors affe	ecting	migr	atior	1;		
Urb	Urbanization – Growth and distribution of rural-urban population in developed and developing								
cour	ntries. Urba	inization in	India.						
II	+.5		Dopulation Doligy		14	ha	11 MC		
Pop	ulation Pol	icy in India	-Evolution of population policy in India – National po	nulati	01 00 00		urs		
тор	Population Policy in India-Evolution of population policy in India – National population policy								

2000-The shift in policy from population control to family welfare, to women empowerment; Family planning strategies and their outcomes..

		Total Lecture hours	90hours				
Tex	xt Book(s)						
1	M.L. Jhingan ,B.K. Bhatt and J.N. Desai (Reprint2019), 3rd Edition, Vrinda Publication(P)Ltd. New Delhi						
Ref	erence Boo	oks					
1.	Agarwala,	S. N. (1972), India's Population Problem, Tata McGraw Hill C	o., Bombay.				
2.	Bose, A. (1996), India's Basic Demographic Statistics, B. R. Publishing C	Corporation, New				
	Delhi.						
3.	Bogue, D.	J. (1971), Principles of Demography, John Wiley, New York.					
4.	Choubey,	P. K. (2000), Population Policy in India, Kanishka Publications	, New Delhi.				
5.	Srinivasar	, K. (1998), Basic Demographic Techniques and Applications,	Sage, New Delhi.				
6.	Gulati, S.	C. (1988), Fertility in India: An Econometric Study of a Metrop	oolis, Sage, New				
	Delhi.						

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	M	S	S	S	S
CO2	Μ	M	S	S	M	S	M	М
CO3	S	Μ	S	L	M	M	S	М
CO4	М	S	S	L	S	S	S	L
CO5	S	S	S	М	S	M	S	М
*S Strong	r M Medi	um I I ou	T			118	7	



Cou	irse code		MACRO ECONOMICS-I	L	Т	Р	С			
Cor	e/Elective/S	Supportive	CORE PAPER - V	5			4			
Pre	-requisite		National income, theory of employment and consumption, saving and investment concepts	Sylla Versi	bus ion					
Cou The	rse Object main object	tives: ctives of thi	s course are:							
1	It helps the	e students to	o know about the basic concepts of Macro Economics							
2	It also help	os the stude	nts to apply macro principles to solve Macro Econom	ic prol	olems					
3	To Provide	e a strong fo	oundation for the students to clarify the ideas of macro	econ	omics	5				
Fvn	acted Cou	rsa Autoor	nos•							
On the successful completion of the course student will be able:										
1			ion of the course, student will be able.			V1				
1	Understa between	nd the evolution in the evolution of the	ution of Macro Economics and also know the differen nacro economics.	ce						
2	Examine	the various	concents of National income Accounting and issues t	elated	to	к2	1			
4	measurer	nent of Nat	ional income, and also develop an environmental cond	ern in	1	1112				
2	Comproh	activities	resident theory of output, amployment and income and			V2				
3	consump	tion functio	n.			КЗ				
4	Apply the knowledge to understand the Consumption function and theories of K4 consumption function.									
5	5 Gain the knowledge about various concepts of investment, determinants of K6 investment, role of MEC									
K1	- Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	(6 - C	reate					
				1						
Uni	t:1	10 2	Macro Economics		15	ho	urs			
Nati	ure and Sco	pe of Macr	o Ec <mark>onomics– Origin and growth of Mac</mark> ro Economic	s-Imp	ortan	ce -				
Lim	itations – I	Difference b	between Micro Economics and Macro Economics - Cir	rcular	Flow	of				
Inco	ome in vario	ous sector.								
		Correct 2								
Uni	t:2		National Income		15	ho	urs			
Nati	onal Incon	ne: Meaning	g-Definition-Concepts and their interrelationship-met	hods c	of mea	asuri	ng			
Nati	onal Incon	ne- Difficul	ties in the computation of National Income-Importanc	e of N	ation	al				
Inco	ome. Social	Accountin	g – Importance and difficulties of Social Accounting.							
Uni	t:3		Employment Theory		15	ho	urs			
Emp	oloyment: (Classical the	eory of employment-Keynesian Theory of Employment	nt-Say	's La	w of				
mar	ket -Effecti	ve demand	-Determinants of effective demand							
Uni	t:4		Consumption Function		15	ho	urs			
Con	sumption	function:	Meaning -Properties -Keynes Psychological law	of C	onsun	nptic	on-			
Dete	erminants o	of the consu	umption function- Theories of the consumption funct	ion: T	he Al	osolı	ıte			
Inco	ome Hypotł	nesis – Rela	tive Income Hypothesis – The Permanent Income hyp	othes	is – L	ife				
Cyc	le Hypothe	sis.								
		r	~							
Uni	t:5	• • • •	Capital and Investment	• •	15	ho	urs			
Mea	Meaning of Capital and Investment: Types-Determinants of the Investment-Marginal Efficiency									

of Capital –Marginal efficiency of investment- Meaning of saving function – Determinants of Savings -Average Propensity to Save and Marginal Propensity to Save.

		Total Lecture hours	75hours						
Tex	kt Book(s)								
1	M.L.Jhinghan - Macro Economic Theory, Virnda Publications(P), New Delhi								
2	Sankaran	S Macro Economics(2000), Margham Publications, Chennai							
Ref	ference Boo	oks							
1.	Ahuja H.L - Macro Economic Theory and Policy (2000),-Advanced Analysis, S.Chand& Company Ltd, New Delhi.								
2.	VaishM.	C – Macro Economic Theory(2000), Wiley Eastern Limited, New	Delhi.						
3.	Gupta G.S	Macro Economics", 3 rd Edition, Tata McGraw-Hill Publishing	g Company Ltd.,						
	New Delh	i.(2008)							
4.	SethM.L	 Macro Economics", Lakhsmi Narain Agarwal Publishers, Agra 							

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	M	S	S	М	S
CO2	S	Μ	S	S	M	S	S	S
CO3	S	Μ	S	S	М	L	S	S
CO4	S	S	М	М	S	M	S	М
CO5	S	S	S	М	S	M	S	L

Сог	ırse code		STATISTICAL METHODS	L	Т	Р	С	
Core	e/Elective/Su	upportive	CORE PAPER –VI	5			4	
Pro	e-requisite		Essential Concepts of Statistics	Sylla Versi	bus ion			
Cou The	rse Object main objec	ives: tives of this	course are:	-				
1	To enable	the students	s to acquire knowledge on basic concepts of statistical	methe	ods re	leva	nt	
	to econom	ic problems	ан со та З.					
2	To provide methods.	e the studen	ts with the theoretical and practical knowledge to do a	pplies	s stati	stica	1	
Exp	ected Cour	se Outcom	les:					
On	the success	sful comple	tion of the course, student will be able:					
1	To get kr	nowledge of	f method of collecting data.			K	.1	
2	2 To understand the skill of draw the various diagram and graphical representation. K2							
3	To impro	ve the anal	ytical skill of measures of Central Tendency.			K	.3	
4	To analy	se the Corr	ela <mark>tion and</mark> Regression.			K	.4	
5 To acquire the knowledge on index numbers. K								
K1	- Rememb	er; K2 - Un	derstand; K3 - Apply; K4 - Analyze; K5 – Evaluate					
Un	it·1		Sources of Data		13_	hou	rs	
Intro of d Met	oduction - N ata - Primar hods of San	Vature and Second Secon	Scope of statistics - Uses and Limitations of Statistics - ndary Data - Collection of Data - Methods of collectin atistical Software in Data analysis.	- Sour g Prin	rces nary]	Data	-	
∐n	it·2		Frequency Distribution		15	hou	rs	
Clas data	sification and - Importance	d Tabulation e - types - Pi	of data - Frequency Distribution - Diagrammatic and Grap e diagram - Line graph - Histogram- Frequency curve - Fre	hic rej quenc	presen y Poly	tatio gon.	n of	
Un	it:3		Measures of Central Tendency		15—	hou	rs	
Mea - Qu - Sk	usures of Ce artile Rang ewness - Ku	ntral Tende e - Mean D urtosis - Mo	ency: Mean, Median and Mode - Measures of Dispersiveviation - Standard Deviation - Co-efficient of variation	on - R on - Lo	ange orenz	- Int Cur	er ve	
Un	it:4		Correlation and Regression		15—	hou	rs	
Corr effic	elation: Nient of corre	Ieaning - lation - Ranl	Types - Methods : Scatter Diagram - Karl correlation - Regression lines - Least Square Method.	Pea	rson's	C	'o-	
.	•		· · · · ·		1 -			
	It:5	Definition	Index Numbers	o I.: 1	<u>15</u>	hou	rs	
Inde Test	x numbers : s for ideal i	ndex number	- Simple and weighted index Numbers - Consumer Pricer - limitations of index numbers - Time series Analysis	z inde	x Nur	nber ents	-	
Mea	surement of	Trend Metho	ods- Measurement of seasonal variations - Methods.		mpon	-1103		
Un	it:6		Contemporary Issues		2 –	hou	rs	
Exp	ert Lectures	s, online and	d offline seminars – webinars					

		Total Lecture hours	75 –hours							
Te	xt Book(s)									
1	S.P. Gupta	- Statistical Methods, Sultan Chand & Sons., New Delhi 1991.								
2	R.S.N. Pill	ai & Mrs.Bagavathi - Statistics S. Chand & Company Ltd., New Delh	i 1997.							
Re	ference Bo	oks								
1	Sivathanu Bombay	Sivathanupillai - Economics and Business Statistics – Progressive Corporation Pvt. Ltd., Bombay 1982.								
2	Elhance –	Statistics								
3	Taro Yası	meen – Statistics								
NC sub	NOTE : Question Papers must contain problems to the extent of 50% of the marks allotted to the subject.									

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	М	М	S	М	S	S	S	S
CO2	S	S	S	S	S	S	M	S
CO3	М	S	S	M	M	М	S	М
CO4	S	S	S	M	M	S	M	М
CO5	М	М	L	S	S	M	L	L

Core/Elective/Supportive ALLIED PAPER III 5 3 Pre-requisite Imparting Knowledge of Business Syllabus Course Objectives: The main objectives of this course are: Imparting Yersion 1 To Understand the principles of management. To Develop the skills of decision making, organizing and management of a business organization 2 To Develop the skills of decision making, organizing and management of a business organization K1 2 To acquire skill of various management planning. K2 3 To acquire skill of various management planning. K3 4 To acquire skill of various management planning. K3 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate Unit:1 Functions of Management Unit:1 Functions of Management - Management an Art - Science and Profession - Management - Planning - Tools of Planning - Objectives of an Organisation - Concept - Contribution of F.W. Taylor - Techniques of Scientific Management - Planning - Management - Management - Management - Planning - Objectives of an Organisation - Concept - Features - Hierarchy of Objectives - M	Cou	ırse code		BUSIN	ESS MANAC ECONOM	GEMEN IICS	NT FOR	L	Т	Р	С
Pre-requisite Imparting Knowledge of Business Syllabus Version Course Objectives: The main objectives of this course are: 1 To Understand the principles of management. 2 To Develop the skills of decision making, organizing and management of a business organization Image: The main objectives of this course, student will be able: K1 To Develop the skills of decision making, organizing and management of a business organization K1 To acquire skill of various management planning. K2 3 To know the forecasting techniques and decision making. K3 4 To acquire knowledge of manpower planning, motivation theory and communication k44 barriers and importance. 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 Evaluate Unit:1 Functions of Management 13 hours Management - Nature and Functions of Management - Management as an Art - Science and Profession - Management - Concept - Contribution of F.W. Taylor - Techniques of Scientific Management - Planning - Mosing - Factors involved in Decision Making - Objectives of an Organisation - Concept - Features - Hierarchy of Objectives - Management by Objectives. 15 hours Scientific Management - Decision Making Need - Types - Pactors involved in Decision Making - Decentrali	Cor	e/Elective/S	Supportive		ALLIED PA	PER III	-	5			3
Course Objectives: The main objectives of this course are: 1 To Understand the principles of management. 2 To Develop the skills of decision making, organizing and management of a business organization Expected Course Outcomes: On the successful completion of the course, student will be able: K1 1 To get the knowledge of nature and functions of management. K1 2 To acquire skill of various management planning. K2 3 To know the forecasting techniques and decision making. K3 4 To acquire skill of various management planning, motivation theory and communication barries and importance. K5 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate Unit:1 Functions of Management Unit:1 Functions of Management - Management and administration. 15 - hours Scientific Management - Concept - Contribution of FLW Taylor - Techniques of Planning - Objectives of an Organisation - Concept - Features - Hierarchy of Objectives - Management by Objectives - Management and administration. 15 - hours Vinit:3 Forecasting and Decision Making 15 - hours Scientific Management - Steps in Planning - Topls o	Pr	e-requisite	9	Imparting Management.	Knowledge	of	Business	Sylla Versi	bus ion		
The main objectives of this course are: 1 To Understand the principles of management. 2 To Develop the skills of decision making, organizing and management of a business organization Expected Course Outcomes: No 0n the successful completion of the course, student will be able: K1 1 To get the knowledge of nature and functions of management. K1 2 To acquire skill of various management planning. K2 3 To know the forecasting techniques and decision making. K3 4 To acquire knowledge of manpower planning, motivation theory and communication barriers and importance. K5 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate Wit:1 Unit:1 Functions of Management 13 - hours Management - Nature and Functions of Management - Management as an Art - Science and Profession - Management and administration. Unit:2 Scientific Management - Management 15 - hours Scientific Management - Concept - Contribution of F.W. Taylor - Techniques of Scientific Management - Planning - Tools of Planning - Objectives of an Organisation - Concept - Steps in Planning - Tools of Planning - Objectives of an Organisation - Concept - Steps in Planning - Tools of Planning - Objectives. Unit	Cou	irse Objec	tives:								
1 10 Understand the principles of management. 2 To Develop the skills of decision making, organizing and management of a business organization Expected Course Outcomes: On the successful completion of the course, student will be able: 1 To get the knowledge of nature and functions of management. K1 2 To acquire skill of various management planning. K2 3 To know the forecasting techniques and decision making. K3 4 To acquire knowledge of mapower planning, motivation theory and communication barries and importance. K5 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate Unit:1 Functions of Management Unit:1 Functions of Management 13 - hours Management - Nature and Functions of Management 15- hours Scientific Management - Concept - Contribution of F.W. Taylor - Techniques of Scientific Management - Planning - Mosilo Scientific Management - Planning - Mosilo Scientific Management - Planning - Mosilo Scientific Management - Blanning - Tools of Planning - Objectives. Unit:3 Forecasting and Decision Making 15- hours Forecasting - Concept - Techniques - Evertues - Hierarchy of Objectives - Management by Objectives. 15- hours	The	main obje	ctives of the	s course are:							
2 10 Develop the skints of decision making, organization Expected Course Outcomes:	1	To Unders	tand the prin	ciples of managen	nent.				:	:	
Expected Course Outcomes: On the successful completion of the course, student will be able: 1 To get the knowledge of nature and functions of management. K1 2 To acquire skill of various management planning. K2 3 To know the forecasting techniques and decision making. K3 4 To acquire knowledge of manpower planning, motivation theory and communication barriers and importance. K4 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate Init:1 Unit:1 Functions of Management Management - Nature and Functions of Management - Management as an Art - Science and Profession - Management - Concept - Contribution of F.W. Taylor - Techniques of Scientific Management - Planning - Meaning - Features - Importance - Steps in Planning - Types of Planning - Tools of Planning - Objectives of an Organisation - Concept - Features - Hierarchy of Objectives - Management by Objectives. Unit:3 Forecasting and Decision Making Need - Types - Factors involved in Decision Making - Decentralisation - Delegation of Authority - Span of Control. Unit:4 Motivation and Communication Unit:4 Motivation and Communication Unit:4 Motivation and Communication 1	2	10 Develo	p the skills o	1 decision making	, organizing and	manage	ment of a busine	ess org	anizat	1011	
Expected Course Outcomes: On the successful completion of the course, student will be able: I 1 To get the knowledge of nature and functions of management. K1 2 To acquire skill of various management planning. K2 3 To know the forecasting techniques and decision making. K3 4 To acquire knowledge of manpower planning, motivation theory and communication barries and importance. K4 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate Unit:1 Functions of Management Unit:1 Functions of Management 13 hours Management - Nature and Functions of Management - Management as an Art - Science and Profession - Management and administration. Imagement - Science and Profession - Management - Concept - Contribution of F.W. Taylor - Techniques of Scientific Management - Planning - Tools of Planning - Objectives of an Organisation - Concept - Features - Hierarchy of Objectives - Management by Objectives. Unit:3 Forecasting and Decision Making 15 hours Forecasting - Concept - Techniques - Decision Making Need - Types - Factors involved in Decision Making - Becentralisation - Delegation of Authority - Span of Control. Imagement - Communication - Communication - Communication - Formal and Informal Communication - Barriers to communication - Forms of Com											
On the successful completion of the course, student will be able: I 1 To get the knowledge of nature and functions of management. K1 2 To acquire skill of various management planning. K2 3 To acquire knowledge of manpower planning, motivation theory and communication K4 barriers and importance. K5 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate Unit:1 Functions of Management 13 hours Management - Nature and Functions of Management - Management as an Art - Science and Profession - Management and administration. Toe hours Scientific Management - Concept - Contribution of F.W. Taylor - Techniques of Scientific Management - Planning - Nagement - Inportance - Steps in Planning - Types of Planning - Tools of Planning - Objectives of an Organisation - Concept - Features - Hierarchy of Objectives - Management by Objectives. Unit:3 Forecasting and Decision Making 15 hours Forecasting and Decision Making 15 hours <td>Exp</td> <td>ected Cou</td> <td>rse Outcor</td> <td>nes:</td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Exp	ected Cou	rse Outcor	nes:							
1 To get the knowledge of nature and functions of management. K1 2 To acquire skill of various management planning. K2 3 To know the forecasting techniques and decision making. K3 4 To acquire knowledge of manpower planning, motivation theory and communication barriers and importance. K4 5 To understand the importance of leadership in business scenario K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 – Evaluate I3 hours Management - Nature and Functions of Management - Management as an Art - Science and Profession - Management and administration. I5 hours Unit:1 Scientific Management - Concept - Contribution of F.W. Taylor - Techniques of Scientific Management - Planning - Meaning - Features - Importance - Steps in Planning - Types of Planning - Tools of Planning - Objectives of an Organisation - Concept - Features - Hierarchy of Objectives - Management by Objectives. Unit:3 Forecasting and Decision Making I5 hours Forecasting - Concept - Techniques - Decision Making Need - Types - Factors involved in Decision Making - Decentralisation - Delegation of Authority - Span of Control. Imagement - Communication Unit:4 Motivation and Communication - Formal and Informal Communication - Communication - Barriers to communication. Imagement - Formal and Informal Communication - Formal and Informal communication - Barriers to communication. <t< td=""><td>On</td><td colspan="9">On the successful completion of the course, student will be able:</td></t<>	On	On the successful completion of the course, student will be able:									
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Total Lecture hours 75 - hours	Ex	pert Lectu	res, online a	and offline semin	nars – webinars					+	~
					To	tal Lect	ture hours		75 -	-hou	irs

Те	ext Book(s)
1	P.N. Reddy, Tripathy & Others Essentials of Management, Himalaya Publishing House, New Delhi,
	1995.
2	K. Natarajan, K.P. Ganesan, Principles of Management, Himalaya Publishing House, New Delhi, 1998.
Re	eference Books
1	L.M. Prasad, Principles and Practice of Management, Sultan & Sons., New Delhi, 1987.
2	Dinkar Pagare, Business Management, S. Chand & Company, New Delhi, 1991.
3	Dr. C.B. Gupta, Business Management, S. Chand & Sons., New Delhi, 2000.
4	Lallan Prasad, S.S. Gulshan, Management - Principles & Practice,
	S. Chand & Company, New Delhi, 1991.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	М	S	S	S	М	S	S
CO2	S	S	М	S	S	S	S	S
CO3	М	S	S	M	М	S	S	M
CO4	S	S	S	М	М	S	М	S
CO5	М	L	М	L	S	L	М	M

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

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Coι	irse code		FINANCIAL ACCOUNTING	L	Т	Р	С		
Cor	e/Elective/S	upportive	PART – IV SKILLS BASED SUBJECT PAPER - I	3			3		
Pr	e-requisite		Essential Concepts of Accounting Procedures	Sylla Versi	bus ion				
Cou The	irse Object	tives: ctives of thi							
1	To make th	e students to	understand the basic concepts of accounting procedures.						
2	To encoura	ge the stude	nts to learn modern techniques in the accounting field.						
		-							
Exp	ected Cou	rse Outcor	nes:						
Or	the succes	sful comple	etion of the course, student will be able:						
1	To recall	the basic a	ccounting principles and techniques			K	.1		
2	To get know	owledge of d	ouble entry system, Journals, Ledger and trial balance.			K	2		
3 To understand the ideas of bank reconciliation statement. K							3		
4 To get application knowledge of preparing final accounts.						K	[4		
5	5 To enhance the application knowledge of Single Entry System, Income & Expenditure K5 Account and Balance Sheet.								
K 1	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 – Evaluate								
Ur	nit:1		Accounting Concepts		8	hou	rs		
	Accounting Double Ent	g - Definitio try System	n, objects, functions and importance, classification of concept; Journal, ledger and Trial Balance.	accou	ints -				
Ur	nit•?	the state	Subsidiary Books	1	8	hou	rs		
Su	bsidiary Boo	oks - Cash B	book, Bank Reconciliation Statement.		0	nou	115		
	j		Charles and the second s						
Ur	nit:3		Final Accounts		9	hou	rs		
I	Preparation	of Final Ac	counts of sole traders - trading and Profit & Loss A/c.	and I	Balan	ce			
Sh	eet - with si	imple adjus	tment.						
Ur	nit•4		Single Entry System		9	hou	rs		
Sir	ngle Entry S	vstem - State	ment of Affairs: Conversion into double entry (Simple Pro	blems)	nou	15		
	-8))			/				
Ur	nit:5		Accounting of Non – Trading Concerns		9	hou	Irs		
Ac	counts of No	on - Trading	concerns - Receipts and Payments A/c. Income & Expendi	ture A	/c.				
and	d Balance Sł	neet.							
Ur	nit:6		Contemporary Issues		2 -	hou	irs		
Ex	apert Lectur	res, online a	nd offline seminars – webinars		-				
	Total Lecture hours 45 – hours								
Те	Text Book(s)								
	Principles of	of Accountar	ncy - N. Vinayakam, P.L. Mani & K.L. Nagarajan.						
2	Financial A	Accounting -	R.L. Gupta and V.K. Gupta - Sultan Chand and Sons, New	Delhi	•				

Re	eference Books
1	Financial Accounting - SP. Jain and K.L. Narang - Kalyani Publishers, Ludhiana.
2	Financial Accounting - Santhana Gopalan and Parthasarathy, Sultan Chand and Sons, New Delhi.
3	Financial Accounting - Reddy and Murthy – Margham, Publications -Chennai - 17.
N	OTE: Question Papers must contain problems to the extent of 60% of the marks allotted to the subject.

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	М	S	М	S	S	S	S
CO2	S	S	S	S	М	S	М	S
CO3	М	S	S	М	S	М	L	М
CO4	S	S	S	S	M	S	М	М
CO5	М	М	L	S	S	М	L	S





Cou	irse code		MACRO ECONOMICS – II	L	Т	Р	С	
Cor	e/Elective/S	upportive	CORE PAPER –VII	5			4	
Pr	e-requisite	1	Overview of Macro Economic Issues and	Sylla	bus			
Cou	rsa Obiaci	tivos	Analysis Aggregate Measures	v ersi	on			
The	main object	ctives of thi	s course are:					
1	To help the	students to	know about the basic concepts of Macro Economics.					
2	To make th	e students to	o understand different dimensions of Macro Economics with	appli	cation	IS.		
Exp	ected Cou	rse Outcor	nes:					
On	the succes	sful comple	etion of the course, student will be able:					
1	To Explai	n the princip	ble of Multiplier and Accelerator, Super Multiplier.			K	.1	
2	To Attain	the knowled	lge in classical and Keynesian theories of income and emplo	oymer	nt.	K	2	
3	3 To Analyze the various phases of trade cycle and the theories of trade cycles. K3							
4	4 To Understand the working conditions of product and money market, Shift in IS and K4							
	LM curves.							
5 To Explain the Economic role of monetary and fiscal policies in developing Economy. K							5	
K1	- Rememb	ber; K2 - U	nde <mark>rstand; K3</mark> - Apply; K4 - Analyze; K5 – Evaluate					
TT	•. •		A AVE. POA	1	10			
Un	it:1		Multiplier and Accelerator		13	hou	rs	
Mul Leal Mul	tiplier and kages of the tiplier and	Acceleratore e multiplier Acceleratore	r: Definition – importance – working – Assumptions – . Accelerator: Meaning – Significance – Limitations – r, Super multiplier.	Type Intera	s – action	ı of		
	- -		Contraction of the second seco	1				
Un	it:2		Savings and Investment equality		15	hou	rs	
Sav Ke	vings and In vnesian theo	vestment eq ory of Incom	ualit <mark>y: The Classical view – the Keynesian vie</mark> w – the other e. Output and Employment.	s' viev	w. The	¢		
	J	5						
Un	it:3		Trade cycle		15	hou	rs	
J	Trade cycle	: Meaning -	- nature - types and phases of a Trade cycle. Theories	of tra	de cy	cle-		
Ke	ynesian of	trade cycle.	Schumpeter's innovation theory –Hwatrey's monetary	theo	ory-Hi	icks		
the	ory of trade	e cycle .	and a state of the					
Un	it•A		IS and LM functions		15	hou	rs	
IS	and LM fun	ctions: the p	roduct and money market Equilibrium – General Equilibriu	m of r	oroduc	t and	1	
mo	ney market.	Inflation- m	neaning – inflationary gap – Phillips curve – the relationship	betw	een			
Un	it:5		Macro-Economic policy		15—	hou	rs	
Ma	cro-Econon	nic policy: N	leaning-Targets- instruments, objectives of macroeconomic	polic	y. Mo	netar	y	
Pol	icy –Fiscal	policy: mean	ning –the role of monetary and fiscal policy in a developing	econd	omy.			
Un	Unit:6 Contemporary Issues 2 – hours							
Ex	pert Lectur	es, onlinea	nd offline seminars – webinars					
	-		Total Lecture hours		75 -	-hou	rs	
Те	xt Book(s)							
1	M .L. Jhing	ghan: Macro	Economic Theory, Virnda Publications (P), New Delhi.					
2	Sankaran. S	S. Macro Ec	onomics, Margham Publications, Chennai.					

Re	Reference Books						
2	Vaish M.C, Macro Economic Theory, Wiley Eastern Limited, New Delhi.						
3	Gupta G.S, Macro Economics, 3 rd Edition, Tata McGraw-Hill Publishing Company Ltd., New Delhi.						
4	Seth M.L, Macro Economics, Lakshmi Narain Agarwal Publishers, Agra.						

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	М	М	S	S	S	S	S
CO2	S	S	S	М	S	S	М	М
CO3	S	М	S	S	М	М	S	S
CO4	S	S	М	М	M	S	М	М
CO5	М	M	L	S	S	L	S	S



Course code			MATHEMATICAL ECONOMICS	L	Т	Р	С			
Cor	·e/Elective/S	upportive	CORE PAPER – VIII	5			4			
Pre-requisite			The main aim of this subject is to inculcate basic mathematical knowledge and its application to economic concepts.	Syllabus Version						
Course Objectives:										
The main objectives of this course are:										
1	To help the students to know about the basic mathematical knowledge									
2	Make the students to understand the importance of mathematic tools in economics									
3	Providing	elementary	analysis of economic concepts							
4	To equip t theories	he students	to know the application of mathematical techniques in	1 econ	omic					
Fvr	posted Cou	rsa Autoor	nos•							
On	the success	ful complet	ion of the course student will be able:							
1	To create	the fundam	pental knowledge in Mathematics			K1				
2	To create		denta to understand the concents							
2		$\frac{1}{1}$	idents to understand the concepts.			K2				
3	To train t	the students	in the analysis of economics issues.			K3				
4	4 To help the students to calculate the changes in basic economic variables					K4				
5	To prepa	re students	in decision making .			K6	1			
K1	- Remembe	er; K2 - Un	derstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	.6 – C	reate					
Uni	it:1	1.7	Basic Mathematical Functions	1	15	ho	urs			
	Definition a Quadratic eq	nd Importan	ce of Mathematical Methods - Rules of Differentiation - Li	near ec	quatio	ns -				
Uni	it:2	1 dutions EC	Basic Economic Concepts	17.	15	ho	urs			
	Total, avera	ge and Marg	inal Revenues - Elasticity of Demand - Conditions for Prof	it Max	kimiza	tion				
		<u> </u>	- Partial Differentiation - Total Differential							
Uni	it:3		Set Theory	15 hours			urs			
	Notations of	f Set - Types	of Sets - Venn diagram - Laws of set operations - Applicat	10ns 1n	n Ecor	omi	cs.			
Uni	it•4		Matrix		15	ho	urs			
UII	Matrix /	Addition and	Subtraction - Matrix Multiplication - Determinants - Property	erties -	Solut	ion	41.5			
	of simultaneous equation using Cramer's Rules.									
Unit:5 Input- Output Analysis 15 h						ho	urs			
Input - Output Analysis - Technological co-efficient Matrix - Linear Programming - Graphical method.										
	Total Lecture hours 75hours									
Тех	Text books									
1	 Mehta and Madnani - Mathematics for Economists, Sultan Chand & Sons, New Delhi - 2000. 									
	Referen	ce Books								
2	Allen, R.G. York.	.D Mathem	atical Analysis for Economists, Macmillan, New							

3	Chiang,	- Fundamentals of Mathematical Economics, Macmillan, New York.
4	Stafford	- Elementary Mathematics for Economics. Srinath Baruah, Basic Mathematics and its
	application	n in Economics - Macmilan India Ltd., Chennai – 2001

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	М	S	М	М	М	L	S	L
CO2	S	S	S	S	S	S	S	S
CO3	М	S	S	М	S	S	S	М
CO4	М	S	S	S	S	S	S	S
CO5	М	S	S	М	S	S	S	S



<u>Course code</u>			INTRODUCTION TO INDUSTRY 4.0	L	T	<u>P</u>	<u>C</u>			
<u>Core/Elective/Supportive</u>		Supportive	ELECTIVE PAPER II: GROUP-B	4			3			
Pre-requisite			Basic computer knowledge and basic industrial knowledge.	<u>Syllabus</u> <u>version</u>						
Cou	Course Objectives:									
<u>I he</u>	The main objectives of this course are:									
1	Align the theory and concepts with Industrial application of computers									
2 I 1	2 Introduce the basic concepts of Industry 4.0, Artificial Intelligence, Big Data and Internet of Things.									
3 L je	Learn the apobs in 2030	pplications ar)	nd tools of Industry 4.0. and to make the students to	o aware	abou	t the				
Fyn	ected Cou	rse Autcome	»c•							
On	the succes	sful completi	on of the course student twill be able:							
1	Linderstand	the basic con	poents of Industry 4.0			V	2			
<u>1</u>	Understand		heepis of muusify 4.0			<u> </u>	<u> </u>			
<u>2</u>	Outline the	e features of A	artificial Intelligence and its application			K	3			
<u>3</u>	Summarize	e the Big data	domain stack and Internet of Things			K	<u>3</u>			
<u>4</u>	Identify the	e applications	and Tools of Industry 4.0			<u>K</u>	3			
<u>5</u>	Analyze th	e skills requir	red for future			<u>K</u>	4			
<u>K1</u>	-Remembe	er; K2- Unders	tand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 –Cre	ate		1				
Un	<u>it:1</u>	Industry	4.0	<u>10</u> -	hou	rs				
Need	d – Reason	for Adopting	g Industry 4.0 - Definition – Goals and Design Prin	ciples -	Tech	nolc	gies			
of In	ndustry 4.0	– Big Data –	Artificial Intelligence (AI) – Industrial Internet of	Things	- Cyl	ber				
Secu	urity – Clou	ıd – Augmen	ted Reality							
Un	<u>it:2</u>		Artificial Intelligence	<u>12</u>	2hou	urs				
Arti	ficial Intell	igence: Artif	icial Intelligence (AI) – What& Why? - History of	AI -Fou	indati	ions	of			
AI -'	The AI - er	vironment -	Societal Influences of AI – Application Domains a	ind Too	ls -					
Asso	ociated Tec	hnologies of	AI – Future Prospects of AI – Challenges of AI.							
<u>Un</u>	<u>it:3</u>		Big Data and IoT		<u>14r</u>	lour	<u>s</u>			
Big	Data : Evo	lution - Data	Evolution - Data : Terminologies - Big Data Defin	nitions -	- Esse	ential	of			
Big	Data in In	dustry 4.0 -	Big Data Merits and Advantages - Big Data Con	nponent	$\mathbf{s}:\mathbf{B}$	1g D	ata			
Chai	racteristics	- Big Data P	rocessing Frameworks - Big Data Applications - F	31g Data	a Too	ls - 1	Big			
Data	Domain S	stack : Big D	ata in Data Science – Big Data in IoI - Big Data i	n Mach	ine L	earn	ing			
- Big Data in Databases - Big Data Use cases : Big Data in Social Causes - Big Data for Industry -										
Dig	Big Data Koles and Skills -Big Data Koles - Learning Platforms; Internet of Things (IoT) :									
Ann	Annications of IoT - Security in IoT									
Un	it:4	A	pplications and Tools of Industry 4.0		12ŀ	our	s			
Ann	lications of	f IoT – Manu	facturing – Healthcare – Education – Aerospace ar	nd Defe	nse –		<u> </u>			
Agri	iculture – T	ransportation	and Logistics – Impact of Industry 4.0 on Society	: Impac	t on					
Busi	iness. Gove	ernment. Peoi	ble. Tools for Artificial Intelligence. Big Data and	Data Ar	nalvti	cs.				
Virt	Virtual Reality, Augmented Reality, IoT, Robotics									
Un	<u>it:5</u>		Jobs 2030		<u>10</u> ł	iour	<u>s</u>			

Industry 4.0 – Education 4.0 – Curriculum 4.0 – Faculty 4.0 – Skills required for Future - Tools for Education – Artificial Intelligence Jobs in 2030 – Jobs 2030 - Framework for aligning Education with Industry 4.0

Uni	i t:6	<u>2hours</u>					
Exp	Expert lectures, online and offline seminars -webinars						
		<u>Total Lecture hours</u>	<u>60-hours</u>				
Tex	t Book(s)						
1	P. Kaliraj,	T. Devi, Higher Education for Industry 4.0 and Transformation	to Education 5.0,				
	2020						
Ref	erence Book	<u>(S</u>					
1	Alasdair Gi	christ. Industry 4.0: The Industrial Internet of Things, Apress Pub	lications				
Rela	ted Online C	ontents [MOOC, SWAYA <mark>M, NPTEL,</mark> Websites etc.]					
1	Introduction	to Industry 4.0 and Industrial Internet of Things by Prof. Sudip					
	Misra, IIT K	Lharagpur.					
2	A Complete Guide to Industry 4.0-Udemy						
Incorp	Incorporated by Dr.R.SELVI, selvirajammal@gmail.com						

Tex	xt Books
1.	A first Course in Computer - Sanjay Saxena
2.	Computer Programming and Application - R. Krishnamoorthy.
	Reference Books
1.	Computer Applications in Business - Subramanian.K
2.	The Internet - Harley Kahn
3	The Internet - Douglas E – Corner

			The second second		And a state of the			
COs	<u>PO1</u>	<u>PO2</u>	<u>PO3</u>	<u>PO4</u>	PO5	<u>PO6</u>	PO7	<u>PO8</u>
<u>CO1</u>	<u>S</u>	<u>S</u>	M	M	L	M	<u>S</u>	<u>S</u>
<u>CO2</u>	<u>S</u>	M	<u>S</u>	M	<u>S</u>	M	M	M
<u>CO3</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	M
<u>CO4</u>	M	L	<u>S</u>	M	M	M	M	<u>S</u>
CO5	S	S	S	М	M	S	М	S

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

Page 35 of 91
Course code TRADE DOCUMENTATION L T J								
Core/Elective/	Supportive	Part IV - Skill Based Subject Paper -II	2			2		
Pre-requisite		This course deals with avenues of international trade, shipping and documentation methods.	Sylla Versi	bus ion				
Course Objectives:								
The main objectives of this course are:								
1 To familiarize the students to learn the procedures of foreign trade and documentation methods.								
2 To gain kn	owledge or	n foreign trade						
3 To familia	rize the stu	dents about current economic scenario						
Expected Co	urse Outco	omes:						
On the succes	sful comple	etion of the course, student will be able:						
¹ To help the licensing	he students	to know about the importance of international trade	and		K1			
2 To under	stand the ne	ecessary knowledge on shipping procedures.			K2	,		
3 To know	about the b	asic export and import documents.			K3			
4 Make the	students to	gain knowledge on basic export procedures			K4	•		
5 To help the	he students	to search for jobs in export industries.			K6			
K1 - Rememb	ber; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	e; K6 –	Creat	e			
Unit:1	[International I rade		6	hou	rs		
Avenues of I	Managen	al Trade - Direct exporting - Joint venturing - In	vients	cons	ultir	1.C		
Unit.2	, managen	Shinning procedures	ojecis,	<u>6</u>	hou	rs		
Role of Shin	ning - Lin	ers tramps Bill of lading - lettison and general	average	• nar	ticui	lar		
average, war Multi Model	ranties and Transport	d other shipping terminologies - containerization	- Air [Frans	port	-		
Unit:3	I	Documents relating to exports		6	hou	rs		
Need, Ration	nale and T	ypes of document - INCO terms - Ex - works	- Free	on 7	ruc	k -		
cost and frei Document ag	ght - Cost gainst Acc	Insurance Freight - Free on Board - Document eptance - Invoice, Inspection certificate - Certifi	agains cate of	t pay Origi	mer in.	nt -		
Unit:4		Export and Import Documents		6-	hou	rs		
Export, Impo for Documer	ort License ntary Cred	es - Letter of Credit Mechanism - Uniform Custo it (UCPDC) - Duty drawback procedure.	oms and	l Prac	ctice	s		
Unit:5	Unit:5 Packing Methods 6 hours							
Packing Met	hods - Pac	king List - Quality Control and Inspection - Cle	arance	of Ex	por	t		
Act - Post - S	Shipment I	Formalities and procedures		Cubi	.011K	,		
		Total Lecture hours		30	-ho	urs		

T	ext Books
1	Balagopal - Export Management, Himalaya Publishing House, Delhi
	Reference Books
2	Paras Ram - Export - What, Where and How - Tata MC Graw Hill International Edition.
3	Government of India, Handbook of Import and Export procedures
	Course Designed by : Dr. Thaiyalnayagi

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	М	S	S	М	S
CO2	S	М	S	S	М	S	S	S
CO3	S	М	S	S	М	L	S	S
CO4	S	S	M	М	S	M	S	М
CO5	S	S	S	M	S	Μ	S	М



Cou	rse code		OFFICE FUNDAMENTALS	L	Т	Р	С		
			(Digital Skills for Employability)						
Core	e/Elective	/Supportive	Naan Mudhalvan Subject : 2	2	+		2		
Pre	-requisi	e	Basic knowledge of computer operating and	Sylla	ibus	5			
			statistics knowledge	vers	ion				
Cou The	rse Obje main obi	cuves: ectives of thi	s course are:						
1	To under	stand the sig	nificance and basic concepts of computer systems.						
2	2 To provide knowledge of the application of computer system in the field of MS Office								
Б		0.4							
Exp	the succe	urse Outcor	ies:						
	To und	ssiul compre	fine Design and analyze MS Word			V	1		
1		Istaliu MS 0	awar Deint				2		
2		K WILLI MIS P	ower Point				2		
3	To eval	vale and wor	k with MS Excel			K.	2 4		
4	To work	with Outle	te and SharePoint			K ⁴	+		
) 1/1	To work					K.	3		
KI	-Rememt	ber; K2- Unde	rstand; K3-Apply; K4-Analyze; K3-Evaluate						
Un	it:1		Microsoft Word		2h	our	5		
	Introdu	ation Dibb	and Introduction and ontions evailable. Us	ing Dul	010	in	Word		
Image Repla Apply Form	es- The V ace- Form ying Para ats of MS	View Tab in aatting Word graph Styles Word file a	Word- Paragraph Editing- Page Layout- Table St Art in Word- Creating Table of Figures- Tab Stop Wrapping Words Around Pictures- Inserting Files and how to save them.	yle in W s via Dia & Equa	/ord alog atior	l- Fin Lau 1- Di	nd and incher- fferent		
Un	it:2		Microsoft PowerPoint		2h	our	5		
	Naviga	te a PowerP	oint Presentation-Formatting Text-Working with	Bullets	and	Nur	nbered		
Lists-	Inserting	Items-Zoon	-Charts-Editing Images-Working with Objects-S	aving P	rese	ntati	ons as		
Temp	lates-Slic	le Master-Tr	ansitions-Introduction to Additional Advanced Top	ics-Sma	rtAı	t.			
Un	:+.2		Mionogoft Errol		2	ha			
UI	11.5		Microsoft Excel		2.	110	115		
	Introdu	ction to Exc	el-Layout - Tabs, ribbons, and groups in Microso	ft Excel-	Wo	rksh	eets in		
Micro	osoft Exc	el-Basic for	nulas in Microsoft Excel-Freeze Pane-"Tell Me	" in Mi	cros	soft	Excel-		
Insert	ing chart	s in Microso	t Excel-Auto Filling cells in Excel-Add your own	auto fill-	Sor	ting	data in		
Excel-Simple copy/paste-Saving/ Printing Excel-How to use Flash Fill in Excel-Hyperlinks in Excel									
(link	link to websites)-Create a directory or table of contents with internal links-Formatting Lists as								
Table	s-Filterin	g Records f	rom Lists or Tables-Single & Multi-Level Sortin	ng-Insert	ing	Aut	omatic		
Subto Dyna	otals in L mic Arra	ists-Inserting y-Excel Mac	Data Charts Using Recommended Charts-Pivot ros-VLOOKUP & Reference Functions-Conditiona	Table-Da 11 Forma	ata tting	Valio g.	lation-		

Unit:4	Microsoft Teams & One Drive and SharePoint	2hours
Introdu	action-Calendar-Teams – Approvals	
Introduction-S	Sharing Access on One Drive-Creating Shared Library-Recycle B	in-
introduction t	o SharePoint-Create Site-Different features of SharePoint.	
Unit:5	Outlook	3hours
Introd	uction to Outlook-Create new meetings, appointments, tasks, and	l contacts-Send Email
with Quick Pa	arts-Sharing Calendars-Creating and Managing Rules-Folders in C	Dutlook.
	Total Lecture hours	30hours

Те	extBook(s)					
1	Sanjay Saxena- A first course in Computer					
2	R.Krishnamoorthi - Computer programming and application					
Re	eferenceBooks					
1	R.K.Taxali-PCSoftwareforwindowsmadesimplexTataMcrawHillPublishersPvt.					
	Ltd.					
2	Stephen.L-Office2000Complete reference by BPB					
3	Joyce Cox,PollyUrban–QuickCourseinMicrosoftOffice-GalgotialPublications.					
4	T.Karthikeyan & Dr.C.Muthu – PC Software for Office Automation-Sultan Chand.					
5	A.L.Stevens -Teach; yourself-windows.					
Incorp	orated by Dr.R.SELVI, selvirajammal@gmail.com					

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	Μ	S	Μ	S	S	S
CO2	S	Μ	S	S	Μ	S	S	S
CO3	S	Μ	S	S	Μ	S	S	S
CO4	S	Μ	S	S	Μ	S	S	S
CO5	S	Μ	Μ	S	Μ	S	Μ	Μ





Cou	rse code		MONETARY ECONOMICS	L	Т	Р	С	
Cor	e/Elective/S	upportive	Core paper IX	6			4	
Pre-	-requisite		This course deals with the theories of money, capital market and the banking sector	Sylla Versi	bus ion			
Cou The	rse Object main object	t ives: ctives of thi	s course are:					
1	Understand the role of money and theories of money.							
2	Analysing the monetary forces, their developmental role and limitations in shaping and influencing the monetary policies							
3	To know a	bout the im	portance of Banking system					
Exp	ected Cou	rse Outcon	nes:					
On t	the success	ful complet	ion of the course, student will be able:					
1	To help th	e students to	know about the importance of money in the economy.			K1		
2	Make to le	earn about th	eories of money.			K2		
3	To acquai	nt the studer	ts with the working of money and financial markets			K3	;	
4	To encour	age the stud	ents to learn about the role of money in different business	situatio	ons.	K4	ł	
5	Help the s	tudents to ki	now about the importance of banking system in the econo	my		K6	,	
K1 ·	- Remembe	er; K2 - Une	lers <mark>tand; K3</mark> - Apply; K4 - Analyze; K5 - Evaluate;	K6 – C	reate	1		
			and the second sec					
Uni	t:1		Definition of Money		18	ho	urs	
Evol	ution, scope	e and functio	ns of money, Barter and its difficulties - Definitions of mo	oney - I	mport	ance	of	
mon	ey in a mod	ern economy	- Monetary standard - Monometallism and Bimetallism -	causes	tor th	e orita		
Uni	t• ?	nu stanuaru	Theories of Money		18	ho	urs	
Valu	le of money	- demand fo	r money - supply of money - theories of money - Fisher's	quantity	v theo	rv of		
mon Theo	ey - Cambri ory of Mone	dge Equation	n - K <mark>eyn</mark> es's Income Theory - Milton Friedman's restatem	ent of th	ne Qua	antity	1	
Uni	t:3	<u>j.</u>	Money, Financial and Capital Market		19	ho	urs	
Fina	ncial Marke	t - Kinds of	Financial Market - Money Market - Meaning, Functions,	Constitu	ients o	of		
Mon Marl	ey Market - ket - Capital	Financial In Market.	stitutions in the Money Market - Characteristics of a Dev	veloped	Mone	У		
Uni	t:4		Inflation and Business Cycle		19	ho	urs	
Infla and	ation - Type control - Tra	s -causes - c ade Cycles -	onsequences and control - Inflationary gap - deflation - ca Types - various phases of trade cycle.	uses - c	onseq	uenc	es	
Uni	t:5	y	Banking sector		16	ho	urs	
Func Bala	ctions of con nce Sheet -	mmercial ba Functions o	nks - Role of commercial banks in economic developm f Central Bank - RBI and monetary Policy – Role of RB	ent - cr I in der	edit c nonet	reation ization	on - on –	
Serv	merits and demerits - Recent trends in Banking - Innovative Banking - ATM - Credit Cards, Factoring Services, E-Banking and mutual funds.							
	Total Lecture hours 90-hours							
Tex	kt books							
1.	K.P.M. Sı	ındaram	- Money Banking and Trade					
2.	D.M. Mitl	nani -	Monetary Theory					

	Reference Books
3.	Saravanavel - Banking Law and Practice
4.	Dr. S. Sankaran - Monetary Economics, Himalaya Publishing House, Bombay, 1989.
5.	B.N. Ghosh and Rama Ghosh - Fundamentals of Monetary Economics, Himalaya Publishing
	House, Bombay, 1989.
6	M.L. Jhingan Monetary Economics, Konark Publishers Pvt. Ltd., New Delhi, - 1997
7.	T.T.Sethi - Monetary Economics, S.Chand & Company Ltd, new Delhi, 1996

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	М	S	М	М	S	S	S	S
CO2	М	М	S	S	M	S	S	L
CO3	S	М	S	S	M	М	S	М
CO4	S	S	S	М	S	М	S	М
CO5	S	S	S	М	S	S	S	S



Course code		INDIAN ECONOMIC DEVELOPMENT AND POLICIES	L	Т	Р	С		
Core/Elective/S	Supportive	Core X	6			4		
Pre-requisite	2	This course deals with the basic knowledge on the nature and important features of Indian economy.	Sylla Versi	bus ion				
Course Objectives: The main objectives of this course are:								
1 To expose the students of the various issues of the Indian economy.								
2 To familia current Ind	arize the stu dian econor	dents on sector-wise development issues and critically nic problems.	appra	aise th	ne			
Expected Cou	rse Outcor	nes:						
On the succes	ssful comple	etion of the course, student will be able:						
1 Understa Governn	and the new nent	economic reforms and the schemes of central and state	e		K	.1		
2 Assessin	g the role a	nd gr <mark>owth of agriculture and its impact on</mark> rural develo	pmen	t	K	2		
3 Examinin	ng the popu	lati <mark>on grow</mark> th in India and its impact on the economy			K	3		
4 To meas	ure the infra	astructural facilities and its role in economic developm	ent		K	.4		
5 To analy	ze the prob	ems of the regional economy			K	.6		
K1 - Remem	ber; K2 - U	<mark>ndersta</mark> nd; K3 - Apply; K4 - Analy <mark>ze</mark> ; <mark>K5 - Eva</mark> luate; l	K6 – (Creat	e			
	1		4	10				
Unit:1	roform on	New economic reforms	Now	18	hou	rs		
present central	and state G	overnment.	INCW	SCHEL		11		
	11 3		7					
Unit:2		Indian Agriculture		18	hou	rs		
Indian Agricul Revolution - N subsidies - PD	ture - Role lational Agr S.	and growth of Agricultural Sector in Indian Economy iculture Policy - Infrastructure and Rural Developmen	- Gree t – W	en TO –	-			
Unit.3		Population in India		18	hou	rc		
Size and grown Occupational S Infrastructure	th of popula Structure - V - HDI - Indi	tion in India - Demographic Indicators - Population Po Vork Participation rate - Literacy - Higher Education - a's Rank and Position.	olicy i Healt	in Ind	ia -	15		
Unit:4		Infrastructure		18	hou	rs		
OfficialInfrastructureInfrastructureInfrastructure and Economic Development - Energy - Power - Transport - Science and Technology - Large Scale Industries - Iron and Steel - Sugar and Cement - Role of Public Sector undertakings - Short comings.								
Unit:5		Regional Economy		16	hou	rs		
Regional econ prospects.	nomy – Agr	iculture – Industry – Service Sectors in Kongu Nadu –	- prob	lems	and	-		

Uni	it: 6	Contemporary Issues	2 hours
		Expert lectures, online and offline seminars - Webinars	
		Total Lecture hours	90hours
Te	ext Book(s)		
1	M.L. Jhing 2007.	gan - Economics of Development and Planning, Vrindha Publica	ations, New Delhi,
2	Ruddar Du 2007.	ttt and K.P.M. Sundaram - Indian Economy, S. Chand & Compa	any Ltd.,New Delhi,
Re	eference Bo	oks	
1	Dhingra IO	C The Indian Economy, Environment and Policy, Sultan Chand,	New Delhi.
2	Misra S.K Publishing	. and V.R. Puri - Indian Economy - Its development experience ; House, Mumbai, 2004.	-Himalaya
3	Dr. S. San	karan - India <mark>n Economy, Margham Publications</mark> , Chennai, 2	2004.
4	Alak Ghos	h - In <mark>dian Econ</mark> omy, The World Press Pvt. Ltd., Calcut	ta, 1997.
5	Statistical	Hand Book (www.coimbatore.tn.nic/handbook.html)	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	M	Μ	S	Μ	L	S
C O2	S	S	Μ	S	S	L	Μ	S
C O3	S	S	S	М	S	Μ	L	S
CO4	S	S	S	M	S	М	L	S
CO5	S	S	Μ	S	Μ	Μ	L	S

Cou	rse code		INTERNATIONAL ECONOMICS	L	Т	Р	С
Core	e/Elective/S	upportive	Core XI	6			4
Pro	e-requisite		The course deals with the theories and policies of International Economics.	Sylla Versi	bus ion		
Cou The	rse Object main object	t ives: ctives of thi	s course are:		I		
1	To impart	the knowle	dge with the theory, policy as well as the working of t	he inte	ernati	onal	
2	trade and p To familia	nayment system rize the stud	stem. dents about the present world economic order.				
I			1				
Exp	ected Cou	rse Outcon	nes:				
On	the succes	sful comple	etion of the course, student will be able:				
1	To under	stand the ba	asic concepts of International Trade			K	.1
2	To evalua	ate and app	ly the comparative cost theory			K	2
3	To exami	ine the bala	nce of payments and the terms of trade in an economy	r		K	3
4	To analys	se the excha	ange rate of the economy			K	4
5	To assess	the function	oning of the international financial institutions			K	.6
K1	- Rememb	er; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create	;	
Un	it:1		International Trade		18	hou	rs
Inter Trac	Importa rnational T le and Prote	nce of Interade - Disti	rnational Economics - Scope - Basis of International T nguishing Features of Inter - Regional and Internation	Trade - al Tra	· Feat de - F	ures Free	of
Un	it·?		Theories of International Trade	1	16	hou	rs
The	eories of In	ternational	Trade - Theory of Comparative Cost - Classical Theory	rv - H	eckso	her .	-
Oh	lin Theory.	,	Theory of comparative cost chashed Theo	, 11 II	conse	1101	
	·						
Un	it:3		Balance of payments		18	hou	rs
Bala Dise Type	nce of Pay equilibrium es of terms	ments - Me of Balance of trade - H	eaning - Importance - Balance of trade and Balance of of Payments - Measures to set-right disequilibrium - Factors influencing terms of trade	Paym Terms	ents - s of T	rade	-
Un	it:4		Exchange Rate		18	hou	rs
Exe	change rate	s - Flexible	and Fixed Exchange Rates -Equilibrium rate of Exchange Rates -Equilibrium rate of Exchange Rever	ange -	Caus	ses o	f 1
nut		CACHAILBE I	are rarenasing rower rarity meory - Devaluation - I	/AUIIAL		,11110	1.
Un	Unit:5 International financial Institutions 18 hours						rs
Inte UN	ernational l ICTAD, No	Financial In ew Internat	stitutions - Working of IMF, IBRD, IDA, Internationational Economic Order - WTO.	al Liqu	uidity	,	
Uni	t: 6		Contemporary Issues			2 ho	urs
		Expert lec	tures, online and offline seminars - Webinars				
			Total Lecture hours		90 -	-hou	rs

Te	ext Book(s)
1	M.L. Jhingan -International Economics, Konark Publishers, New Delhi, 2007.
2	D.M. Mithani - International Economics, Himalaya Publishing House, Mumbai,
	2003.
Re	eference Books
1	G. Haberler - Theory of International Trade
2	Francis Cherunilam - International Economics
3	Ellsworth - International Economics
4	Kindleberger - International Economics
5	K.R. Gupta - International Economics
6	S.S.M. Desai - International Economics, Himalaya Publishing House, Mumbai,
	1990.
7	K.P.M. Sundaram - Money, Banking and International Trade, S. Chand and
	Company, New Delhi, 2005

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	M	L	Μ	M	L	Μ
CO2	S	S	Μ	M	S	L	L	S
CO3	S	S	M	S	S	M	L	S
CO4	S	S	L	M	M	L	Μ	L
CO5	S	S	M	S	S	S	Μ	Μ
^S-Stron	g; M-Mediu	im; L-Low				Col.		

Cou	rse code		ENTREPRENEURSHIP DEVELOPMENT	L	Т	Р	С			
Core	/Flective/S	unnortive		5			4			
		upportive	This paper deals with Basic concepts of				-			
D	• • • •		entrepreneurship, women entrepreneurs, project	entrepreneurship, women entrepreneurs, project Syllabus						
Pre	e-requisite	,	classification, training objectives and Business	Versi	ion					
			Correspondence.							
Cou	rse Object	tives:								
I he	The main objectives of this course are:									
1	To undersi	tand the role	e of entrepreneursnip in economic development							
2			e opportunities available to become an entrepreneur							
Exp	ected Cou	rse Outcor	nes:							
On	the succes	sful comple	etion of the course, student will be able:							
1	To acqui	re the know	ledge regarding characteristics of an entrepreneur			K	1			
2	To devel	op an intere	st in entrepreneurial activity			K	2			
3	To equip	them with	entrepreneurial skills for self-employment			K	3			
4	To assess	s the trainin	g and financial facilities available for entrepreneurs			K	4			
5	To under	stand the bi	isiness correspondence and communication			K	6			
 K1	- Rememb	per: K2 - Ut	aderstand: K3 - Apply: K4 - Apalyze: K5 - Evaluate:	K6 - (reate	<u> </u>	.0			
	RT Remember, R2 Chaelstand, R6 Apply, R1 Analyze, R5 Evaluate, R6 Create									
Un	it:1		Basic concepts of Entrepreneurship		15	hou	rs			
Entr	epreneursh	ip – meani	<mark>ng and</mark> definition – importance – factors affecting entr	eprene	eurial	grov	wth			
-so	cial, econo	mic and en	vironmental factors. Types of functions of an entrepre	neur –	Qua	lities	of			
a suo	ccessful en	trepreneur.	San I a	1						
Un	:+.7		Women entrenkeneuws	¥	15	hou	MG			
We	II.2	prepeitre: cu	women entrepreneurs	Growt	13	nou	non			
ent	repreneurs	, problems	of women entrepreneurs – role of women entrepreneurs.	eurs a	ssoci	ation	is –			
sele	ection of in	dustry by w	vomen entrepreneurs. Types of industries/business su	table f	for w	omer	1			
ent	repreneurs	- Rural ent	repreneurs - Micro entrepreneurship.							
TI	:4.7	Т			14	1				
Un	ii:J	hugingga ia	roject classification and identification	tunos	14	nou	rs			
org	earch for a	- project cla	sitication and identification - project objectives - in	types	or and e	xterr	าลไ			
con	straints – f	format for a	report.	cornar (////	141			
			•							
Un	it:4	Tra	ining objectives and institutional finance		15	hou	rs			
Tra	ining and	finance ob	ectives of training – phases of EDP – special agen	cies fo	r trai	ning	_			
inst	titutional f	inance wit	h special emphasis of commercial banks. IDBL II	CI, I	CICI,	IRE	31,			
SF Sul	28,. SIPCO sidies(a F	JI, Khadi a Srief Study)	ind village industries Commission – Micro Finance –	incent	ives a	and				
Sut		Jilei Study)								
Un	it:5		Business correspondence		14	hou	rs			
Bus	siness corr	espondence	and communication – Drafting the notices of compar	ny mee	tings	. —				
Dra	afting of re	solutions, n	ninutes, structure of business letters - Sales and trade	compi	ıter b	ased				
sys	tems – Ma	nagement i	nformation system – merits and demerits.							

Uni	it: 6	Contemporary Issues	2 hours					
		75hours						
Τe	ext Book(s)							
1	C.B.Gupta	a & N.P. Srinivasan : Entrepreneurial Development,						
2	R.Saravan	akumar, R. Parameswaran - A Text Book of Information &	& T.Jayalakshmi (V					
	Unit) : T	echnology, Chand & Co Ltd., Delhi, 2003						
Re	eference Bo	ooks						
1	S.Mohan d	& R.Elangovan : Current Trends in Entrepreneurship, Deep	&					
	Deep Publ	ications Pvt,Ltd., Delhi,2006						
2	Gordon &	K. Natarajan - Entrepreneurship Development, Himalaya						
	Publishing	y House, Delhi,2005						
3	P.Saravana	avel - Entrepreneurial Development, Principles, Policies & Pro	gramme					
	Ess Pee Key Publishing House, Madras, 1997							
4	4 R.S.N.Pillai & Bagavathi - Commercial Correspondence							
	& Office N	Management, S.Chand						

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	Μ	S	Μ	S	M	Μ
C O2	S	S	S	S	M	M	Μ	S
C O3	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S
CO5	S	S	S	S	Μ	S	M	S
*S-Stron	g; M-Mediu	ım; L-Low	a gan			Raf		

25.45 No.

		BUSINESS COMMUNICATION				
Course code			L	Т	Р	С
Core/Elective/	Supportive	Part IV - Skill Based Subject Paper -III	2			2
Pre-requisit	e	The course deals with the art of report preparation,	Sylla	bus	11	
-		writing Business Letters and digital communication	Versi	on		
Course Obje	ctives:					
The main obj	ectives of thi	s course are:				
1 To know t	he meaning	objectives and role of communication and media				
2 To underst	and the need	and importance of communication in management				
3 To apply t	he need and	function of business letter				
4 To study t	he business o	correspondents with insurance and other organisation				
5 To underst	and the mea	ning and importance of report writing				
Expected Co	ursa Autoor	nas•				
On the succe	ssful comple	etion of the course, student will be able:				
1 Understa	nd the basics	s of communication and its Process Elements and its			K	1
importan	ce.	of communication and its ribeess, Elements, and its			IX	1
2 Acquire	he communi	ication skills.			K	2
3 Employ t	he art of rep	ort preparation and writing Business Letters			K	3
4 Use appr	opriate techr	nology for business presentations and digital community	cation	and	K	4
write E-r	he art of rep	actured pattern.			K	6
K1 - Remer	$\frac{100 \text{ art of lep}}{100 \text{ ber} \text{ K2 - Ut}}$	nderstand: K3 - Apply: K4 - Apalyze: K5 - Evaluate:	<u>K6 - (</u>	reate		0
	loci, K2 - Ol	inderstand, K5 - Appry, K4 - Anaryze, K5 - Evaluate,	<u>KU - (</u>	Ican		
Unit:1		Communication		6 I	iour	5
Communicati	on: Meaning	and Definition - Objectives - Role of Communication	ı – Prc	cess	and	
Elements of C	Communicati	on - Communication Networks - Types and Media of	Comn	nunic	ation	—
Barriers to Co	mmunicatio	n - Characteristics for Successful Communication				
Unit:2		mmunication in Management		6 1	lour	S .
Corporate C	and Comm	nunication: Need and Importance of Communication	1 11 IV	lanag	geme	nt —
an Organizat	ion.	in - Communication Training for Managers - Commu	mean	n Su	uctu	
and a Barrier						
Unit:3	H	Business Letters		6 I	our	S
Business Let	ter: Need – I	Functions – Kinds – Essentials of effective Business L	etter -	Lang	guage)
and Layout –	Planning, E	inquiries and Replies - Sales Letter - Orders, Tender a	nd No ¹	tice -		
Complaints -	Letter of Ap	opointment.				
** •/ 4	1					
	D 1 0	Correspondence		4 I	<u>10ur</u>	\$
Corresponde	nce: Bank (rt Correspor	Correspondence - Insurance Correspondence – Agence	y Cor	respo	nder	ice -
шрон Ехре	n conespoi					
Unit:5		Report Writing		6 l	<u>iour</u>	s
Report Writi	ng: Meaning	g and Importance - Purpose - Types of Business Report	ts - Cł		erist	1CS
of a Good R	eport - Kepo Accting	rt Preparation - Report by Individual and Committees	- Agei	nda a	nd	
winnutes of N	neening.					
Unit: 6		Contemporary Issues			2 ho	urs
	Expert lec	tures, online and offline seminars - Webinars				

12

	Total Lecture hours	30hours
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	Textbooks
1.	Korlahalli, J. S., & Pal, R. (1979) Essentials of Business Communication. S. Chand, New Delhi.
2.	Kaul A, (2015) Effective Business Communication. Second Edition Prentice Hall India
	Learning Private Limited.
3.	Raymond Lesikar and John Pettit, Jr.(2016) Report Writing for Business Mc Graw Hill
	Education
4.	Scott Mclean,"Business Communication for Success", Flat World Knowlegde, 2010
5.	Virander K. Jain, "Business Communication", S. Chand Limited, 2008
	Reference Books
1.	Kumar, R. (2010). Basic Business Communication. Excel Books India.
2.	Bovee, C. L. (2008). Business Communication today. Pearson Education India.
3.	Lesikar, R. V., & Pettit, J. D. (1989). Business communication: Theory and application. Irwin
	Professional Publishing.
4.	Mary Ellen Guffy and Dana Loewy (2012) Essentials of Business Communication Cengage
	Learning
5.	C.B.Gupta (2019) Essentials of Business Communication Cengage Learning India Pvt. Ltd
	A REAL
	Web Resources
1.	https://www.managementstudyguide.com/business_communication.htm
2.	https://studiousguy.com/business-communication/
3.	https://www.indeed.com/career-advice/resumes-cover-letters/business-communication-skills
4.	https://www.softskillsaha.com/what-is-meaning-of-business-communication-skills.php
5.	https://www.mindtools.com/page8.html

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	3	3	3	2	3	2	3	3
Weightage	15	14	15	14	14	15	14	15
Weighted percentage of course contribution to POS	3.00	3.00	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2	L-Low-1Level of Correlation b	between PSO's and CO's
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Cou	rse code		FISCAL ECONOMICS	L	Т	Р	С
Core	e/Elective/S	upportive	CORE PAPER XIII	5			4
Pro	e-requisite		The course deals with the revenue and expenditure of the government.	Sylla Versi	bus on		
Cou The	rse Object main object	t ives: ctives of thi	s course are:	4			
1	To enable t	he students u	inderstand the fundamentals of public finance.				
2	Understand financial o	ding and an perations o	alyzing the role and functions of the government and t n economic activities.	he im	pact of	of	
Fvn	acted Cou	rea Autoor	2051				
On	the succes	sful comple	tion of the course student will be able.				
1	To create	knowledge	on the scope of fiscal economics			K	1
2	To analy	ze nublic re	venue and the impact of tayation			K	.1 ?
2		the impost	of public expenditure				2
3	To under	stand nubli	a daht and the hudgetery procedure				. <u>.</u> ./
4			instruments on the sear entry				.4
) 1/1	Applicati		Instruments on the economy		7	K	.3
KI	- Rememb	ber; KZ - Ui	iderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	<u> 10 - (</u>	reate	;	
Un	it:1		Scope of Fiscal Economics		15	hou	rs
	Nature,	scope and i	mportance of Fiscal Economics - Public Vs. Private fi	nance	- pub	lic	
fina	nce & UDC	CS - Princip	le of maximum social advantage.	1			
Un	:4.2	A	Dublia Davanna		15	hou	
 	n.2	e - sources	- Tay and non-Tay - Tayation - classification - Princip	les _ e	13		15
the	ories of tax	ation - imp	act and incidence of taxation – GST – Features – meri	ts and	dem	, - erits	
		11 8					
Un	it:3		Public expenditure		14	hou	rs
P	ublic Expe	enditure - pr	inciples - classification - effects - growth of public exp - control of public expenditure	pendit	ure w	vith	
spe							
			Collector and St				
	it:4		Public Debt	<u> </u>	14	hou	rs
Pul	olic Debt -	meaning - s idgetary pro	sources - classification - principles - Budget - meaning	- ieat	ures ·	-	
PI		lugetary pro	secture.				
Un	it:5		Fiscal Instruments		15	hou	rs
Fis	cal policy -	- instrumen	ts - federal finance – principles – problems - reports of	f 10th	& 11	th	
Fin	ance Com	mission - L	ocal Finance.				
Uni	t: 6		Contemporary Issues			2 ho	urs
		Expert lec	tures, online and offline seminars - Webinars				
		-	Total Lecture hours		75 -	hou	rs
Te	xt Book(s)						
1	B.P. Tyagi	i -	Public Finance, Jai Prakash Nath & Co., Meerut.				
2	K.P.M. Su	ndaram	- Fiscal Economics				

Re	eference Books
1	Andley & Sundaram -Public Finance & Policy
2	Tripathy -Public Finance & Economic Development
3	Cauvery, Sudha Nayak, Girija, Kriparani & Meenakshi - Public Finance, S. Chand & Company Ltd., New Delhi.
4	R.C. Saxena & P.C. Mathur - Public Finance, K. Nath & Co., Meerut.
5	Dr. S. Sankaran – Fiscal Economics, Martha Publications, Chennai.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	Μ	S	Μ	Μ	S
CO2	S	S	S	S	S	S	S	S
CO3	S	S	S	M	S	S	S	S
CO4	S	S	S	S	S	S	Μ	S
CO5	S	S	S	S	S	Μ	S	S

^{*}S-Strong; M-Medium; L-Low



Сот	urse code		INDUSTRIAL ECONOMICS L T P C						
Core/Elective/Supporti		Supportive	CORE PAPER – XIV	5			4		
Pre-requisite			The course is designed to make the students to understand the location and localization of an industry and to learn the industrial financial sources and the recent industrial policies and its impact on productivity of industries.	Sylla Versi	bus on				
Cou	urse Object	tives:			I				
1	Make the s	students to i	understand the theory of location						
2	To equip f	he students	with the knowledge regarding the relationship betwee	n indu	Istria	1			
2	growth and	d economic	development.	II IIIde	13111a	L			
I	0		1						
Exp	pected Cou	rse Outcon	nes:						
Or	n the succes	sful comple	etion of the course, student will be able:						
1	To under	stand the fa	ctors determining the size of the firm			K	.1		
2	To exami	ine the facto	ors affecting the location of an industry			K	2		
3	To under	stand the in	npact of industrial finance			K	3		
4	To evalua	ate the Indu	strial policies			K	4		
5	To assess	s the Indust	rial Productivity			K	5		
K	I - Rememb	oer: K2 - U1	nderstand: K3 - Apply: K4 - Analyze: K5 - Evaluate:	K6 - (Create	2			
Ur	nit:1		Size of the Firm		14	hou	rs		
Fac	tors determ	ining the si	ze of the firm - Concept of the optimum firm - Repress	entativ	e fir	n.			
			And a land	1					
Uı	nit:2	10 3	Industrial Location		14	hou	rs		
Lo	ocation of Ir	ndustry - Fa	ctors determining Industrial Location - Theories of Ind	lustria	ıl Loo	catio	n -		
W	eber - Sarga	ant Florence	e Theory.						
T I.			Industrial Finance		15	hou	K G		
	Industrial F	inance - Te	rm Finance: Short Term Long Term - Specialized Fin	ancial	IS Insti	tutio	ns		
- I	FCI - IDBI	- ICICI.	in Thatee. Short ferni, Long ferni "Specialized Th	anorar	mou	iuiio	115		
			ANALIE IN PROLITY						
Ur	nit:4		Industrial Policies		15	hou	rs		
Ine	dustrial Pol	icies - 1948	, 1956, 1971, 1977, 1990, 1991 - Role of State - New	Indust	rial F	Polic	у		
an	d Economic	e Reforms.							
TT-	.:+.5		Inductival Decidentiation		15	har			
UI In	III:5 ductrial Dra	ductivity	Eastors Influencing Productivity Dationalization As	noota	15	nou	rs		
Ra	tionalizatio	on - Scientif	ic Management - Automation - Benefits - Industry 4.0	peers	01				
Uni	it: 6		Contemporary Issues			2 ho	urs		
		Expert lec	tures, online and offline seminars – Webinars						
			Total Lecture hours		75 -	-hou	rs		
Те	ext Book(s)	I							
1	Barthwal,	R.R. "Indus	strial Economics as Introductory" Text Book, Wiley E	astern	Ltd.	Nev	v		

	Delhi, 2000.
2	Sivayya,K.V. and Das,V.B.M."Indian Industrial Economy" S. Chand & Co., New Delhi,
	2004.
Re	eference Books
1	Devine, P.J. "An Introduction to Industrial Economics" George Allen and Unwin,
	London, 1978.
2	Sadhu, A.N., and Singh, A. "Industrial Economics" Himalaya Publishing House, Mumbai, 1998
2	Dutt and Sandra K D.M. "Indian Economy" S. Chand & Co. New Delli: (2007)
3	Duit and Sondra, K.P.W. "Indian Economy" S. Chand & Co., New Deini (2007).
4	Dhingra, I.C., "Indian Industrial Economy" Sultan Chand & Co., New Delhi (1972).

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	M	Μ	Μ	Μ	Μ	Μ	Μ
CO2	S	S	S	S	S	S	Μ	S
CO3	S	S	S	S	M	S	S	S
CO4	S	S	S	S	S	S	S	S
CO5	S	S	S	M	M	M	Μ	Μ

			r			
Course code		ENVIRONMENTAL ECONOMICS	L	Т	Р	С
Core/Elective/S	Supportive	CORE PAPER XV	4			3
Pre-requisite	, ,	This course relates to the fundamentals environmental Economic Theories and the Concepts of Economics and Ecology.	Sylla Versi	bus on		
Course Obies	timos					
The main object	ctives of thi	s course are:				
1 To know t	he basic Co	ncepts in Ecology and Economic development.				
2 To Aware	the Enviror	mental policy and its Management				
Expected Cou	rse Outcor	nes:				
On the succes	sful comple	etion of the course, student will be able:				
1 To famil	iarize with t	he theories of environmental economics.			K	.1
2 To examine the practical environmental problems and offer solutions. K2						
3 To analy	ze the regul	ations and prohibition measure to protect the environm	nent		K	3
4 To assess	s India's en	vironmental policies.			K	4
5 To measure	ure the gove	ernment activity against environmental problem			K	6
K1 - Rememb	per: K2 - Ui	nderstand: K3 - Apply: K4 - Applyze: K5 - Evaluate: I	<u> X6 – (</u>	Creat	 	
		iderbuild, ite rippi, it rindryze, ite Dividule, i		cieut	-	
Unit:1		Economics and Environment		12	hou	rs
Introduction -	Economic	s and Environment – Definition – Scope – Role	- Sig	gnific	ance	of
Environmental	Economic	s - Economic Growth and Development - Ecolog	gy ar	id Ea	cono	mic
Development -	Relationsh	ip between Environment and the Economy - Environm	ent a	nd Ec	onor	nic
System	-	and a second sec	1			
Unit. 2		Environment Quelity	1	12	hou	RC
Environment	1 Quality	Common Property Resource Characteristic Tragedy	$\int C dt$	12 mmo	ng	rs Air
- Land – Wate	er – Enerov	- Forest Resources - Wild Life - Man-Made Causes -	Envir	onme	ntal	АП
Crisis – Pollu	tion - Econ	omic Consequences			inai	
		Statut a second a subscript				
Unit:3		Urbanization		11—	hou	rs
Urbanization	- Important	Trends - Problems - Malthusian predicts - Theory of I	Demo	graph	ic	
Transition - E	ffects and F	Remedies.				
TT •4 4				11		
Unit:4	1 D 1' (Environmental Policy	6	<u> 11</u>	hou	rs
Environmenta	Polo of G	Constitutional Protection - Planning and Management -	Susta	inab	e	
uevelopment		overliment - I ublic Awareness - Law and Environmen				
Unit:5		Global Warming		12—	hou	rs
Meaning of G	lobal Warn	ning - Green House Effect - Contribution to Global Wa	rmin	g -		
Response to C	Green Hous	e Effect - Ozone Depletion - Climate Change - Contrib	ution	of Na	ation	1
and State						
Unit: 6		Contemporary Issues			2 ho	urs
	Expert lec	tures, online and offline seminars - Webinars				
		Total Lecture hours		60 -	hou	rs

Те	ext Book(s)
1	Eugine T., Environmental Economics
2	Sankaran.S., Environmental Economics
Re	eference Books
1	Varadarajan.S and Elangovan.S, Environmental Economics
2	Richardson H.W, Urban Economics
3	Karpagam.M, Environmental Economics
4	Pearce D.W. Environmental Economics, Longman Group Ltd.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	Μ	S	Μ	S
CO2	S	S	S	S	Μ	S	Μ	S
CO3	Μ	S	S	L	M	Μ	L	Μ
CO4	S	S	Μ	L	Μ	Μ	L	S
CO5	S	Μ	М	L	M	Μ	L	S



Cou	irse code	COMPUTER APPLICATIONS: TALLY PRACTICAL	L	Т	Р	С				
Cor	e/Elective/Supportive	CORE – XVI			4	4				
Pr	e-requisite	Basic knowledge of Financial Accounting	Sylla Versi	bus on						
Cou	rse Objectives:									
1 ne	To provide prostical k	s course are:								
1	To provide practical ki	iowiedge in working with MS-ACCESS								
2	2 To understand the basics of working in Tally accountingpackage									
3	To provide insights ab	out the usefulness of internet in businesspurpose								
Exp	ected Course Outcon	nes:								
On	the successful comple	etion of the course, student will be able:								
1	Understanding the ba	sics of working in MS-ACCESS using various tools			K	2				
2	Remembering the fo	rmat personal bio data using MS ACCESS tools			K	.1				
3	Analyzing business	transactions using computerized packages			K	4				
4	4 Be able to generate Accounting and Inventory Masters, Vouchers and Basic Reports					4				
5	Understand Advance	ed Accounting and Inventory in Tally. ERP 9			K	3				
K1	- Remember; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 – Evaluate								
	· · · ·									
Un	it:1	MS-ACCESS		30 -	- ho	urs				
1. P id, F Dea diffe 2. C leas Uni 3. G	Employee name, Date rness Allowance, Hou erentcategories. reate mailing labels fo t two fields with the fo versity, Address, Phon ather price, quantity a	of Birth, Department and Designation with the following of Birth, Department and Designation, Date of appoin se Rent Allowance and other deductions if any. Perfor or student database which should include at least three ollowing details: Roll Number, Name, Course, Year, C eNumber. nd other descriptions for five products and enter in the	Table college	Basi Basi eries f must Nan ss tab	the for hav hav he,	y, e at nd				
4. C	reate forms for the sin	pple tableASSETS.								
5. C	reate report for the PR	ODUCTdatabase.								
Un	it·2	TALLY		30	_ho	IIFE				
1. 0 dis 2. 1 adj 3. 1 c) 1 4. 0 5. 1 6. 7	Create a new company play the relevantresult Prepare trial balance, I ustments). Prepare inventory state Simple Average Metho Create an e-mail id and Learn how to use searce Visit your University a	y, group, voucher and ledger and record minimum 10 t s. Profit and Loss A/c and Balance Sheet (with minimum ement using (Calculate inventory by using all methods od d) Weighted AverageMethod d check the mailinbox. ch engines and visit yahoo com, rediff.com, hotmail.co and college websites and collect the relevantdata	ransac of an <u></u>) a) Fl	y five FO b	and) LI	FO				
		Total Lecture hours		60 -	hou	rs				

Te	ext Book(s)
1	Tally Education Pvt. Ltd., Official Guide to Financial Accounting Using Tally.ERP 9
	with GST
2	Soumya Ranjan Behera, Learn Tally.ERP 9 with GST, BK Publications Private Ltd,
	Bhubaneswar, 2017
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://www.youtube.com/watch?v=BUE-XJEHp7g
2	https://www.youtube.com/watch?v=0s4mKbkYJPU&t=1s
-	
3	https://www.youtube.com/watch?v=Dxcc6ycZ73M

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	Μ	S	M	S	S	S
CO2	S	Μ	S	S	M	S	S	S
CO3	S	Μ	S	S	M	S	S	S
CO4	S	Μ	S	S	Μ	S	S	S
CO5	S	Μ	Μ	S	Μ	S	M	Μ

Сог	ourse code SOFT SKILLS FOR BUSINESS L T P						
Core/Elective/Supportive			Skill Based Subject Paper - IV	2			2
Pr	e-requisite		Basic knowledge of Communication Skill	Sylla Versi	bus on		
Cou	irse Object	tives:					
1	Enable the	students to	understand the importance of soft-skills				
2	Acquire di	fferent soft	skills to be an employable person.				
3	3 Improving the competitive edge and increasing the chances of recruitment and selection.						
Exn	ected Cou	rse Outcor	nes:				
On	the succes	sful comple	tion of the course, student will be able to:				
1	Rememb	er the vario	us organizational entry level skill requirements			K	.1
2	Understa	nd the need	for different skill requirement at different occasions			K	2
3	Able to a	ppropriatel	y respond to the situation during recruitment and selec	tion		K	.3
4	Demonst	rate a good	command in work environment			K	4
5	Achieve	the desired	result of a good employability			K	.6
K 1	- Rememb	oer; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 – (Creat	e	
TI	• . 1						
Emo	otional inte tive ways t	lligence, en o relieve str	notional quotient, ability to understand, use manage ov ress, empathy and resolving conflict – Exercises	vn em	otion	s,	,
Un	it:2		Team Spirit and Growth		6—h	our	8
Te acl	am spirit, g nievement a	rowth mind and time co	lset, high performing teams, trust and mind alignment, mpliance.	, focus	s, targ	get	
Ur	it·3		Openness to Feedback		6h	our	2
Fee	edback, acc ercoming th	epting nega e shortfalls	tive feedback, improving self-awareness, criticism-ty	pes an	d		,
Un	iit:4		Adaptability		6—h	our	5
Ad	laptability, couraging c	meaning an others towar	d nature, change in thought process, willingness to tal ds open mindedness, continuous learning	ke risk	·,		
Unit:5			Work Ethics		6—h	our	8
We res	Wok ethics skills, reliability, dedication, discipline, productivity, cooperation, integrity, responsibility, professionalism						
Uni	t: 6		Contemporary Issues				
		Expert lec	tures, online and offline seminars - Webinars				
		-	Total Lecture hours		30-	-hou	rs

Te	ext Book(s)
1	Meenakshi Raman, Shalini Upadyay, Soft skills: Key to success in workplace, Cengage India Pvt Ltd., 1st Edition 2017

R	eference Books
1	Barun K. Mitra, Personality Development and Soft Skills, Oxford Higher Education, 2012
Rel	ated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://learnenglish.britishcouncil.org/skills

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	Μ	S	S	S
CO2	S	S	Μ	S	S	S	S	Μ
CO3	S	Μ	S	Μ	S	S	Μ	S
CO4	S	S	S	Μ	S	S	S	S
CO5	S	S	S	S	S	S	S	S

Core/Elective/Supportive PART-IV SKILL BASED SUBJECT PAPER IV 2 2 Pre-requisite Basic knowledge of marketing and society version Syllabus version Course Objectives: The main objectives: Syllabus version 1 Ability to develop a digital marketing plan that will address common marketing challenges 2 Ability to Articulate the value of integrated marketing campaigns across SEO, Paid Search, Social, Mobile, Email, Display Media, and Marketing Analytics. 3 Potential to recognize key performance Indicators tied to any digital marketing program 4 Calibre to improve Return on Investment(ROI)for any digital Marketing and the ability to build their own start-ups Expected Course Outcomes: On the successful completion of the course, student will be able: 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business and also design Paid ads and optimize great ad copy writing K3 3 He/She can abuild PPC campaigns and also design Paid ads and optimize great ad copy writing K3 4 He/She can build bei solary writing social media, build at emplate, Insert Content and K4 Images 5 He/She can build their own virtual organization by providing various digital marketing. FX-Understand; K3-Apply; K4-Analyze;	Course codePL T P C 1 0 1 2DIGITAL MARKETINGLTP							С
Pre-requisite Basic knowledge of marketing and society expectation Syllabus version Course Objectives: I Ability to develop a digital marketing plan that will address common marketing challenges 2 Ability to develop a digital marketing plan that will address common marketing challenges 2 Ability to Articulate the value of integrated marketing campaigns across SEO, Paid Scarch, Social, Mobile, Email, Display Media, and Marketing Analytics. 3 Potential to recognize key performance Indicators tied to any digital marketing program 4 Calibre to improve Return on Investment(ROI)for any digital marketing and the ability to build their own start-ups Expected Course Outcomes: On the successful completion of the course, student will be able: 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She cand develop a writing K2 3 Itel'she cand e-mail Marketing, social media, build at emplate, Insert Content and Images K3 4 He/She cand business goals K5 4 He/She can business goals K5 4 He/She cand co-mail Marketing, social media, build at emplate, Insert Content and Images K4 5 Ho/She can business goals K5 6 Ho/She	Core	Core/Elective/Supportive PART- IV SKILL BASED SUBJECT PAPER IV						2
Course Objectives: The main objectives of this course are: 1 Ability to develop a digital marketing plan that will address common marketing challenges 2 Ability to Articulate the value of integrated marketing campaigns across SEO, Paid Scarch, Social, Mobile, Email, Display Media, and Marketing Analytics. 3 Potential to recognize key performance Indicators tied to any digital marketing program 4 Calibre to improve Return on Investment(ROI)for any digital marketing program 5 Launch a new, or evolve an existing, career path in Digital Marketing and the ability to build their own start-ups Expected Course Outcomes: On the successful completion of the course student will be able: 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 3 He/She cand develop a compelling content strategy for all kinds of business K6 4 He/She cand build PPC campaigns and also design Paid ads and optimize great ad copy writing K3 3 He/She cando e-mail Marketing, social media, build at emplate, Insert Content and K4 Images 5 He/She cando up virtual organization by providing various kigital marketing services K5 K1-Remember; K2-Und	Pre-	requisite		Basic knowledge of marketing and society expectation	Sylla vers	ibus ion	8	
The main objectives of this course are: 1 Ability to develop a digital marketing plan that will address common marketing challenges 2 Ability to Articulate the value of integrated marketing campaigns across SEO, Paid Scarch, Social, Mobile, Email, Display Media, and Marketing Analytics. 3 Potential to recognize key performance Indicators tied to any digital marketing program 4 Calibre to improve Return on Investment(ROI)for any digital marketing program 5 Launch a new, or evolve an existing, career path in Digital Marketing and the ability to build their own start-ups Expected Course Outcomes: On the successful completion of the course ,student will be able: 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 3 He/She can build PPC campaigns and also design Paid ads and optimize great al copy writing K3 4 He/She can business goals K4 4 He/She can business goals K5 5 He/She can build their own virtual organization by providing various digital marketing services K5 1 Introduction to Digital Marketing 6—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing - SP's of Mar	Cou	rse Obje	ctives:					
1 Ability to develop a digital marketing plan that will address common marketing challenges 2 Ability to Articulate the value of integrated marketing campaigns across SEO, Paid Search, Social, Mobile, Email, Display Media, and Marketing Analytics. 3 Potential to recognize key performance Indicators tied to any digital marketing program 4 Calibre to improve Return on Investment(ROI)for any digital marketing program 5 Launch a new, or evolve an existing, career path in Digital Marketing and the ability to build their own start-ups Expected Course Outcomes: 0 On the successful completion of the course , student will be able: 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 3 Ho/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She can build their own virtual organization by providing various digital marketing services K5 K1-remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Witt:1 Introduction to Digital Marketing G—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing - 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - D	The 1	main obj	ectives of t	nis course are:				
2 Ability to Articulate the value of integrated marketing campaigns across SEO, Paid Search, Social, Mobile, Email, Display Media, and Marketing Analytics. 3 Potential to recognize key performance Indicators tied to any digital marketing program 4 Calibre to improve Return on Investment(ROI)for any digital marketing program 5 Launch a new, or evolve an existing, career path in Digital Marketing and the ability to build their own start-ups Expected Course Outcomes: 0 n the successful completion of the course, student will be able: 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She cand o-email Marketing, social media, build at emplate, Insert Content and K4 K4 Images K5 K5 KI-Leneors 5 Voltations for business K6-Create Voltations for business A He/She can build their own virtual organization by providing various digital marketing services KI-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create <t< td=""><td>1</td><td>Ability to</td><td>develop a d</td><td>igital marketing plan that will address common mark</td><td>ceting c</td><td>hall</td><td>enge</td><td>S</td></t<>	1	Ability to	develop a d	igital marketing plan that will address common mark	ceting c	hall	enge	S
3 Potential to recognize key performance Indicators tied to any digital marketing program 4 Calibre to improve Return on Investment(ROI) for any digital marketing program 5 Launch a new, or evolve an existing, career path in Digital Marketing and the ability to build their own start-ups Expected Course Outcomes: 0 In the successful completion of the course ,student will be able: 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K2 3 He/She can develop a compelling content strategy for all kinds of business K2 3 He/She can develop a compelling content strategy for all kinds of business K2 3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create K5 Viiit:1 Introduction to Digital Marketing —hours Basics of Marketing - Traditional Marketing Vs Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Digital Marketing Modules -RACER <	2	Ability to Search, So	Articulate the ocial, Mobile	ne value of integrated marketing campaigns across Sl e, Email, Display Media, and Marketing Analytics.	EO, Pai	d		
4 Calibre to improve Return on Investment(ROI)for any digital marketing program 5 Launch a new, or evolve an existing, career path in Digital Marketing and the ability to build their own start-ups Expected Course Outcomes: 0 n the successful completion of the course ,student will be able: 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 3 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 3 He/She can develop a compelling content strategy for all kinds of business K6 3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She canb oe-mail Marketing, social media, build at emplate, Insert Content and K4 K4 Images K5 K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Unit:1 Introduction to Digital Marketing Marketing - Traditional Marketing Vs Digital Marketing Modules -RACER	3	Potential	to recognize	key performance Indicators tied to any digital market	ing prog	gran	n	
5 Launch a new, or evolve an existing, career path in Digital Marketing and the ability to build their own start-ups Expected Course Outcomes: On the successful completion of the course ,student will be able: 1 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She cand o e-mail Marketing, social media, build at emplate, Insert Content and K4 Images K5 5 He/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create K6 Unit:1 Introduction to Digital Marketing G—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing. 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing - Sentimental Analysis Effective Social Media Marketing Usage -Social Media Tools Jargons </td <td>4</td> <td>Calibre to</td> <td>o improve Re</td> <td>eturn on Investment(ROI)for any digital marketing p</td> <td>rogram</td> <td></td> <td></td> <td></td>	4	Calibre to	o improve Re	eturn on Investment(ROI)for any digital marketing p	rogram			
Expected Course Outcomes: On the successful completion of the course ,student will be able: 1 Hc/She can develop a compelling content strategy for all kinds of business K6 2 Hc/She can develop a compelling content strategy for all kinds of business K6 2 Hc/She can build PPC campaigns and also design Paid ads and optimize great ad copy writing K2 3 Hc/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She cando e-mail Marketing, social media, build at emplate, Insert Content and K4 K4 1 Inages K5 6 Hc/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Unit:1 Introduction to Digital Marketing Implementation of marketing vs Digital Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism -	5	Launch a build their	new, or evol own start-u	ve an existing, career path in Digital Marketing and p	the abili	ity t	0	
Expected Course Outcomes: On the successful completion of the course ,student will be able: I 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K2 3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She cando e-mail Marketing, social media, build at emplate, Insert Content and K4 K4 Images K5 He/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create K5 Unit:1 Introduction to Digital Marketing 6—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing-SP's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing 6—hours Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strat								
On the successful completion of the course ,student will be able: Image: K6 1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can build PPC campaigns and also design Paid ads and optimize great ad copy writing K2 3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She cana develop a compelling social media, build at emplate, Insert Content and K4 K4 Images K5 5 He/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Unit:1 Introduction to Digital Marketing Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social	Exp	ected Cou	rse Outcom	les:				
1 He/She can develop a compelling content strategy for all kinds of business K6 2 He/She can build PPC campaigns and also design Paid ads and optimize great ad copy writing K2 3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She cand e-mail Marketing, social media, build at emplate, Insert Content and K4 K4 1 Images K5 5 He/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Unit:1 Introduction to Digital Marketing 6—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Channels Penta Social Elements Marketing Warketing	On t	he success	ful completi	on of the course ,student will be able:				
2 He/She can build PPC campaigns and also design Paid ads and optimize great ad copy writing. K2 3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She cand e-mail Marketing, social media, build at emplate, Insert Content and K4 images K5 5 He/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create K6 Unit:1 Introduction to Digital Marketing 6—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Marketing Usage -Social Media Tools Jargons Unit:3 Content Marketing & Automation	1	He/She	can develop	a compelling content strategy for all kinds of busines	SS		K6	
3 He/She can design suitable display ads (using tools like Canva), Publish and run ads as per business goals K3 4 He/She cando e-mail Marketing, social media, build at emplate, Insert Content and K4 K4 1 Images K5 5 He/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create K6 Unit:1 Introduction to Digital Marketing Basics of Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends 6—hours Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Marketing Usage -Social Media Tools Jargons Unit:3 Content Marketing & Automation	2	He/She c	an build PP	C campaigns and also design Paid ads and		1	K2	
4 He/She cando e-mail Marketing, social media, build at emplate, Insert Content and K4 5 He/She can build their own virtual organization by providing various digital marketing services K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Marketing Unit:1 Introduction to Digital Marketing 6—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing 6—hours Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Marketing Usage -Social Media Tools Jargons Unit:3 Content Marketing & Automation	3	He/She c and run a	an design su ads as per bu	iitable display ads (using tools like Canva), Publish siness goals			K3	
5 He/She can build their own virtual organization by providing various K5 K5 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Unit:1 Introduction to Digital Marketing 6—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Marketing Usage -Social Media Tools Jargons Unit:3 Content Marketing & Automation	4	He/She Images	cando e-mai	l Marketing, social media, build at emplate, Insert Co	ontent a	nd	K4	
K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Unit:1 Introduction to Digital Marketing Basics of Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing- Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Marketing Usage -Social Media Tools Jargons Unit:3 Content Marketing & Automation	5	He/She c digital m	an build the arketing ser	ir own virtual organization by providing various vices			K5	
Unit:1 Introduction to Digital Marketing 6—hours Basics of Marketing - Traditional Marketing Vs Digital Marketing- 5P's of Marketing-Segment, action, and Targeting - Customer Life cycle - Digital Marketing Modules -RACER Frame work - Digital Marketing Trends Unit:2 Social Media Marketing Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Tools Jargons Unit:3 Content Marketing & Automation	K1-I	Remember	r; K2- Under	stand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6-Cro	eate			
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Unit:2Social Media Marketing6—hoursMarketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Marketing Usage -Social Media Tools JargonsUnit:3Content Marketing & Automation	Basi Segr Fran	cs of Mark nent, actio ne work -]	ceting - Trad on, and Targo Digital Mark	litional Marketing Vs Digital Marketing- 5P's of Mar eting - Customer Life cycle - Digital Marketing Mod teting Trends	keting- ules -R	ACI	ER	
Marketing Approach - Gen X - Gen Y - Gen Z - Gen Alpha - Conversation Prism - Social Media Strategy- Social Media Channels Penta Social Elements (Social Talking, Listening, WOM, Feedback, Selling) Person as Influencer Marketing -Sentimental Analysis Effective Social Media Marketing Usage -Social Media Tools Jargons Unit:3 Content Marketing & Automation	Unit:2 Social Media Marketing 6—hours							
Unit:3 Content Marketing & Automation 6—hours	Marl Med WOI Soci	keting App ia Strategy M, Feedba al Media N	proach - Ger y- Social Me uck, Selling) Marketing U	X - Gen Y - Gen Z - Gen Alpha - Conversation Pris dia Channels Penta Social Elements (Social Talking Person as Influencer Marketing -Sentimental Analys sage -Social Media Tools Jargons	sm - Soo , Listen sis Effec	cial ing, ctive	e	
	Unit	t:3	Cont	ent Marketing & Automation	6—հու	Irs		

Content Marketing Landscape – Types of Content Marketing – Content Marketing Strategy -Affiliated Marketing- Content Marketing Tools - Jargon - Effective Email Marketing - Essentials in Email Marketing – Types of Emails – Email Automation- Email Marketing Metrics - Marketing Automation – Martech Landscape - Features of Marketing Automation - Choosing a Marketing Automation Platform

Unit:4

Video Marketing & Digital Marketing

6—hours

Create Economy – YouTube –YouTube Ads –YouTube Partner Program –Instagram Marketing -Live Streams – Revenue Generating Streams - So-Lo-Mo| Paid Search/PPC -Social Media Ads – Types of Google Ads - Keyword s - How do Google Ads work? - Cost & Budgets - Remarketing & Retargeting -Tools

Unit:5

Search Engine Optimization

6—hours

30—hours

SEO Fundamentals – How Search Engine On-Page – Types of Keywords - On-Page SEO - Off-Page SEO – SEO Tools – SEO Reporting - Digital Marketing Strategy for a Startup / Entrepreneur - Business Growth Opportunities | Career Growth Opportunities - Best Practices

Total Lecture hours

Text Book(s)

 1 Gupta, Seema., 2022. "Digital Marketing" McGraw Hill, ThirdEdition,, ISBN-10:935532040X, ISBN-13: 978-9355320407

ReferenceBooks

 Kagan, Jeremy & Shekhar Singh, Siddharth., 2020. "Digital Marketing:Strategy & Tactics" Wiley, First Edition, ISBN-10:9390395496, ISBN-13:978-9390395491

 Maity Moutusy., 2022. "Digital Marketing" Oxford University Press, Second edition, ISBN-10: 9354972470, ISBN-13:978-9354972478

 3 4 Hemann Chuck & Burbary Ken., 2019. "Digital Marketing Analytics" Pearson Education, Second Edition, ISBN-10: 9353430194, ISBN-13: 978-9353430191

Incorporated by Dr.R.SELVI, <u>selvirajammal@gmail.com</u>

20 PROJECT TITLES

- 1. Brand Name Creation: Create a brand name, Brand identity Design: Design a brand logo using Canva and Create an email account on Gmail to link all your project work-(brand name@gmail.com), use this email account centrally to access all tools and platforms by signing up with the created gmail id.
- 2. SocialMediaCampaign:CreateamockSocialmediacampaign-choosetheidealchannel(FB,Insta, Linkedin, Youtube etc)
- 3. Key word Research / Analysis: Use social listening tools handled in the course to identify key words for your content strategy (List down top 5 keywords and the source of SEO tools used)
- 4. Blogging: Create your first blog 500-800 words on word press blogs (grammarly, COPYAI) and promotetheblogonanyofthesocialmediaofyourchoicenotbypostingtheblogdirectlybutby creating a promo link for the blog and attract a minimum of 50 Likes on the blog.
- 5. Building a Website: Create your first website using-WIX/Canvae
- 6. Build a Landing Page: Create a landing page using mailchimp/hubspot
- Build a content marketing plan: with a focus on top3 content types (video, email, blogs, podcast etc) - based on a content marketing template from Hubspot
- Brand Promo Video: Create a 60 sec promo video for your brand using Canva, Camtasia etc and it should be a explainer video. To achieve this first write your script, then storyboard it, followed by creating an instructional design and then finally create your explainer video
- 9. Instagram Reel: Create an Instagram reel fo ryour business brand and promote it attract a minimum of 100 Likes
- 10. Hashtag Generation: Share a list of 5# Hashtags for the launch campaign, first identify the buzzing area, calculate the penetration power, build a curiosity around the Hashtag and finally release the Hashtag and make a minimum of 50 members from outside your friends and family to viral it.
- 11. Build and Email Campaign:Create a brand launch email-using Mailchimp
- 12. SEO: Build and execute the On-page SEO for your website
- 13. Create a Google Business Page
- 14. PPC Ad: Create a mock paid-ad campaign for your brand-Google Ad words
- 15. Social Ads: Create a mock sponsored post for Face book/ Instagram /Linked in
- 16. Google Analytics: Embeda Google Analytics Code on your Website
- 17. Site map: Submit your website's site map to Google Search Console
- 18. Youtube Ad: Create a mock Youtube Ad for your brand
- 19. Traffic:Generatewebsitetraffictoreachatleast500visitsbytheendofyourprojecttime

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20. Field Visit to two businesses (eg: Malabar Gold, MRF, HAP daily, Fresh works, Zoho) meet the digitalmarketingmanagersandperformacompletein-personinterviewontheirrespectivedigital marketing strategies, present the research and study in a ppt format

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	M	S	Μ	S	Μ	S
CO2	S	M	S	S	M	S	Μ	S
CO3	S	Μ	S	S	Μ	S	Μ	S
CO4	S	Μ	S	S	M	S	Μ	S
CO5	S	Μ	Μ	S	Μ	S	Μ	Μ



Соі	urse code $\begin{bmatrix} PL & I & PC \\ 1 & 0 & 1 & 2 \end{bmatrix}$	CAPITAL MARKETS	L	Τ	Р	С
Coi ive	re/Elective/Support	PART– IV SKILL BASED SUBJECT PAPER IV	2			2
Pr	e-requisite	Basic knowledge of Primary and Secondary markets	Sylla vers	bus ion		
Cou	irse Objectives:					
1 ne	Main objectives of the Ability to deep dive in	s course are:				
1 /						
2	Ability to solve the pr	oblems arising in capital markets				
5	Exposure to the Nsmar	t platform				
4	l'o acquire knowledge	to analyze the process required for capital market				
5	Ability to prepare the	evaluation report of capital market				
6 /	Ability to interpret the hrough detailed analys	Technical and Fundamental reports of the capital m	ıarket			
T						
Exp	bected Course Outc	omes:				
Un 1	the successful comple	tion of the course, student will be able:			17.	-
1	He / She can create a	blog on Trading Screen on N-Smart, create a Marl	cet		K()
	watch, and Buy / Sell	Securities He / She can track Top Gainers / Losers	•			
2	and Favourite / Desire	a Slocks	Contraa	+	K'	2
Z	Noto	order Book / Trade Book and Net Obligations - Iol	Contrac	ι	Κ.	,
3	He / She can set up s	urveillance (Simulation of Exchange)			К2	
4	He / She can become	a sub-broker/distributor with a firm and grow in li	fe		K4	1
5	He/ She becomes an e	exchange-approved authorized person under an exi	sting SFI	RI	K'	5
U	Registered broker after	er clearing NISM 5A. Once he accumulated capita	l, he can	51		
	become a direct broke	er also, thus giving opportunities to many young po	ople for			
	self-employment.					
K 1	I-Remember; K2-Un	derstand; K3-Apply; K4-Analyze; K5-Evalua	te K6-C1	reate	e	
TTr		rview of Securities Markets		6	hou	rc
Over	view of Securities Ma	kets - Products Participants and Functions - Prim	arv Marl	v cets	-	1.5
Seco	ndary Markets - Deriv	atives - Regulators - Exchanges - Depositories - I C	learing	1015		
Corp	orations - Regulatory	Framework - Reforms - Technology Adoption & I	Disruptio	n -		
Inves	stor Protection - Tradir	g Vs Investment		-		
Ur	nit:2	Primary Markets		6—	hou	rs
Func	tions of Primary Mark	ets - Market Participants - Types of Issues - Factor	s Impact	ing		
Mark	tets & Share Price - Pr	ivate Placement Vs Public Issue - Book Building -	Credit R	atin	g -	
Merc	hant Banking - On-lin	e IPOs- Demat Issues - Virtual Debt Portals - ADF	ls/GDRs	-		
Publi	c Issues - Euro Issues	- Debt Issues - Collective Investment Vehicles viz	., MFs, V	CFs	5,	
CISs	- EIFs - Valuation of	Snares Selection Uniteria for Investing in Stocks				

Unit	3 Secondary Markets	6hours				
Functio Settlem Practice Transac	unctions of Secondary Market - Market Participants- Membership - Listing - Trading and ettlement Mechanism - Trading Technology - Trading Rules - Insider Trading, Unfair Trade tractices - Takeovers – Buy-back - Turnover - Market Capitalization - Prices - Liquidity - ransaction Costs - Risk Management - Indices - Right & Obligations of Investors /Traders					
Unit	4 Government Securities Markets & Derivatives Markets	6—hours				
Indian I NDS-O - Instrui Particip Equity I Clearing Compai	Debt Market - Basics of Bond Market - Primary Market - Secondary Ma M, CCIL - Wholesale Debt Market (WDM) Segment of NSE Corporate nent Offered - Risk & Return - Products, OTC vs Exchange Traded De ants, and Functions - Trading Mechanism - Membership - Contract Spe Derivatives - Debt Derivative - Commodity Derivatives - Currency Der g & Settlement - Open Interest & Volume - Implied Volatility - Risk M ison Across Assets Classes	rket : NDS, Bond Market rivatives - cification - ivatives anagement -				
Unit	5 Mathematics, Statistics, and Emerging Trends	6—hours				
Measur High- F Product	es of Central Tendency- Risk and Return in Stocks & Derivatives - Alg requency Trading Robot Advisory Gift City FinTech & Disruptions Ne s & Way Forward	o Trades - w				
	Total Lecture hours	30—hours				
Text 1 Se Ed	Book(s) Ekharan Dibin., 2021." Capital Market And Investment Management" N dition, ISBN-10: 1639408150, ISBN-13: 978-1639408153	lotion Press, First				
Refei	enceBooks					
1	Strumeyer Gary., 2017." The Capital Markets: Evolution of the Financ First edition, ISBN-13: 978-1119220541	ial Ecosystem" Wiley,				
2 F	abozzi Frank J. ,2015. " Capital Markets Institutions, Instruments, and The MIT Press, Fifth edition, ISBN-10: 026202 978-0262029483	Risk Management" 9480, ISBN-13:				
3	McInish Thomas H, 2000. "Capital Markets" Wiley-Blackwell., First 0631211608, ISBN-13: 978-0631211600	edition, ISBN-10:				
incorporat	ed by Dr.K.SEL VI, <u>selvirajammal@gmail.com</u>					

20 PROJECT TITLES

- 1. You are an SME in the garment segment. Prepare a techno commercial note to be presented to a Merchant banker, whom you intend to approach for SME listing in NSE
- 2. Prepare a techno commercial note using the First Chicago method of valuation to seek funding from a venture capital firm
- 3. You are providing a cable service network in your town. You plan to evolve into a data network

provider in your town. Prepare a pitch deck to be presented to potential investors

- 4. You are the CFO of an Indian MNC operating in different countries. Evaluate the commercial feasibilities of raising money from international capital markets through equity and bond markets
- 5. You have got 5 years of experience in the broking industry as a dealer in a broking firm. You have an investor who is ready to fund and start a broking firm. Evaluate the various business considerations including manpower, Infra, Capital, and compliance requirements to be considered before starting the business
- 6. XYZ's father is getting a retirement benefit of Rs 50 lakhs. Do a risk-return analysis and come out with a solution for a probable investment allocation
- 7. You need to build a small excel financial model to value a fair price of a company's share price using discounted cash flow method
- 8. You are a Research analyst in your Organization in the Equity vertical. Prepare a sector report on the Indian IT industry and its near-term outlook
- 9. Use the EIC framework and do a detailed analysis of the valuation of an IT company and prepare a research report to be circulated to your retail clients
- 10. You are bullish on the IT sector in India. You intend to invest in a mid-cap IT company. Evaluate your investment decision using the DCF method and the Relative valuation method
- 11. You are a relationship manager in a broking firm. Your client is into leather garment exports to Walmart US. Annual turnover of 165 Cr Rs Rupee equivalent in USD billing (USDINR = Rs 82.5 Rs/USD). Make a presentation to the MD of the company on hedging solutions offered by your firm and compare it with the solutions offered by banks
- 12. You are an options trader on the prop desk of a broking firm, trading in Nifty and Bank Nifty options. You do multi-leg strategies trade. Evaluate the alternative of using algo trading to address your existing pain points in your trading process
- 13. You are working in Treasury dealing room of a bank. Your GM Treasury is asking you to evaluate the arbitrage opportunities prevailing between Indian OTC markets and the Exchange-traded derivatives segment of NSE of Indian Rupee pairs. Prepare a report with the last 6 months' data and suggest your recommendations on the pairs that can be considered
- 14. Download the IPO prospectus of a company from the SEBI website. Evaluate the critical factors (qualitative and quantitative) to be considered before you decide to invest in the IPO as a retail investor
- 15. You are a bullion dealer in your city. Critically evaluate with practical examples, the ways in which you can overcome price risk management of gold using Exchange traded Gold Derivatives
- 16. The recent pandemic and the subsequent geopolitical tensions have made stock prices volatile. Analyze the Value at Risk for that single stock portfolio that you plan to build using the Historic simulation method by analyzing the last 10 years' daily stock price data. You plan to invest 2 Lakhs Rupees

- 17. Download the Annual report FY 2021-22 for a listed large-cap company (nonbanking company) and come out with the key findings of general ratios and the various valuation ratios
- 18. Real estate prices are still hovering high. It is not affordable for all to own commercial properties in Main metros. (Real Estate Investment Trusts) REITs can help in providing value for such people. Evaluate the advantages of REITs when compared to Real estate funds by taking a real-life comparison
- 19. You plan to invest in gold for long-term investments. Critically evaluate the various modes in which gold can be invested, and the cost-benefit and unique features of the various modes
- 20. Your client is holding Govt bonds in his portfolio. Interest rates continue to go northwards. Make a product proposal to your client on the ways in which he can use Interest rate Futures offered in the Exchange platform for price risk management

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	Μ	S	Μ	S	Μ	S
CO2	S	Μ	S	S	Μ	S	Μ	S
CO3	S	Μ	S	S	Μ	S	Μ	S
CO4	S	Μ	S	S	Μ	S	Μ	S
CO5	S	Μ	Μ	S	Μ	S	Μ	Μ

Course cod	e TNASDCL-	OPERATIONAL LOGISTICS	L	Т	P	С	
Core/Electi ive	Core/Elective/SupportPART- IV SKILL BASED SUBJECT2ivePAPER IV						
Pre-requisite Basic knowledge of Export and Imports Syllabus version							
Course Obj The main obj	ectives: ectives of thi	s course are:					
¹ Offer an in	ndustry releva	nt, application oriented skill development course to s	tudents.				
2 Acquaint	the students v	with the competency needs of the industry.					
3 Expose st	udents to diff	erent Operational aspects of Logistics and Supply Cha	uin.				
4 Understar	nd the concept	ts of logistics, 3PL, 4PL and intermodal transportation	n.				
5 Acquaint t type of tra	hem with basi ansportationn	c knowledge of warehousing, freight forwarding and di nethods	fferent				
6 Understar Entry	nd the formali	ties of custom and clearing of goods and procedures of l	Billof				
7 Understar Commerc	nd the concep vial Terms	ts of export and import documentation and Internatio	mal				
European de C	aura Outa						
On the succ	essful comple	omes: etion of the course, student will be able:					
1 Ableton	erform basic F	XIM operations in office, customs clearance at field			K	1	
and freig	ht forwarding				IX.	L	
2 Underst	and and follo	w the basic corporate practices.			K2	2	
3 Able to p	prioritize and	execute tasks within scheduled time limits.			<u>K</u> .	3	
4 Carry ou	t basic operation	onal functions of in warehouse and working with knowle	dgeof		K4	1	
reverse l	ogistics and i	ntermodal transportation			17.		
5 Evaluate	the Logistics	Operations			K.)	
KI-Remen	10er; K2- 010	derstand; KS-Appry; K4-Anaryze; KS-Evaluate					
Unit:1 O	bjectives, R	ole of Logistics operations and system concept	t (<u> </u>	hou	rs	
Overview & D	escription - In	troduction - Logistics: A System Concept - Logistics I	Junctions	5 -			
Logistics Man	agement - Ol	ojectives - Role of Logistics in the Supply Chain -	Transpo	ort			
Corporation of	India - India	an Road Freight Index - Catalysts for Outsourcing	Trends	-			
Benefits of Lo	gistics Outso	purcing - Third Party Logistics - Fourth Party Logistic	cs - Care	er			
	ogistics and S	uppry Cham – Summary					
Unit:2	Inv	entory and Warehousingoperations	(<u> </u>	hou	rs	
Unit Overview	w & Descrip	tion -Inventory Management and Supply Chain -	Invento	ry			
Functionality -	Inventory Rel	ated Cost - Inventory Controls - Case Study					
Unit:3	Fre	ight and Transportation operations		6-	—ho	ours	
Unit Overvie Containerizati	w & Descri on-Logistica	ption - Freight Management - Transportation N 1PackagingforCars-Summary	etworks	-			

Unit:4	Information Technology in Logistics operations	6—hours
Unit Overvi	ew & Description - Information Technology and Logistics - Cor	nsignment
Note – Ente systems - Sea	erprise Resource Planning Systems – Logistics Management In a Borne Trade and Ports in India – Summary	formation
Unit:5	6—hours	
Overview & Transportation Vehicles Action movement – O	Description - Statutory Provisions Dealing Transport - Object of M on Act 1993 – Appeal - Contents of Multimodal Transport Docume t 1988 - Driving Rules - Insurance – EXIM documentation – EX Customs clearance – Verify GST application and documents Summary	ultimodal ent - Motor IIM cargo
	Total Lecture hours	30—hours

Text	t Book(s)
1	Dr.Krishnaveni Muthiah "Logistics Management and World Sea Borne Trade" Himalaya
	Publishing House Ltd. Mumbai.
Refe	erenceBooks
1	Vinnod V Sople "Logistic Management" Pearson Education.
2	Batlacharya S.K. "Logistic Management" Sultan Chand Publication
3	Ambert "Strategic Logistic Management' Tata Mc Graw Hill. 4 th Edition, 2000 New Delhi.

Incorporated by Dr.R.SELVI, <u>selvirajammal@gmail.com</u>

INDUSTRY USECASES

- 1. Taking the case of Dabbawalas of Mumbai discuss the following points in the class room.
 - i. Evolution
 - ii. Preparation of lunchboxes.
 - iii. Man power & its management.
 - iv. Identification of dabbas for its consumer & its confirmation.
 - v. Warehousing of dabbas.
 - vi. Information of lunch box delivery man.
 - vii. Collection of boxes after its delivery.
 - viii. Uninterrupted supply in odd weather and season.

2.Discuss/Role model on a nearby company in your town/city and prepare a note on its customer information flow for its demand to be processed.

3.Discuss/Role model on a business unit/company nearest to your town/city and prepare anote on logistics system concept adoption activity.

4.Discuss the case study of Tata Motors Ltd. in the classroom and tell students how to improve inventory management.

5.Discuss/Role model a warehouse of any product in your city/town and prepare a note on inventory cost involved in the product so that it can be discussed in the classroom.

6.Discuss / Role model a Pharma Store and prepare a note on selective control technique like

Page 71 of 91
ABC & VED used by the store for its product to discuss in the classroom.

7.Discuss / Role model a packaging company in your city / town and prepare a note on

material used in making different package to discuss in the classroom.

8.Collect pictures of different containers through various media and paste in a file. Discuss it in the classroom telling its utility.

9. Prepare a note on different types of packets found in home while buying goods and discuss the material used in making it.

10.On the basis of utility of following technology in different industries. Discuss it in the classroom

- b. GPRS
- c. Barcode
- d. RFID
- e. IoT

11.Discuss/Role model a transport company in your city/town to collect the transport documents and discuss its uses in the classroom.

12. Prepare a case on export documentations and discuss the classification of following:

- f. Commercial
- g. Statutory
- h. Documents for claiming export benefits

13. Visit nearby railway station in your city/town and prepare a note on how goods carriage is done through multimodal transportation.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	Μ	S	Μ	S	Μ	S
CO2	S	M	S	S	Μ	S	Μ	S
CO3	S	Μ	S	S	Μ	S	Μ	S
CO4	S	Μ	S	S	M	S	Μ	S
CO5	S	Μ	М	S	Μ	S	Μ	Μ





Course code		ECONOMICS FOR INVESTORS	L	Т	Р	С						
Core/Elective/S	Supportive	ELECTIVE PAPER - 1 - GROUP - B	5			4						
Pre-requisite	e	The course deals with the various investment avenue and its practice applications	Sylla Versi	bus ion	·							
Course Objec The main obje	tives: ctives of thi	s course are:										
1 To underst	and concept	s of saving and investments										
2 To probe th	2 To probe the various investment avenue and its practice applications											
3 To enables various investment markers and its features												
4 To Know	4 To Know the economic fundamentals and the Business Environment											
5 To underst	and various	investment methods and its strategies										
	0.1											
Expected Cou	irse Outcor	nes:										
On the succe	ssiul comple	etion of the course, student will be able:			12	1						
l Describe	the types an	d importance of savings and investments.			K	.1						
2 Explain the	ne available	for investment avenues			K	2						
3 Understar	nd the opera	tions of different types of investment markets.			K	.3						
4 Evaluate	the economi	c fundamentals and information.			K	.5						
5 Construct	objective e	nabling investment plans, strategy, evaluate and restruc	cture	if	K	.6						
required.				~								
KI - Remem	ber; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	<u> 16 - (</u>	Create	e							
TT •4 1		T , 1 ,		15	1							
Unit:1	restments	Introduction Magning Types Importance Role of Sovings and	Invo	15	nou	rs the						
development of Distributional	of Individual Role	ls- Distributional Role of Investment – Income and We	alth -	- Equ	itabl	e						
Unit:2		Investment Avenues		15	hou	rs						
Traditional 1 Investment –	nvestment Direct Inve	 Cash, Deposits, Gold, Silver, Commodities Reastment – Portfolio Investment -Insurance -Mutual Fund 	l Est ds -Tı	ates. aded	Mo Fun	dern ds.						
Unit:3	Ι	nvestment Markets		14	hou	rs						
Capital Mark Market - Con	et – Share N nmodities M	Aarket – Primary and Secondary – Bond Markets- Mon Iarkets – Foreign Exchange Market - Hedging - Future	ey M s and	arket Optio	– M ons	etal						
Unit:4		Economic fundamentals for Investors		15	hou	rs						
Domestic Ec Capita Incon Political and Growth and Between Cor	Onne-4Economic fundamentals for investors15 noursDomestic Economic Environment: Economic Growth and Development – National Income – Per Capita Income, Unemployment – Taxes, Trade Cycle – Infrastructure – Physical and Economic. Political and Social Environment- International Economic Environment: International Economic Growth and Development, Trade, Foreign Exchange - Global Recession- Oil Market – War Between Countries											
Unit.5		Investment Methods and Strategies		14	hou	r¢						
Cash Flow – Management	L Capital Gai	n – Risk Rewarding – Asset Accumulation - Risk Distr	ibutio	n - n	Asse	<u> </u>						

Unit: 6	Contemporary Issues	2 hours
	Expert lectures, online and offline seminars - Webinars	
	Total Lecture hours	75hours

	Textbooks
1	Ken McElroy, (2004) The ABCs of Real Estate Investing, Hachette Book Group USA
2	Esme Faerber (2013), All about Stocks , TataMGraw Hill, New Delhi
3	Christopher D. Piros, Jerald E. Pinto(2013), "Economics for Investment Decision
	Makers: Micro, Macro, and International Economics, Workbook", Wiley, 2013
4.	John Calverley, "The Investor's Guide to Economic Fundamentals", Wiley, 2003
5	Howards Marks, Mastering The Market Cycle:Getting the Odds on Your Side", John Murray
	Press, 2018

	Reference Books						
1.	Robert T. Kyosaki,(2014) Guide To Investing Business Plus ISBN: 9780446589161						
2.	BenjamineGraham(1949), The Intelligent Investor, Harper&Brothers						
3.	Mary Buffett and David Clark(2002), The New Buffettology (Simon and Schuster)						
4.	John C Bogle(2017) The Little Book of Common Sense Investing: The Only Way to Guarantee						
	Your Fair Share of Stock Market Returns, Wiley Publications						
5.	William J. O' Neil (2009) How to Make Money in Stocks: A Winning System in Good Times						
	and Bad, Fourth Edition McGraw Hill Education						
	Constant production of the second sec						
	Web Resources						
1.	https://www.capitalmarket.com/						
2.	https://www.icmagroup.org/						
3.	https://www.nseindia.com						
4.	https://www.stockbrokers.com/guides/beginner-investors						
5.	https://www.nasdaq.com/articles/10-best-stock-trading-websites-for-beginners						

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3
CO 5	2	2	3	3	3	2	3	3
Weightage	14	14	15	15	14	14	15	15
Weighted	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.00
percentage of								
course								
contribution to								
POS			A 15	STOLEN I.				

S-Strong-3 M-Medium-2 L-Low-1

5 1

2019

Course code		AUDITING	AUDITING L T									
Core/Elective/	Supportive	ELECTIVE PAPER - 1 - GROUP - B	5			4						
Pre-requisite	, ,	This course is mainly educating the students on Auditing, investigation and essential qualities of	This course is mainly educating the students on Auditing, investigation and essential qualities of Version									
		auditor.										
Course Objectives:												
The main object	1 To import knowledge shout Principles and methods of auditing											
1 To impart	knowledge a	bout Principles and methods of auditing.										
 3 To provide the knowledge of youcher of cash transactions and trading transactions 												
Expected Cou	rse Outcome	28:										
On the succes	sful completi	on of the course, student will be able:										
1 bility to p	erform the an	alysis of various types of audit.			K	.1						
2 o understa	ind the audit j	procedure and audit programmes.			K	2						
3 o analyze	the vouching	and impersonal ledgers.			K	4						
4 o gain kno	wledge and t	o evaluate Verification and valuation of assets and	iabiliti	ies.	K	3						
5 o construc	t the knowled	lge of Rights and duties of company Auditor – Liab	ilities	of	K	.6						
K1 Romom	Auditor.	larstand: K3 Apply: K4 Applyza: K5 Evaluata:	<u>V6 (</u>	roote	<u> </u>							
	Jei, K2 - Olio	erstand, K3 - Appry, K4 - Anaryze, K5 - Evaluate,	NU - (
Unit:1		Objectives of Auditing		15	hou	rs						
Definition – c	biectives of	Auditing – Advantages and limitations of audit	ing –/	Auditi	ing a	and						
investigation -	Qualities of	an Auditor – Detection of errors and frauds. Vari	ous ty	pes c	of au	dit:						
Continuous au	dit – Final au	dit – Interim audit – Balance sheet audit.	-	-								
Unit:2		Audit Procedure		15	hou	rs						
Audit procedur	e – Planning	of audit – Audit programme – Audit note book – A	udit wo	orking	g							
papers – Intern	al control and	d internal check – Internal check as regards cash, wa	iges, sa	ales, e	etc.,							
Position of exte	ernal Auditor	as to Internal audit.		15	hou	MG						
Vouching – M	 eaning _ Defi	nition – Vouchers – Vouching of cash transactions	_ Trad	13 ing	nou	15						
transactions –	Impersonal le	dgers.	ITuu									
Unit:4	Verificat	ion and Valuation of Assets and Liabilities		14	hou	rs						
Verification an	d valuation o	f assets and liabilities – Auditor's position – Audito	rs duty	/ rega	rdin	g						
depreciation –	Reserves and	provisions.		14								
Unit:5	· · · · · · · · · · · · · · · · · · ·	Company Audit		14	hou	rs						
Liabilities of	lt – Appointn Company Au	ditor Audit of Share Capital Audit of Share Trai	compa	iny A Audit	of	or						
Computerized	Accounts – e	-audit.	13101.7	suult	01							
Unit:6		Contemporary Issues		2	hou	rs						
Expert lecture	es, online and	offline seminars – webinars										
		Total Lecture hours		75 -	-hou	rs						
Text Book(s)												

1	Auditing S.Sudharsanam : S.Chand & Co.Ltd., Dew Delhi, 2006
2	R.G.Saxena: Principles and Practice of Auditing Himalaya Publishing House, Mumbai, 2002
3	R.Sharma: Auditing Lakshmi Narain Agarwal Educational Publishers, Agra, 2000.
D	afaranga Baalys

Reference Books

1 .N.Tandan : A Hand book of Practical

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	М	S	S	М	S	S	М	S
CO2	М	S	S	S	S	S	М	S
CO3	М	S	S	М	M	S	М	М
CO4	М	S	S	М	М	S	М	М
CO5	М	M	S	L	S	М	L	L



Сот	ırse code	e code BASIC ECONOMETRICS L T				Р	С					
Cor	e/Elective/	Supportive	ELECTIVE PAPER 1: GROUP- C	5			4					
Pr	e-requisite		This course is mainly educating the students on the Econometrics research tools, how it can be used to estimate and test economic relationships.	Sylla Versi	bus on							
Cou	Course Objectives:											
I he main objectives of this course are:												
1	I I o make the students to understand the tools of econometrics and applying them in practice.											
2	2 The methods thoughts in the course can be employee in the business discipline and in social science											
	discipline.											
Exp	oected Cou	rse Outcome	28:									
Or	the succes	sful completi	on of the cour <mark>se, student w</mark> ill be able:									
1	Ability to	perform analy	sis of economic data based on a broad knowledge of the	simple		K	.1					
2	Provide ba	asic knowledg	e <mark>of the statistical foundations of regression</mark> analysis with	OLS.		K	3					
3	Provide ba	asic knowledg	e of hypothesis testing for statistical inference.			K	4					
4	Basic kno variables	wledge of how Heterocedasti	y to detect and treat violations of OLS assumption, such a city and Multicollinearity, and Autocorrelation	s omit	ted	K	.3					
5	Ability to	perform analy	sis of variance and co variance to determine the variabilit	y, bety	ween	K	.6					
K ¹	I - Rememb	per: $K2 - Und$	erstand: K3 - Apply: K4 - Apalyze: K5 - Evaluate: 1	K6 - (Treate	;						
						·						
Ur	nit:1		Introduction		15	hou	rs					
Def Met con	inition, Sec thodology c cepts of Pop p (u)	ope and Divis of Econometr pulation and	io <mark>ns of Econometrics – Objectives and u</mark> ses of Econo ics: Specification, and Estimation and Evaluation of Simple regression functions – Meaning and Significa	ometri estima ance o	ics – ates – f the	Bas	ic r					
Ur	nit:2		Estimation and Testing		15	hou	rs					
Cla	ssical Linea	r Regression	Model and its assumptions – Method of Ordinary L	east-S	quare	e (OI	LS)					
to e only	stimate OL y) – Propert	S estimators	- Statistical tests ('t' and 'F') of OLS estimates (Simstimates.	ple re	gress	ion	ŕ					
Ur	nit:3		Types of Estimation and Errors		15	hou	rs					
Poi	nt and Inter	val estimation	n - Confidence interval approach - Statistical proper	ties of	f poir	ıt						
esti	mate – Typ	es of errors a	nd their implications in the hypothesis testing for sta	tistica	l infe	renc	e.					
Ur	nit:4		Violation of OLSM Assumptions		14	hou	rs					
Nat (He	ure, sources terocedastic	s, consequent city Multi co	es and methods of detection and solutions to problem solution relation) of single equation re	ns Poress	ion m	node	1					
(any	y one metho	od of detectio	n and solution).	-51000		loue						
U	nit:5	Fun	ctional Forms and Dummy Variables		14	hou	rs					
Cor (log	cepts of fur -log function	nctional form on) – ANOV	s and Measurement of growth rate (log-lin function) A and ANCOVA models on dummy variables.	and e	lastic	ity						
TT	.:	[Contourn anoun Instance		-	h						
UI Ev	nert lecture	s online and	offline seminars – webinars		2	nou	rs					
ĽX		, on the allu	omme semmars – weomars									

		Total Lecture hours	75hours			
Te	ext Book(s)					
1	Damodar N.Gujarathi:	Basic Econometircs, McGraw-	-Hill, Inc.			
2	Damodar N.Gujarathi:	Essential of Econometircs, Mc	Graw-Hill, Inc.			
3	Madalla G.S:	Econometrics McGraw-Hill, In	Econometrics McGraw-Hill, Inc.			
Re	eference Books					
1	Damodar N.Gujarathi: Econometric	cs by Example, Palgrave Publications.				

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	М	S	S	S	L	М	S	S
CO2	S	М	M	S	S	L	М	М
CO3	S	S	S	S	S	S	S	М
CO4	М	L	S	М	М	М	М	S
CO5	S	М	М	S	М	S	M	S



Course code MODERN BANKING AND L T							С
Core/Ele	ctive/S	unnortive	INSUKAINCE FLECTIVE PAPER - II · GROUP- A	4			3
Pre-rec	nuisite	upportive	The course deals with the financial instruments,	Svlla	bus		5
	1		banking practices and major Insurance Legislation in India	Versi	on		
Course	Object	tives:					
The man	n objec	$\frac{1}{1}$ the state of the sta	s course are:				
$\frac{1}{2}$ To a	scern 1	the modern	banking and insurance course	natio			
2 10 enables the learners understand new linancial instruments and banking practices							
4 To ut	iow in idersta	$\frac{1000}{1000}$ of $\frac{100}{1000}$	rance contract and risk management				
5 To kr	now th	e Maior In	surance Legislation in India and its growth				
U TO M	10 10 11		Saturio Degistation in maia and its growin				
Expecte	d Cou	rse Outcon	nes:				
On the	succes	sful comple	etion of the course, student will be able:				
1 Rec	ollect	the financia	l tools and methods of banking operations			K	.1
2 Und	lerstan	d and descr	ibe the central banking operations.			K	2
3 Exp	lain va	rious types	of insurances in Practice			K	3
4 Eva	luate t	he insuranc	e policies and recommend the right policies for use			K	4
5 Eva	luate t	he macro le	vel implications of the various insurances			K	6
$\frac{5}{K1 - Re}$	ememb	$\frac{1}{1000} \mathbf{K}^2 = \mathbf{K}^2$	derstand: K3 - Apply: K4 - Applyze: K5 - Evaluate: 1	K6 - (reate		.0
N1 - IX		KI , KZ - OI	iderstand, KS - Appry, K4 - Anaryze, K5 - Evaluate, I	XU - (Jican	0	
Unit:1			Banking		12	hou	rs
Commer	cial Ba	anks- Funct	ions of Commercial Banks- Private and Public Sector	Bank	s- Cre	edit	
Creation Methods	- Com	mercial Ba	nks's role- Payment Banks- functions- Digital Bankin	g-Too	ols –		
Unit.7			Central Banks		12	hou	re
Functio	ns of	a Central	Bank – Objectives of Monetary Policy – Effects	and	Limi	tatio	ns _
Narasin	nhan C	Committee I	Report.	unu	2	carro	
			•				
Unit:3		I	ntroduction to Insurance		11	hou	rs
Insuran	ce: Me	aning and	Types- Role of Insurance in Economic Development -	Saving	g and		C
Investm	nent As	spects – Soc ad Ganaral	tial Vs Private Insurance: Life Vs Non-Life Insurance.	Class	sifica	tion	of
LIIC, II			insurance i oncies.				
Unit:4		Iı	usurance Contract and Risk Management		12	hou	rs
Meanin	g of c	contract- In	surable Interest- Utmost good faith- Principle of Ir	ndemr	nity a	ind o	other
Princip	les-Ris	k Manager	nent: Definition and Types- Management of Risk th	rough	Iden	tifica	ation
Analysi	is and (Control.					
Unit:5		Insurance	Business in India		11	hou	rs
	-	T '14		/1 T			
Major I	nsuran	ce Legisiat	ion- Growth of Industry- Agricultural Insurance- Heal	th Ins	uranc		Act
Remsul			ivate insurance companies- insurance Act. Lie Act, C	JIC A	οι. IN	DA	πτι.
Unit: 6			Contemporary Issues			2 ho	urs
		Expert lec	tures online and offline seminars - Webinars				
			Total Lastware hours		60	har	LINC .
			1 otal Lecture nours		00 -	-1100	175

	Textbooks
1	Srivastava P.K. (2013), Banking Theory and Practice, Himalaya Publishing House, New
	Delhi
2	Heffernan, S. (2005). Modern Banking. John Wiley & Sons
3	Tyagi, C. L., & Tyagi, M. (2007). Insurance Law and Practice. Atlantic Publishers & Dist.
4	J. N. Jain, "Modern Banking and Insurance : Principles and Techniques", Regal publications, 2008
5	Prasada & Radhika Rao, "Trends of Modern Banking", BSP Publication, 2016
	Reference Books
1.	Finsinger J. and M.V. Pauly (Eds.) (1986), The Economics of Insurance Regulation: A Cross National Study, Macmillan London.
2.	Sethi, J., & Bhatia, N. (2012). Elements of Banking and Insurance. PHI Learning Pvt. Ltd
3.	Lewis, M. K. (1992). Modern Banking in Theory and Practice. Revue Economique, 203-227.
4.	Tripathy, N. P., & Pal, P. (2005). Insurance: Theory and practice. PHI Learning Pvt. Ltd.
5.	Muraleedharan, D. (2014). Modern Banking: Theory and Practice. PHI Learning Pvt.
	Ltd
	Web Resources
1.	https://www.irdai.gov.in
2.	https://rbi.org.in
3.	https://www.studocu.com
4.	https://www.indiapost.gov.in/Financial/Pages/Content/pli.aspx
5.	https://licindia.in/

Mapping with Programme Outcomes

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	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	3	3	2	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	15	14	14	15	14	14	15
Weighted percentage of course	3.0	3.0	2.8	2.8	2.8	2.8	2.8	3.00
contribution to POS								

S-Strong-3	M-Medium-2	L-Low-1

Cou	irse code		HEALTH ECONOMICS	L	Т	Р	С	
Cor	e/Elective/	Supportive	ELECTIVE PAPER - II : GROUP- B	4			3	
Pr	e-requisite	, ,	This course is mainly educating the students on the demand for and supply of health care, Indian health care system and health financing and insurance.	Sylla rsi	bus ion			
Course Objectives:								
The	The main objectives of this course are:							
1 Understand the importance of Health Economics and Health indicators.								
2	2 Understand the institutional framework for health Care.(i.e., Consumption, Provision and Financing).							
3	Understan	d the health s	tatus of population at National and State Level.					
			1 1					
Exp	ected Cou	rse Outcome	25:					
On	the succes	sful completi	on of the course, student will be able:					
1	It explain and Inequ	ns the history uality among	and need of Health Economics, Issues in Health card	e, Pov	erty	K	.1	
2	List out th	ne Resource all umer Choice, I	ocation between Health Care and other commodities, He Factors Influencing Demand for Medical Care.	alth C	are	K	2	
3	3 Discuss the Hospital Production Function, Objectives and constraints of a hospital firm, (K4) Optimization of hospital size, Break Even and Shut down Conditions							
4	4 Explains Health Care Markets, Economic Rationale of Government Intervention, Indian K3 Health Care Systems							
5	Discuss th	ne objectives o evelopment in	f Health finan <mark>cing, Fiscal functions of Government, Impo</mark>	ortance	e of	K	.5	
K1	- Rememb	per; K2 - Und	lerstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	<mark>K6</mark> - (Create	2		
		1						
Un	it:1	1.1	Introduction		<u>12</u>	hou	rs	
Hist	ory of Hea	Ith Economic	s – Need for Health Economics – Issues in Health C	are –	Healt	h –		
Eco	nomic Link	kage – Povert	y and Inequality in the prevalence of diseases among	g diffe	erent			
Un	nit.7		Demand for Health Care		12	hou	rs	
Priv	vate and Pu	blic goods –	Resources allocation between health care and other	comm	oditie	nou	1.5	
rele	vance of co	nsumer dem	and theory to health – Demand for medical care – Fac	etors I	nflue	ncin	σ	
Den	and for m	edical care	and theory to hearth Demand for medical care 1 a	2013 1	mue		5	
Un			Supply of Health Care	1	12	hou	re	
	111.5		Supply of Health Care		14	nou	15	
Hea	lth as a dur	able good – I	Hospital Production Function – Objectives and const	raints	ofal	iosp	ital	
firm	ı – substitu	tion of inputs	- vertical integration - Optimization of hospital size	e – Ho	ospita	$l\cos^{1}$	ts	
and	and efficiency – break-even and shut-down conditions – equilibrium quality.							
Un	nit:4		Health System		11	hou	rs	
Hea	lth care, a u	unique comm	odity - health care markets (Physician, hospital, inp	uts, dı	ug,			
insu	rance & te	chnology) – i	nequity, limitations of the price system & market fai	lure –	Ecor	nomi	c	
ratio	onale for G	overnment in	tervention – government failure – Indian health care	syste	m –			
Acc	essability.		Health Financia J. Land		11	b -		
			meaning financing and insurance		11	nou	rs	
UDJ	ecuves of I	mancing – af	ternative innancing strategies – fiscal functions of G	overni	nent -	-		

dev surp	development finance – community finance – Private insurance – Social insurance – Consumer surplus and health insurance –Importance of Human Resource Development in economic growth.							
Uı	Unit:6 Contemporary Issues 2 hours							
Ex	Expert lectures, online and offline seminars – webinars							
		Total Lecture hours	60hours					
Те	ext Book(s)							
1	Pushpalath	a Pattnaik : Health Economics, Black Prints, New Delhi, 2013.						
2	Rana H.P.	S : Health Economics, Alfa Publications, New Delhi,	2009.					
3	Raman Kutty V : A Primer of Health Systems Economics Allied Publishers Pvt. Ltd, New Delhi, 2010.							
4	Renuka De New Delh	evi.V & : Health Economics: Issues and Challenges, Deep & i, 2011.	b Deep Publications,					
5	Gowhar Jł	aan. M : Principles of Health Economics, Sarup Book Publ	ishers					
		Sundar I Pvt. Ltd, Delhi, 2009.						
Re	eference Bo	oks						
1	James W. Ltd, New	Henderson : Health Economics and Policy, CENGAGE Lea Delhi, 2011.	arning India Pvt.					
2	Dash L.N New Delh	: Economics of Infrastructure: Growth and Development, R i, 2007.	Regal Publications,					
		Conversion Pring						
		a laster l						

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	2L	S	S	S	M	S	S
CO2	S	S	M	М	S	L	М	М
CO3	S	S	S	М	М	S	S	М
CO4	М	М	S	L	М	М	М	S
CO5	S	M	М	S	S	S	М	S

1205

						-	- A					
Cou	rse code			JO	URNAL	ISM		12	L	Т	Р	С
Core	e/Elective/S	upportive		EL	ECTIVE –	II – GRO	UP - C	1211	4	31		3
Pro	e-requisite		The conte students to communic functions	nt of the o underst cation an of press.	course ain and the nat ad the re	ns at ma ture of m esponsibi	king the ass lities an	d	Syllal Versi	bus on	7	
Cou	rse Obiect	tives:	0.0					180	1			
The	main object	tives of thi	s course ar	e:	Wat-		- 3.8					
1	Understan	d the charac	cteristics of	commur	ication.	Lineof, I		10				
2	Imparting	knowledge	about the c	ualities o	of a reporte	er and nev	vspaper r	nanage	emen	t.		
				_	_			_				
Exp	ected Cou	rse Outcor	nes:									
On	the succes	sful comple	etion of the	course, s	tudent wil	l be able:						
1	To under	stand the in	nportance c	of mass co	ommunicat	tion					K	1
2	To assess	the import	ance of the	Indian p	ress						K	2
-	To evami	ine the sour	ces of new	and the	importanc	e of corre	snonden	te			K	3
1	To exalu				Importanc		sponden	15				
4	To evalua	ate the purp	ose of Edit	ors							N	.4
5	To analys	se the impo	rtance of no	ewspaper	managem	ent					K	.6
K1	- Rememb	oer; K2 - U1	nderstand;	K3 - App	ly; K4 - A	nalyze; k	K5 - Evalu	uate; K	(6 - C	create	•	
							-					
Un	it:1		Ι	Mass Col	nmunicat	ion				12	hou	rs
Jou	ırnalism - H	History of J	ournalism -	History	of Indian H	Press - Re	sponsibil	ities a	nd fu	nctio	ns of	f .,
the p	the press - News agencies - freedom of the press - various professional organizations - press council										ıncıl	
- pre	2ss laws – f	ree lance J	ournalism.	1		ave.	24	150				
Unit:2 Iournalism 12 hours												
Un	it:2			Jou	rnalism	-				12	hou	rs
Un	it:2 Nature	Scope and	process of 1	Jou nass com	rnalism municatio	n - Theor	ies of ma	uss Cor	nmur	12 nicati	hou on -	rs
Un SM	it:2 Nature ICR model	Scope and j	process of 1 nication - T	Jou nass com ypes of (rnalism municatio Communica	n - Theor ation - Cl	ies of ma	ss Cor	nmur Com	12 nicati mun	hou on - icatio	on
Un SM - B	it:2 Nature ICR model arriers - M	Scope and of commu ass media c	process of 1 nication - T of Commun	Jou nass com ypes of C ication -	r nalism municatio Communic Merits and	n - Theor ation - Cl Demerit	ies of ma naracteris s.	ss Cor tics of	nmur Com	12 nicati mun	hou on - icatio	on
Un SM - B	it:2 Nature ICR model arriers - M	Scope and p of communiass media c	process of 1 nication - T of Commun	Jou nass com ypes of (ication -	rnalism municatio Communic Merits and	n - Theor ation - Cl I Demerit	ies of ma naracteris s.	ss Cor tics of	nmur Com	12 nicati mun	hou on - icatio	on
Un SM - B Un	it:2 Nature ICR model arriers - M it:3	Scope and j of commu ass media c	process of 1 nication - T of Commun	Jou nass com ypes of C ication - Sources	rnalism municatio Communic Merits and of news	n - Theor ation - Cl I Demerit	ies of ma naracteris s.	ss Cor tics of	nmun Com	12 nicati mun 12	hou on - icatio	on Irs
Un SM - B Un N	it:2 Nature ICR model arriers - M it:3 Jews - Defi	Scope and of commu- ass media c inition of no	process of 1 nication - T of Commun ews - Source	Jou nass com ypes of (ication - Sources es of nev	rnalism municatio Communic Merits and of news vs - Report	n - Theor ation - Cl Demerit	ies of ma naracteris s. alities of a	tics of	nmur Com	12 nicati mun 12 Rout	hou on - icatio hou ine	on Irs
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Te	ext Book(s)						
1	Theory and practice of Journalism - B.N.Ahuja, subject publications, New Delhi.						
2	Professional Journalism - M.V. Kawath, Vikas Publishing House.						
Re	Reference Books						
1	News Reporting and Editing - K.M. Srivastava Sterling						
2	News Writing and Reporting - James M Neal & Suzanne S. Brown, Surjeet Publication						
3	Modern Newspaper practice - F.W. Hodgson Heinemann, London.						
4	Journalism in Modern India - Roland E. Wolsey						
5	The Indian Press - Dr. S.P. Sen						
6	The Press - M. Chalapathi Rao						
7	Truth about Indian Press - J.N. Sahni						

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	Μ	S	М	S	Μ	S	Μ	S
CO2	Μ	Μ	S	S	M	S	Μ	S
CO3	Μ	S	S	S	S	S	Μ	S
CO4	Μ	S	S	Μ	S	S	Μ	S
CO5	S	Μ	S	S	S	S	S	S

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

SULLINGON SAND

Сог	ırse code		RURAL ECONOMICS	L	Т	Р	С		
Cor	e/Elective/S	upportive	ELECTIVE -III – GROUP -A	4			3		
Pr	e-requisite		The course deals with the problems of rural economy and its remedies.	urse deals with the problems of rural economy Syllabus remedies.					
Course Objectives: The main objectives of this course are:									
1 The objective of the course is to provide the students with a thorough knowledge and									
understanding of the foundations of rural economics,									
2	Impart kno	owledge on	concepts of the dimensions of rural development						
3	Understan	d the challe	nges in rural development strategies for rural upliftment	nt.					
Б		0.1							
Exp	ected Cou	rse Outcon	nes:						
Or	the succes	stul comple	etion of the course, student will be able:			17	1		
l	Understa	nd the conc	epts and problems of rural economy.			K	.1		
2	Analyse growth.	the structur	e of rural unemployment and the technology used for r	ural		K	.2		
3	Examine unemploy	the extent or yment.	of rural indebtedness, and the measures to remove rura	1		K	.3		
4	Evaluate Alleviatio	the causes on Program	and consequences of Rural Poverty, and describe the P	overt	у	K	.4		
5	Improve	the knowle	dge about the tribal economy and analyse the tribal agr	icultu	ıral	K	.6		
K	- Rememb	ber; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	<u> </u>	Create))			
		The		1					
Ur	nit:1		Rural Economy		12	hou	rs		
Rur Eco Mai	al economy nomy and V keting –Fa	y: Character Urban Econ rm and Nor	istics – Need for the study of Rural economy – Compa omy. Concepts: Barter System, Non Monetized Sector n-Farm Income - Problems of Rural Economy.	rison [.] –Ag	of R ricult	ural ural			
	C								
Ur	nit:2		Rural Unemployment		12	hou	rs		
Ru En mo	ral Unemp nployment obile, succe	loyment: Ty Generation ssful progra	ypes, Structure, Causes of Unemployment and Remedi Programmes: NRLM, MGNREGA. Technology for ru ammes.	al me Iral gr	asure owth	s. Rı : IC]	ıral Γ,		
Ur			Pural Cradit		12	hou	re		
	III.J Dural cradit	+ Dural inc	Autal Crean	Pom	12	Du Ru	rol		
Cre	edit - Nee	d for Cred	lit – Sources of Rural Credit, Unorganized credit:	Moi	ieures iev 1	ende	ers.		
Or	ganized: In	digenous B	ankers - Co-operatives, Commercial banks - Regional	Rural	bank	IS -	101		
Mi	cro-Finance	e Institutior	ns (MFIs) – NABARD						
Ur	nit:4		Rural Poverty		11	hou	rs		
Ru	ral Poverty	: Causes an	d Consequences - Rural Poverty Line – Estimates of p	overt	y –Fa	ctors	5		
inf	luencing R	ural Povert	y – Removal of Poverty - Rural Development in India.						
T.	.:		Tribal Factories		11	h			
	ihal Econor	nv: Charact	teristics of Tribal economy – Distribution of Tribal por	mlati		Indi	13 a		
11.		ing. Churde	population of the population o	, and the		mul	~		

T. Con

- Tribal Agriculture and allied activities: Horticulture, Floriculture, Animal husbandry, Forest and forest collection. Problems in Tribal areas - Role of NGOs.

Uni	it: 6	Contemporary Issues	2 hours				
		Expert lectures, online and offline seminars - Webinars					
	60hours						
Te	ext Book(s)						
1	Sankaran	5. Rural Economics, Margham Publications					
2 Ruddar Dutt and K.P.M Sundaram, 2014, Indian Economy, S. Chand & Co Ltd, New Delhi.							
Re	eference Bo	oks					
1	Mohapatro House, Ne	o, P.C. (1987) Economic Development of Tribal India, Ashish F w Delhi.	Publishing				
2	 Sahu, N.C. (1986): Economics of Forest Resources: Problems and Policies in a regional, B.R.Publishing Corporation, New Delhi. 						
3	Reddy, K. V. (2012). Agriculture and Rural Development, Himalaya Publishing house						
4	Choudrey,	C.M. Rural Economics Sunshine Publications, Jaipur 2009					
		A REAL					

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	M	S
CO2	S	S	S	Μ	S	M	Μ	S
CO3	S	S	S	S	S	М	Μ	S
CO4	S	S	S	Μ	S	S	Μ	S
CO5	Μ	M	Μ	Μ	S	Μ	Μ	S

Course code			ACCOUNTANCY FOR ECONOMICS	L	Т	Р	С			
Core/Elective/Supportive			ELECTIVE –III – GROUP -B	4			3			
Pre-requisite The c			The course deals with the simple concepts of	course deals with the simple concepts of Syllabus						
~		_	Accountancy	Versi	ion					
Cou	Course Objectives:									
1	To make t	ne students	to understand the basic concepts of Accountancy							
2	To encour	age students	s to learn modern techniques of Accountancy used in F	Econo	mics					
	10 0110001									
Exp	ected Cou	rse Outcon	nes:							
On	the succes	sful comple	tion of the course, student will be able:							
1 To understand the time value of money										
2	To analys	se the finan	cial statement and the comparative statement analysis			K	2			
3	To assess	the fund fl	ow statement			K	3			
4	To exami	ne the acco	unting ratios			K	4			
5	To evalua	ate the elem	ients of cost			K	6			
K1	- Rememb	er: K2 - U1	nderstand: K3 - Apply: K4 - Analyze: K5 - Evaluate: 1	K6 - (Create	<u> </u>				
		,				-				
Un	it:1		Time value of money		12	hou	rs			
Pres	Time va ent value o	alue of Mor f a Single A	ey - Future value of a Single Amount - Future value o Amount - Present value of an Annuity.	f Anr	nuity	-				
Un	it:2		Financial statement		12	hou	rs			
Fin Pro	ofit and Los	ement analy ss Account	sis - Basic concepts underlying Financial Accounting - Comparative statement analysis - Common Size Ana	- Bala lysis :	ance S and T	Shee rend	t			
An	alysis.									
Un	it·3		Fund flow statement		11	hou	rs			
F	funds flow	statement -	Meaning - Uses - Preparation of Fund flow statement		11	nou	1.5			
Un	it:4		Accounting ratios		12	hou	rs			
Ac Lir	counting R nitation of	atios for Bu Ratio Anal <u>y</u>	siness Decision - Meaning - Importance - Types - Sin ysis.	nple R	latios	-				
T Y	• •									
	it:5	lant Cart	Elements of cost		11	hou	rs			
Ele	ements of C	ost - Cost s	sneet - Simple Problems.							
Uni	t• 6		Contemporary Issues			2 ho	urs			
Um			turos online seminera. Webinera			2 110	urs			
		Expert lec			()	h = -				
			I otal Lecture nours		00 -	-nou	rs			
1 e	xt Book(s)	of Access	Maria NI Vinovalesce DI Mari O. 17 I N.	oncia						
1	Financial	01 Accounting	ancy - N. vinayakam, P.L. Mani & K.L. Nag	arajai	1					
2 3	S N Mahe	swari	- Advanced Accounting							
5		0 W UI I								

Re	Reference Books					
1	R.L. Gupta - Advanced Accounts					
2	Dr. S.N. Maheswari - Principles of Management Accounting					
3	S.P. Jain and Narang -Advanced Accounts					
4	T.S. Grewal -Principles of Accounting					
5	M.C. Shukla and Grewal- Advanced Accounts					
6	Pillai and Bhagavathi - Management Accounting					

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	Μ	S	Μ	Μ	S
CO2	S	S	Μ	Μ	S	Μ	S	S
CO3	S	S	Μ	S	Μ	S	Μ	S
CO4	S	S	S	S	Μ	S	S	Μ
CO5	S	Μ	S	M	M	S	Μ	Μ



Cou	urse code		FINANCIAL MARKETS	L	Т	Р	С			
Cor	e/Elective/S	upportive	ELECTIVE –III- GROUP - C	4			3			
Pr	e-requisite		This course deals with the financial system, money market, capital market and stock Exchange and its regulation.	Sylla Versi	bus on					
Cou	urse Object	tives:								
	main objec			1 /	<u> </u>					
1	sound corr	orate capit	al structure	leip to	IOST	r				
2	To learn th	ne procedur	e regarding trading on stock exchanges through on-lin	e tradi	ing					
3	3 To know the progress made in de-mat trading during recent years									
Exp	pected Cou	rse Outcor	nes:							
Or	n the succes	sful comple	etion of the course, student will be able:							
1 To understand the financial concepts, financial instruments and the financial market K in India										
2	To analys	se the mone	ey market in India			K	2			
3	To exami	ine the capi	tal market in India and its growth			K	3			
4	To assess	s the stock e	exchange in India and its trading			K	4			
5	To evaluate	ate the regu	lat <mark>ion st</mark> ock exchange and its i <mark>mpac</mark> t o <mark>n share</mark> price m	oveme	ents	K	.6			
K	I - Rememb	oer; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create	;				
Fina Fina and Mar	Financi ancial Asse ancial Instru Instrument rket, Global	al System ets – Finan uments – Fi s in Money Financial	in India – Functions – Structure – Development – F cial Intermediaries, Financial Markets, Financial Ra nancial Market – Concept, and Constituents – A brief Market, Capital Market, Debt Market, Foreign Excha Markets.	Inanciates of Idea of Idea of nge, I	f Ret f Ret of the Deriva	once urn Play ative	pts: and /ers s			
U	nit:2	5	Money market		12	hou	rs			
M Ma an an	oney Marko arket. Com d Features o d New Yorl	et – Definit mercial Bill of Indian M k.	tion – Features – Objectives – Importance – Compo s Market. Treasury Bill Market – Money Market Instr oney Market – Recent Developments Global Money I	sition: rument Market	Call ts – S ts – L	Mo truct ondo	ney ture on			
Ur	nit:3		Capital market		11	hou	rs			
(Capital Mar	·ket – Mean	ing and Definition – Characteristics – Functions – Im	oortan	ce –					
Evolution and Growth – Constituents Measures of Reactivation – Measures of Investor										
Ev	olution and	Growth –	Constituents Measures of Reactivation – Measures of	Invest	or					
Ev Pro	olution and otection – R	Growth – Gecent initia	tive in the Indian Capital Market.	Invest	or					
Ev Pro	rolution and otection – R	Growth – Clecent initia	tive in the Indian Capital Market.	Invest	or 11	hou	rs			
Ev Pro	olution and otection – R nit:4	Growth – Gecent initia	Stock Exchange	Invest	or 11	hou	rs k			
Ev Pro Ut Ne	olution and otection – R nit:4 ew Issues M schanges – 6	Growth – Gecent initia	Sonstituents Measures of Reactivation – Measures of tive in the Indian Capital Market. Stock Exchange Secondary Market: Recognition of Stock Exchanges – n – Listing of Securities – Advantages of Listing - Dr	Invest Servic	or 11 ces of ks –	hou `stoc	rsk			
Ev Pro Ut Ne Ex Re	olution and otection – R nit:4 ew Issues M cchanges – (egistration c	Growth – Growth – Growth – Growth – Growth – Growthan Strand Stra	Stock Exchange Secondary Market: Recognition of Stock Exchanges – n – Listing of Securities – Advantages of Listing - Drading in a Stock	Invest Servic awbac ock Ex	or 11 ces of ks – cchan	hou stoc	rs k			
Ev Pro Ut Ne Ex Re	olution and otection – R nit:4 ew Issues M cchanges – (egistration c	Growth – Gecent initia	Secondary Market: Recognition of Stock Exchanges n – Listing of Securities – Advantages of Listing - Drackers – Procedure – Kinds- Method of Trading in a Stock	Invest Servic awbac ock Ex	or 11 ces of ks – cchan	hou stoc	rs k			
Ev Pro Un Ne Ex Re Un	olution and otection – R nit:4 ew Issues M cchanges – (egistration c nit:5	Growth – Gecent initia	Stock Exchange Secondary Market: Recognition of Stock Exchanges – n – Listing of Securities – Advantages of Listing - Drabkers – Procedure – Kinds- Method of Trading in a Stock Regulation of stock exchange	Invest Servic awbac ock Ex	11 ces of ks – cchan 12	hou stoc ge.	rs k			

Internet Stock Trading – Demat and On-Line Trading Index Calculations – BSE – Sensex & Nifty – Foreign Institution Investments and its impact on share price movements

Uni	it: 6	Contemporary Issues	2 hours				
		Expert lectures, online and offline seminars – Webinars					
		Total Lecture hours	60 –hours				
Τe	ext Book(s)						
1	Dr.S. Guru	usamy - Financial Services and Marketing, Vijay Nicole					
2	Imprints P Himalaya	rivate Ltd., Chennai, 2004 Gordon & Natarajan - Financial Mar Publishing House, Mumbai, 2003	kets and Services,				
Re	eference Bo	ooks					
1	Sri Ram K	hanna: Financial Markets in India & Protection of					
	Investors,	New Century Publications, Delhi, 2004					

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	M	S	Μ	Μ	S
CO2	S	S	М	М	S	M	S	S
CO3	S	S	Μ	S	M	S	Μ	S
CO4	S	S	S	S	M	S	S	Μ
CO5	S	Μ	S	Μ	Μ	S	M	Μ



(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 - 982)

Coimbatore - 641 046, Tamil Nadu, India

Program Educational Objectives (PEOs)							
The B. A. English Literature program will enable the students to							
PEO1	To prove competency in the domain knowledge/area and language proficiency						
PEO2	Analyse the societal needs and issues through the literary perspective and to Practice lifelong learning for enhancing the ethical values of the society						
PEO3	To develop efficiency in LSRW skills and present themselves as efficient language trainers						
PEO4	To produce noble research works						
PEO5	Improve their understanding about various socio- cultural aspects and find employment in media, freelance writing, content writing and teaching.						
PEO6	Improve the possibilities of their employment in various sectors						
PEO7	Understand the requirements of the industry and Prepare themselves to face the challenges of competitive environment						



Program Specific Outcomes (PSOs)								
After the successful completion of B.A. English Literature program, the students are								
expected								
PSO1	To demonstrate their competency in the domain area							
PSO2	To analysis the literary texts, with a critical insight							
PSO3	To impart the critical evaluation on the literary texts							
PSO4	To present the learned ideas							
PSO5	To assess their communicative competency							
PSO6	To understand the role of a literature student in shaping the course of the society							
PSO7	To analyse the impact of literature on the society							
PSO8	To comprehend the ethical quality of a literary text							
PSO9	To acquire the ability in understanding the lifelong learning							
PSO10	To produce effective projects							



Program Outcomes (POs)							
On suc be able	On successful completion of the B.A. English Literature programme, students will be able to						
PO1	Prove their knowledge and skills in Language and Literature.						
PO2	Prove his proficiency in Listening Speaking Reading Writing.						
PO3	Analyse a literary text of any genre like poetry, drama, prose, short story and fiction.						
PO4	Apply the knowledge of literary theories in analyzing the literary text.						
PO5	Write simple poems, short stories and essays.						
PO6	Work as a leader and work in a team effectively in the fields related to Language and Literature.						
PO7	Understand the need for lifelong learning and hone the required skills related to the industry.						
PO8	Analyse the impact of literature on society and work for the betterment of the society.						



BHARATHIAR UNIVERSITY: COIMBATORE 641 046

B.A.**English Literature for Affiliated Colleges** (For the students admitted during the academic year 2023 – 24 onwards)

Part		Hours		Credit			
	Title of the Course	/Week	Durat	Maxi	Maximum Marks		
			ion in	CIA	CEE	Total	
	FIR	 ST SEN	HOURS MESTER				
I	TAMILI	6	3	25	75	100	4
Π	ENGLISH I	6	3	25	75	100	4
Ш	CORE I – PROSE I	5	3	25	75	100	4
Ш	CORE II – FICTION I	5	3	25	75	100	4
III	ALLIED I – Social History of	6	3	25	75	100	4
137	England		2		50	50	2
1 V	Environmental Studies	2	3		50	50	2
	lotal	30		125	425	550	22
T	TAMIL II	ND SE	MESTER	25	75	100	4
п		0	3	25	25	<u> </u>	4
П	Effective English: Language	1 4		25	25	<u> </u>	2
11	Proficiency for Employability	Constant of the second		23	25	50	2
	http://kb.naanmudhalvan.in/Special:	100	in start				
	Filepath/Cambridge Course Details	RATHIA	R UNIVER	in the second			
	<u>.pdf</u>		imbatore	3en			
111 	CORE III – POETRY I	EDUCAT	T的贝包3山TP	25	75	100	4
1111 	CORE IV – DRAMA I	5	3	25	75	100	4
111	ALLIED II – History of	6	3	25	75	100	4
	English Literature	2	2		50	50	2
1 V	Value – Education – Human Rights	20	3		30	550	2
	1 otai THI	D SEI	MESTER	130	400	330	22
T		6	3	25	75	100	4
II	ENGLISH III	6	3	25	75	100	4
III	CORE V – PROSE II	4	3	25	75	100	4
III	CORE VI – FICTION II	4	3	25	75	100	4
III	ALLIED III – Literary Forms	5	3	25	75	100	4
IV	SKILL BASED SUBJECT I – PAPER 1- Language skill I	3	3	25	25	50 [@]	2
IV	Tamil ^{**} /Advanced Tamil [*] (OR) Non -Major Elective – I (Yoga for Human Excellence) [*] / Women's	2	3	50		50	2

	Rights [*]						
	Total	30		200	400	600	24
	FOU	RTH SI	EMESTER				
T		5	3	25	75	100	Δ
1 11		5	2	25	75	100	-
		3	3	25	75	100	4
111	CORE VII – POETRY II	4	3	25	/5	100	4
111	CORE VIII – DRAMA II	4	3	25	/5	100	4
<u> </u>	ALLIED IV –Literary Criticism	4	3	25	75	100	4
IV	SKILL BASED SUBJECT II- Language skill II	3	3	25	25	50 [@]	2
IV	Office Fundamentals: Digital	3	-	25	25	50#	2
	Skills for Employability						
	al:Filepath/Microsoft Course Det						
	ails.xlsx		கழகம்				
	Tamil ^{**/} Advanced Tamil [*]	\$2	3		50	50	2
	(OR) Non -Major Elective –	1:17 16					
	II-	Lan					
	(General Awareness ^{*)}	Providen					
	Total	30		175	475	650	26
	FI	TH SE	MESTER	E.			
III	CORE IX – ENGLISH	6	inbat 3	25	75	100	4
	LANGUAGE TEACHING	இந்தப்ப சம்மடிகா	HITODIT 2 LUIT 27				
III	CORE X – INDIAN WRITING	6	3	25	75	100	4
	IN ENGLISH						
III	CORE XI –	5	3	25	75	100	4
	AMERICAN						
	LITERATURE						
III	CORE XII –	5	3	25	75	100	4
	COMMONWEALTH						
III		5	2	25	75	100	1
		<u> </u>	3	25	75	100 50 [@]	4
IV	SKILL BASED SUBJECT III. Study of	3	5	25	25	50°	2
	English Phonetics- I						
	Total	30		150	400	550	22
<u> </u>			1	1		1	
	SI	ХТН					
	SEM	ESTER					
III	CORE XIII – SHAKESPEARE	6	3	25	75	100	4

III	CORE XIV – GENDER	6	3	25	75	100	4
	STUDIES						
III	CORE XV– INDIAN	5	3	25	75	100	4
	LITERATURE IN ENGLISH						
	TRANSLATION						
III	ELECTIVE –II	5	3	25	75	100	4
III	ELECTIVE –III	5	3	25	75	100	4
IV	SKILL BASED SUBJECT	3	3	25	25	50 [@]	2
	IV- Study of English						
	Phonetics- II						
IV	Employability Readiness	-	-	-	_	-	-
	http://kb.naanmudhalvan.in						
	/BharathiarUniversity (BU						
)						
v	Extension Activities ^{**}		-	50		50	2
	Total	30		200	400	600	24
	10181	50		200	+00	000	24
	Grand Total	140	180	965	2535	3500	140

*No Continuous Internal Assessment (CIA). Only University Examinations.

** No University Examinations. Only Continuous Internal Assessment (CIA).

@ University semester examination will be conducted for 50 marks (As per the existing pattern of examination) and the marks will be converted to 25 marks.

Naan Mudhalvan Course: CEE will be assessed by Industry for 25 marks and CIA will be done by the course teacher

List of Elective P	apers	の な) の は し に の の の の の し し に 前 参 か ・ 「 参 か ・ 「 の う の ・ し い 市 参 か ・ ・ し い 市 多 か ・ ・ を ・ し い に あ の し 、 し い に あ の し 、 し い に う の 、 の の の の の 、 の 、 の の 、 の 、 の 、 の 、 の の の の の の の の の の の の の
ELECTIVE	A	ENGLISH FOR COMPETITIVE EXAMS
В		STUDY OF INDIAN THEATER
С		PUBLIC SPEAKING
ELECTIVE	A	COMMUNICATIVE ENGLISH
	В	FUNDAMENTALS OF COMPARATIVE LITERATURE
	C	WRITING SKILLS
ELECTIVE	A	INTRODUCTION TO LINGUISTICS
	В	STUDYING NOVELS
	C	TRANSLATION TASKS

FIRST SEMESTER

Сот	ırse code		PROSE I	L	T	Р	C	
Со	e		Core I	5		-	4	
Pre	-requisite		Basic knowledge of English prose	Syllabı Versioi	yllabus 2023- 2024			
Co	ourse Obj	ectives:						
The	main obje	ectives of this	course are to:					
Gai App	n knowled oly the var	ge on the Englished styles in v	glish Prose of different ages vriting and improve language skills					
Ex	spected Co	ourse Outcon	nes:					
Or	n the succe	ssful comple	tion of the course, student will be able to:					
1	Compre	Comprehend prose passages K1, K2						
2	Enhance	e reading skil	&K3					
3	Analyze	he structure and style of Prose pieces K4						
4	Create s	simple paragr	aph	K6				
K	I - Remem	ıber; K2 - Un	derstand; K3 - Apply; K4 - Analyze; K5 - Ev	aluate; K	6– Cre	eate		
Uı	nit:1		Combatore			15hou	irs	
1	. The Suite	or andPapa	EDUCATE TO ELEVATE					
2	. TheSnipe	er						
Uı	nit:2					15hou	irs	
$\begin{vmatrix} 1\\2 \end{vmatrix}$. A Handfu Two Gen	al ofDates tlemen ofVer	701 9					
U	nit:3					15hou	ırs	
1	. Know W	hen to say "It	's None of YourBusiness"					
2	. How to E	scape from I	ntellectual Rubbish					
Uı	nit:4					15hou	irs	
	 A Littl The Set 	le Bit of Wha	t youFancy kion					
Uı	nit:5					15 ho	ours	
1	. Humaniti	es vsScience	S	I				
2	. The Beau	ity inBlack						
			Total Lecture hours					

Τ	ext Book(s)
1	CRUISE A Journey Through Prose Cambridge University Press
R	leference Books
1	The Literary Heritage: A New Anthology of Prose and Short Story by Hari Mohan Prasad, Ivan Khristo Masih, Chakradhar Prasad Singh, Motilal Banarsidass PublishingHouse
R	celated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	http://users.bergen.org/raybat/prose.html
	https://www.mlbd.in/products/the-literary-heritage-a-new-anthology-of-prose-and-short-story-
	hari-mohan-prasad-ivan-khristo-masih-chakradhar-prasad-singh-9788120829213-8120829212

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	L	М	S	М	S	М	М	L
CO 2	L	S	L	S	S	М	L	М
CO 3	L	М	S	L	M	L	М	L
CO 4	М	М	M	M	S S	M	М	М



Course code		FICTION I	L	T	Р	C	
Core	1	Core II	5		-	4	
Pre-requi	site	Basic knowledge of English Fiction.	Syllab Versio	us n	202	3-2024	
Course O	bjectives:						
The paper a students and	ims at introc alyse various	lucing the students comprehend to the loss aspects of fiction like plot, character, te	ong narra chniques	tive. To setc.	make	the	
Expected	Course Out	comes:					
On the suc	cessful com	pletion of the course, student will be able	e to:				
1 Under		K2					
2 Identif	y the techni		К3				
3 Analy	se various th		K4				
4 Evalua	K5						
K1 - Reme	ember; K2 -	Understand; K3 - Apply; K4 - Analyze;	K5 - Ev	aluate;	K6 - (Create	
Unit:1		The second se	M		15	hours	
Jane Eyre -	Charlotte B	ronte.	Λ				
Unit:2		Page Combatore			15	hours	
Kenilworth	- Sir Walter	Scott					
Unit:3					15h	ours	
Oliver Twis	st - Charles I	Dickens					
Unit:4					15	hours	
Far From th	e Madding	Crowd - Thomas Hardy					
Unit:5		15 hours					
Lord of the	Flies - Willi	am Golding					
		Total Lecture	hours	75hours			

Т	Text Book(s)						
1	Jane Eyre - Charlotte Bronte, Penguin Classics						
2	Kenilworth - Sir Walter Scott, Penguin Classics						
3	Oliver Twist - Charles Dickens, Fingerprint Classics						
4	Far From the Madding Crowd - Thomas Hardy, Penguin Classics						
5	Lord of the Flies - William Golding, Faber Classics						
R	Reference Books						
1	Critical Approaches to Literature, David Daiches, Kessinger Publishing.						

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

1 https://books.google.co.in/books/about/Critical_Approaches_to_Literature.html?id=UV2X QAAACAAJ&redir_esc=y

2 https://www.mooc-list.com/course/how-read-novel-futurelearn

CO S	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	М	L	S	M	М	L	M
CO 3	S	М	S	M	М	Μ	S	M
CO 3	L	M	S	RANLAR	IN PS	ਤੇ M	L	M
CO 4	M	M	S		M Gold	L	L	M

EDUCATE TO ELEVATE

Cours code	Course code		SOCIAL HISTORY OF ENGLAND	L	T	P	C				
Cor	·e		Allied I	6	- 4						
Pr	e-requ	iisite	Basic knowledge on History of England.	Syllab Versio	Syllabus Version						
Co	ourse (Objectives:		1							
The To e Eng To s	paper expose lish sc show h	's objective is the students to the ociety. how the literary w	ne history, ways and manners, customs and rorks correspond to the changes in the soci	d habits ety.	of the						
Ex	Expected Course Outcomes:										
On	the su	ccessful complet	ion of the course, student will be able to:								
1	Unc	lerstand the impa		К2							
2	Inter	link the history o	f England with British English Literature			K3					
3	Ana	lyse the socio-cul	tural aspects of the society on Literature]	K4					
4	Eval	uate the literary v	work by considering its historical aspects]	K5					
K 1	l - Ren	nember; K2 - Un	derstand; K3 - Apply; K4 - Analyze; K5 -	Evalua	te; K6 -	– Creat	te				
Un	nit:1		Coimbatore Col			18 ho	ours				
1. Tl 2. T	heRena heRef	aissance ormation.	EDUCATE TO ELEVATE								
Un	nit:2					18 ho	ours				
1.Th 2.Co 3.Ci	ne Spa oloniza ivil Wa	nish Armada ation ar									
Un	nit:3					18 ho	ours				
1.Re	estorati	on in England		I							
2.Ar	nerica	n war of Independ	dence								
Un	nit:4					18 ho	ours				
1.Tl 2.Tl	1.The Agrarian Revolution 2.The Industrial Revolution										

	Unit:5		18 hours								
]	1 The ReformBills 2 The Development of Education in Victorian period										
	3 WorldWars										
					Т	otal Lectu	re hours		90 hours		
	Text Boo	ok(s)									
1	1 Social History of England: by A. G. Xavier										
	I										
	Reference	e Books									
1	Soc	cial History	of Englar	nd, Dr. A. S	hanmugak	ani, Manin	nekala Puł	olishing H	ouse		
2	Soc	ial History	of Englar	nd, Padmaja	a Ashok, O	rient Black	Swan				
	1										
	Related	Online Co	ntents [M	OOC, SW	AYAM, N	PTEL, We	bsites etc	2.]			
1	https://	onlinecours	es.nptel.ac.	in/noc20_hs	52/preview	ST STILL					
	Course Designed By:										
 Г					A COLOR		9				
	COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		
	CO 1	C	М	M Offer	Coimbator	MGa	т	т	C		

	3	IVI	IVI ~		IVI			3
CO 3	S	М	М		EVATE M	М	М	S
CO 3	М	L	М	М	L	М	М	S
CO 4	М	L	S	М	М	М	L	S

SECOND SEMESTER

Cou	ırse code	rse code POETRY – I L T P				C		
Core		I	Core III	5	-	-	4	
Pre	-requisite		Basic Knowledge of Poetry.	Syllab Versio	us on	202 202	2023- 2024	
Cou	ırse Objec	tives:						
To m To m	ake the stu take the stu	dents to comp dents familiar	with different types of poetry					
Exp	the success	ful completion	s:					
	1 Coin knowledge of poetry of different ages							
2	Understand the literary terms and devices							
2	Understand the literary terms and devices							
3	Analyse	a poem	Completion constraints and				K4	
4	Learn ne Poems	ew dimensions	s in connecting emotions and languages and cro	eate sim	ple		K6	
K1	- Remembe	er; K2 - Unde	rstand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K6	– Cre	eate		
Uni	t:1				15	Shou	irs	
1	. Good Mo . One Day	orrow - John I wrote her N	Donne Name – EdmundSpenser					
Uni	t:2				15	Shou	Irs	
1. 2.	Sonnet 18 The Temp	8 – WilliamSh ptations – Joł	akespeare mMilton					
Uni	t:3				15	Shou	I rs	
1. 2.	The Tyger To Sleep -	: – WilliamBl – WilliamWo	ake rdsworth					

Un	it:4		15Hours				
1. 2.	Kubla Kh Ode to a S	an - Samuel TaylorColeridge Skylark - Percy ByssheShelley					
Unit:5			15Hours				
1	. Ode to A	utumn – JohnKeats					
2	. The Lotu	s Eaters - Lord AlfredTennyson					
		Total Lecture hours	75hours				
Tex	xt Book(s)						
1	ELIXIR An Anthology of Poems Emerald Publication						
Ref	ference Bo	oks					
1	M.H.A	brams (Ed), The Norton Anthology of English Literarature					
	1	Se and a set					
Rel	lated Onlin	e Contents [MOOC, <mark>SW</mark> AYAM, NPTEL, Websites etc.]					
1	https://www.poetryfoundation.org/search?query=Sonnet+18+-+William+Shakespeare+						
2	https://kupdf.net/download/norton-anthology-of-english- literature_596d23c5dc0d60035ba88e76_pdf						
		A Distance of the second secon					
Cou	urse Design	ed By:					

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	М	М	L	М	L	L	М
CO2	М	М	S	M	L	М	S	L
CO3	М	L	М	M	S	S	L	S
CO4	L	М	L	M	S	L	М	М

Course	e code		DRAMA I	L	Т	Р	С	
Core			Core IV	5	-	-	4	
Pre-requisite			Basic knowledge of Drama. Syllabus Version					
Cours	se Obj	ectives:	· ·					
To To	o introd o make	luce the genre the students to	drama and its techniques o identify plot, characterization and structure of the pla	ay				
Expe	cted Co	ourse Outcom	nes:					
On the	e succe	ssful completi	on of the course, student will be able to:					
1	Uno	nderstand and enjoy reading plays						
2	Ide	entify the elements of Drama						
3	Ana	alyse the plays	s thematically				K4	
4	Eval	lluate the characters of the plays						
K1 - I	Remem	ber; K2 - Unc	lerstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	16 – Cı	reate			
Unit:	1				1	5hou	irs	
Dr. Fau	istus - (Christopher M	larlowe					
Unit:2			Bailing Combatore College		15hours			
She Sto	pops to	Conquer – Ol	iver Goldsmith					
Unit:3				1			5hours	
The Al	chemis	t – Ben Jonson	n					
Inite	4				1	5hou		
The D	• ivale	R R Sharidan			1	.31100		
	1 v a15 —							
Unit:	5				-	15 ho	ours	
Strife	- John	Galsworthy						
			Total Lecture hour	s	7	/5hou	ırs	
Text l	Book(s)							
--------	--	--	--	--	--	--	--	--
1	Dr. Faustus - Christopher Marlowe, Dover Thrift edition							
2	She Stoops to Conquer- Oliver Goldsmith, Peacock Books							
3	The Alchemist – Ben Jonson, Peacock Classics							
4	The Rivals – R.B.Sheridan. Bloomsbury							
5	Strife - John Galsworthy, Macmillan							
Refer	ence Books							
1	Critical Approaches to Literature, David Daiches, Kessinger Publishing							
2								
Relate	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://www.mooc-list.com/tags/theatre							
Cours	e Designed By:							

		104	PO 5	PO 4 PO 5	PO 6	PO 7	PO 8
CO 1	S	L	M	L	М	М	М
CO 2	Μ	L	S	L	Μ	М	L
CO 3	М	Μ	S sage	MAR UNIS	S L	М	L
CO 4	М	L	S	& S.M. LILING D. W.M	М	L	M

Со	urse code			ENG	HIS SLISH	STOR I LIT	RY OI TERA	F TURE	E	L	Т	Р	C
Co	ore	1	Allie	d–II						6	-	-	4
Pr	e-requisit	e	Basic Liter	c know ature a	vledge and hi	e on E nistor	Englis y of F	h Englan	d.	Sylla Versi	bus on	202	23- 24
Co	ourse Obj	ectives:											
To wri To	enrich the ters of vari make the s	students with ious ages. students under	n the wic	le knov he deve	wledge elopme	e of t	he his f Brit	torical	and b	iographi	cal detai	ls of	
Ex	apected Co	ourse Outcor	mes:										
Oı	n the succe	essful comple	tion of t	he cou	irse, sti	tuden	t will	be abl	e to:				
1	Gain kn	owledge of th	he Histo	ry of L	Literatu	ure a	nd gre	at auth	nors of	English	K2	1	
2	Intercon	nect the histo	ory, biog	graphy	of the	e auth	or an	d the w	vorks		K3		
3	Analyse	the growth o	of literar	y genre	es of s	specif	fic per	riods		1	K4		
4	Evaluate literary	e the role of li works	literary n	novem	ients a	and th	eir in	npact o	n the		K5		
K	1 - Remem	ıber; K2 - Un	ndestand	; K3	Apply	y; K4	- Ana	alyze;	K5 - E	valuate;	K6 – C1	reate	
U	nit:1				545 E	்தப்பால ^{EDUCATE TI}	のJT Q_LLA O ELEVATE				18	hours	5
1	. The Age .The Age o	ofChaucer of Shakespear	ıre – Ver	se, Dra	ama ar	ndPro	ose.						
U	nit:2	1									18	hours	5
3. 4.	The Age of The Age of	of Milton –M	lilton 'erse, Dr	ama an	ndPros	se							
U	nit:3	-									1	8 hour	·s
5.	The Age of The Age of	of Pope- Vers	se, Dran Jeneral P	na andF Prose ar	Prose	eNove	el						
U	nit:4										1	8 hour	S
7	. TheAgeor	fWordsworth- of Tennyson-	-Theolde Verse, G	erPoets, leneral	, theYo Prose	ounge and T	erPoet TheNo	s. vel.					

Unit:5		18 hours								
9. The Age	ofHardy									
10. The Pre	esentAge.									
	Total Lecture hours	90 h anns								
Text Book(s	s)	nours								
	''	Dublications Dut								
Ltd	ine History of English Literature. by winnam Henry Hudson. (B.1.	Publications Pvt								
Reference E	Books									
1 History	of English Literature, Harrows Publications, Chennai.									
2 History	of English Literature, Emerald Publishers, Chennai.									
Related On	line Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1 https://www	v.classcentral.com/course/swayam-history-of-english-language-and-litera	<u>ture-14108</u>								
2 https://nptel	.ac.in/courses/109/106/109106124/									
a construction of the										
Course Desi	Course Designed By:									
	Coimbature e e e									
	EDUCATE TO ELEVATE									

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	М	L	М	М	L	L	М
CO 2	L	М	М	М	М	L	L	S
CO 3	М	М	S	S	М	L	L	М
CO 4	М	L	М	L	S	М	L	М

THIRD SEMESTER

Cou cod	ırse e		PROSE L T P C II								
C	ore		Core- V	4	-	-	4				
P	re-requisi	ite	Basic knowledge on English prose	Syllab Versio	ous on	202 202	3- 4				
C	ourse Ob	jectives:									
To To	expose th assist in u	e students t inderstandi	to the development of prose style in English ng the techniques applied in prose writing								
E	Expected Course Outcomes:										
	n the succ	essful com	pletion of the course, student will be able to	:							
1	Gain kr	nowledge o	n Prose writing		K1						
2	Identify	the literar	y devices used in writing prose		K3						
3	Analyse	e the variet	y of prose pieces	1	K4						
4	Create	a simple ar	nd short prose passage		K6						
K	1 - Remer	mber; K2 -	Understand; K3 - Apply; K4 - Analyze; K5	- Evalu	ate; K6	6 – Cre	ate				
U	nit:1					12 hou	ırs				
1	. OfStudi	es	SOUCATE TO ELEVAL								
$\begin{vmatrix} 2\\ 3 \end{vmatrix}$. Of Truth	dehin									
	. On nen	usinp									
U	nit:2					12 hou	ırs				
4	. The Spe	ctatorClub			1						
5	. Sir Roge	er atChurch	l l								
6	5. Sir Roge	er atTheatre									
U	nit:3					12 hou	ırs				
7	. Dream C	Children : A	AReverie								
8	. Disserta	tion Upon	Roast Pig								
9	. The Prai	ise of the C	himneySweeper								

Unit:4			12 Hours
10. C	n Goo	dresolutions	
11. C	n Doir	ngNothing	
12. C	n Sayi	ng,,Please"	
Unit:5			12 hours
13. S	elected	ISnobberies	
14. S	hooting	g anElephant	
15. B	ooksho	opmemories.	
		Total Lecture hours	60 hours
Text Bo	ok(s)		
1 Pl	easures	s of English Prose by Macmillan	
2 A C	Collecti	ion of Essays-George Orwell	
		Star Can	
Referen	ce Bo	oks	1
1 The	Norto	on Anthology of English Literature	
2		E SATTHIAR UNIVER JES	
		Commander (Se	
Related	Onlin	e Contents [MOOC, SWAYAM, NPTEL, Website	es etc.]
1 <u>https://</u>	www.b	ritannica.com/art/English-literature/Prose	
Course	Design	ned By:	

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	S	М	L	L	М	М	L
CO 2	M	М	S	L	М	М	М	L
CO 3	М	L	S	M	L	L	М	М
CO 4	S	М	S	M	S	М	М	L

Cour code	se		FICTION II		T	Р	C	
Co	ore		CORE VI	4	-	-	4	
Pr	·e-requisit	e	Basic knowledge on English Fiction	Sylla Versi	bus on	2023 2024	3- 4	
С	ourse Obj	ectives:						
Тс	provide a	deep insight in	to the world of Fiction in English Literature					
Тс	make the	students analys	se the fiction					
Expected Course Outcomes:								
Oı	n the succe	essful completion	on of the course, student will be able to:					
1	Underst	and the socio-c	ultural aspect of the society with the help of fict	tion	K2			
2	Identify the literary elements in fiction							
3	Analyse	nalyse the plot, character and the techniques in the fiction K4						
4	Evaluat	te the work of f	iction contemporary Novelists		K5			
K	1 - Remem	ıber; K2 - Unde	erstand; K3 <mark>-</mark> Apply; K4 - Analyze ; K5 - Evalua	ate; K6	– Cr	eate		
U	nit:1		E HATHIAR UNIVER		12 h	ours		
The	e Vicar of V	Wakefield - Oli	ver Goldsmith	1				
			*OUCATE TO ELEVAL					
U	nit:2				12h	ours		
Sila	as Marner	(Macmillan) - C	George Eliot					
U	nit:3					12 ho	urs	
Tre	easure Isla	nd – R.L.Stever	ison					
T.	nit•⁄l					17 ho	Ire	
	rd Iim I	senh Conrad				12 110	u1 5	
	10 JIII – J(
U	nit:5				12	nours		
Ani	imal Farm	– George Orwe	911					
		Total Lecture	hours	60 hours				

Text Book(s) 1 The Vicar of Wakefield - Oliver Goldsmith, PeacockBooks

- 2 Silas Marner George Eliot, Macmillan
- 3 Treasure Island R.L.Stevenson, Peacock Books
- 4 Lord Jim Joseph Conrad, PeacockBooks
- 5 Animal Farm George Orwell, PenguinBooks

Reference Books

1 Critical Approaches to Literature, DavidDaiches

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

 1
 https://www.mooc-list.com/tags/literarytheory?cf_chl_jschl_tk=1c3afbb9009e9efa7da5681e4c7b42cf8f38e0f6-1602831513-0-AWafyyRVYNEYvBKe7QtAFE4TIDExudd8UahQf0gL93iEy16WuJn2FpH4KbD6Poks9Sr6mSwUriFLikpESuczvEuxWpFk7aGOaWNblKKYSHsDCAGI

 W4-0iVLnYjIVdJIZfrka2OPIB7uH1GED4BRgkJEnRYIdHgXrE7MiCT6ZV0tH0oDJRLAFhQYDrk9bNBN62kJ9oBTl2H_Yy37ikxMcVLnQAhID8R48Qg3xJjdKFXxARqG5GuFI_PGL9sHv71Cn18fdC

 mMfBXmckZWv5pt1SnEOKD2ODHmEq51_Fnha2J

Course Designed By:

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COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	L	M	EDISCATE TO EL	EVATE	M	М	S
CO 3	M	M	S	М	S	L	М	L
CO 3	M	L	S	L	М	S	L	М
CO 4	M	М	L	L	S	М	L	S

Co	urse code		LITERARY FORMS	L	Т	P	C
С	ore		ALLIED III	5	-	-	4
Pı	re-requisit	e	Basic knowledge on forms of writing in Literature	Sylla Vers	abus sion	20 20	23- 124
C	ourse Obj	ectives:					
T T	o introduc o make the	e the various l e students und	iterary genres and devices of English Literature. erstand the salient features of literary forms.				
Ex	xpected Co	ourse Outcom	nes:				
O	n the succe	ssful completi	on of the course, student will be able to:				
1	Underst	and different l	iterary forms and their charateristics	ŀ	Κ2		
2	Differen	ciate various l	literary devices	ł	ζ4		
3	Identify	literary device	es in a work, compare the genres and their features	ł	Κ3		
4	Attempt	a simple creat	tive writing	ŀ	K6		
K	1 - Remem	ber; K2 - Und	lerstand; K3 - Apply; K4 - Analyze; <mark>K5</mark> - Evaluate;	K6 –	Crea	te	
U	nit:1		POETRY		15	hou	rs
Cl Po Cl	napter I- Su betry Chapt napter III-	ubjective and (er II- Poetic T Stanza Forms	Dbjective Types				
U	nit:2		DRAMA		15	hou	irs
Cha Cha	apter I: Dra apter II: Dr	amatic Art amatic Types	(111-133)	-			
U	nit:3		DRAMA &PROSE		15	hou	rs
E P	Drama: Cha Prose: Chap	pter III: Drama ter I: Essay (18	atic Devices (134-139) 33-192)				
U	nit:4		PROSE		15	hou	rs
Ch Ch	apter II: T apter III: S	he Novel (193 Short story (22	-224) 5-229)				

U	nit:5			PRO	OSE				15 hours		
Ch	apter IV:	Biography	and Auto	Biography (2	230-236)						
						Total Lec	ture hour	'S	75hours		
T	'ext Book	(s)									
1	1 A Background to the study of English Literature-by Prasad (Macmillan)										
R	Reference Books										
1	A Con	nparison to	Literary	Forms, Padm	aja Asho	k, Orient I	Black Swa	n			
2	Litera	y Forms,	Ramachan	dra Nair, Em	erald Pu	olishers					
3	A Glo	ssary of Li	iterary Ter	ms, M.H. Ab	rams						
R	elated O	nline Con	tents [MC	OC, SWAY	AM, NP	TEL, We	bsites etc.]			
1	https://ww	ww.mooc-	list.com/co	ourse/introduc	ction-lite	rary-studie	es-sayloro	rg			
C	Course Designed By:										
				5 72	THIAD	INERSI	.9 0 1				
	COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8		

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	М	S		2 LUT 59	М	L	Μ
CO 3	М	М	S	L	L	М	S	L
CO 3	М	S	М	L	S	М	L	М
CO 4	М	L	S	L	S	М	М	L

FOURTH SEMESTER

Cou	ırse code	POETRY-II						L	T	Р	C			
Cor	e		Cor	re –VII							4	-	-	4
Pr	e-requisit	e	Kne	owledg	e of E	Basic	Englis	sh Po	etry		Syllat Versio	ous on	202 202	23- 24
Co	ourse Obj	ectives:												
To I To I	Introduce help the st	the students to udents critical	Great I ly analy	Poems of yse the j	of En poetr	ıglish y.	Litera	ture.						
Ex	Expected Course Outcomes:													
Or	the succe	essful completi	ion of tl	he cours	se, sti	udent	will b	e able	e to:					
1 Gain intense knowledge of poetry K1						K1								
2	2 Understand the literary importance of each poetry K2						K2							
3	3 Critically analyse poetry K4						K4							
4	Create s	imple poem b	y using	literary	y devi	ices	Z	Ş.	2					K6
K	l - Remem	ıber; K2 - Und	lerstand	l; K3	Apply	y; K4	- Ana	lyze;	K5 - E	valuat	e; K6 -	- Crea	ite	
Ur	nit :1				~~& B <u>j</u>	த் தேப்பான DUCATE TO	U Q_LLITĖ ELEVATE	pp -				12	2hou	irs
1 2 3	. Dover H . My Las . Ulysses	Beach – Matthe t Duchess - Ro -Tennyson.	ewArno obertBr	old owning	5									
Ur	nit:2											12	hou	rs
1. 2. 3.	1. The Darkling Thrush -ThomasHardy 2. The Windhover – G.M.Hopkins 3. Sailing to Byzantium -W.B.Yeats													
Ur	Unit:3 12 hours						rs							
1 2 -	A Prayer f. The Buria. T.S.Eliot 3	For my Daughte l of the Dead, f B.Hawk Roastin	er -W.B from the ng –Ted	.Yeats e Waste Hughes	Land	1								

Unit:4		12hours					
 The Unknown Citizen -W.H.Auden And Death shall have no Dominion - DylanThomas Strange meeting – WilfredOwen 							
Unit:5		12 hours					
1. Church Go	ving – PhilipLarkin						
2. The Hound	l of the heaven – FrancisThompson						
3. The Vaga	bond- Robert Louis Stevenson						
	Total Lecture hours	60 hours					
Text Book(s							
1 ELIXII	R - An Anthology of Poems Emerald Publication						
Reference B	ooks						
1 The Nor	ton Anthology of English Literature, W.W.Norton						
Related Onl	ine Contents [MOOC, <mark>SWAYAM, NPTEL, Web</mark> sites etc.]						
1 https://www.coursera.org/courses?query=poetry							
TE THE BALL 3							
Course Designed By:							
	EDUCATE TO ELEVATE						

Mapping with Programme Outcomes

Cos	РО 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	L	М	L	М	М	М	L
CO2	М	L	S	М	L	М	L	М
CO3	М	М	S	М	L	М	L	L
CO4	L	L	М	М	L	S	М	L

Co	urse code	DRAMA II	L	T	P	C	
C	ore	Core VIII	4	-	-	4	
Pı	e-requisit	e Knowledge of Popular English Drama	Syllabus Version			2023- 2024	
C	ourse Obj	ectives:			1		
То	o explore t	e elements of drama contents, performance, styles and theatric	cal conv	ention	s.		
То	o have a de	tailed analyse of play					
	xpected Co	ourse Outcomes:					
	n the succe	ssful completion of the course, student will be able to:					
1	1 To carry in depth knowledge of play						
2	2 Analyse the literary devices used in plays						
3	3 Critically evaluate the plays K3						
4	Able to	enact the play		0		K6	
K	I - Remer	ber; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalua	ite; Ko -	- Crea	te		
Du	malion (P. Chow		121100	rs		
Гуѯ		T. D. Slidw					
U	nit:2	Business and a mit and a mit and a mit and a mit		12hou	rs		
AI	Doll"s Hou	se - Henrik Ibsen					
U	nit:3			12hou	rs		
Lac	ly Winder	nere"s Fan - Oscar Wilde					
U	nit:4			12hou	rs		
Rid	lers to the	Sea – J.M.Synge					
T T,	nit·5			12 ho	1189		
	tice - John	Galsworthy		12 110	u1 5		
JUS		Total Lecture hours		60 hoi	irs		

1	Text Book(s)
1	Pygmalion - G. B. Shaw, Finger prints
2	A Doll"s House – Henrik Ibsen, Oxford
3	Lady Windermere"s Fan - Oscar Wilde, Notion Reads
4	Riders to the Sea – J.M.Synge, Oxford
5	Justice - John Galsworthy
F	Reference Books
1	The Norton Anthology of English Literature, W.W. Norton
2	
F	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://www.mooc-list.com/course/theatre-and-globalization-coursera
	லக்கழகு
C	Course Designed By:

Mapping with Programme Outcomes

		-			20 N 1 Y			
COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	S	M	Mimbator	M course	М	L	L
СО	М	М	S	ு ஆ <u>ந்</u> துப்பாரை ^{£0} Мா∈ то ек		L	M	М
CO3	М	М	S	L	S	L	М	L
CO4	M	L	M	L	М	L	S	S

Co	urse code		LITERARY CRITICISM	L T P (
Co	re		Core VIII	4 -			4			
Pre-1	requisite		Basic Knowledge on Literary Criticism	Syllab Versio	ous on	202 202	3- 4			
C	ourse Obj	ectives:								
To	o Trace the	evolution of l	English literary criticism from past to presen	t.						
To	o acquire k	nowledge on o	riticism and apply it in to analyse a text.							
E	xpected Co	ourse Outcon	les:							
0	n the succe	essful completi	on of the course, student will be able to:							
1	1 Carry Knowledge of leading Critics and their method of criticism									
2	2 Understand the different schools of criticism and their theories									
3	3 Interconnect the society, literature and literary criticism to analyse a text K4									
4	4 Evaluate a literary text by applying the ideas of the critics K5									
K	1 - Remem	ber; K2 - Unc	erstand; K3 - Apply; K4 - Analyze; K5 - Ev	valuate;	K6 – Ci	reate				
U	nit:1		and the second s			12hou	irs			
2	1. Aristotle 2. Sir Philip	Sydney	Est TRATHIAR UNIVERSIT		1					
U	nit:2		^{க்கு} குத்தப்பானா உயர்த்தி- ச			12hou	irs			
	1. JohnDry 2. Dr.Johns	den son	COUCATE TO ELEVATE							
U	nit:3					12hou	irs			
1	. WilliamV	Vordsworth		I						
2	. S.T.Cole	ridge								
	nit:4					12hou	irs			
$\begin{vmatrix} 1\\2 \end{vmatrix}$. Mathew A 2. WalterPa	Arnold .ter								
U	nit:5					12 ho	ours			
1	1. T.S.Eliot 2. I.A.Richards									
			Total Lecture ho	ours		60 ho	urs			
Т	Text Book(s)									
1	Introduc	tion to English	Criticism by Prasad (Macmillan)							

Reference	Books

1 Literary Criticism From Plato to the Present, M.R. Habib, Wiley Blackwell

2 English Literary Criticism and Theory, M.S. Nagarajan, Orient Blackswan

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

1 https://www.classcentral.com/course/swayam-literary-theory-and-literary-criticism-7982

Course Designed By:

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	L	M	C L		L	М	M
CO2	М	L	S	S	M	L	L	M
CO3	М	S	L	S	L	М	М	S
CO4	М	L	A	RATIS	M	3 L	L	М

Mapping with Programme Outcomes

FIFTH SEMESTER

Co	urse code	ode ENGLISH LANGUAGE TEACHING L T P C						
Co	re	-	Core IX	6	-	4		
Pre-	requisite		Basic knowledge on English language and language skills	Syllabi Versio	1s 2023- n 2024)23-)24	
C	ourse Obj	ectives:						
То	explore va	rious approac	hes, methods, and strategies of teaching English	1				
To lan	help the stu guage teacl	udents unders hing.	stand the essential components and concepts of					
E	xpected Co	ourse Outcon	nes:					
0	n the succe	ssful comple	tion of the course, student will be able to:					
1	1 Understand the language teaching strategies K2							
2	Know the methods and approaches in English language teaching K2, K3							
3	Understan teaching s	d the compor kills	nents of En <mark>glish</mark> language teaching and improvir	ig the	ŀ	ζ4		
4	Create	an eclectic m	ethod suitable for the class		ŀ	X6		
K	1 - Remem	ber; K2 - Un	derstand; K3 - Apply; K4 - Analyze; K5 - Evalu	uate; K6	- C1	reate		
U	nit:1		シム語 副店 西山山市の页 の EDUCATE TO ELEVATE			18hou	Irs	
	PART O	NE- Chapte	rs 1-3 Approaches	i				
U	nit:2					18hou	Irs	
	PART C	ONE- Chapte	ers 4,5 Methods	I				
U	Unit:3 18hours							
	PART T	WO - Chapt	er 1 Technique Teaching LSRW, Grammar, Vo	cabulary	,			
U	nit:4	18hours						
	PART T	WO - Chapt	er 2 Teaching Aids					

Unit:5		18hours						
PART TWO - Chapter 3 Testing.								
	Total Lecture hours	90hours						
Text Book(s)							
1 English I Blackswa	1 English Language Teaching: Approaches, Methods, Techniques by Geetha Nagaraj. Orient Blackswan Private Limited.							
Reference B	Reference Books							
1 English Publish	Language Teaching by Dr. Meena Sehrawat and Dr Subodh K.	Jha, Lakshmi						
Related On	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
https://ww	w.classcentral.com/course/english-in-early-childhood-6910							
	லைக்கழகம							
Course Desi	gned By:							

Mapping with Programme Outcomes

			40	HIAD IN	-A.			
COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	М	М	^{/ இ} ந்த <mark>[</mark> யாரை ^ஓ மைகாத ராது து		М	L	L
CO 2	М	L	L	М	М	L	М	S
CO 3	М	L	S	М	L	S	М	S
CO 4	L	М	М	L	S	S	М	М

Co	urse code		INE	DIAN WRITI	NG IN ENGLISH	L	Т	P	C	
Co	re		Core-X			6	6 -			
Pre-1	equisite		Basic Kr	nowledge on 1 Englis	Indian Writing in sh	Syllabus Version		2023 2024	-	
C	ourse Obj	ectives:	1							
To To	introduce t critically a	he eminent w nalyse the lit	vriters of Indi erary works i	an Writing in n detail	English					
E	Expected Course Outcomes:									
0	n the succe	ssful comple	tion of the co	urse, student	will be able to:					
1 Familiar with the prominent writers of Indian Writing in English]	K2		
2	2 Compare the Indian Writing in English with British Literature]]	K3	
3	3 Critically analyse the works of Indian Writing in English]]	K4	
4 Evaluate the social issues represented in the literary text K							K6			
K	1 - Remem	ber; K2 - Un	derstand; K3	- Apply; K4	- Anal <mark>yze; K5</mark> - Eval	uate; K6 –	Crea	ite		
U	nit:1		12	POETRY	J.S. Is		18	Shou	rs	
	Poem	s No-1, 2, 3,	7, 8 &14	200 ATHIAR L	ININE COLOR					
U	nit:2			PROSE	19_Witight		18	Shou	rs	
	Ajanta an	d Ellora, in t	he Monsoon	? – Sashi Thar	oor.					
	The Argu Give as a	mentative In	dian – Amart – Abdul Kals	zya Sen.						
U	nit:3		SH	ORT STORY	Y		18	Shou	rs	
Swe	ets for Ang	gels – .K.Nar	ayan							
The	White Flor	wer – .K.Nar	ayan							
The	Postmaste	r – Rabindrar	nath Tagore	DRAMA			10			
	nit:4	lag Ciriah I	Zamad	DRAMA			10	snou	rs 	
	Tugn The F	laq – Girish r Refugee – Asi	Karnad. if Currimbho	v.						
U	nit:5	0		NOVEL			1	8 ho	urs	
	That Lon	g Silence – S	hashi Deshpa	ande		I				
	The God	of Small Thi	ngs – Arunda	thi Roy.						
					Total Lecture hour	·s	9()hou	rs	

T	'ext Book(s)					
1	Indian Verse in English- Poetry Selection for College Classes Macmillan publication					
2	The Argumentative Indian: Writings on Indian History, Culture and Identity by Amartya Sen. Picador.					
3	Tughlaq by Girish Karnad. OUP India.					
4	That Long Silence by Shashi Deshpande. Penguin India.					
5	The God of Small Things by Arundhati Roy. Penguin India.					
R	Reference Books					
1	Critical Essays on Indian Writing in English, ed. M.K.Naik, S.K.Desai, G.S.Amur					
R	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]					
1	http://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_module_ug.php/94					

Mapping with Programme Outcomes

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	L	S	M	L	L	М	L
CO2	М	М	Second	M R U	S BOIE	L	М	L
CO3	М	L	S	திக்கப்பாரை EDUCATE TO EN		М	L	М
CO4	S	L	L	М	S	М	М	S

Co	urse code		AMERICAN LITERATURE	L	T	Р	C
C	ore		Core-XI	5	-	-	4
Pre-1	requisite		Basic Knowledge on America Literature	Syll Ver	abus sion	20 20)23-)24
С	ourse Obj	ectives	:			·	
	To introc To appre	luce the ciate the	e works of eminent writers of American Literature ne themes, styles and forms of American Literature				
E	xpected Co	ourse (Dutcomes:				
0	n the succe	ssful c	ompletion of the course, student will be able to:				
1	1 Understand the diverse group of American authors and their style of writing K2						
2	Analyse	the ke	y ideas, representation of cultural events of historical per	riods.			K4
3	Compar	e Ame	rican Literature with Indian Writing in English				K5
4	Create a	simple	e creative writing based on prescribed literary pieces				K6
K	1 - Remem	ber; K	2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalua	te; K6	6 – Cr	reate	
U	nit:1	PO	ETRY- DETAILED			15hou	ırs
1. I	Passage to 1	India-V	Vhitman				
2. I	Never Los	st as M	uch But twice- EmilyDickinson				
$\begin{array}{c} 5.5\\4 \end{array}$	A Bird cam	e dowi	n the Walk- EmilyDickinson				
5. 4	After Apple	e Picki	ng- RobertFrost				
6.	Come In- I	Robertl	Frost				
U	nit:2	PO	ETRY- NON-DETAILED			15hou	irs
1. V	West-Runn	ing Br	ook- RobertFrost				
2. 1	The Emper	or of Ic	ce Cream- WallaceStevens				
3. 4	Anecdote o	f the Ja	ar-WallaceStevens				
4. 3	Skunk Hou	r- Rob	ertLowell				
U	nit:3	PR	OSE –DETAILED			15hou	ırs
	Walden –	- Thore	eau, Chapter-2, "Where I Lived and What I Lived For"				
			· •				
U	nit:4	NC	VEL -NON-DETAILED			15hou	irs
	Tom Saw	yer - N	Aark Twain	<u>.</u>	-		

U	nit:5	DRAMA-DETAILED	15 hours					
	Glass Me	nagerie - Tennessee Williams						
		Total Lecture hours	75hours					
Т	Text Book(s)							
1	1Poetry-American Literature edited by Sachidhanandhan (Emerald publishers)							
2	2 Walden, Thoreau, Maple Classsics							
3	Tom Sav	vyer - Mark Twain, Maple Classics						
4	Glass Me	enagerie - Tennessee Williams, Bloomsbury India						
R	leference B	ooks						
1								
'								
R	elated Onl	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://www	z.mooc-list.com/course/american-literature-1865-engl-3350-wma						
C	Course Designed By:							
		The state of the s						
	E TRAINERST 3							
	N (AR OLA S						

Mappi	Mapping with Programme Outcomes:							
COS	PO 1	PO 2	PO 3		PO 5	PO 6	PO 7	PO 8
CO1	S	М	М	L	L	S	М	М
CO2	М	М	S	M	L	M	M	L
CO3	М	L	L	S	М	М	L	S
CO4	M	L	S	L	S	M	M	L

Course code COMMONWEALTH LITERATURE L T P C									
C	ore		Core-XI	5	-	-	4		
Pre-r	equisite		Basic Knowledge on Commonwealth Literature	Sylla Vers	bus sion		2023- 2024		
C	ourse Obje	ectives	:						
	To develo To under	op ana stand t	lytical and critical reading through commonwealth literat he socio- political conditions of people in commonwealth	ure 1 natic	ons				
Ex	xpected Co	ourse (Outcomes:						
O	n the succes	ssful c	ompletion of the course, student will be able to:						
1	Comprel	nend th	ne works of prominent authors in commonwealth Literatu	ire			K2		
2	Compare	Compare the style of commonwealth writing K3							
3	Present of	critical	analyse of prescribed literary works				K4		
4	Evaluate the commonwealth literature with the help ofknowledgegained K5								
	n differe	ntcultu	ures	0					
K	1 - Remem	ber; K	2 - Understand; K3 - Apply; K4 - Analyze; <mark>K5</mark> - Evaluat	e; K6	-Cr	eate			
			The second						
U	nit:1	PO	DETRY – DETAILED		15	shou	rs		
	1. Austral 2.Dying H 3.Telepho	lia – A Eagle – one Co	D. Hope - E.J.Pratt enversation – Chinua Achebe						
U	nit:2	DR	RAMA – DETAILED		15	Shou	rs		
	Lion and	the Jev	vel – Wole Soyinka						
	Unit:3 PROSE – NON-DETAILED 15h						rs		
	"India: A	Wou	nded Civilization" - V.S.Naipaul						
U	nit:4	FIC	CTION- NONDETAILED		15	hou	rs		
	The Hun	gry Ti	de - Amitav Ghosh						

τ	J nit:5	SHORT STORY	15 hours					
	A Cup c	f Tea – Katherine Mansfield						
		Total Lecture hours	75hours					
ſ	Text Book(s)						
1	1 An Anthology of Commonwealth Poetry, C.D. Narasimhaiah, Trinity							
2	2 Lion and the Jewel – Wole Soyinka, Oxford UP							
3	India : A	Wounded Civilization - V.S.Naipaul, Picador						
4	The Hung	ry Tide by Amitav Ghosh, The Borough Press						
5	Katherine	Mansfield"s Collected Short stories, Wordsworth Classics						
F	Reference B	ooks						
1	Texts an	d their Worlds II- K. Narayana Chandran, Foundation Books						
		லக்கழகுத்						
F	Related On	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://npte	l.ac.in/courses/109/104/109104116/						
0	Course Desi	gned By:						
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COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO8
CO 1	S	М	L	М	М	М	L	L
CO 2	М	L	S	L	М	М	L	L
CO 3	L	М	М	S	L	L	М	S
CO 4	М	М	L	М	S	L	М	М

SIXTH SEMESTER

Co	urse code		SHAKESPEARE	L	L T P				
Co	re		Core-XIII	6	-	-	4		
Pre-1	requisite		Knowledge on Shakespearean Works	Syllab Versio	ous on	202 202	3- 4		
C	ourse Obj	ectives:							
	To introc To provi	luce analytica de deep insig	al approach in reading Shakepearean plays ht into literary the devices used by Shakespeare	;					
E	xpected Co	ourse Outco	nes:						
0	n the succe	essful comple	tion of the course, student will be able to:						
1Intensive knowledge on Shakespearean playsK2									
2	Analyse	Analyse the universal characterization of Shakespeare K4							
3	Evaluate	e the versatile	e writings of <mark>Sha</mark> kespeare		K	2, K5			
4	Enact a	scene from S	hakespeare <mark>an play</mark>		K.	3			
K	1 - Remem	ıber; K2 - Un	derstand; K3 <mark>-</mark> Apply; K4 - Analyze; K5 - Eva	luate; K	6 – Cr	eate			
U	nit:1		E ATHIAR UNINE			18hou	irs		
	Othello		· · · · · · · · · · · · · · · · · · ·	'					
			EQUCATE TO ELEVAN						
U	nit:2					18hou	irs		
	The Win	ter's Tale							
		1							
U	nit:3					18hou	irs		
	Twelfth I	Night							
U	nit:4					18hou	irs		
	Antony a	nd Cleopatra							
				I					
U	nit:5					18 ho	ours		
SI	nakespeare	an Theatre an	d Audience.						
	ot, Charact	terization, Fo	ols in Shakespearean drama.			00 ha	ure		
				iours		20 110	uis		

Т	Text Book(s)					
1	Othello, Fingerprint					
2	The Winter's Tale, Penguin Classics					
3	Twelfth Night, Fingerprint Publishing					
4	Antony and Cleopatra, Maple Press					
R	eference Books					
1	The Complete Works of William Shakespeare, Wilco Publishing House					
2	Muir, Kenneth, Shakespeare"s Tragic Sequence					

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

1 https://www.mooc-list.com/tags/william-shakespeare

Course Designed By:



Cos	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	L	L	்து இந்தப்பாணா	e_withEL-Got	L	М	L
CO2	M	М	S	M	M	М	М	L
CO3	M	L	L	L	S	L	М	S
CO4	L	M	М	М	S	L	S	S

Course codeGENDER STUDIESL						Р	C	
Co	re		Core-XIV	6	-	-	4	
Pre-r	equisite		Basic Knowledge of Women writers	Syllabus Version		202 202	3- 4	
C	ourse Ob	jectives:						
	To make the student familiar with the writings of women writers To analyse a literary work with the socio-cultural point of view							
Ех	xpected (Course Outco	mes:					
Oı	n the suc	cessful comple	etion of the course, student will be able to:					
1 Understand the layers of meaning in the writings of women writers						2		
2	2 Analyse the female consciousness in literary works							
3 Explore the gender issues in the literary works of women writers						2, K5		
4	4 Know the various social discriminations towards womenfolk through the K3 literary works							
K	1 - Reme	mber; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - E	valuate; K	6 – Cr	eate		
			a constant and the second s					
U	nit:1		POETRY			18 ho	urs	
	 Lak The The 	shman – Toru Old Playhous Mother – Gw	Dutt Combatore Contraction Con					
U	nit:2	SHO	ORT STORIES			18 ho	urs	
	Maha	sweta Devi- 1.	Breast Giver					
		2.	Dhouli					
		3.	Draupadi					
U	nit:3		NOVEL			18 ho	urs	
	The Pal	ace of Illusion	ns – Chitra Banerjee Divakaruni					
U	nit:4		DRAMA			18 ho	urs	
	Lights	Out – Manjula	Padmanabhan					

ι	J nit:5	THEORY	18 hours				
	What i	s Patriarchy? – Kamala Bhasin					
		Total Lecture hours	90 hours				
Г	Text Book(s)						
1	Outcas	te 4 stories by Mahasweta Devi. Seagull Books.					
2	The Pa	lace of Illusions by Chitra Banerjee Divakaruni. Anchor					
3	Lights Out by Manjula Padmanabhan. Worldview Publications						
4	What is Partiarchy by Kamala Bhasin. Kali for Women.						
5	5 Narain's:Toru Dutt's Selected Poems, Lakshmi Narain Agarwal						
F	Reference	Books					
1		:aff (10) · Can in the second se					
F	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://www.classcentral.com/course/queeringidentities-17017						
	E THE REAL REAL						
C	Course Designed By:						
		BUGATE TO ELEVATE					

Co s	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	L	М	S	М	L	S	М	М
CO2	М	L	S	L	М	S	М	S
CO3	S	L	L	S	S	М	L	S
CO4	L	М	S	S	М	L	M	S

Cou	ırse code		INDIAN LITERATURE IN ENGLISH TRANSLATION	L	L T				
Co	ore		Core-XV	5	-	-	4		
Pre-r	equisite		Basic Knowledge on Translation studies	Syllabus Version		2023 2024	↓ ↓		
Co	ourse Obje	ectives:							
То	make the	students awar	e of the art of translation.						
То	make the	students get fa	amiliar with the regional literature translated	into English					
Ex	spected Co	ourse Outcom	les:						
Or	the succe	ssful completi	on of the course, student will be able to:						
1	1 Understand the translated works and its nuances.						K2		
2	2 Analyse the works with the help of literary theory, translate simple works of their mother tongue into English Language								
3	Knowledge on the ethics and impact of translations in Literature						K4		
4	4 Compare regional literature with English Literature						K5		
K	l - Remem	ber; K2 - Und	lerstand; K3 - Apply; K4 - Analyze; K5 - Eva	aluate; K6 –	Crea	ate			
			Har UNING Combatore						
Ur	nit:1		POETRY UCATE TO ELEVATE	15h	ours	5			
	Gitanjali	by Tagore, Ve	erses 1 to 30 (Macmillan)						
				1					
Ur	nit:2			15h	ours	5			
	Non-det	ailed: Thiruk	xural 1 to 20 verses						
Ur	nit:3		DRAMA	1	5hou	irs			
	Non-Deta	ailed: Aurang	zeb - Indira Parthasarathy (Seagull)						
Ur	Unit:4 NOVEL 15hours					irs			
	Chemeen	- Thakazhi Si	vasankara Pillai						

U	nit:5	15 hours				
	Sangati - Bama, Trans. Lakshmi Holmstrom – OUI					
	Total Lecture hours	75hours				
Т	ext Book(s)					
1	Gitanjali by Tagore, Verses 1 to 30, Macmillan					
2	2 Thirukkural, M.Rajaram, Rupa					
3	3 Aurangzeb - Indira Parthasarathy, Seagull					
4	4 Chemeen, Thakazhi Sivasankara Pillai, Harper Perennial					
5	Sangati- Bama, Oxford India					
R	eference Books					
1	லைக்கழகு					
	JE BOUND CE					
R	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]					
1	https://www.futurelearn.com/courses/working-with-translation					
	a martine s					
C	ourse Designed By:					

Mapping with Proramme Outcomes:

Cos	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	L	М	L	М	L	М	L
CO2	М	М	S	S	М	М	L	М
CO3	М	М	L	М	М	L	М	S
CO4	S	L	М	L	S	М	L	S

SECOND YEAR

Semester III

Сот	urse code		SKILL BASED SUBJECT Paper I	L	T	Р	C
JO CO	B ORIEN' URSE	ГЕД	LANGUAGE SKILL- 1	3	-	-	2
Pre	-requisite		Basic Knowledge on English language.	Sylla Ver	abus sion	2023- 2024	
Co	ourse Obj	ectives:					
Thi	s paper ain To streng	ns at introduci of then the gram	ng the students to the field of communicative Englis matical knowledge and vocabulary	sh			
Ex	spected Co	ourse Outcom	les:				
Or	n the succe	ssful completi	on of the course, student will be able to:				
1 Master framing sentence on differentpattern]	K3	
2 Apply grammar in Speaking and writing]	K3	
3 Prepare grammatically correct passages]	K4	
4	4 Present short features.]	K6
K	1 - Remem	ber; K2 - Unc	lerstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 –	Creat	te	
			SALE ID ELLY				
U	nit:1				9 ł	1011	rs
	CH	HAPTER I -T	he sentence				
	CH	IAPTER II -	Parts of				
	spo	eech CHAPT	ER 111-				
		APTER IV-	Nouns number & case				
	CH	IAPTER V-A	djectives				
Uı	nit:2		0		9 ł	10UJ	rs
	C	HAPTER VI	-Comparison of Adjectives	<u> </u>			
	С	HAPTER VI	I -Articles				
	CHAPTER VIII-						
	P	ronouns CHA	PTER XI-				
	Verbs						

τ	J nit:3		9 hours
		CHAPTER XII-Verbs- Mood & tense CHAPTER XIII-Concord or Agreement of the verbs with the subj CHAPTER XIV- Non- Finite Verbs	ect
τ	J nit:4		9 hours
		CHAPTER XXXVII-Word formation- The use of Prefixes CHAPTER XXXVIII- Word formation- The use of Suffixes CHAPTER XXXIX-Word formation- compound words	
T	Init:5		9 hours
	mus	COMPOSITION	
		CHAPTER XLIII- Paragraph writing	
		CHAPTER XLVI- Expansion of passages	
		Total Lecture hours	45 hours
]	Fext Book	(s) Total Lecture hours	45 hours
7 1	Fext Book Active	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications	45 hours
7 1	Text Book	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications	45 hours
7 1	Fext Book Active	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications	45 hours
1 1	Fext Book Active Active Reference	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications Books	45 hours
7 1 F	Fext Book Active Active Reference Applie	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications Books ed English Grammar and Composition, PC Das, NCBA	45 hours
T 1 F 1 2	Fext Book Active I Reference Applie J.C. N	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications Books ed English Grammar and Composition, PC Das, NCBA esfield, Advanced English Grammar and Usage,Macmillan,2002	45 hours
T 1 F 1 2	Fext Book Active I Reference Applie J.C. N	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications Books ed English Grammar and Composition, PC Das, NCBA esfield, Advanced English Grammar and Usage,Macmillan,2002	45 hours
T 1 F 1 2 F	Fext Book Active I Reference Applie J.C. N Related Or	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications Books ed English Grammar and Composition, PC Das, NCBA esfield, Advanced English Grammar and Usage,Macmillan,2002 hline Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	45 hours
T 1 F 1 2 F 1	Fext Book Active I Reference Applie J.C. N Related Or https://www	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications Books ed English Grammar and Composition, PC Das, NCBA esfield, Advanced English Grammar and Usage,Macmillan,2002 hline Contents [MOOC, SWAYAM, NPTEL, Websites etc.] ww.coursera.org/specializations/improve-english	45 hours
T 1 F 1 2 F F 1	Fext Book Active I Reference Applie J.C. N Related Or https://www	Total Lecture hours (s) English Grammar and composition – Trinity / Laxmi Publications Books ad English Grammar and Composition, PC Das, NCBA esfield, Advanced English Grammar and Usage,Macmillan,2002 hline Contents [MOOC, SWAYAM, NPTEL, Websites etc.] ww.coursera.org/specializations/improve-english	45 hours

Mapping of Programme Outcomes:

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	S	L	М	L	М	L	L
CO2	М	S	М	L	М	L	М	L
CO3	L	М	S	М	S	М	L	М
CO4	М	L	L	М	S	М	М	М

SECOND YEAR

Semester IV

Co	urse code		SKILL BASED SUBJECT – Paper II	L	Т	Р	C
Job	o Oriented	Course	Language Skill 2	3	-		2
Pr	re-requisit	e	Basic Knowledge on English language.	Syllat Vers	ous sion	s 2023- 2024	
Co	ourse Obj	ectives:					
Thi wit	s paper air hout grami To To	ns at introducin matical errors. improve langu strengthen the	g the students to functions of basic grammar and age proficiency of the students grammatical knowledge and vocabulary	1 frame	sen	tence	S
E.	xnected Co	ourse Outcom					
	n the succe	ssful completio	on of the course, student will be able to:				
1	Transfor of sente	rm sentences in nces	to different kinds and learn synthesis & transform	mation		K1	
2	Apply g	rammar in LSR	W			K2	
3	Analyse	the usage of w	ords, comprehend the writings and composition			K3	
4	Adapt	professional W	riting			K5	
K	1 - Remem	ıber; K2 - Unde	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluat	te; K6 -	- Cr	eate	
		1					
U	nit:1					9 hou	Irs
	CHA CHA	PTER XIX- A PTER XXXI -	dverbs - Sequence of Tenses & Direct &Indirect speech	l			
		Γ					
U	nit:2					9 hou	rs
	CHAPTER XX- Preposition CHAPTER XXI- Conjunctions CHAPTER XXXIII- Verb Patterns & Sentences						

Unit:3		9 hours
СНА	PTER XXVIII- Synthesis of sentences	1
СНА	PTER XXIX- Transformation of sentences	
Unit:4		9 hours
CH CH	APTER XLI- Words often confused APTER XLII- Words with appropriate Prepositions	
		1
Unit:5		9 hours
	COMPOSITION	
СН	APTER XLIV- Letterwriting	
CH	APTER XLV- PrecisWriting	
СН	APTER ALVIII- Writing stories from outlines.	
	Total Lecture hours	45 hours
Text Book	(s)	
Active Engl	ish Grammar and composi <mark>tion – Laxmi Publications</mark>	
	a martin s	
Reference	Books	
J.C. Nesfie	ld, Advanced English Grammar and Usage, Macmillan, 2002	
Applied Er	nglish Grammar and Composition, PC Das, NCBA	
Related O	nline Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
https://www.i	nooc-list.com/course/write-professional-emails-english-coursera	

Course Designed By:

Mapping with ProgrammeOutcomes:

Cos	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	S	S	М	М	L	М	L	М
CO2	S	S	М	L	М	L	М	L
CO3	S	S	S	L	М	L	L	М
CO4	М	М	L	М	L	S	М	L

THIRD YEAR

Semester V

Cou	urse code		SKILL BASED SUBJECT – Paper III	L	Т	P	C	
VALUE ADDED COURSE		DED	Study of English Phonetics 1	3	-	-	2	
Pre-requisite			Basic Knowledge on English language Syllabus 2 2 2					
Co	ourse Obj	ectives are						
To i To i	make the s	tudents get fai scientific app	niliarize with phonetics and phonetic symbols of roach towards the study of language	f English				
Ex	cpected Co	ourse Outcom	es:					
Or	the succe	ssful completi	on of the course, student will be able to:					
1	Learn pl	nonetics symb	ols with sounds				K1	
2	2 Use right accent and rhythm in speaking							
3 Analyze the syllable and accent							K4	
4 Classify the speak sound							K5	
K	l - Remem	ber; K2 - Und	estand; K3 - Apply; K4 - Analyze; K5 - Evaluat	te; K6 – (Creat	te		
Unit:1					9 h	ours		
	СНА	PTER I – Lis	t of Phonetic Symbols					
	СНА	PTER II – Lai	nguage, Linguistics & Communication					
Unit:2					9 h	ours		
	CHAP CHAP	FER III- Comj FER IV- Phon	oonents of Linguistic etics: The articulation of speech sounds	I				
Unit:3					9	hou	ſS	
	CHAP CHAP ofconso	ΓER V- Classi ΓER VI- Class onants	fication of Speech Sounds ification & Description					

U	nit:4		9 hours				
	CHAI CHAI	PTER VII- Classification & Description of Vowels PTER VIII- Phonology- Phonemes and Allophones					
U	nit:5		9 hours				
	CHA CHA	PTER IX – The Syllable PTER X - The pure vowels & Diphthongs of English					
		Total Lecture hours	45 hours				
Т	ext Book(s)					
1	A Textbo	ook of English Phonetics for Indian Students- T. Balasubramania	an- Trinity Press				
·							
R	eference B	ooks					
1	A.G. Gi	mson: An introduction to the pronunciation of English, Hodder	Arnold, 1989				
2	Daniel J	ones: Outline of English Phonetics, B.G. Teubnee, 1922					
I							
R	elated On	ine Contents [MOOC, S <mark>WAYAM, NPTEL, W</mark> ebsites etc.]					
1	1 https://www.mooc-list.com/course/teach-english-now-second-language-listening-speaking-and-						
1	pronunciat	Connecoursera					
		EDUCATE TO ELEVATE					
C	ourse Desig	gned By:					

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	M	L	M	M	M	L	M
CO 3	S	S	L	М	L	М	L	L
CO 3	М	S	М	L	М	L	М	M
CO 4	М	L	М	L	М	L	S	М

THIRD YEAR

Semester VI

Cou	urse code		SKILL BASED SUBJECT – Paper IV	L T		P	C		
VALUE ADDED COURSE		DED	Study of English phonetics- II	3	-	-	2		
Pre-requisite		e	Basic Knowledge on English languageSylVe		Syllabus Version		2023- 2024		
Co	ourse Obje	ectives:		1					
Thi	s paper ain To make	ns at introducing the students get	g the students to the field of English phonetics familiar with correct English Pronunciation						
			internet in the second product of the second						
Ex	spected Co	ourse Outcome	s:						
Or	n the succe	ssful completion	n of the course, student will be able to:						
1	1 The concept of general Indian English								
2	2 Apply intonation accent rhythm in Speaking								
3 Master phonetics symbols and sounds							K4		
4 Transcript into Phonetic language							K5		
K	I - Remem	ber; K2 - Undes	stand; K3 - Apply; K4 - Analyze; K5 - Evaluar	te; K6 – 9	Crea	te			
Uı	nit:1				9	hou	rs		
	CHA CHA	PTER XI- The PTER XII- Cou	consonants of English nsonant Clusters in English						
Unit:2 9 h						hou	rs		
	CHA	FIEK XIII- Th	e Concept of General Indian English						
Unit:3					9	hours			
	CHAP' CHAP'	ΓΕR XIV- Wor ΓΕR XV- Acce	d-accent in English nt & Rhythm in Connected Speech						
ι	J nit:4		9 hours						
--	-------------------------	---	---------------	--	--	--	--	--	--
	CHAPTER XVI- Intonation								
U	Unit:5 9 hours								
	CHA	PTER XVII- Assimiliation and Elision							
	СНА	PTER XVIII- Practice in Phonetic Transcription							
		Total Lecture hours	45hours						
Г	'ext Book (s)							
1	A Textbo	ok of English Phonetics for Indian Students- T. Balasubramanian-	Trinity Press						
R	Reference B	ooks							
1	A.G. Gi	mson: An introduction to the pronunciation of English, Hodder Arr	nold, 1989						
2	Daniel J	ones: Outline of English Phonetics, B.G. Teubnee,1922							
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1 https://www.coursera.org/courses?query=english%20pronunciation									
	THAR UN Commutatore								
C	Course Designed By:								

СО	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
S								
CO 1	S	S	L	M	М	L	М	L
CO 2	М	S	L	М	L	М	L	М
CO 3	М	S	М	L	S	L	М	М
CO 4	М	L	М	L	S	L	S	Μ

ELECTIVES SEMESTER: V

Elective – I-A ENGLISH FOR COMPETITIVE EXAMINATIONS.

SUBJECT DESCRIPTION:

This Paper aims at preparing the students for Various Competitive Examinations.

OBJECTIVE:

1. To know of Various tools that are essential for Competitive Exams

CONTENS: AllChapters.

Book Prescribed:

English for Competitive Examinations by R.P Bhatnagar (Macmillan)

Elective – I-B STUDY OF INDIAN THEATRE

OBJECTIVE:

- 1. To help students develop histrionictalents
- 2. To enable students to manipulate the communicative potentials ofdrama
- 3. To give them an orientation in dramaticwriting

Unit I -

Introduction to

Indian Theatre

Unit II -

Traditions of

Performance

Unit III - How

to Write a Play

Unit IV - How to Produce a Play

Unit V - Review of a Play - Project or Dialogue for a Situation

Books for Reference:

Study of Indian Theatre - ENNES Publications Contact Nos: 04252 – 226283 93622 11949

Elective – I-C PUBLIC SPEAKING

OBJECTIVE:

- 1. To help students overcome the fear of facing anaudience
- 2. To train students in planning a speech and then draftit
- 3. To acquaint students with the major practices in effective public speakingUnit I -

Rudiments of Public Speaking(Theory)

Unit II - Techniques of Public Speaking

Unit III - Planning and Writing a Speech

Unit IV - Overcoming fear and

understanding audience Unit V -

Model speeches

- 1. I have a dream Martin LutherKing
- 2. Yes We Can Obama
- 3. Chicago SwamiVivekananda

Book for Reference: Dale Carnegie - Public Speaking



SEMESTER: VI

Elective – II-A Communicative English Subject

SUBJECT DESCRIPTION:

This Paper gives the students knowledge of

Communicative skills. OBJECTIVE:

To excel in Communicative skills.

CONTENTS: All Chapters from Developing

Communication Skills Book Prescribed:

Developing Communication Skills, by Krishnamohan and Meera Benerji. (Macmillan)

Elective – II-B FUNDAMENTALS OF COMPARATIVE LITERATURE OBJECTIVE:

1. To enable students to have an understanding of literatures of theworld

2. To orient them towards understanding of differentcultures

3. To train them in the logic and

principles of comparison Unit I -

Introduction to Comparative

Literature

Unit II - Principles of Comparative Literature

Unit III - Oriental and Occidental Literature

- Comparative Study Unit IV - Aesthetics -

Eastern and Western

Unit V - Project – A Comparative Study of a Short Story or a Poem Each from a Language of Student"s Choice and English.

Book for Reference:

Fundamentals of Comparative Literature - ENNES Publications.

Elective – II-C THE FOUR SKILLS FOR COMMUNICATION OBJECTIVE:

1. To sensitize students to effectivewriting

2. To expose them to higher order writing in different situations inlife.

3. To train students in specified types of formalwriting.

Unit I - Study Skills Unit II - Precis Writing Unit III - Report Writing Unit IV - Commercial Correspondence Unit V - Drafting LSRW Skills Book Prescribed: Writing Skills by Dr.Thailambal (ENNESPublications)



B. A. English Literature Syllabus w.e.f. 2023-2024 Onwards - Affiliated Colleges - Annexure No.4A SCAA date: 18.05.2023

SEMESTER VI

Elective – III-A Introduction to Linguistics.

SUBJECT DESCRIPTION:

This Paper gives the student

knowledge of Linguistics.

OBJECTIVE:

On successful completion of the paper the students should have come to know of Linguistics.

CONTENTS:

UNIT I: SECTION I- On Language &

Languages (Unit 1 to 8) UNIT II: SECTION

II- Linguistics (Unit 9 to 13)

UNIT III: SECTION III-Structural Linguistic(Unit 14 to 23) UNIT IV :

SECTION VI-

Other Approaches (Unit 39 to 41)

UNIT V: SECTION VII- Some Applications of Linguistics (Unit 42 to 45)Book to be prescribed:

Modern Linguistics. An

Introduction by S. K. Verma, N. Krishnaswamy. (OxfordUniversity Press)

Elective – III-B STUDYING NOVELS

OBJECTIVE

To help students segment and classify different aspects of a Novel

1. To enable students to recognize themes andtechniques

2. To train them in writing critiques of novels

Unit I – Authors

Unit II - Characters Unit III - Setting Unit

IV - Plot and Story Unit V - Themes

Book for Reference: Mastering English Literature - Richard Gill (MacMillan)

Elective – III-C TRANSLATION TASKS

OBJECTIVE: 1. To familiarize students with administrationterminologies in English and MotherTongue 2. To help them acquire a working knowledge in that field Unit I - Word and PhraseClassification Unit II - Note terms, forms of endorsement Unit III - Note Order, Official Letters Unit IV - Circulars, Proceedings Unit V - Government Orders, Announcements, Advertisements in

Newspapers, Official Notes.

Book for Reference: Translation Tasks - ENNES Publications



For the students admitted during the academic year 2020-2021 QUESTION PAPER PATTERNS FOR PAPERS – Maximum 75 Marks:

Section A – 10Marks Ten objective type questions from all units ($10 \times 1 = 10$), Section B – 25 Marks Five either or type questions of 5 marks each from all units. ($5 \times 5 = 25$), Section C – 40 Marks Five either or type questions from all units ($5 \times 8 = 40$)

QUESTION PAPER PATTERNS FOR PAPERS – Maximum 55 Marks:

Section A – 10 Marks Ten objective type questions from all units ($10 \times 1 = 10$), Section B – 15 Marks Five either or type questions of 5 marks each from all units. ($5 \times 3 = 15$), Section C – 30 Marks Five either or type questions from all units ($5 \times 6 = 30$)



(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 (PEOs)							
The B.C	The B.COM program describe accomplishments that graduates are expected to attain within						
five to se	ven years after graduation						
PEO1	Students will able to understand the concepts of commerce.						
DEO2	Programme aims to develop comprehensive professional skills which are required						
FEO2	for commerce graduates.						
DEO3	Students will develop an understanding of various commerce functions such as						
TEO5	finance, accounting, financial analysis, project evaluation, and cost accounting						
DEO/	Students will be able to prove the proficiency with the ability to engage exams						
I LO4	like C.A, C.S and CMA						
DEO5	Students can do commerce oriented research and consequence of this, they can						
TEO5	become Professors in Colleges and Universities						



Program Specific Outcomes (PSOs)							
After the	After the successful completion of B.COM program, the students are expected to						
PSO1	To provide strong base on the course relevant to the area of commerce which						
1501	helps to choose their career						
DSO2	To enhance knowledge and skills among students which built confident to						
1302	identify their career opportunities in multiple dimensions.						
	Nurture the students in intellectual, personal, interpersonal and social skills with a						
PSO3	focus on relevant professional career particularly, to maximize professional						
	growth.						
	Empower the students with necessary competencies and decision making skills to						
1304	foster the innovative thinking to become an entrepreneur						
DSO5	Strengthen the students to become expert in the field of communication with						
r505	ethical consciousness.						



Program Outcomes (POs)							
On succe	On successful completion of the B.COM program						
PO1	Build the wide range of knowledge in the areas of accounting concepts and techniques to meet the current and future requirement of the industry.						
PO2	Develop the strong knowledge in the areas such as finance, taxation and laws relating to commerce helps to relate the conceptual and analytical skills in the field of auditing, finance etc.						
PO3	Inculcate the students to nurture their skills in personal, interpersonal, intellectual and others skills to develop their professional career and growth.						
PO4	Disseminate students to develop decision making and problem solving skills to undertake their own venture as a feasible career option.						
PO5	Orient and motive the students to develop the needed knowledge in business and academics to develop their employability						



BHARATHIAR UNIVERSITY : : COIMBATORE 641 046 Bachelor of Commerce Curriculum (Affiliated Colleges)

	(For the students admitted during th	e academi	ic year 202	23 – 24 onw	ards)		
Course		~ ~	Η	ours	Ma	ximum	Marks
Code	Titleof theCourse	Credits	Theory	Practical	CIA	ESE	Total
	FIRSTSI	EMESTE	R	l.			
	Language-I	4	6	-	25	75	100
	English-I	4	6	-	25	75	100
	Core I Principles Of Accountancy	4	6	-	25	75	100
	Core II–Business Organization&Office Management	4	6	-	25	75	100
	Allied Paper I–Agricultural Economy of India	3	4	_	20	55	75
	Environmental Studies#	2	2	-	-	50	50
	Total	21	30		120	405	525
	SECOND	SEMEST	ER				
	Language-II	லக்கழகம்	6	-	25	75	100
	English-II	2	s, 4	-	25	25	50*
	Language Proficiency for Employability				25	25	50**
	http://kb.naanmudhalvan.in/Special:File path/Cambridge Course Details.pdf		فهر ا				
	CoreIII–Financial Accounting	24	6	-	25	75	100
	Core IV – Principles of Marketing	AR ANNE	5. 6660	_	25	75	100
	Allied Paper II –Economic Analysis	ப்பான3 உயர் CATE TO ELEVATE	881-94	-	20	55	75
	Value Education – HumanRights#	2	2	-	-	50	50
	Total	21	30		145	380	525
	THIRD S	EMESTE	R	[1	1	

Part

III

III

III

IV

Π

III III

III

IV	Value Education –	2	2	-	_	50	50
	HumanRights#		-			50	50
	Total	21	30		145	380	525
	THIRD S	EMESTE	ER				
Ι	Language -III	4	4		25	75	100
II	English -III	4	4		25	75	100
III	Core V –Higher Financial Accounting	4	5`		25	75	100
III	Core VI – Commercial Law	3	4		20	55	75
III	Core VII – Principles of Management	3	4		20	55	75
III	Allied : III - Mathematics for Business	3	4		20	55	75
IV	Skill based Subject -I : Business Application Software I	2	3		25	25	50
IV	Tamil@/Advanced Tamil#(or)Non-Major Elective– I				-	50	50
	Yoga for Human Excellence # /Women's Rights # Constitution	2	2				

	of India #							
	Total	25	30		1	60	465	625
	FOURT	'H SEM	IESTER				1	
[Language -IV	4	4		25	7:	5	100
Π	English- IV	4	4		25	75		100
Ш	Core VIII – Corporate Accounting- I	4	4		25	7:	5	100
II	CoreIX–Computer Applications in Business	3	3		20	5:	5	75
II	CoreX–Company Law and `Secretarial Practice	3	3		20	5:	5	75
II	CoreXI – Executive Business Communication	3	3		20	55	5	75
75III	Allied: IV:Statistics for Business	3	4		20	5.	5	75
IV	Skill based Subject-II: Naan Mudhalvan -Office Fundamentals	2 ககழக()	-	3	25		25	50
	http://kb.naanmudhalvan.in/B harathiar_University_(BU)		8711LL					
IV	Tamil @ / Advanced Tamil # (or)Non-major elective -II: General Awareness#	2	2	M	-		50	50
	Total	28	27	3	180		520	700
	FIFTH SEMESTER	IR UNIN						
III	Core XII –Corporate Accounting- II		3.8- 6 B		25	7	5	100
III	Core XIII – Banking Theory Law and Practices	TE TO ELEVATE	5		25	7	5	100
III	CoreXIV–Cost Accounting	4	5		25	7	'5	100
III	CoreXV–IncomeTax Law and Practice	4	6		25	7	'5	100
III	Elective–I:	3	5		20	5	5	75
IV	Skill based Subject-III: Business Application Software II	2	3		25	4	25	50
	Total	21	30		14	5 3	880	525
	SIXTH SEMESTER	T						
III	Core XVI – Management Accounting	4	6		25	5	75	100
III	Core XVII-Principles of Auditing	4	5		25	5	75	100
III	CoreXVIII-Indirect Taxes	3	5		20)	55	75
111	Core XIX:Computer Applications:MS-Word MS Excel and Tally9.2 –Practical	3	-	3	20)	55	75
III	Elective–II:	3	4		20	0	55	75
	Elective–III:	3	4		20)	55	75
IV	Skill based Subject-IV-Naan Mudhalvan- Fintech Course (Capital Markets / Digital Marketing / Operational Logistics)	2	3		25		25	50

B.Com. Syllabus w.e.f. 2023-2024 Onwards - Affiliated Colleges - Annexure No.40A SCAA date: 18.05.2023

	http://kb.naanmudhalvan.in/Bhar athiar_University_(BU)						
v	Extension Activities @	2	-	-	50	-	50
	TOTAL	24	27	3	205	395	600
	GRAND TOTAL	140	180				3500

- * English II- University semester examination will be conducted for 50 marks (As per existing pattern of Examination) and it will be converted for 25 marks.
- **Naan Mudhalvan Skill courses- external 25 marks will be assessed by Industry and internal will be offered by respective course teacher.



@ No University Examinations. Only Continuous Internal Assessment(CIA)

No Continuous Internal Assessment (CIA). Only UniversityExaminations.

List of	List of Elective Papers (Colleges can choose any one of the paper as electives)						
Elective – I	А	Business Finance					
	В	Brand Management					
	С	Fundamentals of Insurance					
Elective – II	А	Entrepreneurial Development					
	В	Supply Chain Management					
	С	Principles of Web Designing					
Elective - III	А	Financial Markets					
	В	Insurance Legislative Framework					
	С	Project Work					





Course code			L	Т	Р	С			
Core -1		Principles of Accountancy	4			4			
Pre-requisite		Basic knowledge in Accountancy	Sylla Vers	abus sion	202 202	22- 23			
Course Object	ives:		•						
The main object	tives of thi	s course are to:							
1. To enable the students to learn basic Principles of Accountancy.									
2. To make t	he students	s skillfully to prepare and present the final accounts	of sole	trader	•				
3. To learn a	bout variou	is types of errors and calculation of depreciation in	account	S.					
4. To undersu	anu about knowledo	e about consignment and joint ventures	oression	ais					
5. 10 piovide	, KIIO WIEUZ	e about consignment and joint ventures							
Expected Cour	se Outcon	nes:							
On the success	ful comple	etion of the course, student will be able to:							
1 Recalling	g Account	ing Concepts and Conventions and use Account	ing rule	s to					
record by	usiness tra	nsactions in the form of Journal, Ledger, subsidiar	y books	and	K	.1			
preparati	on of Trial	Balance.							
2 Understa	nd the prer	steps involved in locating errors and prepare them t	0		K	3			
3 Outline t	he concept	s of Bills of exchange. Average due date and Acco	unt Curr	ent	К	2			
4 Examine	the concer	ts of consignment and joint venture		0110	K	<u>.</u> .7			
5 Analyze	the bank	reconciliation statement Receipts and payments	Income	and		. –			
expendit	ure and B	alance sheet and accounting for professionals to	enhance	the	K	4			
knowled	ge.	A THE TOP ST IS							
K1 - Remembe	er; K2 - U1	nderstand; K3 - Apply; K4 - Ana lyze; K5 - Evaluat	e; K6 - 0	Create					
		A BEACH AND A BEACH							
Unit:1	-fD1-V	EDUCATE TO ELEVATE	1	7ho	urs				
Fundamentals	OI BOOK K	eeping – Accounting -Definition – Accounting Con-	Lournal	l Iec	laer				
–Subsidiary bo	ooks – Tria	l balance.	Journai	- Lu	igei				
Unit:2			1	8ho	ırs				
Final accounts	of a sole t	rader: Trading A/c,Profit and Loss A/c and Balance Sho	eet- Adju	stment	s:				
Closing stock -	Jutstanding	Expenses Accrued Income- Income Received in Advar	ice– Bad	debts -	– Ba	t			
	s-Depreciati	on-Aujustment entries – Errors and rectification.							
Unit:3				15ł	our	S			
Bill of exchange- Accommodation bills – Average due date – Account current									
Unit:4				20ł	our	S			
Accounting for	r consignm	ents and Joint ventures							
Unit:5				18ł	our	S			
Bank Reconcil	iation state	ement – Accounts of Professionals and Non-profit (Organiza	tion:					
Receipts and P	ayments a	nd Income and Expenditure account and Balance sh	neet						

B.Com. Syllabus w.e.f. 2023-2024 Onwards - Affiliated Colleges - Annexure No.40A SCAA date: 18.05.2023

U	nit:6	Contemporary Issues	2 hours						
Ex	Expert lectures, online seminars – webinars								
		Total Lecture hours	90hours						
Te	ext Book(s)								
1.	S.P. Jain	and K.L.Narang - Principles of Accountancy, Kalyani Publi	shers						
2	N.Vinaya	kam, P.L.Mani, K.L.Nagarajan – Principles of Accountancy							
3	T.S.Grewa	al – Introduction to Accountancy- S.Chand & Company Ltd.,							
4	R.L.Gupta	, V.K.Gupta, M.C.Shukla – Financial Accounting – Sultanchan	ıd & sons						
Re	eference Bo	ooks							
1	K.L.Nara	ng, S.N.Maheswari - Advanced Accountancy-Kalyani publisher	rs						
2	A.Murthy	-Financial Accounting – Margham Publishers							
3	A.Mukher	jee, M.Hanif – Modern Accountancy. Vol.1- Tata McGraw Hil	l Companie						
`R	elated Onl	ine Contents [MOOC, SWAYAM, NPTEL, Websites, Other	Online resources						
ete	c.]								
1	https://www. =PERE#	bing.com/search?PC=U523&q=principles+of+accounting+lecture+note	s+pdf&first=11&FORM						
	https://www.bing.com/search?q=principles+of+accountancy+swayam+notes&qs=NWU&pq=principles+of+								
2	2 accountancy+swayam+notes≻=10-								
3	p&&CVI0=U2F0B455F5/24BABB04ED049FU405BDA&FUKM=UBKE&sp=1#								
5	in ponty outu								
Co	ourse Desig	ned By:							

Mapping Course objectives and course outcomes							
	PO1	PO2	PO3	PO4	PO5		
CO1	S	S	TE TO ELEVATE S	S	S		
CO2	S	S	S	S	М		
CO3	S	М	М	S	М		
CO4	S	S	S	S	М		
CO5	S	S	М	М	L		

and is

Сош	rso codo					т	т	р	C
Cor	e- 2		Business Orga	nization and	Office Management	1 4	1	1	4
Pr	e-requisite		Basic kn	nowledge in N	Ianagement	Syl Vei	labus sion	202 202	2- 3
Сот	rse Object	tives:				,	JIOII	_0_	
The	main objec	ctives of thi	course are to:						
1.	To unders	stand differ	nt forms of organ	ization					
2.	To unders	tand variou	factors affecting	business orga	nization and functioning	ng of	stock		
_	exchange								
3.	To provid	e insight ab	out office function	ning, data proc	essing system and ED	Р			
Exp	the succes	rse Outcon	es:	student will k	a able to:				
1	Underst	anding the	oncepts of busine	s and its form	be able to.	olved	in	K	2
1	sole trad	ler, partners	nip firms, compan	ies and co-op	erative societies and p	ublic	. 111	К	.2
	enterpris	se.	np mins, company	nes una co op	eran ve soorenes and p				
2	Analyzi	ng the busin	ess factors which	are involved i	n sources of finance.			K	4
3	Explaini	ing the func	ioning of stock ex	kchanges SEB	I, DEMAT of shares.			K	2
4	Remem	bering offic	e functions, layout	t and accomm	odation.			K	.1
5 Outlining office equipments and EDP.					K	2			
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create									
Unit:1 17hours							ŝ		
Na Co	ture and sco mpanies an	ope of Busi nd Co-opera	ness, Forms of Bu ive Societies – Pu	siness Organis ablic Enterpris	sation – Sole Trader, F e.	artne	rship	firm	.s,
Ur	nit:2		Sold State	Coimbatore	LEL GOIN		20h	our	'S
Lo Tr	cation of E ade Associ	Business – ation-Cha i	actors influencin ther of Commerce	g location, lo ce.	calization of industrie	s- Si	ze of	firm	18-
Ur	nit:3						17h	our	'S
Sto	ock Exchan	ge - Functio	ns – Procedure of	Trading – Fu	nctions of SEBI – DEI	MAT	of sha	ares-	-
Ur	nit:4						20h	our	'S
Of Inc	fice – Its fu lexing	inctions and	significance – Of	fice layout and	d office accommodation	on – F	iling a	and	
TT-	.:+.5				Ι		11 L	0117	
	Unit:5 14hours							8	
Office Furniture.									
Ur	nit:6		Contemp	orary Issues			2	hou	rs
Ex	pert lecture	es, online se	ninars - webinars						
				Tot	al Lecture hours		90	hou	irs
		L		100			20		- 0

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Te	ext Book(s)					
1	Y.K.Bhushan – Business Organisation and Management – Sultanchand & sons					
2	Shukla - Business Organisation and Management – S.Chand & Company Ltd.,					
3	Saksena – Business Administration and Management – Sahitya Bhavan					
4	C.B.Gupta, Business Organisation, Sultan Chand& Sons, New Delhi,					
Re	eference Books					
1	Singh.B.P & Chopra - Business Organisation and Management – Dhanpat Rai & sons					
2	R.K.Chopra – Office Management – Himalaya Publishing House					
3	J.C.Deneyer - Office Management					
R	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]					
1	1 http://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_module_pg.php/389					
2	https://www.youtube.com/watch?v=rqoMeEAFxMo					
3	https://sol.du.ac.in/SOLSite/Courses/UG/StudyMaterial/02/Part1/BOM/English/SM-1.pdf					

Course Designed By:

Mapping Course objectives and course outcomes								
	PO1	PO2	PO3	PO4	PO5			
CO1	S	S	S	М	М			
CO2	S	S	S g	М	S			
CO3	S	S	S	М	S			
CO4	S	E STRATHI	R UNIVIS	М	М			
CO5	S	S. I. B. S. S.	(vimbatore M Gel	М	L			

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

EDUCATE TO ELEVATE

Course code														L	Т	Р	С
Allied - 1			Ag	ricult	tura	al E	con	om	y o	of Iı	ndi	a		4			4
Pre-requisite		Basic k	knowled	dge in	n Ag	gricu	ltur	al]	Eco	onoi	my			Syl Vei	labus rsion	202 202	2- 3
Course Object	tives:																
The main object	ctives of thi	is course	e are to:	:													
1. To know t	the agricult	ural eco	onomy c	of Indi	112	h											
2. To unders	and the co	e on lan	of agric	cultura me	ai ia	adoui	S										
4. To aware	about Agric	cultural	Market	ting													
5.																	
Expected Course Outcomes:																	
On the succes	sful comple	etion of	the cou	urse, s	stude	ent w	vill t	be a	able	to:							
1 Underst of agric	and the Age ulture in Ine	ricultura dia	al Econ	iomy c	of th	ne In	dia a	and	me	easu	re t	he d	evelo	opme	nt	K	2
2 Identify revolution	the problem	ms and j	prospec	ets of l	Indi	ian ag	gric	ultu	ire a	and	imj	orta	ance	of gre	en	K	12
3 Study th	ne agricultur	ral marl	keting, j	pricin	ng ar	nd th	eir e	effe	ct r	narl	ceti	ng sy	ysten	1		K	12
4 Outline	the land ter	nure and	d land c	eiling	g sys	stem	in I	ndia	a							K	51
5 Underst	and the role	e of agri	icultura	l bank	ks fo	or ru	ral e	ecor	nom	nic (leve	elop	ment			K	2
K1 - Rememb	ber; K2 - Ui	nderstar	nd; K3	- App	oly; l	K4 -	Ana	alyz	ze; i	K5	- Ev	alu	ate; I	X6 - (Create		
X 1 4			புதி	K a	4			ġġ			1			1	10.1		
Unit:1				Frank	See.	grad and	27	3.	-		-				121	lour	'S
poverty. Agricu Development of	ulture : S	pecial re–Progr	Feature ress of A	Agrici		re du	use: uring	s c g th	of] le p	Bac lan	kwa peri	ordn od.	ess—l	Measu	ures	for	the
Unit:2															12ł	our	s
Agricultural Lal and Incomlabor Mechanisation–	bour and M rasures to Problems a	Iechanis improv and Pros	sation c the the c spects.	of Agr condit	ricul tions	lture s of	: Ag lab	gric oou	ultı r —	ıral Gı	Lal	oour Re	– N volu	/leani tions	ng – – Ei	Wa ffect	iges s –
Unit:3															12ł	our	s
Agricultural Marketing and Pricing :Causes and Consequences of Defective Agricultural Marketing System – Measures to improve marketing system – Agricultural Prices – ImportanceofPriceStability– CausesandconsequencesofPricefluctuations–Agricultural Price Price commission– minimum Prices for Agricultural goods–Procurement policy.																	
Unit:4															12ł	our	'S
Land Tenure system in India – Need for land Reform- abolition of intermediaries –Tenancy Legislation–Land ceiling–Land Reforms and land Tenure: Meaning of Land Tenure–Types – Abolition of intermediaries – Effects Measures to ensure the security of Tenure – Importance of Land Reforms – Various Measures.							of										
Unit:5															10ł	our	S

B.Com. Syllabus w.e.f. 2023-2024 Onwards - Affiliated Colleges - Annexure No.40A SCAA date: 18.05.2023

Agricultural Finance : Causes and Consequences of rural indebtedness – Measures to remove rural indebtedness – Agricultural Finance – Need – Types – Role of Institutions supporting Agricultural finance :Co-operative banks and commercial banks –NABARD.

U	nit:6	(Contemp	orary Issues	2 hours				
Ex	pert lecture	es, online seminars -	webinars						
				Total Lecture hours	60hours				
Te	Text Book(s)								
1	IndianAgri	culture:Problems,Pro	gressandP	roscpects - SankaranS					
2	Indian Eco	nomy	-	Ruddar DuttandSundaram					
Re	Reference Books								
1	TheIndian	Economy	-	Dhingra					
2	IndianEcor	omicProblems	-	Alak Ghosh					
R	elated Onli	ne Contents [MOO	C, SWAY	YAM, NPTEL, Websites etc.]					
1									
2									
3	3 லலக்கழகம்								
	Se Car								
C	ourse Desig	ned By:	1-6 1.6						

Mapping Course objectives and course outcomes									
PO1 PO2 PO3 PO4 PO5									
CO1	S	S	S	S	М				
CO2	S	Star S	R UN M Ster	S	S				
CO3	М	S Bib & Bib Bi	Soor 2 US ball	S	S				
CO4	S	S	TE TO ELEVATE	М	М				
CO5	М	М	S	S	М				



Cou	rse code			L	Т	Р	С		
Core	e- 3		Financial Accounting	4			4		
Pre	e-requisite	2	Basic Knowledge in Accounting	Sylla Vers	ibus 2 ion 2	.022- .023			
Cou	rse Object	tives:							
The	main objec	ctives of thi	s course are to:						
1.	To explore	e various m	ethods of calculating and recording depreciation						
2.	2. To make them to understand about royalties and investment accounts								
3. To offer an idea about single entry system of accounts									
4. To promote knowledge about departmental and branch accounting 5. To inculate knowledge shout hire purchase and installment system of accounting									
5.	10 meulea		ge about fine purchase and instantient system of acco	unung	5				
Exp	ected Cou	rse Outcon	nes:						
On	the succes	sful comple	etion of the course, student will be able to:						
1	Describ	ing the con	cepts based on depreciation and its methods in books of	of		K	1		
	account	s.							
2	Outline	about the n	ature of Investment and Royal excluding Sublease.			K	2		
3 Identifying the essential characteristics of single entry system.					K	3			
4 Applying the basic concepts of departmental and branch accounting.						K	4		
5	Familia	rize the pro	cedure relating to hire purchase and installment in boo	ks of		K	2		
	account	S							
K1	- Rememb	ber; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create				
TT	.4.1	[and a second		10 1		-		
Un	IU:1	D		f	181	iour	S		
depr	ounting for recistion- n	Depreciality of the set of the se	on – Depreciation Meaning- Causes -need and significan		nnuit	1 7			
Sink	ing fund (H	Excluding cl	anging method of Depreciation). Reserves and Provisi	on.	mun	y ,			
	8		COUCATE TO ELEVAIL						
Un	it:2				18l	nour	S		
Sin	gle Entry s	system-mea	ning and features-Statement of affairs method and Co	nversi	on m	etho	d		
TT					10 1				
	IC:3	accounts	transfors at cost or selling price. Brench evaluding fo	roign	181	hog	S		
De	partificitiai		transfers at cost of senting price –Branch excluding to	leigh	oranc	nes			
Un	it:4				191	our	S		
Hir	e purchase	and instalr	nent systems including Hire Purchasing Trading accou	ınt- G	oods	onsa	le		
or l	Return								
T T_	:4.5				15 1		-		
	IU:5	ding Subla	and Human Descurse Accounting and Inflation A		131 ting	iour	S		
(Th	neory only)		ase - Human Resource Accounting and Innation Ac	coun	ung				
Un	it:6		Contemporary Issues		2	hou	rs		
Ext	pert lecture	s, online se	minars - webinars		_				
			Total Lecture hours		90l	our	S		
				-		-			

Te	ext Book(s)
1	Advanced Accountancy - R.L.Gupta & M.Radhasamy
2	Advanced Accountancy - S.P.Jain & K.L.Narang
Re	eference Books
1	Advanced Accountancy - M.C.Shukla & T.S.Grewal
2	Finanacial Accounting - T.S.Reddy & A.Murthy
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://sol.du.ac.in/solsite/Courses/UG/StudyMaterial/02/Part1/FA/English/SM1.pdf
2	https://nios.ac.in/media/documents/Seccour224New/ch_12.pdf
3	www.accountinghub-online.com/accounting-for-hire-purchase
Co	ourse Designed By:

Mapping Course objectives and course outcomes									
PO1 PO2 PO3 PO4 PO5									
C01	S	S	S நகுழகு	S	S				
CO2	S	M	S	S	М				
CO3	S	M	M	S	М				
CO4	S	S	S S	S	М				
CO5	S	M	M	М	L				
*S-Strong; M-Medium; L-Low									
		ூத்தப்	LITEON 2 WITEP						

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Cour	rse code			L	Т	Р	С		
Core	- 4		Principles of Marketing	4			4 4		
Pre	-requisite)	Basic knowledge in Marketing	Sylla Vers	bus 2 ion 2	2022- 2023			
Cou	rse Object	tives:							
The 1	main objec	ctives of thi	s course are to:						
 To conceptualize an idea about marketing and related terms To provide insight about various forms and types of marketing To analyze various components of marketing channels To understand various concepts relating to consumer behavior To introduce the components of marketing mix To understand the importance of retailing in today's context To understand emerging marketing trends and regulatory mechanisms 									
Expe	ected Cou	rse Outcor	nes:						
On	the succes	sful comple	etion of the course, student will be able to:						
1	Defining	g the variou	is concepts and terms related to marketing			K	.1		
2	2 Explaining about various marketing functions					K2			
3	3 Understanding terms of consumer behaviour and examined about different K2						.2		
4	concepts related to consumers.						<u>- 1</u>		
4	4 Identifying the marketing mix and its elements KI						.1		
) 1/1	Underst	anding diff	erent provisions related to trends in emerging market	is.	N .	K	.2		
KI	- Rememt	ber; $\mathbf{K2} - \mathbf{U}$	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	; K6 - (reate	•			
Uni	+•1		Ban HIAR UN		10 1	20118			
Mar cont and	rketing –E cept-Glob I Governn	Definition o al Marketir nent: Bure	f market and marketing-Importance of marketing - ng - Marketing Ethics -Career Opportunities in Mar au of Indian Standards- Agmark	-Moder keting-	n Mar Mar	rketi keti	ng ng		
Uni	t:2				18l	iour	'S		
Mar Star	cketing fur ndardisatio	nctions-Buy on – Market	ring –Selling –Transportation –Storage – Financing - t Information	-Risk B	earing	g —			
∐ni	t·3				181	1011r	·c		
Con	isumer Be sumer beh	haviour –m aviour-Ma	eaning –Need for studying consumer behaviour-Fac ket segmentation – Customer Relations Marketing	tors infl	uenci	ing	5		
I Ini	Unit.4 10 hours								
Mar Pric Pron Imp	Unit:419hoursMarketing Mix – Product mix –Meaning of Product –Product life cycle –Branding-labelling- Price Mix-Importance-Pricing objectives - Pricing strategies –Personal selling and Sales Promotion - Place mix-Importance of channels of distribution –Functions of middlemen– Importance of retailing in today's context								

Unit:5		15hours					
New Approac	nes in Marketing: –E-marketing –Tele marketing -Web-Based Mar	keting- Multi Level					
Marketing- Sc	Marketing- Social Media Marketing – Neuro-marketing – Green marketing –Referral marketing- Social						
responsibility	in marketing - Ethics in Marketing -Consumerism – Consumer Pro	tecting – Rights of					
consumers-F	orward Trading in Commodities						
Unit:6	Contemporary Issues	2 hours					
Expert lectur	es, online seminars - webinars						
	Total Lecture hours	90hours					
Text Book(s							
1 Marketin	g Management - Rajan Sexena						
2 Principles	2 Principles of Marketing - Philip Kotler & Gary Armstrong						
3 Marketin	g Management - V.S. Ramasamy and Namakumari						
4 Marketin	4 Marketing Management – S.A.Sherlekhar and R.Krishnamoorthy, Himalaya Publishing House						
Reference B	ooks						
1 Marketin	g-William G.Zikmund & Michael D'Amico						
2 Marketing	g - R.S.N.Pillai &Bagavathi						
I							
Related Onl	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1 http://www.	uobabylon.edu.iq/eprints/paper_12_19309_1049.pdf						
2 http://www.himpub.com/documents/Chapter903.pdf							
3 http://www.himpub.com/documents/Chapter903.pdf							
THIAR UNING B							
Course Designed By:							
	EDUCATE TO ELEVATE						

Mapping Course objectives and course outcomes										
	PO1 PO2 PO3 PO4 PO5									
CO1	S	S	М	S	S					
CO2	S	S	М	S	М					
CO3	S	S	S	М	М					
CO4	S	S	М	М	М					
CO5	S	S	S	S	М					

Cou	rse code						С
Allie	d 2		Economic Analysis	4			4
Pre	e-requisite	1	Basic knowledge in Economics	Syll Ver	labus sion	202 202	2- 3
Cou	rse Object	tives:					
The	main objec	ctives of thi	s course are to:				
1.	To recall t	he fundame	entals of micro economics				
2.	To get ins	ight on law	of demand, supply and theories of production				
⊃. ⊢∕I	To analyse To know t	be theories	on wages rent interest and profit				
4.	I U KIIUW I	ine uncorres	on wages, rent, interest and profit.				
Exp	ected Cou	rse Outcon	nes:				
On	the succes	sful comple	tion of the course, student will be able to:				
1	Underst	and The Fu	ndamentals of Micro Economic And Theory Consum	ner		K	2
	Behavio	our					
2	Learn th	e concepts	of demand and elasticities of demand			K	2
3	Underst	and theories	s of production, cost and revenue concepts			K	2
4	Analyse	the price a	nd output determination under various market structu	ires		K	4
5	Acquire	knowledge	on theories of productivity and wages			K	2
K1	- Rememb	er: K2 - Ur	nderstand: K3 - Apply: K4 - Analyze: K5 - Evaluate	K6 - (reate		
				, 220 0			
Uni	it:1				12h	our	s
SCO Utili Appi	PE AND tyanalysis- roaches of	METHOD -Lawofdim Economic	OLOGY:Definition of Economics – Nature and a inishingutility–LawofEqui Marginal utility – Ind Analysis–Methodologyof Economics.	Scopeo: differen	fEcon	omi urve	cs-
Uni	it:2		EBUCATE TO ELEVATE		12h	our	S
ELE Curv	MENTS C re – Elastic	OF DEMAN	ID :Demand Analysis–Demand Schedule – Law of and – Price, Income and Cross–Consumer'sSurplus.	Demar	nd – I	Dem	and
Uni	it:3				12h	our	s
THE Varia Curv Uni	ORY OF I able Propo res.	PRODUCT prtions – R	ION: Factors of Production–Law of Diminishing Leturn to Scale – Law of Supply - Costand Reve	Return nue– C	ls – 1 oncep	Law ots a	of ind
		<u> </u>			11		~
PRO Firm – Pri	DUCT PR and Indus cing Unde	CICING : M try – Pricin r Monopoli	Iarket Definition – Types – Equilibrium Under Perg – Pricing Under Perfect Competition, Monopoly – Istic Competition – Pricing under Oligopoly.	fect Co Price Di	mpeti	tion inat	of ion
Uni	it:5				10h	our	s
FAC	TOR PRIC	CING – Ma	rginal Productivity Theory – Theories ofwages, rent,	interest	andp	ofit	
Uni	it:6		Contemporary Issues		2	hou	rs
Exr	pert lecture	s, online se	minars - webinars		4		
<u></u>		.,					
			Total Lecture hours		60	hou	rs

T	ext Book(s)		
1	EconomicAnalysis	-	S.Sankaran
2	PrincipalsofEconomics	-	Seth M.L.
R	eference Books		
1	MicroEconomicTheory	-	M.L.Jhingan
2	EconomicAnalysis - S.Sankara	n	
R	elated Online Contents [MOOC, SWAYAM, N	PTF	CL, Websites etc.]
1			
2			
4			
C	ourse Designed By:		



B.Com. Syllabus w.e.f. 2023-2024 Onwards - Affiliated Colleges - Annexure No.40A SCAA date: 18.05.2023



Cou	irse code			L	Т	Р	С			
Cor	e- 5		Higher Financial Accounting	4			4			
Pr	e-requisite		Basic knowledge in Accounting	Syllabus2022-Version2023						
Cou	rse Object	tives:								
The	main objec	ctives of thi	s course are to:							
1.	To provid	e insight ab	out maintaining partnership accounts							
2.	2. To promote understanding about maintaining books of accounts at the time of retirement									
3.	3. To offer understanding about dissolution and insolvency of partnership									
4.	4. To facilitate knowledge about individual insolvency and claims									
5.	To promo	te knowledg	ge about human resource and inflation accounting							
Exp	ected Cou	rse Outcon	nes:							
On	the succes	sful comple	tion of the course, student will be able to:							
1	Underst	anding the	pasic concepts of partner and procedures related to calc	culati	on	K	2			
	of ratios									
2	Acquiri	ng the princ	iple at the time of retirement in the books of partner			K	.1			
3	Analyzi	ng dissoluti	on and insolvency of firms and individuals.			K	4			
4	Evaluate the insolvency or loss of individuals or firms.					K	.5			
5	5 Examine the concepts based on voyage, Human resource and inflation accounting.						.4			
K1	- Rememb	oer; K2 - Ui	nderstand; <mark>K3</mark> - Apply; K4 - Analyze; K5 - Evaluate; H	X6 - (Create					
Un	nit:1		a contraction of the second seco		15ł	our	S			
Int Lia	roduction- abilities - C	Admission alculation of	of a Partner - Treatment of Goodwill - Revaluation of of Ratios for Distribution of Profits - Capital Adjustment	Asset nts.	s and					
Un	it·?		COUCATE TO ELEVAIC		18ł	m	·s			
Re	tirement of	f Partner -	Calculation of Gaining Ratio- Revaluation of Asse	ts and	101 1 Lia	hiliti	s es			
Tre Ac	eatment of counts - Re	Goodwill etiring Partr	 Adjustment of Goodwill through Capital A/c only her's Loan Account with equal Installments only. 	/ - Se	ettlem	ient	of			
TT	••• •				1					
	11:3	T 1			<u>15h</u>	iour	S			
Dis A/c	cPiecem	eal Distribu	tion - Proportionate Capital Method only.	ners -	Denc	cienc	y			
Un	it:4				15ŀ	our	s			
Ins	olvency of	Individuals	and Firms – Fire Claims : Normal Loss – Abnormal L	LOSS						
Un	it:5				10ł	our	S			
Vo	yage Acco	unts – Inve	stment Accounts							
TT	.it.6		Contomporery Issues			har	rc			
Ev.	nert lecture	s online se	minars - webinars		2	nou	1.2			
		is, on the se								
			Total Lecture hours	7	/5ho	ours				

Text Book(s)
1 S.P. Jain & K.L. Narang, "Advanced Accounting", Kalyani Publications, NewDelhi.
2 Reddy & Murthy, "Financial Accounting", Margham Publicatuions, Chennai, 2004.
3 Dr. M. A. Arulanandam, Dr. K.S. Raman, "Advanced Accountancy Part-I", Himalaya
Publication, New Delhi.
Reference Books
1 Gupta R.L. & Radhaswamy M.,"Corporate Accounts ", Theory Method and Application -
13th Revised Edition 2006, Sultan Chand & Co., New Delhi .
2 Shukla M.C., Grewal T.S. & Gupta S.L., "Advanced Accountancy", S. Chand & Co.,
NewDelhi.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 http://ebooks.lpude.in/commerce/bcom/term_2/DCOM104_FINANCIAL_ACCOUNTING_II.pdf
2 https://ncert.nic.in/textbook/pdf/leac102.pdf
3
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Course Designed By:

Mapping Course objectives and course outcomes								
	PO1	PO2	PO3	PO4	PO5			
CO1	S	S	S	S	М			
CO2	S	SESTRAT	M	S	L			
CO3	S	S Source is	Combare B Bolef	S	М			
CO4	S		あ山」」ITG M 2 山市 あや UCATE TO ELEVATE	S	М			
CO5	S	S	М	S	М			

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Course code			T.	Т	Р	С			
Core- 6		Commercial Law		•	-	4			
Pre-requisit	e	Basic knowledge in Commercial Law	4 Sylla Versi	bus ion	202 202	- 22- 23			
Course Obje	ctives:								
The main obje	ectives of thi	s course are to:							
1. To provi	de knowledg	e about basics of business contract							
2. To create	knowledge	about the regulations of agency system							
3. To under	stand the rul	es of indemnity and guarantee	lowe	nd					
4. To other knowledge about the sale and transfer of goods and the applicable faws and regulations									
Tegulatio									
Expected Co	arse Outcor	nes:							
1Assessing the various elements related business law and contractH									
2 Interpr	eting differe	ting different type of contract and its features							
3 Explain	n about the a	gency system related to creation and termination of ag	ency		K	5			
4 Compa	are between rights and duties of indemnity, guarantee				K	5			
5 Examin	Examine the distinct between sale and agreement to sell and its features				K	4			
K1 - Remem	ber; K2 - U	nderstand; K3 - Apply; K4 - Analy ze; K5 - Evaluate; I	K6 - (Create	e				
			-						
Unit:1				12	hour	S			
Law – Meanin contracts – Es Void agreeme	ng and objec sentials of a nt.	ts – Mercantile law, meaning – Sources of contracts – valid contract – Offer, acceptance, legality of object a	Class nd co	ificat nside	ion c ratio	of n —			
Unit:2		Share Bitter and a with the		12	hour	s			
Capacity to co	ontract – Fre	e consent – Quasi contracts – Contingent contracts – P	erforr	nance	e of	5			
contract – Dis	charge of co	ntract – Remedies for breach of contract.							
Unit:3			<u> </u>						
ratification– C	Conditions a	ation of Agency – Personal hability of an Agent – Agender de effects – Termination of Agency.		У					
Unit:4				121	hour	S			
Contract of in	demnity and	guarantee – Rights and Liabilities of surety – Dischar	ge of	suret	у —				
Bailment – Ri	ghts and Du	ties of bailor and bailee – Pledge by non-owners.							
Unit:5				12]	hour	S			
Law of sale of	f goods – Di	stinction between sale and agreement to sell - Conditi	ons a	nd wa	arran	ties			
to sell – Conc	litions and V	Varranties – Transfer of Ownership – Transfer of title	by N	lon-o	wnei	rs –			
Performance	of contract o	r sale – Rights and Duties of buyer – Rights of unpaid	seller	•					
Unit:6		Contemporary Issues		2	hou	rs			
Expert lectur	es, online se	minars - webinars							
		Total Lecture hours		60-	-hou	rs			

Te	ext Book(s)						
1	N.D.Kapoor Business Laws – Sulthan Chand &Sons						
2	2 R.S.N. Pillai and Bagavathy Business Laws- S.Chand &Co						
Re	eference Books						
1	M.C.Kuchhal Mercantile LawVikas Publications						
2	K.R.BulchandaniBusinessLaw Himalaya PublishingHouse						
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://legislative.gov.in/sites/default/files/A1872-09.pdf						
2	https://www.acecollege.in/CITS_Upload/Downloads/Books/1029_File.pdf						
Co	ourse Designed By:						

Mapping Course objectives and course outcomes								
	PO1	PO2	PO3	PO4	PO5			
CO1	S	S	S BES BLD	S	S			
CO2	S	S	S	S	S			
CO3	S	S	S E	S	S			
CO4	S	S	S	S	М			
CO5	S	S	S	S	М			

1- Goldon

Course cod	e		L	Т	Р	С				
Core- 7		Principles of Management	4			4				
Pre-requi	site	Basic knowledge in Management	Sylla Vers	ibus 2 ion 2	2022- 2023					
Course Ob	jectives:									
The main o	ojectives of t	his course are to:								
1. To pro	vide underst	anding about basic terminologies of management								
2. To exp	lore the fund	lamental principles, process and steps in management ir	ncludir	ıg pla	nnin	g				
3. To dev	elop knowle	dge about organizing function in business								
4. To exp	4. To explore the concept of motivation in organizational context 5. To generate ideas about effective communication in the business									
5. 10 gei	erate fueas a	bout effective communication in the business								
Expected (Course Outc	omes:								
On the suc	cessful com	bletion of the course, student will be able to:								
1 Exp	aining the co	ncepts based on management and its features			K	2				
2 Sum	marizing the	principles and importance of planning			K	2				
3 Inter	preting vario	us concepts based on organization and its element			K	2				
4 Exa	Examining the determinants of behaviour and motivation theories					4				
5 Und	5 Understanding the need and techniques of communication in management									
K1 - Rem	ember; K2 -	Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create	;					
		a real and a								
Unit:1				10l	iour	S				
- Functions Mc Gregor	of Manageme of Managen and Peter F.	ent – Management and Administration – Nature and Sco ent - Contribution of F.W. Taylor – Heniry Fayol – Ma Drucker.	pe of N ary Pai	/lanag rker F	Folle	nt t –				
11.4.0		20 Miguinous a with		10 1						
Unit:2	Maanina	COUCATE TO ELEVATE		121	10ur	S				
Types of p	lans – Decis	ion Making.	s – Me	thods	and					
Unit:3				121	iour	'S				
Organizati	on – Meanin	g, Nature and Importance – Process of Organization – P	rincip	les of	Sou	nd				
Organizati – Delegat andStaff.	on – Organiz on and Dec	cation Structure – Span of Control – Organization Chart entralization – Authority relationship Line, Functional	- Depa l	artme	ntati	on				
Unit:4		Τ		131	10111	s				
Motivatio	n - Need - D	eterminants of behaviour – Maslow's Theory of Motiva	ation –	- Mot	ivati	on				
Theories i	n Manageme	ent – X, Y and Z theories – Leadership styles – MBO	– Man	agen	nent	by				
Exception										
Unit:5				111	iour	S				
Communi and proces	cation in Ma	nagement – Co-Ordination – Need and Techniques – Co	ontrol -	– Nat	ure					
prove										
B.Com. Syllabus w.e.f. 2023-2024 Onwards - Affiliated Colleges - Annexure No.40A SCAA date: 18.05.2023

U	nit:6	Contemporary Issues	2 hours
Ex	pert lecture	es, online seminars - webinars	
		Total Lecture hours	60hours
Te	ext Book(s)		
1	The Princi	ples of Management - Rustom S. Davan	
2	Business (Organization and Management - Y. K. Bhushan	
3	Business I	Management - Chatterjee	
Re	eference Bo	ooks	
1	Principles	of Management - Koontz and O'Donald	
2	Business I	Management - Dinkar - Pagare	
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	file:///C:/User	s/welcome/Downloads/Principles%20of%20Management%20(%20PDFDri	ve%20).pdf
2	https://resourc	ces.saylor.org/wwwresources/archived/site/textbooks/Principles%20of%20M	lanagement.pdf
		லக்கும்க	
Co	ourse Desig	ned By:	

Mapping Course objectives and course outcomes										
	PO1	PO2	PO3	PO4	PO5					
CO1	S	S	SSS	S	S					
CO2	S	Season	R SNINL Steps	S	S					
CO3	S	S Siber Bitsi	S uncont 2 with BL	S	S					
CO4	S	S	TE TOMVATE	S	S					
CO5	S	S	S	Μ	М					

Course code							L	Т	P	С
Allied 3			Mather	matics for	Business		4 C11-	h		4
Pre-requisite	•	E	Basic know	vledge in	Mathemati	CS	Sylla Vers	ion 2	.022- 2023	
Course Object	tives:									
The main object	ctives of thi	s course ar	e to:							
1. Understand	l and apply	basics of a	pplications	of mathe	ematics in bu	isiness				
2. Make the s	students to	be ready fo	or solving l	business	problems us	ing mathem	atica	l		
operations.	ight lineaul	daa ahayt	voriables	aanstanta	and functio	20				
5. Provide ins	nowledge c	integral	calculus a	nd deter	and function nining defir	ns. uite and inde	finite	2		
functions.	nownedge (in integral	culculus u	ind deteri	inning dern					
5. Analyze th	e linear pro	gramming	problem b	oy using	graphical so	lution and s	imple	e		
method.	_		-							
Expected Cou	rea Auteor	noc.								
On the succes	sful comple	etion of the	course, sti	udent wil	be able to:					
1 Underst	and the bas	ic concepts	s of arithme	etic and g	eometric ser	ries and diff	erent			
effectiv	e rates of in	terest for s	inking fund	d, annuity	and presen	t value.			K 2	
2 Recall t	he basic con	ncepts of a	ddition and	l multipli	cation analy	sis and			K 1	
input an	nd output an	alysis.			E.				K1	
3 Explain	of variable	s, constants	s and funct	tions and	evaluate the	first and see	cond		K2	
4 Interpre	t integral ca	alculus and	determinin	ng definit	e and indefin	nite functior	IS.		K2	
5 Analyze	e the linear	programmi	ng problen	n by using	g graphical s	olution and			17.4	
simple 1	method.		Be PAN	HIAR UN	VER 19				K 4	
K1 - Rememb	ber; K2 - U	nderstand;	K3 - Apply	y; K4 - A	nalyze; K5 -	- Evaluate; F	<u> </u>	Create	;	
Unit:1				த்தப்பாரை உ DUCATE TO ELENN	E			12l	iour	s
SetTheory	Arithmeti	candGeom	etricSeries	-Simple	ndCompour	ndInterest_				
Effectiver	ateofInteres	st–SinkingF	Fund–Annu	ity-Prese	ntValue–Dis	scountingof	Bills–			
TrueDisco	ount–Banke	r'sGain.		•		C				
L								14 1		
Unit:2								141	iour	S
Matrix: B	asic Conce	ots – Additi	ion and Mu	ultiplicati	on of Matric	es – Inverse	of a	Matri	x –	
RankofMa	atrix-Soluti	onorSimult	aneousLin	earEquat	ions–Input-C	JutputAnaly	S1S.			
Unit:3								12ł	iour	S
Variables,	,Constantsa	ndFunction	ns–Limitso	fAlgebra	icFunctions-	-				
SimpleDif	fferentiatior	ofAlgebrai	icFunctions	s–Meanir	gofDerivati	ons–				
Evaluation	nofFirstand	SecondOrd	lerDerivativ	ves–Max	imaandMini	ma–				
Applicatio	ontoBusines	ssProblems	•							
Unit:4								10}	our	s
Elementar	v Integral	Calculus -	- Determir	ning Inde	finite and I	Definite Inte	grals	of		
simpleFur	nctions-Inte	grationbyF	Parts.	mae			0-415	~•		
IInit.5								10.1	10111	C
L inearPro	orammino¤	Problem_Fo	rmation_S	olutionby	GraphicalM	ethodSoluti	onhy	Simpl	e	3
Method.	Stanningt		-111ation-9	Siddonoy	Siapincant		JIIUyt	mp	C	

U	nit:6	Contemporary Issues	2 hours
Ex	pert lecture	es, online seminars - webinars	
		Total Lecture hours	60hours
Te	ext Book(s)		
1	Navanitha	m, P.A," Business Mathematics & Statistics" Jai Publishers, Tri	chy-21
2	Sundaresa Co&Ltd N	n and Jayaseelan,"Introduction to Business Mathematics",Sulta	inchand
3	Sanchetti,	D.C and Kapoor, V.K," Business Mathematics", Sultan chand	Co&Ltd,Newdelhi
D	. f D.	- 1	
K	elerence B	JOKS	
1	G.K.Rang Publishing	anath, C.S.Sampamgiram&Y.Rajan-A Text book Business Mat g House.	hematics - Himalaya
		~	
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://w	ww.youtube.com/watch?v=qO1SYFZVmhY	
2	https://w	ww.youtube.com/watch?v=LadYhkiVC7Q&list=PLRYPMG3	okUJuucxOLmnRC
	<u>-Lj3Pmz</u>	<u>VmKCD</u>	
4	https://w	ww.youtube.com/watch?v=qO1SYFZVmhY&list=PLX2gX-	
	<u>ftPVXU</u>	Yjs2g3YiaY0sEfwW-jg5L	
Co	ourse Desig	ned By:	

	Mapping Course objectives and course outcomes										
	PO1 PO2 PO3 PO4 PO5										
C01	S	So S	oimbatore S colle	S	М						
CO2	S	S S S S S S S S S S S S S S S S S S S	JITの丁 2-ル TE TO FLEVATE	S	S						
CO3	М	S	S	S	S						
CO4	S	S	S	М	М						
CO5	М	М	S	S	S						

Course code			L	Т	Р	С
Skill Based Sub	ject :I	Business Application Software I	4			4
Pre-requisite		Basic knowledge in MS Word and MS Excel	Sylla Vers	ibus ion	2022- 2023	,
Course Object	tives:					
The main object	ctives of the	is course are to:				
Understan	d the basic	framework and how to work in Ms-Word andMs-Ex	cel.			
Expected Cou	rse Outcoi	mes:				
On the succes	sful compl	etion of the course, student will be able to:				
1 To know	v the basics	s on MS Word			K	2
2 To study	y formattin	g features in MS Word			K	2
3 To unde	erstand the	concept of mail merge			K	2
4 To gain	knowledge	e on excel operations			K	2
5 To acqu	ire knowle	dge on ManagingandAnalyzingComplexWorksheet			K	2
K1 - Rememb	er; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate:	K6 - (Create	;	
	,	is and the second se	·			
Unit:1		E C GO S E.		9h	ours	\$
Formattin	gFeatures-	Menus, Commands, Toolbarsandtheir Icons.		·		
Unit:2		HIAR UNIVER		8h	ours	5
CreatingT box, Form	emplates,C atting,Inse	CreatingTables,ChangingFontandTextSize,Bordersand	Shadin	gs,Te	xt	
Unit:3				8h	ours	3
MailMerg fields–Me	e-Creating rging Docu	the Main Document–Creating data source, Adding uments-Macros–Inserting Headers and Footer–Record	fields,r ling ma	emov cros.	ving	
T		Π		0 1		
Unit:4	Eucol. In	traduction Novigation Solarting Calls Entering of	d Edit	9n in a	ours	
Text,Enter theirIcons	ring Numb	ers and Formulas – Alignments – Menus, Command	ls, Tool	lbars	and	
Unit:5				9h	our	
Spread sh	neet : An ()verview –CreatingWorksheet- Managing and Analyz	ing Co	mplex	K	
Workshee Sharing D	t–Creating ata Betwee	Charts–Creating FormTemplates– en Applications.		P10/	_	

Unit:6	Contemporary Issues	2 hours
Expert lecture	es, online seminars - webinars	
	Total Lecture hours	45hours
Text Book(s)	· · · · · · · · · · · · · · · · · · ·	
¹ SanjaySax	xena,"MS-Office2000",VikasPublishingHousePrivateLtd.	
Reference Bo	ooks	
1 TimothyJ.	O'LearyandLindaiO'Leary, "MS-Office", IRWIN/McGrawHill.	
Related Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1 https://www.	youtube.com/watch?v=DzTCFsdxMP4	
2 https://www.	youtube.com/watch?v=IUAq9r5B9Go	
Course Desig	ned By:	
	istone and a state of the state	

Mapping Course objectives and course outcomes										
	PO1	PO2	PO3	PO4	PO5					
CO1	S	S Z	M	М	М					
CO2	М	S	S	М	М					
CO3	S	B M ATHI	R UNIVE M	М	М					
CO4	М	State State	M. So	М	М					
CO5	S	M	TE TO ELEVATE	М	М					



Course e	odo			т	т	р	C				
Core- 8	oue		Corporate Accounting I		1	1					
C016- 0				- Svlla	hus	202	-				
Pre-req	uisite		Basic knowledge in company accounts	rsi	ion	202	23				
Course C)bject	tives:									
The main	objec	ctives of thi	s course are to:								
1. To p	rovid	e basic und	erstanding about the accounts relating to shares and de	bentu	res						
2. To a	2. To analyze the final accounts of companies										
3. To e	. To explore various methods for the valuation of goodwill To assist propagation of books of accounts during liquidation of companies										
4. 10 a	ssist j	reparation	of books of accounts during inquidation of companies								
Expected	l Cou	rse Outcon	nes:								
On the s	ucces	sful comple	etion of the course, student will be able to:								
1 Ex	plaini	ing about th	e basic provisions towards issue of shares in market			K	2				
2 Ur	nderst	anding the	concepts of debenture and its accounting			K	2				
3 Ar	nalyze	the compa	nies final accounts and Managerial Remuneration			K	4				
4 Es	timati	ng methods	s of goodwill and shares			K	5				
5 Ex	amine	e various pr	ocedures related to liquidation of companies			K	4				
K1 - Rei	memb	er; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; 1	K6 - (Create						
Unit:1					12h	our	S				
Issue of s	hares	· Par Pren	nium and Discount - Forfeiture - Reissue - Surrender	of Sha	res —	Riał	nt				
Issue-M	eaning	g of Bonus	Issue		105	11151	10				
			THIAR UNING S								
Unit:2			Combiline 68		13-h	ours	}				
Redemp	tion o	f Preferenc	e Shares. Debentures – Issue and Redemption- Sinkin	g Fun	d Met	hod					
(excludi	ng Op	en Market	operations)								
Unit:3					13h	our	s				
Final Ac	count	s of Compa	anies - Calculation of Managerial Remuneration.								
Unit:4		~ 1 11		1.0	<u>10h</u>	our	S				
Valuatio	on of C	joodwill ar	d Shares – Need – Methods of valuation of Goodwill	and S	hares.						
Unit:5					10h	our	s				
Liquidat	tion of	f Companie	s - Statement of Affairs -Deficiency a/c.		10 1	loui	5				
		1	•								
Unit:6			Contemporary Issues		2	hou	rs				
Expert le	ecture	s, online se	minars - webinars								
			Total Lecture hours		60h	our	S				
			Total Lecture nours		001	our	5				

Τe	ext Book(s)
1	S.P. Jain & K.L. Narang, "Advanced Accounting", Kalyani Publications, New Delhi.
2	Gupta R.L. & Radhaswamy M. , "Corporate Accounts ", Theory Method and Application-
-	15th Revised Edition 2000, Suitan Chand & Co., New Denn.
3	Dr. M.A. Arulanandam, Dr. K.S. Raman , "Advanced Accountancy, Part-I", HimalayaPublications, New Delhi.2003.
Re	eference Books
1	Gupta R.L. & Radhaswamy M. ,"Corporate Accounts ", Theory Method and Application- 13th Revised Edition 2006, Sultan Chand & Co., New Delhi.
2	Shukla M.C., Grewal T.S. & Gupta S.L., "Advanced Accountancy", S. Chand & Co., NewDelhi
3	Reddy & Murthy, "Financial Accounting", Margham Publicatuions, Chennai, 2004
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	http://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_module_ug.php/238
2	http://www.fimt-ggsipu.org/study/bcom2 <mark>02.pdf</mark>
3	http://gurukpo.com/Content/B.Com/Co <mark>rpor</mark> ate_Accounting(B.Com)P-1.pdf
4	https://www.bing.com/videos/search?q <mark>=youtube+videos+on+corpo</mark> rate+accounting&docid=60800906996096 6369∣=A58A95880433907E2FF8 <mark>A58A95880433907E2FF8&vie</mark> w=detail&FORM=VIRE
Co	ourse Designed By:
	East THAT HIAR UNIVERSE 183

		Es se PAIHI	AR UNIVERS								
	Mapping Course objectives and course outcomes										
	PO1	PO2 Ball	III COL POS	PO4	PO5						
CO1	S	S	S	М	S						
CO2	S	S	S	М	S						
CO3	S	S	S	S	S						
CO4	М	S	S	S	S						
CO5	S	S	S	М	М						

Cou	rse code							L	Т	Р	С
Core	- 9		(Computer A	pplication	s in Busin	ess	4			4
Pre	e-requisite	2		Basic kno	wledge in	compute	r	Sylla Vers	bus 2 ion 2	.022- .023	
Cou	rse Object	tives:									
The	main objec	ctives of thi	s course ar	e to:							
1.	To introdu	ace the cond	ept of con	nputer and i	ts various	parts.					
2.	To explain	n the concep	ot of data b	ase manage	ement syst	em and M	lanagement	inform	nation		
3 1	system.	insight abo	ut network	ring and has	sics of inte	ernet					
Exp	ected Cou	rse Outcor	nes:	ang and bas		linet					
On	the succes	sful comple	tion of the	e course, stu	dent will	be able to:					
1	Recall t	he various of	oncepts re	lating to co	mputer an	d its vario	ous parts			K	1
2	Underst	and the mea	ning of so	oftware's, or	perating sy	stem etc	1			K	2
3	Underst	anding the	neaning ar	nd utility of	database	manageme	ent system			K	2
4	Evaluate	the various	aspects of	manageme	nt informa	ation syste	m			K	5
5	Generat	ing more id	eas regardi	ing the use	of internet	t for busin	ess purpose	e		K	6
		0	0	(m)®)	க்கழக்		1 1				
1	Recall v	various term	s of comp	uter and its	part					K	1
2	Underst	and the me	ning of so	ftware, ope	rating sys	tem, progr	amming la	nguage		K	2
	and its f	eatures	U	B. Kaz		खि	e A	0 0			
3	Compar	ring Data V	Informati	ion and its n	nanageme	nt system				K	.2
4	Underst	anding abo	it various o	concepts of	managem	ent inform	nation syste	em		K	.2
5	Explain	about netw	orking and	l elements b	based on in	nternet				K	2
K1	- Rememb	ber; K2 - Ui	derstand;	K3 - Apply	; K4 - An	alyze; K5	- Evaluate	; K6 - (Create	;	
		1		ு இந்தப்ப சம்பரத்	LITED TO ELEVATE						
Uni	it:1	1		Cl	·			· D · · ·	<u>9h</u>	ours	
Com Com Busi	ponents of ness.	f Computer	– Input, St	torage and (Sutput De	vices – Us	ses of Com	puters i	n Mo	dern	<u>ع</u> ر – عد
Uni	it:2								9h	ours	
Softv Prog Infor Type	ware: Mea ramming I rmation – I es.	ning – Type Language – Database M	es of Softw Compilers anagement	vare – Opera s and Interp t Systems: N	ating Syste reters- Da Meaning -	ems: Mear tabase Pro Componer	ning - Func ocessing: D nts – Uses	tions – ata Vs. – Limit	Type ations	s - s -	
Uni	it:3								9he	ours	
Man Infor resou	agement In rmation Sy urce –Busi	nformation stems: Fina ness Proces	System: M ncial – Ac s Outsourc	leaning – C counting – cing.	haracteris Marketing	tics - Func g- Producti	ctional Mar ion – Huma	ageme an	nt		
TIm	it•1								0 h	11100	
Netw	vorking _ 1	 Meaning _ '	Types - Int	ernet: Mear	ning _ Inte	ernet Rasis	s - World V	Vide W	eb –	Ju18	
Inter	metAccess	– Internet	Addressing	g – Search E	Engines – I	Electronic	Mail.				

U	nit:5		7hours						
Rec	Recent Trends : Industry 4.0- Meaning , Definition ,Goals and Design Principles- Big Data								
Ana	Analytics and Artificial Intelligence – Meaning and Definition - Why?- History – Internet of								
Thi	ngs -Applic	ations of IOT – Cyber Security- Cyber Crime and its Classifica	tion						
	<u> </u>	· · · ·							
U	nit:6	Contemporary Issues	2 hours						
Ex	pert lecture	s, online seminars - webinars							
	*								
		Total Lecture hours	45hours						
Te	ext Book(s)								
1	Fundamen	tals of Information Technology - Alexis Leon & Mathews Leon	1						
2	Informatio	on Technology for Management - Henry C. Lucas							
3.	P.Kaliraj a	nd T.Devi – Big Data Applications in Industry 4.0, 2022, CRC	C Press						
4	P.Kaliraj a	nd T.Devi- Artificial Intelligence Theory, Models and Applica	tions, 2022, CRC						
	Press, Tay	lor and Francis Group							
Re	eference Bo	ooks							
1	Computer	s and Commonsense - Roger Hunt and John Shellery							
2	Managem	ent Information System - Dr. S.P. Rajagopalan							
		AND DIVISION CONTRACT							
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://www.s	.tudocu.com/row/document/metropolitan-international-university/computer-	application/computer-						
	applications-i	n-business-notes/27185866							
2	https://drive.g	oogle.com/file/d/1NyIN-iGNtcHEdR0nfHIN0GsWX7kVvCPP/view							
Co	ourse Design	ned By:							

Mapping Course objectives and course outcomes									
PO1 PO2 PO3 PO4 PO									
CO1	S	S	L	L	L				
CO2	S	S	L	М	М				
CO3	S	М	М	L	L				

						гт				
Course code				L	Т	Р	С			
Core	e- 10		Company Law and Secretarial Practice	4			4			
Pre-requisite Basic knowledge in law Sylla vers					bus 2 ion 2	.022- .023				
Cou	rse Object	tives:								
The	main objec	ctives of thi	s course are to:							
1. 2. 3.	 To develop a strong foundation regarding corporate laws and provisions To provide knowledge about qualification and disqualification of directors and winding up procedures of the companies To provide insights about corporate secretaryship and rules relating to company meetings. 									
Exp	ected Cou	rse Outcon	nes:							
On	the succes	sful comple	etion of the course, student will be able to:							
1	Define t	he fundame	entals of corporate law			K	.1			
2	Identify t	he role, res	ponsibilities, appointment and liabilities of corporate	directo	ors	K	2			
3	Analyzi	ng various	winding up procedures, regulations and formalities ur	nder la	W	K	4			
4	Examine	the role of	corporate secretaryship and specific conditions			K	4			
5	Outline drafting	corporate le	evel meetings with regard to duties of company secret	ary,		K	2			
K1	- Rememb	eer: K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create	;				
		,	E F.							
Un	it:1				9he	ours				
Pror – Me – M Men – Pr of S	noters – Inc eaning – Pu eaning – norandum ospectus – hares and I	companies corporation urpose – Alt Forms – C – Doctrine Definitions Debentures.	 Meaning – certification of Incorporation – Memorar ceration of Memorandum – Doctrine of Ultravires – Ar Contents – Alteration of Article – Relationship be of Indoor Management – Exceptions to Doctrine of I s – Contents – Deemed Prospectus – Misstatement in 	ticlesc tween ndoor prosp	of Ass of Ass Artic Mana ectus	ocia ocia eles agem – Ki	tion tion and nent nds			
Un	it·?				8h	nirs				
Dire of D Dire	ectors – Qu Directors – I ectors	alification a Director's r	and Disqualification of Directors – Appointment of D emuneration – Powers of Directors – Duties of Direc	irector tors –	s – R Liabil	emo ities	val of			
Un	it:3				9he	ours				
Win Win volu up(C	ding up – 1 ding up – ntary Wind General).	Meaning, M Types of ling up – W	Iodes of Winding up – Compulsory Winding up by the Voluntary Winding up – members voluntary Wind Vinding up subject to supervision of the court – Consection	ne cou ling uj quence	$rt - v_0$ $rt - C$ $s of V$ $rt - K$	olun Fredi Winc	tary tors ling			
Con	npany Seci	retary – W	ho is a secretary – Types – Positions – Oualities	– Ou	alific	ation	is –			
App Role	o of a Con	and Dismis	sals – Power – Rights – Duties – Liabilities of a Coetary – (1) As a statutory officer, (2) As a Co-Coetary – (1) $As = 1000$	ompan ordinat	y Sec or, (3	retai) As	y – an			

Administrative Officer.

Un	nit:5		9hours					
Kin	Kinds of Company meetings – Board of Directors Meeting – Statutory meeting – Annual General							
mee	ting – Ext	ra ordinary General meeting - Duties of a Company Secretary	y to all the company					
mee	tings – Dra	afting of Correspondence - Relating to the meetings - Notices -	- Agenda Chairman's					
spee	ech – Writi	ng of Minutes.						
Un	nit:6	Contemporary Issues	2 hours					
Ex	pert lecture	es, online seminars - webinars						
		Total Lecture hours	45`hours					
Te	xt Book(s)							
1	M.C.Shuk	la and S.S.GulshanPrinciples ofCompanyLaw S.Chand	&Co.,					
2	M.C.Shuk	laandS.S.Gulshan S.Chand & Co.,						
Re	ference Bo	ooks						
1	N.D.Kapo	orCompany Law Sultan Chand &Sons						
2	M.C.Kuch	halSecretarial Practice Vikas Publications						
		公共开10 5 ·						
Re	lated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://deepş	yan.com/company-law-201 <mark>3-notes-pdf-for-cs-execut</mark> ive/						
2	https://www	bing.com/videos/search?q=indian+companies+act+2013+pdf+download	&qpvt=indian+compani					
	es+act+2013	+pdf+download&view=detail∣=28B5988DBED400F0A66928B5988	DBED400F0A669&&F					
	OKM=VKD ORdownload	GAR&ru=%2FvIdeos%2Fsearcn%3Fq%3Dindian%2Bcompanies%2B %26apyt%3Dindian%2Bcompanies%2Bact%2B2013%2Bndf%2Bdoy	act%2B2013%2Bpd1%					
Í	VDRE	vozodpyt vozbindian vozbeompanes vozbaci vozbzors vozbpur vozbuov						
3	https://www	bing.com/videos/search?q=videos+on+company+law+in+India+2013&v	/iew=detail∣=9B465					
F	521E910B/F	ED2r 59D405521E910B/FEB2F5&FUKW=VIKE						
Co	urse Desig	ned By:						
	unse Desig	COUCATE TO ELEVATE						

Mapping Course objectives and course outcomes								
	PO1 PO2 PO3 PO4 PO5							
CO1	S	М	S	S	М			
CO2	S	S	М	М	S			
CO3	S	М	М	S	S			
CO4	S	S	S	S	S			
CO5	S	S	S	М	М			

Cou	rse code			L	Т	P	С		
Core	e- 11		Executive Business Communication	3			3		
Pre	e-requisite	•	Basic knowledge in Business Communication	Sylla rsi	bus on	202 202	22- 23		
Course Objectives:									
The	main objec	ctives of thi	s course are to:						
1. 2.	 To provide information on effective business communication and techniques to respond to business queries. To provide knowledge about banking correspondence and company secretarial 								
Exp	ected Cou	rse Outcon	nes:						
On	the succes	sful comple	etion of the course, student will be able to:						
1	Outline	the importa	nce of effective business communication			K	2		
2	Underst	and the intr	icacies of responding to business related queries			K	2		
3	Categor	izing effect	ive correspondence with banks, insurance and agencie	s		K	3		
4	Examine	effective re	esponse to company secretarial correspondence			K	4		
5	Analyze	new innova	tive and effective ideas for business communication			K	4		
K1	- Rememb	oer; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	X6 - (Create				
		,							
Un	it:1		Monoral Contraction		8ł	our	S		
Effe Un Trad	ctive Busin it:2 le Enquirie	ness Letters	- Layout.	nplai	9ł	nour d	'S		
Adjı	ustments -	Collection I	Letters – Sales Letters – Circular Letters.						
Un	it·3		EDUCATE TO ELEVATE		8ł	nur	'S		
Bai	nking Corr	espondence	- Insurance Correspondence - Agency Correspondence	e	01	loui	3		
Du		espondence	insurance correspondence rigency correspondence	<u>.</u>					
Un	it:4				7ł	our	'S		
Co	mpany Sec	retarial Con	respondence (Includes Agenda, Minutes and Report W	/riting	g)				
Un	it:5				11ł	our	s		
App	lication Le	tters – Prep	aration of Resume - Interview: Meaning – Objectives	and T	echni	ques	of		
vario Pres	ous types o entations	f Interview	s – Public Speech – Characteristics of a good speech –	Busin	ness F	Repo	rt		
IIn	it·6		Contemporary Issues		2	hou	rs		
Exi	pert lecture	s, online se	minars - webinars		4	nou	а. ю		
		, 0111110 50							
			Total Lecture hours		45ł	our	S		
Te	xt Book(s)	•							
1	Rajendra	Pal Korah	ill, "Essentials of Business Communication", Sultan C	hand	& So	ns,			
2	Ramesh,	MS, & C. (C Pattanshetti, "Business Communication", R.Chand&	хCo, I	New				
	Dem, 200	13.							

R	eference Books
1	Rodriquez M V, "Effective Business Communication Concept" Vikas Publishing
	Company,2003.
R	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://www.academia.edu/34534809/Lecture_Notes_Business_Communication_A
2	
3	

Course Designed By:

Mapping Course objectives and course outcomes								
	PO1	PO2	PO3	PO4	PO5			
CO1	S	S	S	S	S			
CO2	S	S	S	М	М			
CO3	S	S	М	S	S			
CO4	S	S	S	S	S			
CO5	S	S SEEDED	55S Sili, C.	M	М			



Course code		L	Т	Р	C				
ALLIED IV	STATISTICS FOR BUSINESS	4	-	-	4				
Pre-requisite	Basic knowledge on Statistics for Business	Syllab Versi	202	2-23					
Course Objectives:	Course Objectives:								
The main objectives of the course are able to									
1. Provide bas	ic conceptual knowledge on applications of statistics is	n busines	s.						
2. Make the st	udents to be ready for solving business problems using	g statistica	al ope	ratic	ons.				
3. Give a detai	iled instruction of measurement of dispersion.								
4. Gain the kn	owledge on application of correlation and regression for	or							
business op	perations.								
5. Analyze int	erpolation and probability theory and perform the prob	olems.							
Expected Course Out	tcomes:								
On the successful cor	npletion of the course, student will be able to:								
1 Understand the	basic concepts of arithmetic and geometric mean and		K	.2					
2 Recall measure	s of dispersion		К	1					
3 Execute correla	tion and regression analysis.		K	3					
4 Understand the	different types of moving averages.		K	2					
5 Analyze interpo	blation and probability		K4						
K1 - Remember; K2	- Understand; K3 - Apply; K4 - Analyze; K5 - Evalua	te; K6 - (Create	;					
,	ER ANEL	,							
Unit:1	INTRODUCTIONS		12	hou	irs				
Meaning and Definit	ion of Statistics – Collection of data – Primary and Se	econdary	-						
Classification and Ta tendency – Mean. Me	bulation – Diagrammatic and Graphical presentation Network Median, Mode, Geometric Mean and Harmonic Mean – s	leasures simple pro	of Cer oblem	ntral 18					
	B AATHIND UNIVER	1 1							
Unit:2	MEASURES OF DISPERSION		10 ha	ours					
Measures of Dispersi	on - Range, Quartile Deviation, Mean Deviation, Stan	dard Dev	iation	and	l				
Co-efficient of Varia	tion. Skewness – Meaning – Measures of Skewness - F	earson's	and						
Bowley's co-efficient	t of Skewness.								
			101						
Unit:3 Co	ORRELATION AND REGRESSION ANALYSIS		12 h	ours					
Correlation – Meaning	g and Definition – Scatter diagram, Karl Pearson's co-e	efficient c	ot .						
Correlation, Spearma	n's Rank Correlation, Co-efficient of Concurrent devia	ation. Reg	gressi	on	c				
Analysis – Meaning (of regression and linear prediction – Regression in two	variables	s - Us	ses o	Ι				
Regression									
Unit:4	TIME SERIES		12 ho	ours					
Time Series – Meanin	ng, Components and Models – Business forecasting – N	Aethods of	of esti	mati	ng				
trend – Graphic, Se	mi-average, Moving average and Method of Least	squares	– Se	easor	nal				
Variation – Method o	of Simple average. Index Numbers – Meaning, Uses an	d Method	ls						
of construction – Un-	weighted and Weighted index numbers – Tests of an I	ndex nun	nber -	- Co	st				
of living index numb	er.								

U	nit:5	INTERPOLATION	12 hours						
In	Interpolation: Binomial, Newton's and Lagrange methods. Probability – Concept and Definition								
	Addition an	nd Multiplication theorems of Probability (statement only) – simple	e problems based						
on	Addition a	and Multiplication theorems only.	-						
U	nit:6	CONTEMPORARY ISSUES	2 hours						
Ex	kpert lectur	es, online seminars – webinars	·						
		Total Lecture hours	60 hours						
Te	ext Book(s)							
1	Statistica	Methods by S.P. Gupta							
2	Business	Mathematics and Statistics by P. Navaneetham							
3	Statistics	by R.S.N. Pillai and V. Bagavathi							
R	eference B	ooks							
1	Statistic	s-Theory, Methods & Application by D.C. Sancheti and V.K. Kapo	oor						
2	Applied	General Statistics by Frederick E.Croxton and Dudley J. Cowden							
		Star and a star							
R	elated Onli	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://w	ww.youtube.com/watch?v=BUE-XJEHp7g							
2	https://w	<pre>/ww.youtube.com/watch?v=0s4mKbkYJPU&t=1s</pre>							
3	https://w	ww.youtube.com/watch?v=Dxcc6ycZ73M							
Co	ourse Desig	ned By:							
		Combatore & Co							

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



Course	e code			L	Т	P	С		
Core- 12			Corporate Accounting- II	rate Accounting- II 4			4		
Pre-r	equisite		Basic knowledge in Company Accounts	Basic knowledge in Company Accounts					
		•	Duste knowledge in Company Accounts	rsi	on 2	.023			
Course	Course Objectives:								
1. To	o undersi	tand the col	ncept of mergers and acquisitions						
2. 10 3 Ta	o propara	the final a	counts of banking companies						
3. To 4 To	o prepare	e the account	ats of insurance companies						
5. To	o assist t	he preparat	ion of electricity companies accounts						
Expect	ted Cou	rse Outcon	nes:						
On th	e succes	sful comple	etion of the course, student will be able to:						
1	Recall v	arious conc	epts and methods of preparing accounts under merge	rs and		K	.1		
	acquisiti	ions							
2	Underst	and various	methods of preparing holding company accounts			K	.2		
3	Understa compani	and various ies	methods of preparing and assessing final accounts of	f banki	ng	K	2		
4 A	Analyze t	the final acc	counts of insurance companies			K	4		
5	Analyze	the accourt	ting statements of electricity companies			K	4		
K1 -]	Rememb	er; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create				
		,							
Unit:	1				20ł	our	s		
Accou	unting fo	or Mergers a	and Amalg <mark>amation – Absorption and</mark> External Recons	structio	n				
Unit	2		E HIAP INNES		18}	our	5		
Holdin	– 19 Comp	any Accou	nts - Consolidation of Balance Sheets with treatment	of Mu	tual (Dwir	Igs.		
Contin	gent Lia	bility, Unre	alized Profit, Revaluation of Assets, Bonus issue and r	baymer	nt of d	ivid	end		
(Inter C	Company	y Holdings	excluded).						
Unit:	3				17ł	our	S		
Bankin	ng Comp	any Accou	nts - Preparation of Profit and Loss Account and E	Balance	Shee	et (N	lew		
format	only) -	· Rebate o	n Bills Discounted - Classification of Advances	- Clas	sifica	tion	of		
Investr	ments.								
Unit:	4				15ł	our	s		
Insurar IRDA	nce Com 2000	pany accou	nts: General Insurance and Life Insurance(New form	at only) - Uı	nder			
TT • /	-				40.1				
Unit:	Unit:5 18hours						S		
Indian	Account	ting Standa	r Electricity Companies – Treatment of Repairs and I rds – Financial Reporting Practice (Theoretical Aspec	Renewa ets)	als -				
[]nite	6		Contomnorary Issues		<u> </u>	hor	re		
Exper	v rt lecture	s online se	minars - webinars		4	nou	19		
Блры		s, onnie se	Total Lecture hours		90ł	our	s		

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Те	ext Book(s)
1	S.P. Jain & K.L. Narang, "Advanced Accounting", Kalvani Publications, New Delhi, 5.
	Shukla M.C.
2	Gupta R.L. & Radhaswamy M., "Corporate Accounts ", Theory Method and Application-13th Revised Edition 2006, Sultan Chand & Co., New Delhi
3	Dr. M.A. Arulanandam, Dr. K.S. Raman, "Advanced Accountancy, Part-I", Himalaya Publications, New Delhi.2003.
Re	eference Books
1	Gupta R.L. & Radhaswamy M.,"Corporate Accounts ", Theory Method and Application-13th Revised Edition 2006, Sultan Chand & Co., New Delhi.
2	Grewal T.S.& Gupta S.L., "Advanced Accountancy", S. Chand & Co., New Delhi
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://www.bing.com/videos/search?q=accounting+for+holding+companies&docid=608020215401752240& mid=0F32057D615B472ADCFB0F32057D615B472ADCFB&view=detail&FORM=VIRE
2	https://www.yourarticlelibrary.com/accounting/amalgamation-of-companies/problems-on-amalgamation- and-external-reconstruction/82261
3	https://www.bmscw.edu.in/files/StudyMaterials/BCom/III- BCom/5th%20Sem B%20Com AA%20UNIT%201 NOTES.pdf
4	https://www.accountingnotes.net/companies/insurance-companies/accounts-of-insurance-companies- accounting/13117
C	nurse Designed By:

Mapping Prog	Mapping Programme outcomes							
	PO1	PO2	PO3	PO4	PO5			
CO1	S	So M RATHI	IR UNITS	M	S			
CO2	S	S ^{S.B.S.I} Biss.	山川町日 Q_山川前前	М	S			
CO3	S	S	S	S	S			
CO4	S	S	S	S	S			
CO5	S	S	S	М	М			

Cou	rse code			L	Т	P	C
Core	- 13		Banking Theory Law and Practices	4			4
Pre	-requisite	<u>.</u>	Basic knowledge in Banking	Sylla versi	bus 2 ion 2	.022- .023	
Cou	rse Object	tives:					
The	main objec	ctives of thi	s course are to:				
1.	To provid	e knowledg	e about the working of banking industry				
2.	To unders	tand the ba	sic understanding of loan disbursement policies of ban	ks			
3. E	To provid	e insights a	bout various documents used in banking services				
<u>Exp</u> On	the succes	sful comple	nes: etion of the course student will be able to:				
1	Remem	hering the y	various terms and concepts used in banking industry			K	1
2	Underst	anding the	various process and activities of accounts in banks			K	2
3	Outline v	arious featu	ures of cheques for easy and simple banking			K	2
4	Examine	the various	loans and advance related process in banks			K	4
5	Classify	ing various	kind of documents involved in banking services			K	2
K1	- Rememb	ber; K2 - U	nderstand; K3 - Apply: K4 - Analyze; K5 - Evaluate;	K6 - (Create		
		- , _	and the second s				
Uni	it:1		S A LAS AND		15l	nour	S
Ori	gin of banl	ks-Definitio	on of banking- Classification of banks- Banking System	n: Un	it Bar	iking	3
Bra	nch Banki alance She	ng Univers	al Banking & Banking Markets – Functions of Modern	n com	merci	alBa	inks
- Da			cicial banks - cican cication by commercial banks				
Uni	it•2		B HIAD UN		151	our	2
Cent	ral Bank –	- Functions	- Credit Control Measures - Quantitative and Selective	e Cre	dit	Iour	5
contr	rolmeasure	es – Role of	RBI in regulating and controlling banks. State Bank of	of Indi	a – It	S	
spec	ial place in	the bankin	ig scene – Commercial banks and rural financing – Re	giona	l Rura	ıl	
Bank	ks - Place o	of Co-opera	tive banks in the Indian Banking scenario				
Uni	it:3				15l	our	S
Defi	nition of b	anker and c	ustomer – Relationships between banker and customer	- spe	cialfe	atur	e of
RBI,	Banking	regulation	Act 1949. Secrecy of customer Account. Opening of	f acco	unt –	spe	cial
types	s of custon	ner – types	of deposit – Bank Pass book – collectingbanker – payi	ng bai	nker -	- ban	ker
nen.							
Uni	it:4				18l	our	S
Chec	que – featu	res essentia	lls of valid cheque - crossing - making and endorseme	ent – p	bayme	ent o	f
cheq	ues statuto	of bolder	on duties to paying banker and collective banker - refu	sal of	payn	ient	
cheq	ue. Duiles	of nonder e	e noider in due course-				
Uni	it:5				10l	our	s
Loa	n and adva	inces by co	mmercial bank lending policies of commercial bank -	Forms	s of se	curi	ties
– 11ei	n piedge h	ypothecatio	on and advance against the documents of title to goods	– moi	rtgage		
Position of surety – Letter of credit – Bills and supply bill. Purchase and discounting bill Traveling cheque, credit card,							

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Unit:6	Contemporary Issues	2 hours			
Expert lectures, online seminars - webinars					
	Total Lecture hours	75hours			

Te	ext Book(s)
1	Sundharam and Varshney, Banking theory Law & Practice, Sultan Chand & Sons., New
	Delhi.
2	Basu : Theory and Practice of Development Banking
3	Reddy & Appanniah : Banking Theory and Practice
Re	eference Books
1	Natarajan & Gordon : Banking Theory and Practice
2	Banking Regulation Act, 1949.
3	Reserve Bank of India, Report on currency and Finance 2003-2004.
R	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://www.icsi.edu/media/webmodules/publications/9.1%20Banking%20Law%20-Professional.pdf
2	https://www.studocu.com/in/document/karnatak <mark>a-state</mark> -law-university/banking-law/law-of-banking-notes- for-unit-wise/6902283
3	https://www.bdu.ac.in/cde/SLM/SLM_S <mark>AMPLE/BCom-Bank-M</mark> anagement.pdf
4	https://www.economicsdiscussion.net/in <mark>dia/money-market/mone</mark> y-market-in-india-features-structure- constituents-participants-and-defects <mark>/3134</mark> 8
Co	ourse Designed By:

Mapping Programme outcomes								
	PO1	PO2	PO3	PO4	PO5			
CO1	S	S Sisting	UTTES 2 LUT 59	S	S			
CO2	S	S	S	S	S			
CO3	S	S	S	S	S			
CO4	S	S	S	S	S			
CO5	S	S	S	М	М			

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

Г

Course code				L	Т	Р	С
Core	e- 14		Cost Accounting	4			4
Pre	e-requisite		Basic knowledge in Accounting	Sylla versi	bus 2 ion 2	.022- .023	
Cou	rse Object	tives:					
The	main objec	ctives of thi	s course are to:				
1.	To unders	tand the con	ncept and various components of costing				
2.	To assist p	preparation	of accounts under process costing				
3.	To familia	rize with th	e techniques of operating costing				
Exp	ected Cou	rse Outcon	nes:				
On	the succes	sful comple	etion of the course, student will be able to:				
1Recall various concepts of costing and costing methodsH						K	.1
2	Analyze	the various	s elements of costing			K	4
3	Explain	the labour	wage payment system			K	2
4	Outline the	ne cost und	er process costing system			K	2
5	Examine and Fina	e about ope ancial State	rational costing, contract costing and Reconciliation o ments.	f Cost		K	4
K1	- Rememb	er; K2 - Ui	nderstand; K3 - Apply; K4 - Analy ze; K5 - Evaluate;	K6 - (Create		
Un	it:1				15ł	our	S
aid anc	st Account to Manage l Tender.	mg - Define	ypes and Methods of Cost – Elements of Cost Prepara	tion –	- Cost f Cost	t She	an et
Un	it:2		The Statument 2- with the		15ł	our	s
Mate	erial Contr	ol: Levels	of material Control – Need for Material Control	– Eco	nomi		der
Qua	ntity – AE	BC analysis	– Perpetual inventory – Purchase and stores Cont	rol: F	urcha	sing	g of
Mate	erials – Pro	cedure and	documentation involved in purchasing – Requisition	for st	ores	- Sto	ores
Con	trol – Meth	ods of valu	ing material issue.				
Un	it:3				15ł	our	S
Labo Ove	our: Systen rhead – Cla	n of wage p assification	ayment – Idle time – Control over idle time – Labour of overhead – allocation and absorption of overhead.	turnov	ver.		
	• / .		I		15 1		
	1 t:4			1	15ľ	lour	S
Proc – ab	normal los	g – Features s, abnormal	of process costing – process losses, wastage, scrap, n gain. (Excluding inter process profits and equivalent	ormal produ	proce	ess lo	DSS
Un	it.5				13_1	0114	
One	rating Cost	ing - Contr	act costing – Reconciliation of Cost and Financial acc	ounts	11	ivul	
ope		ing contr	act costing reconcinution of cost and I manetal act	sunts.			
Un	it:6		Contemporary Issues		2	hou	rs
Ext	pert lecture	s, online se	minars - webinars				
			Total Lecture hours		75ł	our	s

S.P. Jain and KL. Narang, "Cost Accounting", Kalyani Publishers, New Delhi.Edn.2005									
S.P. Jain and KL. Narang , "Cost Accounting", Kalyani Publishers, New Delhi.Edn.2005									
R.S.N. Pillai and V. Bagavathi, "Cost Accounting", S. Chand and Company Ltd., New									
Delhi.Edn.2004									
S.P.Iyyangar, "Cost Accounting Principles and Practice", Sultan Chand, New Delhi. 2005									
ference Books									
V.KSaxena & C.D.Vashist, "Cost Accounting", Sultan Chand, New Delhi 2005									
M.N.Arora, "Cost Accounting", Sultan Chand, NewDelhi 2005.									
ated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
ttps://icmai.in/upload/Students/Syllabus2016/Inter/Paper-8-New.pdf									
ttps://www.bing.com/videos/search?PC=U523&q=vIDEO+LECTURE+IN+cOST+aCCOUNTING&ru=%2									
search%3fFORM%3dU523DF%26PC%3dU523%26q%3dvIDEO%2bLECTURE%2bIN%2bcOST%2ba									
CCOUNTING&view=detail&mmscn=vwrc∣=D4E6F22C7E60037DB9D0D4E6F22C7E60037DB9D0&F NPM_WDVODC									
ntm=vvvvovc https://drive.google.com/file/d/111ztPE-XSUaDgx2snUwsvLehsrP_hDCU/view									
urse Designed By:									

Je Barris Can								
Mapping Prog	gramme outcon	nes s/le						
	PO1	PO2	PO3	PO4	PO5			
CO1	S	S	S	S	S			
CO2	S	S	S	S	S			
CO3	S	S B B B B B B B B B B B B B B B B B B B	R UNIVER	М	М			
CO4	S	S Statist Bri	M utrisfic Cor	Μ	М			
CO5	S	S EDUC	TE TOS EVATE	Μ	М			

Course code			L	Т	Р	С	
Core- 15		Income Tax Law and Practices	4			4	
Pre-requisite	•	Basic knowledge in law	Syllabus 2022- version 2023				
Course Objec	tives:						
The main obje	ctives of thi	s course are to:					
1. To unders	tand the va	rious concepts of income tax and related terminologies					
2. To familia	arize with c	alculation if income under different heads			•		
3. To unders	tand the pro-	ocess of set off and carry forward of losses while comp	uting	total	1nco	me	
Expected Cou	rse Outcor						
On the succes	sful comple	etion of the course, student will be able to:					
1 Outline	the various	terminologies related to income tax			K	.1	
2 Underst	and the me	thod of calculating and levying tax			K	2	
3 Apply t	he various t	ax laws and available provisions in tax computations			K	.3	
4 Evaluate	the set off	and carry forward of losses while calculating personal	incom	ie	K	.5	
5 Analyze	e self-assess	sment of income and tax computation			K	.4	
K1 - Rememb	ber; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	X6 - (Create			
	•						
Unit:1		Title of the Unit (Capitalize each Word)		20h	our	S	
Income Tax A of Income – C	Act – Defini Charge of T	tion of Income – Assessment year – Previous Year – A ax – Residentia <mark>l S</mark> tatus – Exempted Income.	ssess	ee – S	Scop	e	
TI I I I			1	10 1			
Unit:2				18h	lour	S	
Heads of Incor	ne: Income	from Salaries – Income from House Property.					
IImit.2				17 h			
Unit:5	o of Dusing	and on Profession Income from Other Sources		1/1	lour	S	
FIOIII allu Gall	IS OF DUSING	ess of Profession – income from Other Sources.					
∐nit•4		Combatore ego		15h	our	s	
Capital Gains -	_ Deduction	as from Gross Total Income		101	loui	5	
	Deddettol						
Unit:5				18h	our	S	
Set off and Car	rry forward	of losses - Aggregation of Income- Computation of Ta	ax lial	oility	_		
Assessment of	Assessment of Individuals.						
Unit:6		Contemporary Issues		2	hou	rs	
Expert lecture	es, online se	eminars - webinars					
*	Total Lecture hours 90hours					s	
Text Book(s)							
1 Gaur and	1 Gaur and Narang, "Income Tax Law and Practice" Kalyani publishers New Delhi						
Reference Bo	ooks						
1 Dr. HC M	1 Dr. HC Mehrotra, "Income-tax Law and Accounts" Sahithya Bhavan publishers						

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

1	https://www.bing.com/videos/search?PC=U523&q=video+l%3becture+in+Income+tax&ru=%2fsearch%3f
	FORM%3dU523DF%26PC%3dU523%26q%3dvideo%2bl%253Becture%2bin%2bIncome%2btax&view=
	detail&mmscn=vwrc∣=F8694500529A30E8E535F8694500529A30E8E535&FORM=WRVORC
2	
3	
Co	ourse Designed By:

Mapping Programme outcomes						
	PO1	PO2	PO3	PO4	PO5	
CO1	S	S	L	L	L	
CO2	S	S	L	М	М	
CO3	S	М	М	L	L	
CO4	S	S	L	М	М	
CO5	S	M sabool	Made Cash	L	L	



Course code			L	Т	Р	С		
Elective 1 C		Business Finance	4			4		
Pre-requisit	e	Basic knowledge in Finance	Sylla versi	bus on	2022 2023	2-		
Course Objec	tives:							
The main obje	ctives of thi	s course are to:						
1. To under	stand the va	rious concept relating to finance						
2. To familiarize with the basics of financial planning								
3. To analyz	ze various so	burces and forms of finance	ta					
5 To provid	le knowledg	re about capitalization and related theories	115					
Expected Cou	irse Outcor	nes:						
On the succe	ssful comple	etion of the course, student will be able to:						
1 Outline	various cor	ncepts relating to finance			K	2		
2 List the	various tec	hniques of financial planning			K	2		
3 Analyz	e various so	urces and forms of finance			K	<u>-</u> - <u>4</u>		
4 Examine	the various	dimensions of capital market and their components			K	. I . A		
5 List the	capitalizati	on concept and related theories for decision making			K	. т ГД		
K1 Pomom	bor: K2 U	nderstand: K3 Apply: K4 Apply: K5 Evaluate: 1	76 (rooto		.4		
KI - Keinein	0ei, K 2 - U	nderstand, K5 - Appry, K4 - Anaryze, K5 - Evaluate, I	<u>x</u> u - (Italt	>			
Unit 1		Contraction of the second s		151	mur	·s		
Business Fin	ance: Introd	uction - Meaning - Concepts - Scope - Function of Fi	nance	10 1	Ioui	5		
Traditional a	nd Modern	Concepts – Contents of Modern Finance Functions						
		Combatore God						
		EDUCATE TO ELEVATE						
Unit:2				15l	nour	S		
Financial Plan	: Meaning -	Concept - Objectives - Types - Steps - Significance -	_					
Sources and F	orms of Fin	ance: Equity Shares, Preference Shares, Bonds, Deben	tures	and P	ubli	2		
Deposits, Trac Meaning Fee	le Credit Ba	nk Credit – Features – Advantages and Disadvantages.	- Leas	e Fin	anci	ng:		
Weating – Pea		ms – ments and Dements.						
Unit:3				15I	nour	S		
Capital Struct	ure – Cardin	al Principles of Capital structure – Trading on Equity	- Cos	t of C	Capit	al –		
Concept – Imp	oortance – C	Calculation of Individual and Composite Cost of Capita	1.					
TT 4 - 4				15 1				
Unit:4	Deces of (Conitalization Cost Theorem Farming Theorem Owen	Conit	13I	nour	s		
Under Capital	- Bases OI C	Lapitansation – Cost Theory – Earning Theory – Over (notoms – Causes – Remedies – Watered Stock – Water	Capita red St	ansat	ion – Vs	-		
Over Capitalisa	tion.	iptoms Causes Remedies Watered Stock Water		OCK	• 5.			
<u> </u>								
Unit:5				13I	nour	s		
Dividend Polic	y – Determir	nants of Dividend Policy – Types of Dividend Policy – Adv	antage	s and				
Disadvantages	of Stable Div	idend Policy – Theory of Relevance and Irrelevance.						
Unit:6		Contemporary Issues		2	hou	rs		
Expert lectur	es, online se	eminars - webinars						

B.Com. Syllabus w.e.f. 2023-2024 Onwards - Affiliated Colleges - Annexure No.40A SCAA date: 18.05.2023

		Total Lecture hours	75hours					
Те	Text Book(s)							
1	Essentials	of Business Finance - R.M. Sri Vatsava						
2	Financial N	Management - Saravanavel						
Re	eference Bo	ooks						
1	Financial	Management - L.Y. Pandey						
2	Financial N	Management - M.Y. Khan and Jain						
3	Financial N	Management - S.C. Kuchhal						
Re	elated Onlin	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	http://www.jiv	waji.edu/pdf/ecourse/management/Unit-%203%20capital%20structure.pdf						
2	orporatefinanc	ceinstitute.com/resources/knowledge/finance/capital-structure-overview/						
3	https://efinanc	cemanagement.com/dividend-decisions/dividend-theories						
Co	ourse Design	ned By:						

Mapping Course objectives and course outcomes							
	PO1	PO2	PO3	PO4	PO5		
C01	М	Listens	Seat.	S	S		
CO2	S	M	S	S	М		
CO3	S	S La	S g	S	S		
CO4	S	S	M	S	М		
CO5	М	E STRATH	M	М	М		



Course and			т	т	р	C		
Course code				1	r	C		
Elective I B		Brand Management	4	burg		4		
Pre-requisite	2	Basic knowledge in Brand Management	Sylla Versi	ous ion	202 202	2- 3		
Course Objec	tives:							
The main obje	ctives of thi	s course are to:						
1. To unders	stand the ba	sic concepts of branding						
2. To compa	re and anal	yze brand positioning and brand image building						
3. To analyz	3. To analyze the impact of brand on customer behavior							
4. To famili	arize with b	rand rejuvenation and monitoring						
5. 10 provid	e insignt or	nessential branding strategies						
On the succes	rse Outcon	nes:						
	ha hasia asi	enon of the course, student will be able to.			v	1		
1 Recall t						.1		
2 Compar	re brand ima	age building and brand positioning strategies			K	2		
3 Analyze	e the impact	t of brand, brand loyalty and brand audit.			K	.4		
4 Explain	the brand re	juvenation and brand monitoring process			K	.4		
5 Apply v	various strat	egies for brand building and monitoring			K	.3		
K1 - Remem	ber; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create	e			
	•							
Unit:1				15	hour	'S		
Introduction-	Basic unde	rstanding of brands – concepts and process – significa	ince of	a br	and -	-		
brand mark a	nd trade ma	rk – different types of brands – family brand, individu	al brai	nd, pi	rivate	э		
brand – selec	ting a brand	name – functions of a brand – branding decisions – in	nfluen	cing				
lactors.		Combalore 80°						
Unit:2		EDUCATE TO ELEVATE		15	hour	'S		
Brand Associa	tions: Brand	d vision – brand ambassadors – brand as a personality	, as tra	ding	asse	t.		
Brand extension	on – brand p	positioning – brand image building	,	0		- /		
Unit:3				15]	hour	'S		
Brand Impact:	Branding i	impact on buyers – competitors, Brand loyalty – loy	alty p	rogra	mme	ès –		
brand equity -	- role of br	and manager – Relationship with manufacturing - m	narketi	ng- f	inan	ce -		
purchase and H	R & D - bra	nd audit						
IInit•4				15	hour	·c		
Brand Reiuver	ation Bran	d rejuvenation and re-launch brand development thro	uoh a		ition	6		
takes over and	merger $-N$	In relation and re-radient, brand development the	cle. Co	-brai	nding	y.		
						<u>, </u>		
Unit:5				13	hour	'S		
Brand Strategi	es: Designin	ng and implementing branding strategies – Case studie	es					
	1	~ ~ ~						
Unit:6	1'	Contemporary Issues		2	2 hou	rs		
Expert lecture	es, online se	minars - webinars		75	h 0			
		1 otal Lecture nours		13	nour	8		

B.Com. Syllabus w.e.f. 2023-2024 Onwards - Affiliated Colleges - Annexure No.40A SCAA date: 18.05.2023

Text Book(s)
1 Kevin Lane Keller, "Strategic brand Management", Person Education, New Delhi, 2003.
2 Lan Batey Asian Branding – "A great way to fly", Prentice Hall of India, Singapore 2002
3 Jagdeep Kapoor, Brandex, Biztantra, New Delhi, 2005
Reference Books
1 Jean Noel, Kapferer, "Strategic brand Management", The Free Press, New York, 1992
2 Paul Tmeporal, Branding in Asia, John Wiley & sons (P) Ltd., New York, 2000
3 S.Ramesh Kumar, "Managing Indian Brands", Vikas publishing House (P) Ltd., New Delhi,
2002
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 opykitab.com/Brand-Management-by-Ranjeet-Verma
2
4
Course Designed By:

Mapping Course objectives and course outcomes							
	PO1	PO2	PO3	PO4	PO5		
C01	S	M	S	S	S		
CO2	S	S	S	М	S		
CO3	S	S Age	ı M	М	М		
CO4	S	S	S	S	М		
CO5	S	S RATHIA	R UNIV M	M	М		



Course code		Т	т	р	C			
Floative 1 C	Fundamentals of Insurance		1	1				
Elective I C	F undamentais of msurance	4 Svlla	hus		4			
Pre-requisite	Basic knowledge about Insurance	Versi	ion	202 202	2- 3			
Course Objectives:								
The main objectives of th	is course are to:							
1. To understand the ba	asic concepts of insurance							
2. To familiarize with t	the concept of working of agency							
3. To understand vario	3. To understand various forms of underwriting							
4. To provide knowled	ge about the formation of insurance companies							
5. To acquaint with the	e basic principles of different types of insurance							
Expected Course Outco	mes:							
On the successful compl	letion of the course, student will be able to:							
1 Recall the different concepts of insurance and its working				K	.1			
2 Explain the concep	pt of agent and its working system			K	.2			
3 Evaluate the funct	ions of agents and various forms of underwriting			K	.5			
4 Analyze the various	s actuarial aspects relating to insurance companies			K	4			
5 List the basic prine	ciples of insurance and various types of it.			K	[4			
K1 - Remember; K2 - U	Inderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	; K6 - (Create	e				
Unit:1			15]	hour	'S			
Introduction to insurance insurance and economic	e: Purpose and need of insurance: Insurance as a social development	al secur	ity to	ol;				
	Combatore 66							
Unit:2	Enverse of courts		15	hour	'S			
Procedures for Becomin	g an Agent: Pre- requisite for obtaining a license:	Duratio	n of	lice	nse;			
Cancellation of license;	Revocation or suspension/termination of agent ap	pointme	ent;	Code	of to			
conduct, Ontall practices	•							
Unit:3			15	hour	'S			
Functions of the Agent:	Proposal form and other forms for grant of cover: Fi	nancial	and	medi	ical			
underwriting; Material ir	nformation; Nomination and assignment; Procedure 1	egardir	ng se	ttlem	ent			
of policy claims.								
Unit:4			15	hour	s			
Company Profile: Organi	zational set-up of the company; Promotion strategy; N	Market	share	;				
Important activities; Strue	cture; Product; Actuarial profession; Product pricing -	actuari	ial as	pects	5;			
Distribution channels								
TT	1		10	1				
Unit:5	$C_{1}^{1}C_{2}^{1} = \frac{1}{2} \frac{1}{2}$		13	nour	S			
various kinds; Insurance	Interest	ce: Cor	itract	10				

Unit:6	6 Contemporary Issues							
Expert lecture	Expert lectures, online seminars - webinars							
	Total Lecture hours	75hours						
Text Book(s))							
1 Mishra M	.N: Insurance Principles and practice; S. Chand and co, New De	lhi						
2 Insurance	Regulatory Development Act 1999							
Reference B	ooks							
1 Life Insur	ance Corporation Act 1956							
Related Onli	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1								
2								
4								
Course Desig	ned By:							

Mapping Course objectives and course outcomes							
	PO1	PO2	PO3	PO4	PO5		
CO1	S	Mentheone	S	S	S		
CO2	S	S	M	S	S		
CO3	S	S	M	М	М		
CO4	S	M	M	S	М		
CO5	S	E M RATHI	RUNNM	S S	S		
பிதுர்து இந்தப்பாரை உயர்த்திட்டு சம்புகாச to Elevare							

Cou	irse code			L	Т	P	С		
SBC	23		Business Application Software II	4			4		
Pro	e-requisite		Basic knowledge in MS PowerPoint and MS Access	Sylla Vers	ibus ion	2022- 2023			
Cou	irse Object	tives:							
The	main objec	ctives of thi	s course are to:						
	Understan	d the basic	framework and how to work in MS - PowerPoint and	MS -	Acce	ess			
Exp	ected Cou	rse Outcor	nes:						
On	the succes	sful comple	etion of the course, student will be able to:						
1	Underst	and the bas	sic concepts computer applications using MS-PowerPoi	int		K	2		
2	Create and present	d do effecti tation.	ve presentation for the business meeting using power p	oint		K	2		
3	Underst	and the bas	ic concepts computer applications using MS-Access			K	2		
4	Generat	e the databa	ase using MS-Access			K	2		
5	Examine	the Filterin	g and Querying Tables and Querying Tables			K	2		
K1	l - Rememb	oer; K2 - U	nderstand; K3 - Apply; K4 - Analy ze; K5 - Evaluate; F	36 - (Create	e			
Un	nit:1		The second se		9h	ours			
	Microsoft andTables -Menus,Te	t PowerPo – Drawing oolbars and	int: Basics – Using Text – Adding Visual Elements – g – Clipart – Sounds – Animation – Apply Time Transit NavigationinPowerPoint.	Char tions	ts to Sl	ides			
Un	nit:2		Biglingers & With Bi		8h	ours			
	Workingw –SlideCol	vithPowerP ourSchema	oint:SlideSorter–DateandTime–Symbol–SlideLayout– –Macros–CustomAnimation.	Font					
Un	nit•3				9h	ours			
	Microsoft Access: Database Overview-Creating Database–Creating database through Table Wizard–Modifying Table.								
Un	nit:4				9h	ours			
	Creatinga	Table–Rena	ameColumns–SavingtheDatabase–Relationships-Forms	3.					
Un	nit:5				8h	ours			
	Filteringar SharingIn	ndQuerying formationb	Tables–CratingReportsandMailingLabels– etweenApplications.						

Unit:6	Contemporary Issues	2 hours
Expert lecture	es, online seminars - webinars	
	Total Lecture hours	45hours
Text Book(s)		
¹ SanjaySax	xena,"MS-Office2000",VikasPublishingHousePrivateLtd.	
Reference Be	ooks	
1 TimothyJ	.O'LearyandLindaiO'Leary,"MS-Office",IRWIN/McGrawH	[ill.
Related Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1		
2		
4		
Course Desig	ned By:	
	S C SS	

Mapping Course objectives and course outcomes								
	PO1	PO2	PO3	PO4	PO5			
CO1	S	S	S	S	М			
CO2	S	ES STRATHI	M	S	S			
CO3	М	S	oimbatore S Belle	S	S			
CO4	S	S EDUCA	JITのJI 2-山名 TE TO ELEVATE S	М	М			
CO5	M	М	S	S	S			



Cou	rse code			L	Т	Р	С						
Core- 16			Management Accounting				4						
Pre-requisite			Basic knowledge in Accounting		Syllabus 2022- Version 2023								
Course Objectives:													
The main objectives of this course are to:													
1.	To unders	tand the var	rious components of management accounting and re	lated ter	ms								
2.	To unders	tand analys	is using ratio, working capital management and man	ginal co	sting								
3. To familiarize with budget preparation and budgetary control tools													
Expected Course Outcomes:													
On the successful completion of the course, student will be able to:													
1	Outline	the various	concepts relating to management accounting		K2								
2	Analyze	Analyze financial statements using ratio analysis					4						
3	Evaluate	e the working	ng capital management of companies			K5							
4	Comparing various alternatives using marginal costing and decision making					K2							
5	Analyze new budget and budgetary control for organizations						4						
K1	- Rememb	er; K2 - Ui	nderstand; K3 - App <mark>ly; K4</mark> - Analyze; K5 - Evaluate	e; K6 - (Create								
			AND ONDERLY ALL										
Uni	it:1		S a la s		20	hou	rs						
Ma	nagement .	Accounting	g – Meaning – Objectives and Scope – Relationship	between									
Management Accounting, Cost Accounting and Financial Accounting.													
					10								
Un	It:2	A 1 '	A THUR ON STATE		18 hours								
Ratio Shoo	o Analysis	– Analysis	of liquidity – Solvency and Profitability – Construc	tion of I	salano	ce							
Slice	<i>ι</i> .		EDUCATE TO ELEVATE										
Un	it:3				17 hours								
Wor	king Capit	al – Workir	ng capital requirements and its computation – Fund	Flow Ar	low Analysis and								
Cash	Flow Ana	alysis.			<u> </u>								
				I									
Unit:4					15 hours								
Marg	ginal costir	ng and Brea	k Even Analysis – Managerial applications of marg	inal cos	ting –								
Sign	ificance an	a limitatio	ns of marginal costing.										
Un	it:5				181	10111	s						
Bud	peting and	Budgetary	control – Definition – Importance, Essentials – Clas	sificatio	$\frac{10}{10}$	Budg	rets						
-Ma	aster Budg	et – Prepara	ation of cash budget, sales budget, purchase budget,	material	budg	get,	,						
flexi	ble budget	•											
Unit:6			Contemporary Issues	2 hours									
Exp	pert lecture	es, online se	eminars - webinars	1	00								
			Total Lecture hours		90	hou	rs						

Text Book(s)						
1	Dr. S.N. Maheswari. "Management Accounting", Sultan Chand & Sons, New Delhi, 2004. 2					
	3. 4.					
2	Sharma and S.K.Gupta "Management Accounting", Kalyani Publishers, New Delhi,2006					
Reference Books						
1	. S.P. Jain and KL. Narang , "Cost and Management Accounting", Kalyani Publishers, New					
	Delhi					
2	S.K.Bhattacharya, "Accounting and Management", Vikas Publishing House.					
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://www.icsi.edu/media/webmodules/publications/Company%20Accounts,%20Cost%20and%20Manage					
	ment%20Accounting.pdf					
2	https://ebooks.ibsindia.org/mac/chapter/budgeting-and-budgetary-control/					
Course Designed By:						

Mapping Programme outcomes											
	PO1	PO2	PO3	PO4	PO5						
CO1	S	S	S	S	S						
CO2	S	S	S E	S	S						
CO3	S	S	S	S	S						
CO4	S	S	S	М	М						
CO5	S	S & BE	R UNIVER JOB	М	М						


Соц	rse code			L	Т	Р	С			
Core	- 17		Principles of Auditing	4		-	4			
Pre	e-requisite		Basic knowledge in Auditing	Sylla Versi	bus 2 ion 2	.022- .023				
Cou	rse Object	tives:								
The	main objec	ctives of thi	s course are to:							
1. 2. 3	 To understand the various concepts of auditing and the procedure for the conduct of internal audit To familiarize with the process of valuing assets and liabilities To understand the process of auditing the joint stock companies and investigation mechanism 									
Exp	ected Cou	rse Outcon	nes:	inguitor	mee	inaini	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
On	the succes	sful comple	etion of the course, student will be able to:							
1	Define t	he importa	nt concept and rules relating to auditing			K	1			
2	Outline	the techniq	ues and applicability of internal audit			K	2			
3	Analyze	the valuati	on of assets and liabilities in business			K	4			
4	Analyze	the account	s and auditing the joint stock companies			K	4			
5	Examin	e about invo	estigation and auditing of computerized accounts			K	4			
K1	- Rememb	oer; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create					
			S Can Su							
Un	it:1				15ł	our	S			
Au an A	diting– Ori Auditor – A	igin – Defir Audit Progr	antion – Objectives – Types – Advantages and Limita ammes	tions –	Qual	ties	of			
Un	it:2		THIAR UNIT A		15ł	our	s			
Inter – Ve Impe	nal Contro oucher – ersonal Leo	l – Internal Vouching dger.	Check and Internal Audit – Audit Note Book – Worki of Cash Book – Vouching of Trading Transacti	ng Pap ons –	ers.V Vouc	ouch hing	ing of			
Un	it·3				15}	m	S			
Veri	fication an	d Valuatior	of Assets and Liabilities – Auditor's position regardi	ng the	valua	tion	and			
verif	fications of	Assets and	Liabilities – Depreciation – Reserves and Provision	s – Sec	ret Re	eserv	es.			
Un	it:4				15ł	our	s			
Audi Appo Capi	it of Joint Soint Soint Sointment of and Sha	Stock Comp f Company are Transfe	panies – Qualification – Dis-qualifications – Various Auditor – Rights and Duties – Liabilities of a Comp r Audit – Audit Report – Contents and Types.	modes any Au	of ditor	– Sh	are			
Uni	it:5				13ł	nour	s			
Inve Aud	stigation – iting – Inve	Objectives estigation u	of Investigation – Audit of Computerised Accounts nder the provisions of Companies Act.	– Elect	ronic					

U	it:6 Contemporary Issues 2 hour										
Ex	Expert lectures, online seminars - webinars										
		Total Lecture hours	75hours								
Te	Text Book(s)										
1	B.N. Tand	on, "Practical Auditing", S Chand Company Ltd									
Re	eference Bo	oks									
1	.R.M De P	aula, "Auditing-the English language Society and Sir Isaac Pitr	nan and Sons								
	Ltd,Londo	n									
2	Spicer and	Pegler, "Auditing: Khatalia's Auditing" 4. Kamal Gupta, "Aud	liting", Tata								
	Mcgriall P	rublications									
Re	elated Onlin	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1	http://ebooks.	lpude.in/commerce/bcom/term_3/DCOM204_AUDITING_THEORY.pdf									
2	https://www.h	impub.com/documents/Chapter3442.pdf									
3											
Co	ourse Design	ned By:									

	Mapping with programme outcomes									
	PO1	PO2	PO3	PO4	PO5					
CO1	S	S	S	S	S					
CO2	S	S	S	М	М					
CO3	S	S	M	S	S					
CO4	S	Ste RATH	R UNIVERS	s M	М					
CO5	S	S Project of	oimb Sre	М	М					

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

EDUCATE TO ELEVATE

0	•			-	T	_	C			
Course code				L	T	P	C			
Core	e- 18		Indirect Taxes	4	- 0		4			
Pre	e-requisite		Basic knowledge in Tax	Sylla	ibus 2 ion 2	.022- 023				
Соп	rse Obiect	tives:		Vers		1025				
The	main objec	ctives of thi	s course are to:							
1	To unders	tand the ap	plicability of indirect taxes in India							
2.	To familia	rize with th	e calculation and execution of goods and service tax	in Indi	a					
3.	3. To understand the working of custom law in India									
Exp	ected Cou	rse Outcon	nes:							
On	the succes	sful comple	etion of the course, student will be able to:			T				
1	Recall v	arious conc	epts relating to Indirect tax regime in India			K	.1			
2	Analyze	the concept	at and applicability of GST in businesses			K	4			
3	Compar	e the GST 1	regime with other indirect tax laws prior to it			K	2			
4	Illustrate	GST system	n in own business and other prototypes			K	2			
5	Examine	e the custor	n law and related duties and taxes			K	4			
K1	- Rememb	oer; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create	,				
			AMONOBASIDALD C							
Un	it:1				12	hou	rs			
Me	aning of T	fax and Tax	ation - Types of Taxes: Direct and Indirect Taxes -	Featur	res –	Mer	its			
and	Limitatio	ns - Compa Is of levvin	arison of Direct and Indirect taxes. Constitutional ba	isis of I	Taxa ndira	tion	1n			
taxe	es to Gove	rnment Rev	enues		nuno					
			The Contraction of the Contracti							
Uni	it:2		HIAR UN		15	hou	Irs			
Goo	d and Serv	ices Tax in	India - Introduction - Concept of GST - Need for C	ST - A	dvan	tage	s of			
GST	Structure	e of GST i	n India: Dual Concept – CGST- SGST- UTGST-I	GST. S	ubsu	ming	g of			
Taxe	es- GST Ra	ate Structur	e in India. GST Council: Structure and Functions.							
Un	it:3				15	hou	rs			
Levy	v and Colle	ection unde	r CGST and SGST Acts: Meaning of important term	ns: Goo	$\frac{10}{\text{ods. S}}$	ervi	ces.			
Supr	olier, Busi	ness, Manu	facture, Casual Taxable Person, Aggregate Turno	ver, In	put T	ax a	and			
Outp	out Tax. Ta	axable Even	nt under GST: Concept of Supply - Time of supply	- Valu	e of '	Гаха	ıble			
supp	oly. Compo	site and Mi	xed Supplies. Input Tax Credit: Meaning - Eligibility	/ and C	ondit	ions	for			
avail	ling Input	Γax Credit.	Reverse Charge Mechanism under GST. Composition	n Levy	: Mea	aning	g			
and	Applicabili	ity.								
Un	it:4				15ł	nour	'S			
Levy	and Colle	ection under	Integrated Goods and Services Tax Act: Meaning of	f impor	tant t	erms	<u>-</u> s:			
Integ	grated tax,	Intermedia	ry, Location of the Recipient and Supplier of Service	s, and Z	Zero-1	ated				
Supp	oly. Nature	of Supply:	Intra-State Supply and Inter-State Supply - Place of	Supply	of G	oods	sor			
Serv	ices: Mear	ing and De	termination. Procedures under GST: Procedure for R	egistra	tion -	_				
Pers	ons Liable	tor Registr	ation - Compulsory Registration and Deemed Registr	ation.	E-Wa	y Bi	.11			
unde Doto	er GS1: Me	eaning and	Applicability. Filing of Returns: Types of GST Retur	ns and	tneir	Due				
Date	·U•									

Unit:5		16hours						
Introduction t	o Customs Laws in India: The Customs Act 1962 - The Customs	s Tariff Act 1975 -						
Basic Concep	Basic Concepts - Taxable Event - Levy and Exemptions from Customs Duty - Types - Methods of							
Valuation- Al	Valuation- Abatement of Duty on Damaged or Deteriorated Goods - Customs Duty Draw Back.							
	· · ·	•						
Unit:6	Contemporary Issues	2 hours						
Expert lectur	es, online seminars - webinars							
	Total Lecture hours	75hours						
Text Book(s								
1								
Indirect 7	Taxes Law and Practice - V.S.Datey. Taxmann Publications, New	v Delhi.						
2 Indirect	Taxes: GST and Customs Laws - R.Parameswaran and P.Viswan	athan,						
Kavin Pu	blications, Coimbatore.							
Reference B	ooks							
1 GST Lav	and Practice - S.S.Gupta, Taxmann Publications, New Delhi.							
2 Indirect	Faxation - V.Balachandran. Sultan Chand & Co. New Delhi							
Related On	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1 https://tuto	rstips.com/wp-content/uploads/2019/ <mark>03/Goo</mark> ds-and-Services-Tax-In-India	a-Ebookpdf						
2 https://www 57992F1E01	.bing.com/videos/search?q=gst+video+youtube&view=detail∣=7DFF93: E3671&FORM=VIRE	57992F1E0E36717DFF93						
4								
Course Desi	oned By:							

	Mapping with programme outcomes										
	PO1	PO2	PO3	PO4	PO5						
CO1	S	S ^{ij} si Dissi	UITED T 2 LUIT 2 AL C	М	М						
CO2	S	S	М	М	М						
CO3	S	М	М	М	М						
CO4	S	S	М	М	М						
CO5	S	S	М	М	М						

Course code		L	Т	Р	С		
Core -19	Computer Applications: MS Word And MS Excel and Tally Practical	4	-	-	-		
Pre-requisite	Basics knowledge in MS Word and MS Excel	Syllabus Version	vllabus ersion 2021-22				
Course Objective	25:						
The main objectiv	es of this course are to:						
1. Acquire an	ad apply the computer applications in different aspects of	ousiness					
2. Get an insi	ght knowledge on MS-office						
3. To inculca	te knowledge over programs in Tally.						
Expected Course	Outcomes:						
Un the successfu	i completion of the course, student will be able to:	-	V	<u></u>			
application	s for the business transactions.	e	K	2			
2 Creating an	nd preparing the programmes in Tally package		K	4			
K1 - Remember;	K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K6 – C	reate	;			
		. –					
	MS WORD and MSEXCEL	15 Hours					
 Createthefr Typeadocut i. Cl ii. Cl iii. Fi Prepareacla Prepareama 	ontpageofaNewsPaper. mentandperformthefollowing: hangeaparagraphintotwocolumncashbook. hangeaparagraphusingbullets(or)numberingformat. ndanywordandreplaceitwithanotherwordindocument. asstimetableusingatablemenu. ailmergeforaninterviewcallletter.						
5. Develop th save it. S student,cou	e Students Mark List worksheet and calculate total, a pecify the Result also (Field names: S.NO, Nar rse, mark1, mark2, mark3, total, average and result).	verage and ne of the					
 Design a cl years. Create a Piv 	hart projecting the cash estimate of a concern in the for vot table showing the performance of the salesmen's.	orthcoming					
	Tally30 Hours						
 Company 0 Creating an Voucher C Voucher A InventoryIn InventoryIn FinalAccon 	Creation and Alteration nd Displaying Ledger reation lteration and Deletion nformation–StockSummary nformation–GodownCreationandalteration unts						

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

S- Strong; M-Medium; L-Low



Cou	rse code		TITLE OF THE COURSE	LT						
Elect	tive 2 A		Entrepreneurial development	4			4			
Pre-requisite			Basic knowledge about entrepreneurship Syllabus Version 2							
Cou	rse Object	tives:								
The	main objec	ctives of thi	s course are to:							
1.	To unders	tand the bas	sic concepts of entrepreneurship and related initiative	s						
2. To provide insights about the setting up of startups										
3.	To familia	rize with th	e institutional services to entrepreneur							
4.	To provid	e knowledg	e about various financial support available to the ent	reprene	urs					
J. Evn	10 provide	e knowledg	e about various subsidies and incentives available to	r entre	brene	urs				
On	the succes	sful comple	ation of the course student will be able to:							
1	Decall f	he importar	control of the course, student will be able to:	ity		k	1			
1 2	Evoluin	the verieue	process of setting up a startup	пу			.1 '2			
2	Outling	the various	institutional convices to entropropour				2			
3	Austral		financial institutional services to entrepreneur				.2			
4	Analyze	the various	financial institution available to support entrepreneur	-S		K	.4			
5	List the	various sub	sidies and incentives available for entrepreneurs		~	K	.4			
K1	- Rememb	per; $\mathbf{K2} - \mathbf{U1}$	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create	2				
TI	4.1		and the second sec		10					
	ll:1	4	Line D. C. M. Marshall I. I. Statistics Continues	1.	12		S			
and	type of	entrepreneurs	rship, phases of EDP, Development of women en	trenren	p - n		on ral			
enti	epreneur	– includi	rsing phases of EDT. Development of women council schen	ne New	trei	nds	in			
Ent	repreneurs	hip-	EDUCATE TO ELEVITE							
	•	•								
Uni	it:2				12]	hour	S			
The	start-up pr	ocess, Proje	ect identification – selection of the product – project	formula	ation					
evalu	uation – fe	asibility and	alysis, Project Report- Start-up initiatives by Governi	nent –						
Polic	cy Initiativ	es -Make ir	India							
Uni	it:3				10	hour	s			
Insti	tutional ser	rvice to ent	repreneur – DIC, SIDO, NSIC, SISI, SSIC, SIDCO –	ITCO	T. IIC	2	~			
KUI	C and com	mercial ba	nk.		,	- ,				
Uni	it:4				12]	hour	'S			
Insti	tutional fir	nance to ent	repreneurs : IFCI, SFC, IDBI, ICICI, TIIC, SIDCS, I	LIC and	I GIC	, UT	Ί,			
SIPC	201 - SID	BI commer	cial bank venture capital.							
Uni	it:5				12	hour	s			
Incer	ntives and	subsidies –	Subsidied services – subsidy for market. Transport –	- seed c	apita	1	5			
assis	tance - Tax	xation bene	fit to SSI role of entrepreneur in export promotion an	d impo	ort					
subs	titution.		· · · ·	•						
			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~							
	it:6	1'	Contemporary Issues		2	2 hours				
Exp	bert lecture	es, online se	minars - webinars		(0)					
			1 otal Lecture hours		00	nour	S			

Te	ext Book(s)								
1	Entrepreneurial Development – C.B.Gupta and N.P.Srinivasan								
2	Fundamentals of Entrepreneurship and Small Business –Renu Arora & S.KI.Sood								
Re	Reference Books								
1	Entrepreneurial Development – S.S.Khanka 4. Entrepreneurial Development – P.Saravanavel								
2	Entrepreneurial Development – S.G.Bhanushali								
3	Entrepreneurial Development – Dr.N.Ramu								
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1	https://www.bing.com/videos/search?q=videos+lecture+on+Entrepreneurship+development&view=detail∣=80 F189D37600ABFF945880F189D37600ABFF9458&FORM=VIRE								
2	https://youtu.be/JaymOioQ7jE								
3									
Co	ourse Designed By:								

Mapping Course objectives and course outcomes										
	PO1	PO2	PO3	PO4	PO5					
C01	М	S	நகழக _{ம்} M	S	S					
CO2	S	S	S	S	S					
CO3	S	S	S	М	S					
CO4	S	S	S	S	S					
CO5	S	S	S	М	М					
E HIHAR UNING S										

Соц	rse code			т	т	р	C			
Floot	tivo 2 B		Supply aboin management	4						
Pre	e-requisite		Basic knowledge in marketing	Syllabus version 2022 2023		2- 3				
Cou	rse Object	tives:								
The	main objec	ctives of thi	s course are to:							
1. 2. 3. 4. 5.	 To understand the importance of supply chain management To provide insight about various strategies of supply chain management To understand the importance of strategic alliance in supply chain management To understand the process of procurement and outsourcing To acquaint knowledge about smart pricing strategies and customer value measures 									
Exp	ected Cou	rse Outcon	nes:							
On	the succes	stul comple	etion of the course, student will be able to:			1/	1			
1	Recall the	he importar	ice of supply chain management in the modern times			K	.1			
2	Outline	the various	strategies in supply chain management			K	2			
3	Examine	e the conce	pt of retailer supplier partnership			K	.4			
4	Analyze	the process	of procurement, outsourcing and e-procurement			K	.4			
5	List the	ideas about	smart pricing strategies and measuring customer value	es		K	.4			
K 1	- Rememb	ber; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	X6 - (Create	e				
	• •				10					
Un		λ			12	hour	5			
Sup mai	nagement -	– economic	lot size model. Supply contracts – centralized vs. dece	ntrali	zed s	ystei	n			
			E STITHIAR UNIVER S							
			Combatore Co	-						
Uni	it:2		の 協会は山口の町 たりucAre to CUNATE		12]	hour	S			
Supp indu	oly chain I stry – retai	ntegrates- P 1 industry –	ush, Pull strategies – Demand driven strategies – Impa distribution strategies	ict on	groc	ery				
Uni	it:3				12]	hour	S			
Strat	tegic Allia	nces: Frame	e work for strategic alliances – 3PL – merits and demen	its –	retail	er –				
supp	nei partie	rsnip – auv	antages and disadvantages of KSF – distributor integra	uon						
Un	it:4				12]	hour	s			
Proc	urement a	nd Outsourc	cing: Outsourcing – benefits and risks – framework for	make	e/buy					
decis	sion – e-pr	ocurement	- frame work of e-procurement							
TI	•4.5				10	1				
Dim	II:5	Nuctom on V	alua conformance of requirement product calestion		10	hour	s nd			
-val	lue added s	services – s	trategic pricing – smart pricing – customer value measure	– pri ures	ce an	u dra	.na			
.	•• •									
Un	II:0	a online	Contemporary Issues		2	hou	rs			
EX	pen lecture	s, onine se	Total Leature hours		60	hour				
T	rt Dool-(c)		I biai Lecture nours		00	uvul	3			
1 62	AL DOOK(S)									

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1	Rushton, A., Oxley, J & Croucher, P (2nd Edition, 2000). Handbook of Logistics and					
	Distribution Management. Kogan Page.					
2	Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies.					
	Irwin/McGraw Hill 32					
Re	eference Books					
1	Simchi-Levi, David, Kamisnsky, Philip, and Simchi-Levi, Edith. (2nd Edition, 2004).					
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]					
1						
2						
4						
Co	Course Designed By:					

Mapping Course objectives and course outcomes							
	PO1	PO2	PO3	PO4	PO5		
C01	S	М	S	М	S		
CO2	S	S	S	М	S		
CO3	S	S :5860.60	நகழக _{ப்} , S	S	S		
CO4	S	S	M	S	М		
CO5	S	S	M	М	М		



~					-	-	-	a
Course coo	e				L	Т	P	С
Elective 2 (Principles of Web Design	ing	4			4
Pre-requisite			Basic knowledge about inte	Basic knowledge about internetSyllabusVersion			³ 2022- 2023	
Course Ob	jectives	:						
The main o	ojectives	s of thi	course are to:					
1. To pro	vide kno	owledg	about working in HTML					
2. To un	erstand	the wo	king of XML					
3. To une	erstand	the bas	c and advanced process of java script	ing				
4. To pro	4. To provide insights about the CGI and server side scripting							
5. To pro	vide kno	owledg	about the various data base tools					
Expected Q	ourse C		es:	4.5.				
		·	on of the course, student will be able	10:			T	
I Out	ne the b	asic w	rking in HTML and graphics				K	2
2 Exp	ain the v	vorkin	of XML				K	2
3 App	y the ba	sic and	advanced process of java scripting				K	3
4 Analy	ze the C	GI and	server side scripting				K	[4
5 Exp	ain the v	various	veb database tools in web designing	_			K	.4
K1 - Rem	ember; k	K2 - Ur	lerstand; K3 - Apply; K4 - Analyze; l	K5 - Evaluate:	; K6 - (Create	e	
TT 1								
			Title of the Unit (Capitalize each Wo	ord)		12	hour	'S
HIML &	Jraphics	S: HIN	2 4.0 Tag Reference, Global Attribute	es, Event Hand	Table '	ocun	nent	
Tags Frat	ags, ru	Evecu	ble Content Tags, Image Mans, Adv	x mage map,	rable s Tabl	rags, es Fi	, FUI rame	ill s
forms & S	tvle She	ets.	Combatore	inced Graphie	<i>.</i> s, 1401	03, 11		3,
	- <u>j</u>		State altrainer a with the					
Unit:2			Title of the Unit (Capitalize each Wo	ord)		12]	hour	S
XML: Intro	duction	to XM	, Problems with HTML & SGML. Ty	pes of XML	Markup	. Do	cume	ent
Type Defin	tions, L	inking	Using Style Sheets with XML, XML	Summary				
Unit.2		r	the of the Unit (Capitalize each Word	1)		12	hour	
Introductio	to Iav	a Scrit	ing Web Browser Object Model N	1) Anipulating	Window	12	Fra	B
with Java	Scrint 1	a Serr Usino	ava Script to create smart forms	Cookies and	State]	vs & Main	tenai	nce.
Maintainin	State. I	Introdu	tion to Cookies. Advantages and limi	tations of Coc	kies. D	isady	vanta	ges
of Cookies	How to	Use (ookies, which Servers and Browsers	support Cook	ies. Ínti	roduc	ction	to
DHTML. A	dvanced	l Netsc	pe DHTML, Advanced Microsoft DH	ITML & Cros	s brows	ser D	HTN	ſL
	1							
Unit:4			tle of the Unit (Capitalize each Word	l)	~ ~ ~ ~	10-h	ours	3
CGI & Ser	er side s	scriptin	, CGI & the WWW, Beyond HTML	with CGI, Ho	w CGI	work	s. CC	Η
Server requ	rements	S IOP W	NDOWS-NI & UNIX, CGI script str Librariag, Java Sarulata, Saruar Sida	ucture, Standa	ard CG	L		
Livitonine	n variat	Jies, U	1 LIUIAIIES, JAVA SEIVIELS, SEIVEI-SIU	5				
Unit:5]	tle of the Unit (Capitalize each Word	l)		12]	hour	'S
Java Script	Web D	atabase	Tools, ORACLE & MS-ACCESS, Da	atabase tools,	PHP, S	erver	Side	e
includes. V	sual Ba	sic, Sci	pting Edition & Active Server Pages					

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Unit	:6	Contemporary Issues	2 hours					
Expe	ert lectures	s, online seminars - webinars						
		Total Lecture hours	60hours					
Text	Text Book(s)							
1 U	1 Using HTML 4, XML & JAVA by Eric Ladd & Jim O'Donell (Platinum Edition) (PHI)							
Refe	erence Bo	oks						
1 P	PERL & C	GI by Elizabeth Castro (Pearson Education						
Relat	ted Onlir	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1								
2								
4								
Cour	rse Design	ed By:						

Mapping Course objectives and course outcomes								
	PO1	PO2	PO3	PO4	PO5			
CO1	S	М	S	М	S			
CO2	S	S 560.60	நகழக _{ம்} S	S	S			
CO3	S	S	S	S	S			
CO4	S	S	S	S	М			
CO5	S	S	S	М	М			



Cou	irse code			L	Т	Р	С	
Elec	tive 3 A		Financial Markets	4			4	
Pro	e-requisite		Basic knowledge about financial market	Sylla rsi	bus on	20 20	22- 23	
Cou	rse Object	ives:			ľ			
The	main objec	ctives of thi	s course are to:					
1.	To underst	tand the bas	sic concepts of financial market					
2.	To analyze	e the working	ng and components of corporate securities market					
3.	To evaluat	te the functi	ioning of stock exchanges in India					
4. To evaluate the role of banks and intermediaries in financial market								
J. Evn	10 provide	rso Outcon	bout the new models and innovative trends in linanci	ng				
On	the succes	sful comple	ation of the course, student will be able to:					
1	Define t	he basic co	ncents of financial market			K	1	
1 2							.1	
2			ig and components of corporate securities market				.4	
3	Explain	the function	ning of stock exchanges in India			K	.4	
4	Explain t	he role of b	anks and intermediaries in financial market			K	.4	
5	Apply v	arious trenc	Is and new modes in financing			K	.3	
K1	- Rememb	er; K2 - Ur	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Create			
	• •				40.1			
		1			<u>10ł</u>	nour	<u>s</u>	
Ind Cla	lia – India assification	n Capital I and object	Markets – Difference between Money Market and of Indian Money Markets and Structure of Capital N	Capita Iarkets.	al Ma	rket	- -	
TI	:4.0		Command Sec		10 1			
Un	lt:2	morata Saa	unitian New Jacus Markets Functions Jacus Mach	oniom	12r Mor	lour	S st	
Ban	king - Role	and Functi	ons of Merchant Bankers in India – Under writing.		- Mei		n 	
Un	it:3				12ł	our	s	
Seco	ondary Mar	kets – Stoc	k Exchange – Role of Secondary Market – Trading i	n Stock	Excl	nang	<u> </u>	
Vari	ious Specul	ative Trans	actions – Role of SEBI – Regulation of Stock Excha	nge.				
Un	it:4				10ł	our	S	
Ban GIC	ks as Finan 2 – UTI – M	cial Intermo Iutual Fund	ediaries – Commercial Banks Role in Financing – ID s – Investments Companies.	BI – IF	FCI –	LIC	—	
Un	iit:5				14ł	nour	S	
New	Window Modes of	Financing -	- Leasing as Source of Finance - Forms of leasing -	Ventur	e Cap	oital	_	
Dim Fact Utili	ension Fun oring – Fac ity of Secur	ctions – Ve ctoring as S itisation – S	enture Capital in India – Factoring – Types – Modus ource of Finance – Securitisation of assets – Mechan Securitisation in India.	Operan ics of S	di of Securi	tisat	ion	
	J ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	,	·····					
Un	it:6		Contemporary Issues		2	hou	rs	
Ex	pert lecture	s, online se	minars - webinars					
			Total Lecture hours		60ł	our	S	

Te	ext Book(s)
1	Financial Markets and Services- E.Gorden K.Natarajan
2	Financial Markets and Institutions – Dr.S.Gurusamy
3	
4	
Re	ference Books
1	Financial Institutions and Markets - Bhole
2	Financial Markets, Institutions and services- N.K.Gupta
3	
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://unacademy.com/content/bank-exam/study-material/indian-international-finance-system/financial-market-in-
	india/
2	
3	
Co	burse Designed By:

PO1 PO2 PO3 PO4 PO5							
CO1	S	S	S S	S	S		
CO2	S	S	S	S	S		
CO3	S	S	M	S	S		
CO4	S	S RATHI	AR UNIVS	Š M	М		
CO5	S	Sugar Dire	Maladore Mala Gold	М	М		

Course code				L	Т	P	С
Elective 3 B		Insurance Legislative Frame	work	4			4
Pre-requisite		Basic knowledge in insurar	Basic knowledge in insurance		Syllabus version		2- 3
Course Object	tives:						
The main object	ctives of thi	s course are to:					
1. To provide	e knowledg	e about the basics of Insurance act					
2. To provide	e awarenes	about the provisions of LIC act					
3. To offer k	nowledge a	bout insurance regulatory and developm	ent authority	act			
4. To offer in	sights abo	it consumer protection act					
5. To familia	irize about	he concept and working of ombudsman					
Expected Cou	rse Outcor						
On the succes	stul comple	etion of the course, student will be able t	0:				
1 Illustrate	e the variou	s aspects of insurance act				K	.2
2 Outline	the various	provisions of LIC act				K	2
3 Explain authority	the various y act	provisions relating to insurance regulate	ory and develo	opmen	t	K	4
4 Analyze the various provisions of consumer protection act						K	4
5 Explain	the role of	ombudsman scheme				K	4
K1 - Rememb	er: K2 - U	derstand; K3 - Apply; K4 - Analyze; K	5 - Evaluate;	K6 - (Create	e	
	,		í.				
Unit:1		The second second second second second			12]	hour	s
Insurance Act	1938	BI Constant S					
		THIAD LINNE S	/				
Unit:2		By Combalore Geo			12	hour	s
LIC Act 1956		^{க்கு} குதப்பாரை உயால்றி					5
		concase to ereavie					
Unit:3					10	hour	S
Insurance Regu	ilatory & D	evelopment Authority Act 1999					
Unit:4					12]	hour	S
Consumer prot	ection $\overline{\operatorname{Act}}$	1985 applicable to Insurance Companies					
Unit:5					12	hour	S
Ombudsman sc	cheme						
Unit:6		Contemporary Issues			2	2 hou	rs
Expert lecture	es, online se	minars - webinars					
		Total Lectu	ire hours		60	hour	S
Text Book(s)			I				
1 Mishra M.	N: Insuran	ce principles and practice; S Chand & c	o. New				

Reference Books					
1 Delhi Insurance Regulatory Development Acts 1999					
2 Life Insurance Corporation Acts 1956					
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]					
1					
2					
4					
Course Designed By:					

Mapping Course objectives and course outcomes								
	PO1	PO2	PO3	PO4	PO5			
CO1	S	S	S	S	М			
CO2	S	S	S	М	S			
CO3	S	S	М	S	S			
CO4	S	M	நகழக _(j)	М	М			
CO5	S	M	M	М	L			



ELECTIVE PAPER

Course code	-	PROJECT AND VIVA VOCE	L	Т	Р	С
Elective – 3 C		Major Project	-	4	-	4
Pre-requisite		Knowledge in Core, Research Methods and Analytical Tools	Syllabus Version		2022-20	023

Course Objectives:

The main objectives of this course are to:

- 1. The students will get on-the-job training and experience.
- 2. The students will gain knowledge on problem identification and solutions.
- 3. The students will gain a complete knowledge on the program and the course outcome.

Exp	Expected Course Outcomes:								
On t	On the successful completion of the course, student will be able to:								
1	Explain about how to collect literature.	K2							
2	Implement problem identification and will frame tool for collecting data	K3							
3	Evaluate and get practical exposure on the framed objective.	K5							
4	Execute and generate the procedure of compiling the collected data by using analysis	K3,K6							
5	Summarize and execute report writing, and will get complete knowledge of the course.	K2,K3							
K1 -	- Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6– Cre	eate							

Textbook(s)

1 C.R. Delh	C.R. Kothari, "Research Methodology Methods and Techniques", Second Edition, New
I	Delhi: New Age International publisher, 2004
	EDUCATE TO ELEVATE

Reference Books

- 1Ranjit Kumar, Research Methodology: A Step-by-Step Guide for Beginners, SAGE
Publications, 2014
- 2 Robert B Burns, Introduction to Research Methods, SAGE Publications

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

B.Com. IB – 2022-23 colleges

BHARATHIAR UNIVERSITY: COIMBATORE-641 046 B.Com (INTERNATONAL BUSINESS) (For the students admitted during the academic year 2022-23 and onwards) SCHEME OF EXAMINATION - CBCS PATTERN

			urs / sk		Exan			
Part	Study Components	Course Title	Ins. hr weel	Dur.Hr	CIA	Marks	Total	Credits
	· ·	SEMESTER -I						
l	Language-I		6	3	50	50	100	4
	English-l		6	3	50	50	100	4
	Core I - Principl	es of Accounting	5	3	50	50	100	4
	Core II- Business	Organisation and Office Management	5	3	50	50	100	4
	Allied Paper I –	World Economic Resources	6	3	50	50	100	4
1V	Environmental S	Total	2	3	-	50	50	2
		I OLAI SEMESTED II	30		250	300	550	22
T	I anguage-II	SEIVIES I ER-II	6	3	50	50	100	4
I	English-II		0 	3	25	25	50	2
11	Languaga profi	cionay for amployability Nean	-	5	23	23	50	2
	Language prom	home						
	http://kb.naanm	udhalvan in/Bharathiar University						
	(BU)		2	3	25	25	50	2
III	Core III - Finance	cial Accounting	5	3	50	50	100	4
III	Core IV - Princ	iples of Marketing	5	3	50	50	100	4
III	Allied Paper II -	International Trade Procedures and	6	3	50	50	100	4
	Documentation							
IV	Value Education	a - Human Rights #	2	3	-	50	50	2
		Total	30		250	300	550	22
		SEMESTER-III						
Ι	Language-III		6	3	50	50	100	4
III	Core V - Higher	Financial Accounting	6	3	50	50	100	4
III	Core VI - Comn	nercial Law	5	3	30	45	75	3
III	Core VII - Bank	ing and Foreign Exchange	5	3	30	45	75	3
III	Allied : III - Ma	thematics for Business	4	3	30	45	75	3
IV	Skill based Subj	ect -1 : Business Application Software-I	2	3	30	45	75	3
IV	Tamil @ / Adva Yoga for Human Constitution of I	nced Tamil # (or)Non-Major Elective-I n Excellence #/Women's Rights # India #	2	3	-	50	50	2
		Total	30		220	330	550	22
		SEMESTER-IV						
Ι	Language-IV		6	3	50	50	100	4
III	Core VIII - Corp	porate Accounting-I	6	3	50	50	100	4
III	Core IX - Busin	ess Taxation	4	3	50	50	100	4
III	Core X - Execut	ive Business Communication	3	3	30	45	75	3
III	Core XI - Intern	ational Marketing Management	3	3	30	45	75	3
III	Allied : IV : Stat	tistics for Business	4	3	30	45	75	3
IV	SkillbasedSu	bject-2 -Nan	2	3	25	25	50	2
	Mudhalvan	- officeFundamentals						
	http://kb.naanm	udhalvan.in/Bharathiar University_(BU)						
IV	Iamil @ / Adva II: General Awa	nced Tamil # (or) Non-major elective - reness #	2	3	-	50	50	2
		Total	30		265	360	625	25

B.Com. IB – 2022-23 colleges

	SEMESTER –V						
III	Core XII - Logistics Management	4	3	30	45	75	3
III	Core XIII - Corporate Accounting- II	6	3	50	50	100	4
III	Core XIV – Brand Management	4	3	30	45	75	3
III	Core XV - Cost Accounting	4	3	50	50	100	4
III	Core XVI - Income Tax Law and Practice	5	3	50	50	100	4
III	Elective-I :	4	3	50	50	100	4
IV	Skill based Subject-3 : Business Application Software-II	3	3	30	45	75	3
	Total	30		290	335	625	25
	SEMESTER –VI						
III	Core XVII - Management Accounting	6	3	50	50	100	4
III	Core XVIII - Principles of Auditing	6	3	50	50	100	4
III	Core XIX - International Business Strategy	5	3	30	45	75	3
III	Core XX- Computer application : MS power point ,MS access and tally 9.2 -practical II	3	3	30	45	75	3
III	Elective -II:	4	3	30	45	75	3
III	Elective-III:	4	3	30	45	75	3
IV	Skill Based Subject-4– Naan Mudhalvan – Fin Tech Course – 2(Capital						
	Markets/Digital Marketing/Operational Logistics) http://kb.naanmudhalvan.in/Bharathi ar_University_(BU)	2	3	25	25	50	2
V	Extension Activities @	-		50	-	50	2
	Total	30		295	305	600	24
	GRAND TOTAL	180		1570	1930	3500	140

\$ Includes 25% / 40% continuous internal assessment marks for theory and practical papers respectively.
@ No University Examinations. Only Continuous Internal Assessment (CIA) # No Continuous Internal Assessment (CIA). Only University Examinations.

List of Elective Papers (Colleges can choose any one of the paper as electives)						
	А	Garment Merchandising				
Elective — I	В	Garment Costing				
	С	Quality Assurance in Garment Industry				
	А	Supply Chain Management-I				
Elective - II	В	Supply Chain Management-II				
Liccure II	С	Cargo Management				
	А	Agricultural Export – import management				
Elective - III	В	Agricultural Logistics and Supply Chain Management				
	С	Agricultural and Food Retailing				

Note: The syllabi of B.Com. degree programme from the academic year 2022-23 and subsequent changes be followed in respect the remaining papers which are not furnished below.

Course code			L	Т	P	С	
Core- 5		Higher Financial Accounting	4			4	
Pre-requisite Basic knowledge in Accounting Syllabus 2 Course Objectives: 2							
Course Object	ives:						
The main object	tives of this	course are to:					
1. To provid	e insight abo	ut maintaining partnership accounts					
2. To promo	te understand	ling about maintaining books of accounts at the time of ret	ireme	nt			
3. To other u	nderstanding	about dissolution and insolvency of partnership					
5. To promo	te knowledg	e about human resource and inflation accounting					
Expected Cour	rse Outcome	28:					
On the succes	sful complet	ion of the course, student will be able to:			-		
1 Underst	anding the b	asic concepts of partner and procedures related to calculati	onof		K	2	
ratios.							
2 Acquiri	ng the princi	ple at the time of retirement in the books of partner			K	.1	
3 Analyzi	ng dissolutio	on and insolvency of firms and individuals.			K	.4	
4 Evaluat	e the insolve	ncy or loss of individuals or firms.			K	.5	
5 Examin	e the concep	ts based on voyage, Human resource and inflation accounti	ng.		K	.4	
K1 - Rememb	er; K2 - Unc	lerstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - C	Create				
T T •4 4			1	15 1			
Unit:1				15r	our	3	
Introduction- Liabilities - Ca	Admission o alculation of	f a Partner - Treatment of Goodwill - Revaluation of Asset Ratios for Distribution of Profits - Capital Adjustments.	ts and				
Unit:2				15h	our	5	
Retirement of	Partner - Ca	alculation of Gaining Ratio- Revaluation of Assets and Li	abilitie	es Tre	atme	nt	
of Goodwill - Partner's Loar	- Adjustmen n Account w	t of Goodwill through Capital A/c only - Settlement of A ith equal Installments only.	ccour	its - R	etiri	ng	
Unit:3				15h	our	5	
Dissolution -]	Insolvency o	f Partners- Garner Vs Murray- Insolvency of all Partners -	Defici	encyA	Vc -		
.Piecemeal Di	stribution - H	Proportionate Capital Method only.		-			
	1						
Unit:4	T 11 · · · ·			15h	our	5	
Insolvency of	Individuals a	and Firms – Fire Claims : Normal Loss – Abnormal Loss					
Unit:5				13h	0111	5	
Voyage Accou	unts - Humar	Resources Accounting and Inflation Accounting (Theory	only).	<u></u> 1		-	
Unit:6		Contemporary Issues		2	hou	rs	
Expert lecture	s, online sen	ninars – webinars					
		Total Lacture hours	,	75bo	iire		
		Total Lecture nours		3110	urs		

Course code			L	Т	Р	С
Core- 6		Commercial Law	4			3
Pre-requisite		Basic knowledge in Commercial Law	Syllat Versie	22- 23		
Course Objecti	ives:					
The main object	tives of this	course are to:				
1. To provide	e knowledge	e about basics of business contract				
2. To create l	knowledge a	about the regulations of agency system				
3. To underst	tand the rule	es of indemnity and guarantee				
4. To offer k	nowledge at	bout the sale and transfer of goods and the applicable la	ws and			
regulation	S					
Expected Cour	se Outcom	es:				
1 Assessin	ig the variou	is elements related business law and contract			K	5
2 Interpret	ting differen	t type of contract and its features			K	2
3 Explain	about the ag	gency system related to creation and termination of agen	icy		K	5
4 Compare	e between ri	ghts and duties of indemnity, guarantee			K	5
5 Examine	e the distinc	t between sale and agreement to sell and its features			K	4
K1 - Remembe	er; K2 - Uno	derstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	- Creat	e		
Unit:1				15h	ours	
Law – Meaning	and objects	s – Mercantile law, meaning – Sources of contracts – Cl	lassifica	tion o	of	
contracts – Esse	entials of a v	valid contract – Offer, acceptance, legality of object and	l consid	eratio	n –	
Void agreement	t.					
Unit:2				15h	ours	
Capacity to cont	tract – Free	consent - Quasi contracts - Contingent contracts - Perf	ormanc	e of		
contract – Disch	narge of con	tract – Remedies for breach of contract.				
				1	1	
Unit:3	0		1	15	iour	S
contract of Age	ency – Creat	tion of Agency – Personal liability of an Agent – Agency	cy by			
	inditions une					
Unit:4				151	nour	s
Contract of inde	emnity and g	guarantee – Rights and Liabilities of surety – Discharge	of sure	ty –		
Bailment – Righ	hts and Duti	es of bailor and bailee.				
				10	1	
Unit:5				13	nour	S
Law of sale of g	goods – Dist	inction between sale and agreement to sell – Conditions	and wa	rranti Dorf	esto	sell
- Conditions an	u warranue ale – Rights	and Duties of huver	owners -	-Perio	orma	nce
	ne – Rigiils					
Unit:6		Contemporary Issues		2	2 hou	irs
Expert lectures	s, online ser	ninars – webinars				
		Total Lecture hours		75-	-hou	irs

		5				
Course code		TITLE OF THE COURSE	L	Т	Р	С
Core – 7		Banking and Foreign Exchange	4			3
Pre-requisite	Syll Ver	labus sion	202 202	22- 23		
Course Objecti	ves:					
The main object	ives of this c	course are to:				
1. To underst	and the recei	nt trends and innovations in banking sector				
2. To elabora	te the function	oning systems of banks in India				
3. To underst	and foreign excl	exchange market				
4. TO analyze	e totetgit exc	nange fisk and exposure				
Expected Cour	se Outcome	s:				
On the success	ful completion	on of the course, student will be able to:			T	- 1
1 Illustrate	e the classific	cations of commercial banks, functions and credit creation			K	.1
2 Outline	the general p	recautions, types of accounts			K	2
3 Examine	e the concept	s of negotiable instruments, promissory note			K	.2
4 Identify	the knowled	ge and administration of foreign exchange			K	.3
5 Demons	trate the deal	ling position and foreign exchange risk			K	4
K1 - Remembe	er; K2 - Und	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cre	ate			
Ilmit.1			<u> </u>	15 h		
Definition of t banks – functi banking – cust	banker and c ons of mode omer service	ustomer- general relationship- Special relationship- Evoluti ern commercial banks – branch banking – CRM in bankin e	on of g – N	comn /Iultina	erci tion	al al
Unit:2				15h	ours	5
Opening of an	new accourt	nt- General precautions- Types of accounts- Fixed depos	its- s	avings		
account- Curren	nt account- R	ecurring deposits- special type of customers- Minor- Lunatic	- drun	kards-		
joint account- p	partnership a	ccount- Public limited company.				
Unit:3				15h	ours	;
note- essentials	ruments- mea - Cheques- E	aning- characteristics- types- Bills of exchange- Essentials- Essentials- Endorsement- Crossing of Cheques- Marking of Cheques-	Prom: Chequ	issory ies.		
Unit•4				15h	nure	
Foreign exchan	ge markets-]	Features- participants- Interbank transactions- Interbank que	otation	1311	Jul	,
Interbank rates	and arbitrag	ring- Interbank dealings- cover deals- trading- funding of v	ostro	15		
account.	C					
Unit:5			•	<u>13h</u>	ours	\$
and reporting- I	Foreign exch	ange risk management- Measuring of Value At Risk (VAR).	Accot	inting		
Unit:6		Contemporary Issues		2	how	rs
Expert lectures	s, online sem	inars – webinars		4	nou	
	, 50111					
		Total Lecture hours		75	hou	rs
						-

Course code			L	Т	Р	С
		Business Application Software I	4			2
Pre-requisite		Basic knowledge in MS Word and MS Excel	Sylla Vers	abus 2 Sion 2	2022- 2023	
Course Objecti	ves:	·				
The main object	ives of this of	course are to:				
Understand	d the basic f	ramework and how to work in Ms-Word and Ms-Excel.				
Expected Cour	se Outcome	s:				
On the success	ful completi	on of the course, student will be able to:				
1 To know	the basics of	on MS Word			K	2
2 To study	v formatting	features in MS Word			K	2
3 To under	rstand the co	oncept of mail merge			K	2
4 To gain	knowledge o	on excel operations			K	2
5 To acqui	ire knowledg	e on Managing and Analyzing Complex Worksheet			K	2
K1 - Remember	er; K2 - Und	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cr	eate			
Unit:1				5ho	ours	
Unit:2				5ho	ours	
Creating T box, Form	emplates, C atting, Inser	creating Tables, Changing Font and Text Size, Borders and tpicture.	d Shac	lings,	Text	
Unit:3				6h	ours	
Mail Merg Merging D	ge - Creatin locuments	g the Main Document–Creating data source, Adding field	s, remo	ovingf	ïelds	,—
Unit:4				6ho	ours	
Microsoft Entering N	Excel : Intro Jumbers and	duction – Navigation, Selecting Cells, Entering and Editin Formulas – Alignments – Menus, Commands.	g Text,			
Unit:5				<u>6</u> h	ours	
Spreadsho Charts–Cr	eet Overviev eating Form	w– Creating Worksheet- Managing and Analyzing Comple Templates.	x Work	sheet	-Cre	atin
	C	•				

Course ande			т	т	р	C
Course code				1	r	
Core- 8		Corporate Accounting I	4	1	201	4
Pre-requisite	e	Basic knowledge in company accounts	Sylla Versi	ion	202	22- 23
Course Objec	tives:			-		
The main obje	ctives of this c	course are to:				
1. To provid	le basic under	standing about the accounts relating to shares and debenture	s			
2. To analyz	ze the final acc	counts of companies				
3. To explor	re various met	hods for the valuation of goodwill				
4. To assist	preparation of	f books of accounts during liquidation of companies				
Expected Cou	irse Outcome	s:				
On the succes	ssful completion	on of the course, student will be able to:				
1 Explain	ning about the	basic provisions towards issue of shares in market			K	.2
2 Unders	standing the co	oncepts of debenture and its accounting			K	2
3 Analyz	the compani	ies final accounts and Managerial Remuneration			K	4
4 Estima	ting methods	of goodwill and shares			K	5
5 Exami	ne various pro	cedures related to liquidation of companies			K	4
K1 - Remem	ber; K2 - Und	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cre	eate			
Unit:1				12ł	nours	5
Issue of shares	: Par , Premiu	um and Discount - Forfeiture - Reissue – Surrender of Shares	s Ui	nderw	ritinį	7
Unit:2				12ł	nours	5
Redemption	of Preference S	Shares. Debentures – Issue – Redemption: Sinking Fund Me	thod.			
Unit:3				12ł	ours	3
Final Accoun	ts of Compan	ies - Calculation of Managerial Remuneration.				
TT T C C				10.1		
Unit:4	Coodmill and	Change Need Methods of volvetion of Coodwill and Cha		12ľ	ours	\$
valuation of	Goodwill and	shares – Need – Methods of Valuation of Goodwill and Sha	res.			
Unit:5				10ł	nours	
Liquidation o	f Companies -	- Statement of Affairs -Deficiency a/c.			1	
^		·				
Unit:6		Contemporary Issues		2	hou	rs
Expert lecture	es, online sem	inars – webinars				
		I				
		Total Lecture hours		60ł	ours	3

Course code		TITLE OF THE COURSE	L	Т	Р	С		
Core - 10		Business Taxation	3		3			
Pre-requisite	Pre-requisite Basic knowledge in tax Syllabus Question Question Version							
Course Objecti	ves:							
The main object	ives of this c	course are to:						
1. To underst	and and appl	licability of business taxes in India						
2. To underst	and the work	king of custom law in India						
3. To impart t	the necessity	of GST in India						
4. To inculcat	te knowledge	e about the input tax credit, returns and retunds						
J. 10 gain kin	owledge abo							
On the success	ful completi	on of the course student will be able to:						
		noonte releting to indirect tox regime in India			V	1		
1 Recall th	le various co	incepts relating to indirect tax regime in india			Л	.1		
2 Operate	in GST platf	orm			K	.4		
3 Identify	exempted su	pply and calculate the value of supply			K	.2		
4 Prepare	Input tax cre	dit returns			K	.2		
5 Examine	the custom	law import and export procedure and related duties and tax	les		K	.4		
K1 - Remembe	er; K2 - Unde	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - C	reate					
				0.1				
Unit:1				8ho	urs			
Goods and Ser Advantage of C	rvices Tax in GST – Featur	n India – Introduction – Conceptual framework of GST res of GST – Subsuming of Taxes – GST Council : Structu	– Nee	d for (Function	GST ons	_		
Unit:3				8ho	urs			
Supply - Mean supply – Time Transactions va	ning – Taxat of supply of alue – Valua	ble Supply – Types of Supply – Composite and mixed so f Goods and Services Place of Supply – Determinants of tion of services.	ipply – value o	- Exem	ptec ply -	-		
Unit:4				7ho	urs			
Input for tax cr ITC reversal – Returns.	edit – Eligib Input service	ility and condition – Apportionment of Credit and Blocked e distribution credit –Exempted products – Returns – Intro	l credit ductior	– n - Typ	es o	f		
Unit.5			1	1hor	re			
Introduction to	oustoms lov	win India: The Customs Act 1962 The Customs Tariff A		5 Ro	nio			
concepts – Tax and export prod	able event – cedure.	Levy and Exemption from Customs duty - Methods of Va	luation	– Imp	ort			
Unit.6		Contamparany Issues		2	how	rc		
Expert lectures	online sem	inars – webinars		2	nou	1.5		
	, onnie sem							
<u></u>		Total Lecture hours		45	hou	rs		

Course code		L	Т	Р	С				
Core- 11 Executive Business Commu	nication	3			3				
Pre-requisite Basic knowledge in Business Comn	nunication S	yllabu /ersioi	s 1	202 202	22- 23				
Course Objectives:									
The main objectives of this course are to:									
 To provide information on effective business communication and techniques to respond to business queries. To provide knowledge about banking correspondence and company secretarial correspondence 									
Exposted Course Outcomes:									
On the successful completion of the course, student will be able to	•								
1 Outline the importance of effective business communication				K	2				
2 Understand the intricacies of responding to business related	aueries			K	$\frac{2}{2}$				
3 Categorizing effective correspondence with banks insurance	e and agencies			K	2				
A Examine effective response to company secretarial correspond	dence			K	<u>ј</u>				
 4 Examine effective response to company secretarial correspond 5 Analyze new innovative and effective ideas for business company 	munication			K	4				
K1 Remember: K2 Understand: K3 Apply: K4 Applyze: K5	Evoluoto: K6 Cro	nto		K	4				
K1 - Kemember, K2 - Onderstand, K5 - Appry, K4 - Anaryze, K5	- Evaluate, NO - CIE	cale							
Unit:1		8-	hour	S					
Business Communication : Meaning – Importance of Effective Bus	iness Communication	n- Mo	lern						
Business Letters - Layout.			-						
Unit:2		9-	hour	s					
Trade Enquiries - Orders and their Execution - Credit and Status En Adjustments - Collection Letters – Sales Letters – Circular Letters.	quiries – Complaints	s and							
Unit:3		8	hour	s					
Banking Correspondence - Insurance Correspondence - Agency Co	orrespondence.	-		-					
	1								
Unit:4		7]	hours						
Company Secretarial Correspondence (Includes Agenda, Minutes a	and Report Writing)								
Unit:5		11	nours						
	Application Letters – Preparation of Resume - Interview: Meaning – Objectives and Techniques of								
Application Letters - Preparation of Resume - Interview: Meaning -		innque							
Application Letters – Preparation of Resume - Interview: Meaning - various types of Interviews – Public Speech – Characteristics of a ge Presentations	ood speech – Busines	ss Repo	ort						
Application Letters – Preparation of Resume - Interview: Meaning - various types of Interviews – Public Speech – Characteristics of a go Presentations	ood speech – Busines	ss Repo	ours						
Application Letters – Preparation of Resume - Interview: Meaning - various types of Interviews – Public Speech – Characteristics of a ge Presentations Unit:6 Contemporary Issues Expert lectures, online seminars – webinars	ood speech – Busines	ss Repo	ort ours						
Application Letters – Preparation of Resume - Interview: Meaning - various types of Interviews – Public Speech – Characteristics of a ge Presentations Unit:6 Contemporary Issues Expert lectures, online seminars – webinars	ood speech – Busines	2 h	ort ours						
Application Letters – Preparation of Resume - Interview: Meaning - various types of Interviews – Public Speech – Characteristics of a gepresentations Unit:6 Contemporary Issues Expert lectures, online seminars – webinars Total L	ood speech – Busines	2 h	ort ours 45h	ours					
Application Letters – Preparation of Resume - Interview: Meaning - various types of Interviews – Public Speech – Characteristics of a go Presentations Unit:6 Contemporary Issues Expert lectures, online seminars – webinars Text Book(s)	ecture hours	2 h	ort ours 45h	ours					
Application Letters – Preparation of Resume - Interview: Meaning - various types of Interviews – Public Speech – Characteristics of a ge Presentations Unit:6 Contemporary Issues Expert lectures, online seminars – webinars Text Book(s) 1 Rajendra Pal Korahill, "Essentials of Business Communicati Delhi, 2006.	ood speech – Busines	2 h	ort ours 45h New	ours					

Cour	secode		TITLE OF THE COURSE	L	Т	Р	С
Allie	ed Paper- I		WORLD ECONOMIC RESOURCES	6		4	
				C-J	la h wa	201	10
Pro	e-requisite		Basic knowledge in economic resources	Vei	sion	202	22- 23
Cou	rse Objecti	ves:					
The	main object	ives of this c	course are to:				
5.	Understand	the basic co	oncepts and importance of world resources.				
6.	Impart kno	wledge on th	ne geographical environment.				
7.	Familiarize	e with agricu	lture and allied resources				
8.	Apply the o	concepts of e	energy resources for economic development				
9.	Identify the	e factors for	location of industries.				
Exp	ected Cours	se Outcome	5:				
On	the success	ful completion	on of the course, student will be able to:				
1	Identify	the importan	ce of linkage between trade and resources.			K	.1
2 Exhibit the skills of the geographical environment. K2							
3	Evaluate	the importation	nce of natural regions and agricultural resources facilitati	ng trade.		K	.2
4	Monitor	the energy a	nd mineral resources contribution towards global trade.	-		K	3
5	Examine	the setting u	in of manufacturing industries.			K	[4
	-Remember	• K2- Underst	and K3 -Apply K4 -Apply ze K5 -Evaluate K6 -Create				
	Remember	,112 0114015					
Un	it:1				17h	ours	2
Pasoi	irces: Conce	ent and impo	ortance in development Dynamic character of world re-	COUTCAS	Natur	1	,
resou	rces and Hu	man resource	es - Interlink between resources and trade.	, our cos			
Un	it:2				18h	ours	5
Geog	raphical En	vironment- 1	Physical environment: landforms, coastline, rivers, clir	nate, soi	ls, and	l na	tural
veget	ation. Huma	n environme	ent- Growth and distribution of population- races.	,	,		
Un	it:3				17h	ours	5
Natur	al regions: V	Wet equatori	al regions- Monsoon regions – Mediterranean regions c	ool temp	eratur	e reg	gion-
Greer	n lands- Pola	r regions.		1		C	
Agric	ulture and a	llied resourc	es: Factors affecting agriculture- types of farming- food	crops, ir	dustria	al cr	ops-
cash o	crops- anima	al resources-	fishery resources- forest resources - direct and indirect b	enefits o	f fores	ts- t	ypes
and d	istribution o	f world fores	sts.				-
Un	it:4				18h	ours	5
Energ	gy Resources	s: Types of e	nergy- energy and economic development- coal, petrole	ım, natu	ral gas	, ele	ctric
powe	r and atomic	energy- nee	ed for conventional energy.		-		
Mine	ral Resource	es: Importanc	ce of minerals- classification- world distribution and trad	e in impo	ortant i	nine	rals-
Iron c	ore, Mangan	ese, Copper,	Aluminum, Mica.				
Un	it:5				18h	ours	5
Manu	facturing In	dustries: Fa	ctors of location- Theories of industrial location distrib	oution of	cotto	ı tex	tile,
iron a	nd steel, aut	omobile, shi	p building, aircraft, and electronics industries, software i	ndustry.			
I]	6	Contonna	owy Ioguog		<u> </u>		
	U (1) (4 N0	urs	
Exper	rt lectures, o	nime semina	irs – webinars		0.0 -		
" L'afal	I octuro ho	urs			- 90 h	ours	s

B.Com. IB – 2022-23 colleges

	TextBook(s)							
1	Economic Geography- A Resource Approach: Gune and Chattergi.							
2	2 Economic and Commercial geography : Das Guptha							
D	former a Dis alla							
K	elerenceBooks							
1	World Resources and Trade : Kanna and Gupta							
2	World Pasources · Zimmermen							
2	Wohd Resources . Zimmermen							
3	World Resources and Trade : Agarwal and Monga							
5	· · · · · · · · · · · · · · · · · · ·							
Re	elatedOnlineContents[MOOC,SWAYAM, NPTEL,Websitesetc.]							
1								
2								
4								
Co	ourseDesigned By:							

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

Coursecode		TITLE OF THE COURSE	L	Т	Р	С
Allied Paper II		INTERNATIONAL TRADE PROCEDURES AND DOCUMENTATION	6			4
Pre-requisite	-	Basic knowledge in Exports /Imports	Syll Vei	labus sion	20 20	22- 23
Course Object	ives:					
Themain object	ives of this c	ourseareto:				
6. Understan	id the concept	ts of export trade control				
/. Familiariz	the Inco ter	ims				
8. Impart kno	owledge on e	xport promotion in India				
9. Expose in	e exchange co	t documents				
Fynosted Cou	sa Outcom a	s:				
On the success	ful completi	s.				
		on of the course, student will be able to.			12	1
I Recall the various concepts relating to export trade control						
2 Analyze	e the Inco terr	ns			K	4
3 Apply th	he acquired k	nowledge to promote exports of India			K	2
4 Assess t	the problems	of India's EXIM trade.			K	2
5 Prepare	the export do	ocuments			K	4
K1-Remembe	r; K2 -Unders	tand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create				
Unit:1				17h	ours	\$
Unit:2				18h	ours	3
International cor and Dispute settl	nmercial (IN ement mecha	CO) terms - FOB, C & F, CIF etc- methods of payments, anism - Deemed exports and its benefits.	Custon	her con	npla	ints
Unit:3				17-ho	urs	
Export promotio - Commodity Bo Categories of Im of Import cargo.	n in India - N ards (CBs) - I porters, Diffe	Ainistry of Commerce - Ministry of FinanceExport prom Development Authorities (DAs) - RCMC, other related pro- prent Custom Duties (Import), Customs administration and p	otion c cedures rocedu	ouncil s of reg res – C	s (El distra Clear	PCs) tion ance
Unit:4				18h	ours	;
Exchange Contro Money Changers trade.	ol Regulation s - FERA /FE	s: RBI Guide Lines for making payments, Authorized Dea MA - Trends in India's Export & Import - Problems of Ind	lers - A ia's exp	uthori port an	zed d im	iport
Unit:5				18h	ours	5
Export Documer Shipping Bill, C Certificate of Ex	nts: Export C ertificate of 0 port & Realiz	Order, Letter of Credit, Export Declaration Forms, Bill of Origin, Invoice, Packing list, GSP Certificate, Legalization zation.	f Ladi n of de	ng/Air ocume	way nts,	Bill Banl
Unit:6	Contempor	ary Issues		2 ho	urs	
Expert lectures	, online semi	nars – webinars				
Total Lecture h	ours			90 h	our	s

B.Com. IB – 2022-23 colleges

$\mathbf{B} = 2022 - 23 \text{ coneges}$
TextBook(s)
1 Customs Law Manual, Centax Publications Pvt. Ltd., 2022 - Jain, R.K.
2 International Trade and Export Management- Cherunilam. F, 21 st Edition, Himalaya Publishing House, New Delhi, 2022
ReferenceBooks
1 Ministry of Commerce and Industry, Hand Book of Procedures, Volume I and II GOI, New Delhi.
2 Guide to Export Policy, Procedures and Documentation – Mahajan
3 Business Logistics Management, PHI, 5 th Edition - Ballou. R. H.
4 International Trade, Pawan Kumar Oberroi, 2 nd Edition, Global Academic Publishers, New Delhi.
RelatedOnlineContents[MOOC,SWAYAM, NPTEL,Websitesetc.]
1
2
4
CourseDesigned By:

MappingCourseobjectivesand courseoutcomes								
	PO1	PO2	PO3	PO4	PO5			
C01	S	S	М	М	М			
CO2	S	М	М	S	М			
CO3	S	М	S	М	М			
CO4	S	S	S	М	М			
CO5	s 🚺	S	М	М	М			

;

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

ELECTIVES III A: AGRICULTURAL EXPORT-IMPORT MANAGEMENT

Unit-I:

Introduction to agriculture forms of agriculture production need for import and Export analysis of marketable surplus and marketed surplus analysis of import and export statistics of agricultural products in India.

Unit-II:

Overview of world agricultural trade issues impacting International agricultural trade agricultural policy technology advancement on agricultural products

Unit-III:

Identifying agri products for import import requirements- causes substitution regulation of imports quality standards - scanning the countries for importing the required agri products - import planning - documents required,

Unit-IV:

Identifying foreign markets for agri export Marketing plan for exports - export documents and procedure - terms of payment and export finance- legal dimensions.

Unit-V:

Institutional infrastructure for export promotion in India export assistance State trading in imports and exports -working of the State trading organizations in India.

Reference Books

1.Business Environment - Shaikh Salcem

2.Export Import Documentation- Thomas E Johnson

Global Agricultural Trade and Developing Countries - M.Atman Aksoy, John.C

ELECTIVE III B: AGRICULTURAL LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Unit-I

Overview of logistics: introduction nature concepts evolution - importance - components and functions of logistics management; Introduction to supply chain management Value chain -Supply chain effectiveness and Indian infrastructure outsourcing and 3PLs and fourth party logistics(4PLs).

Unit-II:

Elements of logistics and supply chain management: demand forecasting functionsofinventory warehousing and distribution centres - transportation protective packaging - order processing material handling with special reference to agri products.

Unit-III

Performance measurement of logistics and supply chain management -dimensionsbasic tools impediments to improved performance; Logistic and supply chain management in Indian agri industry like edible oil industry sugar industry -bakery and confectionary industry cereal and pulses industry

Unit-IV:

Issues in marketing and customer service with special reference to agri business: changing environment and the importance of CRM - Gap analysis for customer service management efficient customer response planning for uncertainty - product costing for uncertainty.

Unit-V:

Logistics & Supply chain management and Information technology in agri business from vertical integration to virtual integration, transiting from made -to -stock to build-to-order integrated IT solutions for L&SCM - emerging technologies in L & SCM.

Reference Books

1.Agri business Supply Chain Management-N.Chandrasekaran, G.Raghuram2. Food Supply Chain Management and logistics -

Samir Dani

ELECTIVES III C: AGRICULTURAL AND FOOD RETAILING

Unit-I:

Fundamentals of retailing-unorganised vs. organised retail elements of retail marketing mix - SWOT analysis of retail industry in India Retail formats and classification of retailer's relationship between agriculture and food retailing.

Unit-II:

Retail marketing in the modern age; Importance of e-commerce business environment for c-retailing - the digital age and the new global culture for retailing with special reference to food retailing in local - national and global context

Unit-Il:

Retail strategic planning and operations management - evaluating the competition in retailing market selection and location analysis - customer services and retail selling with special reference to agri business.

Unit-IV:

Retail merchandising., merchandise selection and planning - range planning – category management; retail pricing: strategies and techniques with special reference to food retailing.

Unit-V

Retail brand positioning, differentiation gaining strategic competitive advantage promotion of retail brand - retailing and creating right atmosphere -ambience and interior& exterior environment with special reference to food retailing.

Reference Books

- 1. Economics of Food Retailing-Daniel. I Padberg
- 2. Fresh food retail chains in India Sukhpal singh
- 3. Transformation of Agri food systems Ellen.B. MC.Cullough.



Coimbatore - 641 046, Tamil Nadu, India

B.Com. Business Administration - Syllabus w.e.f. 2023-24 onwards - Affiliated Colleges - Annexure No.42C SCAA DATED: 18.05.2023

BHARATHIAR UNIVERSITY: COIMBATORE 641 046

B. Com (Business Administration)

(For the students admitted during the academic year 2023–24 onwards)

			Hours		Ma	:ks	
Part	Title of the Course	Credits	Theory	Practical	CIA	ESE	Total
	F	IRST SEM	IESTER	k			
Ι	Language-I	4	6		25	75	100
II	English-I	4	6		25	75	100
III	Core I – Principles of	4	6		25	75	100
	Accountancy						
III	Core II–Business	4	5		25	75	100
	Organization & Office						
III	Management	2	5		20	15	75
111	Alled Paper 1 – Managerialeconomics	3	2		30	45	75
IV	Environmental Studies #	2	2			50	50
1,		2	20		120	305	525
		21 FCOND S	JU FMFS1	FD	130	393	525
I			6		25	75	100
I	English II	4	0		25	75	50*
11		2	4		23	23	30*
	Language proficiency for						
	employability Naan						
	Mudhalvan Scheme	·	istono		25	25	50**
	arathiar University (BU)	97 - Maria	2.3		23	23	50
III	Core III – Financial Accounting	4	6	2	25	75	100
	Sole III - I III III - I III - IIII - IIIII - IIII - IIIII - IIIII - IIII - IIII - IIIII - IIIIII	1 am		ā.	20	10	100
III	Core IV – Marketing Managem <mark>ent</mark>	4	5		25	75	100
III	Allied Paper II – Business	4	5 2		30	45	75
	tools fordecision making	7. T	-RS	3			
IV	Value Education –	2/AR U	2	Chieffer C	-	50	50
	HumanRights #	1 2 Q. 01	2059	9*	155	270	525
	THIR	D SEMES	TER		155	370	323
I	Language-III				25	75	100
-	English III	4	4		25	75	100
 	English-III Com V. History Financial	4	4		25	/5	100
111	Accounting	2	5		25	75	100
III	Core VI- Business Law	2	4		25	75	100
III	Core-VII- Principles of	2			25	75	100
	Management	2	5		25	15	100
III	Allied Paper III Advertising and	3	3		30	45	75
	Sales Promotion		5			С т	15
IV	Skill based subject I	3	3		30	45	75
	software I						
IV	Tamil/Advanced Tamil or	2	2		-	50	50
	Non Major elective Yoga					-	-
	for HumanExcellence/						

B.Com. Business Administration - Syllabus w.e.f. 2023-24 onwards - Affiliated Colleges - Annexure No.42C SCAA DATED: 18.05.2023

	Women Rights/Constitution of India									
	Total	22	30		185	515	700			
	FOURTH SEMESTER									
Ι	Language-IV	4	4		25	75	100			
II	English – IV	4	4		25	75	100			
III	Core VIII- Corporate Accounting -I	4	5		25	75	100			
III	Core IX Customer RelationshipManagement	2	3		25	75	100			
III	Core X Banking Law and Practices	4	3		25	75	100			
III	Core -XI Company Law and Secretarial Practice	4	3		25	75	100			
III	Allied Paper-IV International Businmess	3	3		30	45	75			
IV	Skill based Subject-2 - Nan Mudhalva – office Fundamentals http://kb.naanmudhalvan. in/Bharathiar University_(BU)	2		3	25	25	50			
IV	Tamil/Advanced Tamil/Non majorelective -II: General Awareness	2	2		-	50	50			
Total	山 月 石	29	27	3	205	570	775			
	FIFTH SEMESTER									

III	Core XII -Corporate Accounting II	4 nbat	·· 6	Sell ⁶⁰	25	75	100
III	Core XIII Human Resource Management	EDUCA 4 TO E	LEVATE 5		25	75	100
III	Core -XIV Income Tax Law andPractice	4	6		25	75	100
III	Core -XV Retail Management	4	5		25	75	100
III	Elective –I	4	5		25	75	100
IV	Skill based subject -3 Business Application Software –II	3	3		30	45	75
III	Core XII -Corporate Accounting II	4	6		25	75	100
	Total	23	30		180	495	675
B.Com. Business Administration - Syllabus w.e.f. 2023-24 onwards - Affiliated Colleges - Annexure No.42C SCAA DATED: 18.05.2023

	SI	XTH SEN	MESTER							
III	Core XVI -Cost And Management Accounting	4	6		25	75	100			
III	Core XVII Principles of Auditing	4	5		25	75	100			
III	Core XVIII E- Business	4	6		25	75	100			
III	Elective-II	4	5		25	75	100			
III	Elective -III-	4	5		50	50	100			
IV	Skill Based Subject-4– Naan Mudhalvan – Fin Tech Course – 2(Capital Markets/Digital Marketing/Operational Logistics) http://kb.naanmudhalvan.in/Bhar athiar_University_(BU)	2	3		25	25	50			
V	Extension Activities	2	-	-	50	-	50			
	TOTAL	24	30	-	200	400	600			
	GRAND TOTAL	140	177	3	1055	2745	3800			
	Online courses will be	impleme	nted from	next acade	mic year	•				

List of Elective Papers (Colleges can choose any one of the paper as electives)

Elective-I	А	Entrepreneurial Development
	В	Organisational Behavior
	С	Industrial Law
Elective-II	А	Business Finance
	В	Business Environment
	С	Brand Management
Elective-III	А	Financial Markets and Institutions
	В	Cyber Law
	С	Investment Management

\$ Includes 25% / 40% continuous internal assessment marks for theory and practical papersrespectively.

@ No University Examinations. Only Continuous Internal Assessment (CIA)

No Continuous Internal Assessment (CIA). Only University Examinations

NOTE: *English II University Semester Examination will be conducted for 50 marks (as per existing pattern of examination) and it will be converted for 25 marks.

** Nan Mudhalvan – Skill courses- external 25 marks will be assessed by industry and internal will be offered by respective course teacher.

B. Sc. Chemistry

Syllabus

AFFILIATED COLLEGES

Program Code: 22D

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 - 982)

Coimbatore - 641 046, Tamil Nadu, India

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Program Educational Objectives (PEOs)						
The B. S	c. Chemistry program describe accomplishments that graduates are					
expected	to attain within five to seven years after graduation					
PEO1	To produce efficient chemistry graduates with strong fundamentals in					
	various fields of chemistry					
PFO2	To make students capable to assess and relate issues to environmental and					
1202	practice it with integrity and ethics					
PEO3	To provide an in-depth knowledge in chemistry and enable them with tools					
I EOJ	needed for industrial applications					
PFO4	To integrate the inter-disciplinary knowledge of physics, mathematics or					
1 E04	biological sciences to wide variety of fields					
DEO5	To develop the ability to communicate the scientific information in written					
PE05	and oral formats					
DEOG	To inculcate leadership qualities and mold them as good team players to					
PEU0	function effectively in multidisciplinary teams					
	1 PLI E PO A VIII - 1					

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Program	Program Specific Outcomes (PSOs)						
After the successful completion of B. Sc. Chemistry program, the students are expected to							
PSO1	Apply chemistry knowledge to solve the problems in various areas.						
PSO2	Acquire a skill for safe handling of chemicals, apparatus and instruments						
PSO3	Identify and analyze problems and gain skills to interpret chemical information						
PSO4	Gain practical knowledge and analytical skills in designing and carrying out chemical experiments						
PSO5	Have enough chemistry knowledge to go for higher studies and become entrepreneur						



பர்த்திட சேன்

Program Outcomes (POs)						
On succe	essful completion of the B. Sc. Chemistry program					
PO1	Understand the chemistry and apply their knowledge in day-to-day life					
PO2	Explore the knowledge of analytical techniques to the industries for various analysis					
PO3	Develop skills to carry out experiments in various fields of chemistry					
PO4	Identify, formulate and solve the technological problems of the industry					
PO5	Apply their theoretical knowledge to make the common people to understand the chemistry behind every chemical changes.					
PO6	Confidence with skills and techniques necessary to succeed in the competitive examinations					
PO7	Have the knowledge of science principles to practical situations in their respective professional career.					

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BHARATHIAR UNIVERSITY: COIMBATORE 641 046 B. Sc. Chemistry – Revised Scheme of Examinations (CBCS Pattern)

(For the students admitted during the academic year 2021 – 22 onwards)

		TT /	Exa				
Part	Title of the Course	Hours/	Duration	Maxi	mum N	Marks	Credits
		week	in Hours	CIA	CEE	Total	
	Semester I						
Ι	Language - I	6	3	50	50	100	4
II	English - I	6	3	50	50	100	4
III	Core Paper I – General Chemistry - I	7	3	50	50	100	4
III	Core Practical I (Inorganic Qualitative	2	2	-	-	-	-
	Analysis)	3	3				
ш	Allied A: Paper I [#] (or)	6	3	50	50	100	4
111	Allied A: Paper I [®]	4	3	30	45	75	3
III	Allied A: Practical [®]	2	1000	3	-	-	-
IV	Environmental Studies* /	2	-3		50	50	2
	Total	30	T	180	245	425	17
	Semester II	-					
I	Language – II	6	3	50	50	100	4
II	English – II	6	3	50	50	100	4
III	Core Paper II – General Chemistry - II	7	- 3	<mark>5</mark> 0	50	100	4
III	Core Practical I (Inorganic Qualitative	2	2	50	50	100	4
	Analysis)	3					
ш	Allied A: Paper II [#] (or)	6	3	50	50	100	4
111	Allied A: Paper II [®]	4	3	30	45	75	3
III	Allied A: Practical [@]	2	3	25	25	50	2
IV	Value Education – Human Rights*	2	3	à	50	50	2
	Total	30		255	320	575	23
	Semester III		.: 81				
Ι	Language – III	6	111-3	50	50	100	4
II	English – III	6	3	50	50	100	4
III	Core Paper III – Inorganic Chemistry - I	0 3	3	50	50	100	4
III	Core Paper IV – Physical Chemistry - I	3	3	50	50	100	4
ш	Allied B: Paper $I^{\#}(or)$	6	3	50	50	100	4
111	Allied B: Paper I [@]	4	3	30	45	75	3
III	Core Practical II (Volumetric and	2	_	_	_	_	_
	Organic Analysis)	2	_	_	_		_
III	Allied B: Practical [@]	2	-	-	-	-	-
IV	Skill based Subject 1: Chemistry of	2	3	30	45	75	3
	Natural and Synthetic Fibers		5	50	-15	15	5
IV	Tamil** / Advanced Tamil* (OR) Non-						
	major elective - I (Yoga for Human	2	3	-	50	50	2
	Excellence)* / Women's Rights*						
	Total	30		260	340	600	24

	Semester IV						
Ι	Language – IV	6	3	50	50	100	4
II	English – IV	6	3	50	50	100	4
III	Core Paper V – Organic Chemistry - I	4	3	50	50	100	4
III	Core Practical II (Volumetric and	2	C	50	50	100	4
	Organic Analysis)	3	0	30	30	100	4
TTT	Allied B: Paper II [#]	6	3	50	50	100	4
111	Allied B: Paper II [@]	4	3	30	45	75	3
III	Allied B: Practical [@]	2	3	25	25	50	2
IV	Skill based Subject 2: Technology of	2	2	20	45	75	2
	Dyeing of Natural Fibers	3	3	30	45	75	3
IV	Tamil**/Advanced Tamil* (OR)						
	Non-major elective -II (General	2	3	-	50	50	2
	Awareness*)	50	6				
	Total	30	$\sim \circ$	285	365	650	26
	Semester V		6				
III	Core Paper VI (Inorganic Chemistry	4	3	50	50	100	1
	II)		2.3	50	30	100	4
III	Core Paper VII (Spectroscopy)	5	3	50	50	100	4
III	Core Paper VIII (Electrochemistry)	5	3	50	50	100	4
III	Core Paper IX (Analytical Chemistry)	4	3	50	<mark>5</mark> 0	100	4
III	Core Practical III (Gravimetric And	4					-
	Physical)			2			
III	Elective I	4	3	50	50	100	4
IV	Skill based Subject 3: Water &	5					
	Effluent Treatment And Pollution	3	3	30	45	75	3
	Control			••••			
	Total	30		280	295	575	23
	Semester VI				2		
III	Core Paper X (Organic Chemistry II)	5	3	50	50	100	4
III	Core Paper XI (Physical Chemistry II)	5	3	50	50	100	4
III	Core Practical III (Gravimetric And	7	70	50	50	100	4
	Physical)		555	20	4.77	7.5	2
	Elective II		111193	30	45	75	3
		4	3	50	45	/5	3
	Core Practical for Elective Subjects	01350	- 3	50	50	100	4
IV	SKIII Based Subject 4:	2	3	30	45	75	3
X7	(Textile Chemistry Practical)			50		50	2
V	Extension Activities**	-	-	240	-	50	2
	10tal	JU 190		340	333	0/5	2/ 140
	Grand Total	190		1000	1700	3200	140

Note

[#] For subjects without practical.

[@] For subjects with practical.

* No Continuous Internal Assessment (CIA). Only University Examinations.

** No University Examinations. Only Continuous Internal Assessment (CIA).

Allied Subjects(Colleges can choose any two subjects)					
1. Mathematics,	, 2. Ph	ysics, 3. Botany, 4. Zoology, 5. Biochemistry			
		List of Elective papers			
(Colleges can choose any one of the paper as electives)					
	A Polymer Chemistry				
Flective _ I	В	Agro Industrial Chemistry			
Elective – I	С	Pharmaceutical Chemistry			
	Α	Leather Chemistry			
Elective – II	B	Chemistry of Plant Based Products			
	С	Dye Chemistry			
	Α	Analytical Chemistry II Lab Techniques			
Elective – III	В	Environmental Chemistry			
	С	Textile Chemistry			





Cour	se code	de 13A GENERAL CHEMISTRY - I L							
	CO	RE	Core I – Paper - I	6	1	-	4		
Pre-	requisite		Higher Secondary Level Chemistry	Higher Secondary Level Chemistry Syllabu Version			9- D		
Cour	se Object	tives:							
The n	nain objec	ctives of this co	burse are to:						
1. I	Explain th	e properties of	periodic table and bonding theories						
2. 0	Dutline the	e reactivity of	alkenes and alkynes and conformation of alkane	S					
3. Describe the laws of thermodynamics and black body radiation									
Б									
Expe On t	be succes	rse Outcomes	n of the course student will be able to:						
1	Inderst	and the proper	ties of period and groups in periodic table		L	(1 K	·)		
1 2	Ablatar	nome the hydr	ness of period and groups in periodic table	nand		1, N 7 V	<u></u>		
2	addition	reactions.	scarbons and identify the products of eminination	ii anu	r	N2-N	4		
3	Discuss the various polar effects in alkanes and alkenes. Describe the						3		
4	Explain the theory of black body radiation				K	K 1. K	2		
5	5 Understand the first and second law of thermodynamics				K		2		
K1 -	Rememb	er; K2 - Unde	rstand; K3 - Apply; K4 - Analyze; K5 - Evaluat	e; K6 -	Cre	ate			
		E							
Unit	::1	Per	iodic Properties and Theory of Bonding		21	hou	irs		
1. P	eriodic t	able-Introduct	ion-Periodic properties- Ionisation energy,	Elect	on	affir	nity,		
Electi	onegativi	ty and their va	riations along the period and groups.				-		
2. Hy	bridizatio	n and geometr	y of BeCl ₂ , BF ₃ , CH ₄ , PCl ₅ , IF ₇ and SF ₆ . VSEP	R Theo	ory. (Cova	lent		
Bond	-Molecula	ar orbital theor	y-application to molecules such as H_2 He_2 , F_2 ,	$J_2, N_2,$	0	and	NU.		
Unit	:2	9	Reaction of Alkenes and Alkynes		21	hor	irs		
1. No	menclatur	re of acyclic al	kane, alkene and alkyne.			1100			
2. All	kenes: Pre	eparation by V	Vittig reaction – Mechanisms of beta elimination	n – E	1, E2	2 and	cis		
elimi	nation – H	Hoffmann's ru	le and Saytzeff's rule. Addition reactions with	hydrog	gen,	halog	gen,		
hydro	gen halio	de (Markown	koff's rule) and hydrogen bromide (Peroxic	de effe	ect).	Die	nes:		
Stabi	ity of iso	lated and conj	ugated dienes-1, 2 and 1, 4 additions, Diels -A	Alder r	eacti	on. I	ree		
	al additio	n – Polymeriza idity of Allyn	ation – synthetic rubber.	ith Ua	ഹ	ootol	vot		
bydro	boration	Idity of Alkyli	es – formation of acetyndes-addition of water w	iui iig	304	Calai	yst-		
nyuro	borution.								
Unit	:3	Pola	r Effects and Conformations of Alkanes		21	hou	irs		
1. Po	lar effects	– inductive e	ffect, mesomeric effect, electromeric effect, hyp	per cor	ijuga	tion	and		
steric	effects. C	Classification of	of reagents: Electrophiles, Nucleophiles and Free	e radic	als. '	Гуре	s of		
reacti	on: Polar	reactions invo	lving carbonium ions and carbanions with simpl	e exan	ples	• .			
2. A	Inphatic	Hydrocarbons	: Restricted rotation about single bond p	referre	d r	otatio	onal		
$\begin{array}{c} \text{conto} \\ 3 \\ \end{array}$	rmations.	ac. Dranaratio	n by Dieckmann ring closure and by redu	lation	of	arom	atic		
b v dro	carbons –	- ring opening	reactions of cyclopropane with H ₂ Br ₂ and HI		01	arom	anc		
inyuro		ing opening	reactions of cyclopropane with 112, D12 and 111.						

Uni	it:4	Liquid Crystals and Black Body Radiation	21 hours						
1. Li	auid crysta	als-the concept of mesomorphic state-typical liquid crystalline subs	stances and						
their	their properties.								
2. Fa	2. Failure of classical theory in explaining black body radiation- Planck's theory of quantization								
of en	nergy – Ein	stein's theory of photoelectric effect-Compton effect. de-Broglie th	neory of wave-						
parti	cle dualisn	n. Particle in one dimensional box (Wave length determination only	y) -						
Schr	odinger eq	uation.							
Uni	it:5	Laws of Thermodynamics	21 hours						
The	laws of the	ermodynamics, generalities and Zeroth law – kinds of energy – Sco	ope of the first						
and	second la	ws of thermodynamics-thermodynamic terms-definitions – her	at – work of						
expa	nsion – w	ork of compression – maximum and minimum quantities of work	c – Reversible						
and i	irreversible	e transformations of energy. First law of thermodynamics – proper	ties of energy						
chan	ges in rela	tion to properties of system- isothermal and adiabatic changes – n	neaning of the						
therr	nodynamic	state function – properties of exact and inexact differentials – Jo	oule Thomson						
expe	riment.								
		1 otal Lecture hours	105 nours						
Tex	kt Book(s)								
1	Principles	s of Inorganic Chemistry, B.R. Puri L.R. Sharma, S.Chand& Co.							
2	Inorganic	Chemistry, P.L.Soni, Sultan Chand & Sons.							
3	Organic (Che <mark>mistry, V</mark> ol. 1, 2 & 3, S. M. Mughergee, S.P. Singh, R.P. Kapoo	or, Wiley						
	Eastern.								
		To Date and all a							
Ret	erence Bo	oks							
1	Advanced	d Organic Chemistry, B.S. Bahl, Arunbahl, S.Chand & Co.							
2	Essential	s of Physical Chemistry, B.S. Bahl and G.D. Tuli, S.Chand & Co.							
3	Text bool	k of Physical Chemistry, P.L.Soni, D.B. Dharmarke, S.Chand & Co).						
4	Principle	s of Physical Ch <mark>emistry, B.R.Puri, L.R.Sharm</mark> a and M.S.Phathania,	, S.Chand &						
	Co.	29 9							
Rel	ated Onlin	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://np	tel.ac.in/content/storage2/courses/104101005/downloads/LectureN	otes/chapter						
	%207.pd	் குதப்பாரை உயா							
2	https://ww	ww.youtube.com/watch?v=4LQ8jdKZTEo							
3	https://ww	ww.khanacademy.org/science/organic-chemistry/bond-line-structur	es-alkanes-						
	cycloalka	nes/conformations-alkanes-cycloalkanes/v/conformational-analysi	s-of-ethane						
Cou	rse Design	ed By: Dr. S. P. Rajasingh							

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	S	Μ	Μ	S	S	S	S
CO2	М	Μ	Μ	Μ	S	S	М
CO3	М	Μ	S	S	S	М	М
CO4	S	Μ	S	S	Μ	S	S
CO5	S	S	М	S	S	S	М

Mapping with Programme Outcomes



Cou	rse code	23A	GENERAL CHEMISTRY - II	L	Т	Р	С				
	COR	E	Core II – Paper - II	6	1	-	4				
Pro	e-requisite	•	Higher Secondary Level Chemistry	Syllabus2019-Version2020			9- 0				
Cou	rse Objec	tives:									
The main objectives of this course are to:											
1.	1. Outline the fundamentals of volumetric estimations										
2.	2. Explain electrophilic and nucleophilic substitution reactions										
3.	Describe the	he applicati	on of boron and silicate chemistry								
4.	4. Discuss thermodynamics and solid state chemistry										
Exp	ected Cou	rse Outcor	nes:								
On	the succes	sful comple	etion of the course, student will be able to:								
1	Understa ion	nd the princ	ciples of volumetric analysis and estimate an unknown		K	l, K2	2				
2	Outline t	he structu <mark>re</mark>	and properties of boron and silicate compounds		K	l, K2	~				
3	3 Explain the aromatic electrophilic substitution and aliphatic nucleophilic substitution reactions with mechanism					2-K4	1				
4	Understand the relation between thermodynamic properties					l-K3					
5	Understa	nd the pack	ing and structure of crystals		K1 K2		2				
K1	Rememb	per: $\mathbf{K2}$. U	aderstand: K3 - Apply: K4 - Applyze: K5 - Evaluate: 1	K6 - (reat						
	Remeine		iderstand, its rippiy, itt rindryze, its Evaluate, i		nout						
Un	it:1		Volumetric Analysis and Redox Reactions		21	hou	rs				
1.Pr	inciples of	f Volumetr	ic Analysis: Terms used in volumetric analysis, pr	imarv	and						
seco	ndarv stan	dard substa	nces, standardization of solutions.	J							
2. 0	Concentrati	on units:	ppm, molality, formality, molarity, mole fraction.	norma	ality.	wei	ght				
perc	ent and vo	lume percer	nt. Determination of equivalent weight of acids, bases,	oxida	int, r	educ	tant				
and	simple	salts. Typ	es of volumetric titrations, acid-base, redox,	precip	oitati	on	and				
com	plexometri	ic titrations.	Compatare								
3. In	dicators: E	Effect of cha	inge in pH, neutralization, redox, adsorption and metal	ion in	ndica	tors.					
4. C	xidation a	nd reduction	on reactions: balancing redox equations by oxidation	num	ber a	and i	on-				
elect	tron metho	d.	ூதப்பாரை உயா								
			EDUCATE TO ELEVATE								
Un	it:2		Boron and Silicates		21	hou	Irs				
Che	mistry of	Boron fam	ily – Group discussion – Electron acceptor behavi	our a	nd e	lectr	on				
defi	ciency of	boron hyd	lrides; bonding in diboranes; NaBH ₄ and borazol	le - j	prepa	iratio	on,				
prop	erties, stru	icture and u	uses. Silicates-Classification of silicate- simple silicate	es, ch	ain s	ilicat	es				
and	sheet silica	ates only.									
Un	it:3	E	lectrophilic and Nucleophilic Substitution		21	hou	irs				
Str	ucture of	benzene-A	romaticty-Huckel'srule. Electrophilic substitution i	n be	nzen	e w	ith				
me	chanism -	Nucleophili	c substitution reaction – SN_1 , SN_2 and SN_i reactions –	Grign	nard 1	eage	ent				
and	l synthet	ic applica	tions-Elimination versus substitution-Benzyne	mecha	nisn	n a	nd				
inte	intermediate complex mechanism.										

B. Sc. Chemistry 2021-22 onwards - Affiliated Colleges - Annexure No.20(a) SCAA DATED: 23.06.2021

Ur	nit:4	Thermodynamics	21 hours
Rela	ation betwe	een E and H, C_P and C_v . The heat of reaction – conventions in t	the values of H.
Hes	s's law – I	heats of combustion - determination by Bomb Calorimeter - H	Bond energies –
Res	onance ene	ergies - Heats of solution - integral and differential heat of dilu	tion – Heats of
reac	tion at con	stant volume - dependence of the heat of reaction on temperature	e and Kirchoff's
equa	ation.		
Un	nit:5	Solid State Chemistry	21 hours
Cry	stalline and	amorphous solids, crystal systems, Bravis lattice, unit cell, law of	f rational indices
(We	eiss indices), Miller indices, Symmetry elements in crystals (for cubic syste	em only). X-ray
diff	raction by c	crystals - derivation of Bragg's equation - Bragg method - powder	method. Crystal
stru	cture of Na	Cl, Wurzite, CaF ₂ and Ti <mark>O₂- radius ratio</mark> rules and packing in cryst	als.
		Total Lasting hours	105 haven
		Total Lecture nours	105 nours
Te	xt Book(s)		
1	Principles	of Inorganic Chemistry, B.R. Puri L.R. Sharma, S.Chand& Co.	
2	Text book	of Physical Chemistry, P.L.Soni, D.B. Dharmarke, S.Chand& Co.	
3	Essentials	of Physical Chemistry, B.S. Bahl and G.D. Tuli, S.Chand& Co.	
Re	ference Bo	ooks	
1	Inorganic	Chemistry, P.L.Soni, Sultan Chand & Sons.	
2	Advanced	Organic Chemistry, B.S. Bahl, ArunBahl, S.Chand& Co.	
3	Physical c	hemistry, G. N. Castellan, Addison- Wesley Pub. Co.	
Re	lated Onlin	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://wel	b.iit.edu/sites/web/files/departments/academic-affairs/academic-res	source-
	center/pdf	s/SN1_SN2.pdf	
2	https://npt	el.ac.in/content/storage2/courses/104101005/downloads/LectureNo	otes/chapter%20
	<u>9.pdf</u>	Walk UNIT A	
Co	ourse Desig	ned By: Dr. M. Sivakuma <mark>r Competence</mark>	



Cours	a aada	23D	INORGANIC QUALITATIVE	т	т	D	C
Cours	e coue	231	ANALYSIS	L	1	1	C
	CO	RE	CORE III - CHEMISTRY PRACTICAL I	-	- __	3	4
Pre-r	equisite		Higher Secondary Level Practical	Syllab	us	2010	0-
~	equisite		Knowledge	Versio)n	201	1
Cours	e Object	tives:					
The m	ain objec	ctives of this co	ourse are to:				
1.	Impart k	nowledge to the	le students in handling laboratory equipment and	l reage	nts		
2. 2	Improve	the skill of inc	organic mixture analysis.		f	a a 14 a	
5.	Make the	e students to an	haryze and identify the cations and amons in the	mixtu	re of	saits	•
Evnoo	tod Com	rea Autoomas					
On the		ful completion	of the course student will be able to:				
1	Do pr	eliminary tests	and identify interfering and non-interfering		K1	_K5	
1	radica	als and confirm	their presence		IX I	-13	
2	Remo	ove interfering	anions, carry out a systematic analysis and ident	tify	K1	-K5	
	the ca	tions in a give	n sample	·			
K1 -	Rememb	er; K2 - Unde	<mark>rs</mark> tand; K3 - Apply; K4 - Analyze; K5 - Evaluat	e; K6	- Cre	ate	
Part	Ι		ANALYSIS OF CATIONS	4	5 ho	urs	
CATI Manga	ONS TO) BE STUDI balt, Nickel, F	ED : Lead, Copper, Bismuth, Cadmium, Iron Barium, Calcium, Strontium, Magnesium and Ar	, Alun nmonii	ninu 1m	m, Z	inc,
Part	I		ANALYSIS OF ANIONS	4	5 ho	urs	
ANIO	N TO B	E S <mark>TUDIED</mark> :	Carbonate, Sulphate, Nitrate, Chloride, Bromid	le, Fluo	oride	, Bor	ate,
Oxalat	e, and Ph	nosphate.					
1			and a				
			Total Practical hours	9	0 ho	ours	
Text	Book(s)	2	Part and a second se	G			
1 Ba	asic Prine	ciples of Pract	ical Chemistry, Kulandaivelu A.R., Veeraswam	ıy			
R	., Venkat	eswaran, Sulta	in Chand & Sons, 2017.				
2 P1	ractical C	Chemistry for E	3.Sc Chemistry, A.O. Thomas				
De	D		A a contraction of the contracti				
Refei	rence Bo	oks	Solution of Million				
1 A	Text Bo	ok of Qualitat	ive Analysis including semi-micro methods, A.I	.Vogel	•		
Relat	ted Onlin	ne Contents [N	MOOC, SWAYAM, NPTEL, Websites etc.]				
1 <u>ht</u>	<u>tps://www</u>	w.youtube.com/	watch?v=O9ba90MJws0				
2 <u>ht</u>	tps://www	w.youtube.com/	watch?v=oz1LN190SSU				
3 <u>ht</u>	tps://www	w.youtube.com/	watch?v=QQo1e-BUZWs				
Cours	e Design	ed By: Dr. S.	P. Rajasingh				

Mappi	Mapping with Programme Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7			
CO1	М	S	S	Μ	S	М	S			
CO2	S	М	S	S	М	S	S			



Course code	33A	INORGANIC CHEMISTRY - I	L	Т	P	С
COR	Е	Core IV – Paper III	3	-	-	4
Pre-requisite		Higher Secondary Level Chemistry	Syllal Versi	bus on	202 202	20- 21
Course Objectiv	ves:					
The main objecti	ves of this co	ourse are to:				
1. Explains the	he fundamer	tal concepts involved metallurgical process f	or ex	tract	ion	of
metals.						
2. Discuss the	theories and	stability of metal complexes.	1:	4:	~	
3. Outline the	importance o	forganometanic compounds and their catalytic a	ppiica	uions	5.	
4. Describe un		Tunctioning of biomolecules and fole of metals in		ogy		
Expected Cours	e Outcomes					
On the successf	ful completion	of the course, student will be able to:				
1 Explain	various cher	nical and electrochemical principles involved i	in the			
extractio	n <mark>of metals.</mark>				K1,K	3
2 Make use	e <mark>of the occ</mark> u	rence and extraction of important metals and their	r]	K2,K	3
3 Outline th	nas ne importance	e of solvents and solubility in chemical reactions	-		K2	-
4 Define a	nd classify th	e structure and properties of organometallic	-			
compour	nds				К1-К	3
5 Describe biology	the structure	& functioning of biomolecules and role of metal	s in		K1,K	12
K1 - Remember	r; K2 - Under	rstand; K3 - Apply; K4 - Analyze; <mark>K5</mark> - Evaluate;	; K6 -	Crea	ate	
TL 4.1	9			0	1	
Unit:1	00	Methods of Extraction		9	nou	irs
General method separation, Extr Arkel refining a uses of German	ls of Extracti raction – Ch and Electroly ium and Tita	on: Concentration – Gravity separation, Froth Fle emical and Electrolytic methods of refining, Zo tic refining with examples. Occurrence, extractio nium and their important compounds such GeCl ₄	otation ne read n, pro- and T	n, ma finin opert TiO ₂ .	agnet g, V ies a	tic an nd
Unit.?	Fx	traction of Metals and Their Compounds		0	hou	irc
Occurrence ex	traction pro	perties and uses of Zirconium Vanadium M	/olvh	J enu	m a	nd
Tungsten - the	eir important	compounds such as V_2O_5 , $ZrOCl_2$, $(NH_4)_2M_2$	10190 10O ₄ ,	WC	D_2, a	nd
tungsten bronze	es.					
Imite?		Dolo of Solventa		0	hou	
The solvents- so	l olubility of c	ompounds – effect of temperature on solubility –	Role	of w	liou /ater	<u>as</u>
solvent- chemic properties of ion – ammonia, hy C_2H_5OH and Et	cal structure nizing solven drogen fluo: ther.	and solubility. Classifications of solvents – gen ts. Types of reactions in non-aqueous solvents – ride. Non Protonic solvents-SO ₂ and BrF ₃ . Or	eral t protor ganic	behav nic solv	viour olver vents	nts

Un	it:4	Organometallic Compounds	9 hours
Det	finition – N	lomenclature of Organometallic compounds – Synthesis of org	anometallic
con	npounds of 1	Be, Mg, Zn, B and Al – Ferrocene: Preparation – Aromaticity of:	Ferrocene,
cyc	lic C _n H _n Li	igands – Application of: Grignard reagent and Gilman Reagen	nt - alkene
pol	ymerization	using Ziegler-Natta catalyst.	
Un	it:5	Bioinorganic Chemistry	9 hours
Imp	portance of r	netals in biological systems – chemistry of hemoglobin and myogle	obin – Role
of:	Na^+ and K^+ i	$\cos - Mg^{2+}$ and Ca^{2+} ions – Biological functions and toxicity of trac	e elements:
Cr,	Mn, Co, Ni	and Cu – Ultra trace elements: As, Se, Mo, I, Fe and Zn – Biologi	cal fixation
of r	nitrogen – M	etallo-enzymes: Carbonic anhydrase, Carboxy peptidase.	
			45.1
		Total Lecture hours	45 hours
Te	xt Book(s)	60 ⁰⁰	
1	Principles of	of Inorg <mark>anic Chemistry</mark> , B.R. Puri L.R. Sharma, S.Chand & Co.	
2	Principles	of Ino <mark>rganic Che</mark> mistry, B.R. Puri, L.R. Sharma and K.C. Kalia,	, Milestone
	Publishers	(2012)	
3	Inorganic C	Chemistry, P.L.Soni, Sultan Chand & Sons.	
Ref	ference Bool	ks 😘	
1	Huheey, J	. E.; Keiter, E. A.; Keiter, R. L. Inorganic Chemistry, Principles of S	Structure
	and React	ivity, 4th ed., Harper Collins, 1993.	
2	Lee. J.D,	Concise Inorganic chemistry, V edition, Chapman & Hall Ltd, Lond	10n ,2000, 10n
3	Shriver, D	D. F.; Atkins, P. W.; Langford, C. H. Inorganic Chemistry, 3rd ed., C	Dxford
	University	y Press, 2000.	
4	Cotton, F.	. A.; Wilkinson, G.; Murillo, C. A.; Bochmann, M. Advanced Inorga	anic
	Chemistry	y, 6th ed., John Wiley, 1999.	
			/ /
Rel	ated Online	Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://npte	el.ac.in/content/storage2/courses/104101005/downloads/LectureNot	es/chapter
2	<u>%207.pdf</u>		
2	https://you	tu.be/BZ_tY880001, Co-ordination chemistry, III Kharagpur, Prof.	D. Ka¥.
5	nttps://you	tu.be/FZIKKO-ZQWW for bioinorganic chemistry.	
CO	urse Design	ed By: Dr. S. P. Kajasingh and Dr. P. Kajesh	

Mapping with Programme Outcomes										
PO1	PO2	PO3	PO4	PO5	PO6	PO7				
Μ	S	S	S	S	S	S				
Μ	Μ	S	Μ	S	Μ	S				
S	Μ	S	Μ	S	S	S				
S	Μ	Μ	М	М	S	S				
S	Μ	М	М	S	S	S				
	ng with PO1 M S S S	ng with ProgramPO1PO2MSMMSMSMSM	ng with Programme OutPO1PO2PO3MSSMMSSMSSMMSMM	ng with Programme OutcomesPO1PO2PO3PO4MSSSMMSMSMSMSMMMSMMM	ng with Programme OutcomesPO1PO2PO3PO4PO5MSSSSMMSMSSMSMSSMMMMSMMMS	ng with Programme OutcomesPO1PO2PO3PO4PO5PO6MSSSSSMMSMSMSMSMSMSMSMSSSMMMSSSMMMSS				

Cou	irse code	33B	PHYSICAL CHEMISTRY - I	L	Т	Р	С
	COR	E	Core V – Paper IV	3	-	_	4
Pro	e-requisite	<u>)</u>	Basics of Physical Chemistry	Sylla Versi	bus on	202 202	:0- :1
Cou	irse Objec	tives:		-			
The	main object	ctives of thi	s course are to:				
1.	Enable the	e students in	n understanding the second and third law of thermod	ynami	ics		
2.	Explain va	arious syste	m in phase rule and their application				
3.	Application	on of the co	mputer C programming in chemistry				
T.		0.4					
Exp	the succes	rse Outcon	nes:				
		and the se	results of thermodynamics. Second law, and Ent		T/	1 TZ	
1	change.	and the co	incepts of thermodynamics, Second law, and Ent	гору	K	.1, K	<u>_</u>
2	Underst knowled	and the Sp lge of third	pontaneity and its conditions, Gibb's free energy law.	and	K	2, K	3
2	Underst	and the co	oncepts of Phase rule and its applications to var	rious	K	2 -K	4
5	systems	· <u> </u>					
4	Know th	ne different	laws of solutions and evaluate the Colligative prope	rties	K	.3, K	.5
5	Underst	and <mark>the C-F</mark>	Program and evaluate the various parameters.		K	2, K	.5
K1	- Rememb	ber; K2 - U I	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	;; K6 -	Crea	ate	
Un	it:1		Thermodynamics I		9	hou	irs
Ne	ed of seco	nd law of	thermodynamics – Carnot cycle – entropy – Def	inition	1 – E	Intro	ру
cha	anges in is	othermal t	ransformation – Trouton's rule. Entropy as function	n of	T an	id V	—
En	tropy as a l	unction of idea	T and P – Changes of entropy with T, Entropy chan	ges in	1dea	il gas	3 —
em	10py 01 III	xing of fue	Colimberiore				
Un	it:2		Thermodynamics II		9	hou	irs
Ge	neral con	ditions of	equilibrium and spontaneity - conditions of	equili	briu	m a	nd
spo	ontaneity-	definition of	of A and G – physical significance of dA and dG -	Temp	erati	ire a	nd
pre	essure depe	ndence of C	G – Gibbs – Helmholtz equation. Chemical equilibri	um – 7	The c	once	ept
of	chemical p	otential – c	chemical potential in a mixture of ideal gases – Var	ı't Ho	ff Isc	other	m,
and	1 isochore -	- Third law	of thermodynamics – statement and applications - I	Except	tion 1	to the	rd
Tav	V.						
Un	it:3		Phase Rule		9	hou	irs
Ph	ase equilib	ria – equili	brium condition - Stability of phase of a pure sub	stance	- P	ressu	ire
dep	pendence o	$f \mu$ and $T c$	curves. The Clapeyron and Clapeyron-Clausius equa	ations.	Der	ivati	on
of	Gibbs phas	se rule. Pha	se equilibria in one component system - Water and	Sulph	nur sy	ysten	ns.
Re	duced phas	se rule – Pl	hase diagram for two component system – construct	ction c	of the	: pha	ise
dia	gram-Ther	mal analys	is method – Phase Diagram of Simple eutectic	syste	ms:	Pb-A	Ag
by me	stem - extr	zcuon of Si Zn-Mg. In	congruent melting point: Na-K systems	type –	- Cor	igrue	:111

Unit:4 Solutions 9 hour	•S
Ideal and non-ideal - Raoult's law- Positive and negative deviation Henry's law - Nerns	st
distribution law and its applications. Colligative properties - relative lowering of vapou	ır
pressure, elevation of boiling point, depression of freezing point and osmotic pressure- their	ir
applications.	
Unit:5 C Program for Chemistry 9 hour	S
Structure of C program, Variables in C, Keywords and constants in C, Operators in C -	_
Arithmetic, Increment, Decrement, relational and logical operators - Program: To calculate the	e
pH of solutions– Calculation of pH of solution using Henderson equation- to compute the rat	e
constant of a first order reaction – to compute half-life period of a reaction – to compute th	e
energy of activation of a reaction.	
0.5500 million 1.45 h	
Total Lecture hours 45 hour	'S
Text Book(s)	
1 Principles of physical chemistry, B.P. Puri, L.R. Sharma and M.S. Phathania,	
S.Chand& Company	
2 Physical chemistry G,W.Castelan, Narosa Publishers.	
3 Physical chemistry (Vol.II) – N.B.Singh, ShivasaranDas, A.K.Singh – New Age	
International Publishers – First edition (2009)	
Reference Books	
1 Elements of Physical Chemistry, Puri Sharma, Pathania, 2013-14 Edn., Vishal	
Publishing Co. Jalandhar, Delhi.	
2 Principles of Physical chemistry, Puri Sharma Pathania, 46 th Edn. Vishal Publishing	
Co. Jalandhar	
3 Computer for Chemists – By Pundir Bansal – Pragati Prakasam Pubs.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1 <u>https://nptel.ac.in/courses/112/108/112108148/</u>	
2 <u>https://www.youtube.com/watch?v=2LywAiZBQW4</u>	
Course Designed By: Dr. P. Rajesh	

ப்பாரை

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7			
CO1	S	L	М	L	S	S	М			
CO2	S	L	S	М	М	S	S			
CO3	М	S	М	L	L	М	М			
CO4	S	S	М	М	S	L	L			
CO5	М	S	L	М	М	S	М			

Course	3ZA	CHEMISTRY OF NATURAL AND	L	Т	Р	С
code	BS	SYNTHETIC FIBERS	2		_	2
Pre-reg	uisite	Higher Secondary Level Chemistry	2 Sylla Vorci	- bus	201	<u>2</u> [0-
Course	Objectiv	AS.	versi	on	201	1
The ma	in objectiv	es of this course are to:				
1. Detail	explanati	on of the classification of natural fiber, its merits and d	emer		o fib	or
2. Outini 3. Descri	e about in	ction of nylon and polyester fiber	and a	icryn	C IID	er
J. Desen		etton of hyton and polyester fiber				
Expecte	d Cours	• Outcomes:				
On the s	successful	completion of the course, student will be able to:				
1 Te	o understa	nd the classification, properties and uses of natural fib	ers.		K1.	K2
	ble to kno	w about the chemical structure of cellulose fiber. Wet			K1_	- K3
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	inning pr	cess.			171 -	- 135
D	iscuss abo	but synthetic and acrylic fiber. Detail about fiber forming	ng		K1.J	<u>X2.</u>
3 pc	olymer an	d schio process.	0		K4,	K6
	xplain the	naming reaction of nylon fiber. Explanation of structu	re and	1	K1 ,	K2
4 us	es of Kev	lar fiber.				
5 D	iscuss abo	out polyester fiber. Synthesis of DMT, ethylene glycol	and		K1,	K3,
PI	ET	Manufactor Aster and	1		K4	
K1 - Re	member;	K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Eva	aluate	; K6	- Cre	eate
Unit:1		Natural Textile Fibers		29	6 h	ours
Natural	extile Fil	bers: Definition, Classification of Natural Textile Fiber	rs - V	egeta	ible f	ibers,
Animal Genetica	Illy Modif	roperties, Uses and Features of Cotton, wool, Si	lik ar	ia Ji	ite i	ibers.
Ochetica		ed cotton. Its merits and demerits.	<u>e</u>			
Unit:2		Viscose Fiber			6 h	ours
Viscose	Fibre: Ch	emical structure, chemistry of regenerated cellulose. P	roduc	tion	of Vi	scose
Fibre: a s	simple flo	w chart, wet spinning of viscose filaments. Properties	and	ises	of Vi	scose
Fibre.	1	COOCATE TO ELEVAIE				
Unit:3		Synthetic and Acrylic Fibers			6 h	ours
Synthetic	: Fibers: I	Definition of monomers, polymers and polymerization.	Sim	ple ex	kamp	les of
Condens	ation and	Addition Polymerization reactions. Criteria for fibre fo	orming	g pol	ymer	s.
Acrylic .	tibers: S	Synthesis of Acrylonitrile from propylene (Sohio	Pro	cess)	, so	lution
polymeri	zation of	acrylonitrile. Properties and uses of acrylic fibers.				
IInit./		Nylon Fibors			6 h	oure
Nylon F	ibres: Sv	thesis of caprolactum from aniline adipic acid fro	m cy	cloh	exan	e and
hexamet	vlene di	amine from adjointrile. Polycondensation reaction	ons 1	eadir	or to) the
formation	n of Nylo	n 6 and Nylon 6,6. Properties and uses of Nylon fiber	s. Str	uctur	e and	luses
of Kevla	r fibers.					

Uı	nit:5	Reaction of Polyester Fibers	6 hours
Pol	yester	Fibers: Synthesis of Dimethyl Terephthalate (DMT) from p - xyle	ene, terephthalic
acio	l fron	n benzoic acid (Henkel-II process) and synthesis of ethylene gl	lycol. Chemical
read	ctions	of Poly Ethylene Terephthalate (PET). Preparation, properties and u	ses of Polyester
fibe	ers.		
		Total Lecture hours	30 hours
Te	ext Bo	ok(s)	
1	Mos	es, J. Jeyakodi, and M. Ramasamy. "Quality Improvement on Jute an	d Jute Cotton
	Mate	rials Using Enzyme Treatment and Natural Dyeing". Man-Made Tex	ctiles in India.
	Vol.	47, no. 7 (Jul. 2004): 252–255. (AN 14075527)	
2	"cc	tton". The Columbia Encyclop <mark>edia, Sixth Edit</mark> ion. 2001-07.	
3	A.A	.Vidya,. ed.:Production of Synthetic Fibers, Prentice-Hall of India, 1	1988, New-
	Del	hi.	
Re	eferen	ce Books	
1	Ste	phen Yafa (2004). <i>Cotton: The Biography of a Revolutionary Fiber</i> .	Penguin (Non-
	Cla	ssics), 16. ISBN 0-14-303722-6.	
2	Ka	lolph, Sara J., ed.: <i>Textiles</i> , 10th edition, Pearson/Prentic	e-Hall, 2007,
	ISE	SN 0-13- 118769-4.	
Re	elated	Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	http	os://www.youtube.com/watch?v=ypUkIR894AM	
2	http	s://www.youtube.com/watch?v=0hoHvN289Xs	
Co	ourse	Designed By: Dr. N. Sivakumar	
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

Mappi	n <mark>g with</mark> I	Program	ne Outco	omes	1.5		19
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	S	S	S	S	S	S S	S
CO2	M	S	М	S	S	S	M
CO3	S	М	S	S	S	М	M
CO4	S	M	S	S	M	S	S
CO5	S	S 5.	М	S.	S	S	S

EDUCATE TO ELEVATE



Course code	43A	ORGANIC CHEMISTRY - I	L	Т	Р	С
COR	E	Core VI – Paper V	4	-	-	4
Pre-requisite	:	Basics of Organic Chemistry	Syllat Versi	ous on	202 202	0- 1
Course Object	tives:					
The main object	ctives of thi	s course are to:				
 Understan Explain th Outline th 	d the carbo le reactivity e reactivity	nyl compound's reactivity and various reduction reac of active methylene compounds with electrophiles of monohydric alcohols and amines.	etions			
Expected Cou	rse Outcor	nes				
On the succes	sful comple	etion of the course, student will be able to:				
1 Know Compou	the know inds.	ledge of Preparation and Properties of Carbo	onyl	K 1	L	
2 Underst	and the me	chanism of certain name reactions.		K	2, K3	3
3 Underst isomeris	and the con	cepts of active Methylene compounds and Geometric n organic compounds.	al	K2	2, K4	ŀ
4 Know th with che	ne cl <mark>assifica</mark> emical prop	ation of Phenols, Preparation of phenolic compounds erties.		Kź	2	
5 Know th	ne concep <mark>ts</mark>	of amines, types, separation and their basic nature.		K	3, K 4	ł
K1 - Rememb	er; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Crea	te	
	5	TP. CONTRACTOR	2			
Unit:1	64	Chemistry of Carbonyl Compounds – I		12	hou	rs
Nomenclatur - Reaction w reaction, Refo Reduction R reduction, MF	e, Prepara ith: Grigna ormatsky rea ceactions: PV reductio	tion & Properties: Structure of carbonyl - general properties: Structure of carbonyl - general properties: relation Mechanaction. action. with LiAlH ₄ and NaBH ₄ – Clemmensen reduction n	physica anism a, Wol	al pr of h	oper alofo Kishr	ties orm ter
Unit:2		Chemistry of Carbonyl Compounds – II		12	hou	irs
Mechanism reaction, Clais	of: - Aldo sen-Schmid	l condensation, Cannizzaro reaction, Perkin reacti dt reaction, benzoin condensation, Mannich reaction.	on, K	noev	anag	gel
Unit:3		Active Methylene Compounds		12	hou	irs
Acetoacetic e antipyrine - M acid, keto ac synthesis of m Geometrical acid and fuma	ster: prepar Aalonic est ids, barbitu nalonic acid isomerism ric acid - p	ration from Ethyl acetate – synthesis of succinic ac er: Preparation from potassium cyanoacetate – synth uric acid - cyanoacetic ester: preparation from ch l and adipic acid - Tautomerism of acetoacetic ester. : Cis & Trans, E & Z notations – Geometrical ison hysical and chemical properties of geometrical isome	id, 1,3 hesis c loroaco merisn rs.	dik of cin etic	etone nnam acid male	eic

B. Sc. Chemistry 2021-22 onwards - Affiliated Colleges - Annexure No.20(a) SCAA DATED: 23.06.2021

U	nit:4	Phenols	12 hours								
Cl	Classification of phenols – Preparation of phenol from chlorobenzene, cumene – Reaction with										
m	mechanism: Schotten – Bauman and Gattermann reactions										
Di	Di and Trihvdric phenols: Preparation of Catechol, Resorcinol, Ouinol, Pyrogallol and										
Ph	Phloroglucinol – Houben-Hoesch reaction										
U	nit:5	Amines	12 hours								
Pr	eparation of	f aliphatic and aromatic primary, secondary and tertiary amines - their	separation,								
co	mparison o	f their basicity									
Re	eactions of	Aromatic Amine: ring substitution, diazotization and coupling	reaction –								
Di	azomethan	e: preparation and synthetic applications									
			(0.1								
		I otal Lecture nours	60 nours								
Te	ext Book(s)										
1	Advanced	Organic Chemistry, B.S.Bahl, Arunbahl, S.Chand & Co.,									
2	Text book	Organic Chemistry, P.L. Soni, S.M. Chawla, Sultan Chand & Sons									
	A D										
Re	eference Bo	ooks									
1	Stereoche	mist <mark>ry, Confo</mark> rmation and mechanisms, Kalsi, Wiley- Eastern Ltd.,									
2	Organic cl	hem <mark>istry, R.T</mark> .Morrison and R.W. Boyd, Prentice –Hall.									
3	Fundamer	ntals of Organic Chemistry, T.W.Graham Solomen, John-Wiley & Sor	15								
Re	elated Onlin	e Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1	1 <u>https://nptel.ac.in/content/storage2/courses/104101005/downloads/LectureNotes/chapter%2</u>										
	<u>010.pdf</u>										
2	2 <u>https://www.youtube.com/watch?v=JgmzmehMiWM</u>										
	Course Designed By: Dr. S. P. Rajasingh and Dr. A. Thirumoorthi										
	9 Star History (Star										

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
CO1	S	La contraction de la contracti	М	L	M	М	L					
CO2	М	- Los	LISITE	໑ŗLഊ	L	М	М					
CO3	L	Μ	LAIS: TO	M	L	L	S					
CO4	S	М	S	L	М	М	L					
CO5	S	L	М	М	L	М	L					

Course code	43P	VOLUMETRIC AND ORGANIC ANALYSIS	L	Т	Р	С				
CORE PRA	ACTICAL	CORE VII - CHEMISTRY PRACTICAL II	-	-	3	4				
Dra raquisita	Bre requisite Basics Knowledge on Volumetric and			us	2010)-				
11e-requisite		Organic Reactions	Versio	n	2011	l				
Course Object	tives:									
The main objectives of this course are to:										
1. Inculcate the students how to skilfully handle the laboratory equipments, reagents, lab										
2 Impart the	first-hand kno	whedge and experience on estimation of an ion	acid a	nd h	ase h	oth				
2. http://directly.as	well as indire	ctly	, acia a	nu u	use o	oun				
3. Provide the	he student kr	nowledge on analysis of an unknown organ	ic sub	stand	e us	ing				
Preliminar	v and confirm	ation test and prepare a suitable derivative.	5000							
4. Make the	student skilful	enough and prepare for a position in an analyt	tical la	oorat	orv o	or a				
company.					5					
	-3									
Expected Cou	rse <mark>Outcome</mark> s									
On the successf	ful <mark>completio</mark> n	of the course, student will be able to:				1				
1 Estim	ate the amoun	t of ion present in the given solution through		K1	-K6					
volum	netri <mark>c analysis</mark>	both by direct and indirect method								
2 Find t	the groups/eler	nents and characters present in the given organic	2	K1	-K6					
substa	ance thro <mark>ugh q</mark>	ualitative analysis and prepare a suitable								
deriva	ative.	1 mansana 1								
K1 – Rememt	per; K2 – Und	erstand; K3 – Apply; K4 – Analyze; K5 – Evalu	ate; K	6 – 0	Ireate	;				
	0	14 miles	$\underline{\aleph}$							
Part I	50	VOLUMETRIC ANALYSIS	4	5 ho	urs					
A. Acidimetry&	&Alkalimetry:	Estimation of Na ₂ CO ₃								
B. Permangano	metry:									
1. Estin	nation of Ferro	us sulphate & Oxalic acid								
2. Estim	nation of Calci	um-Direct method.								
C. Dichrometry	: Estimation o	f Ferrous iron using internal indicator.								
D. Iodimetry:										
1. Estin	nation of K ₂ Cr	$_{2}O_{7}$								
2. Estin	nation of Copp	er.								
3. Estim	nation of As_2O	3.								
Part II		ORGANIC ANALYSIS	4	5 ho	urs					
Systematic ana	lysis of an org	ganic compound Preliminary tests, detection of	eleme	nts p	prese	nt,				
Aromatic or A	liphatic, Satur	ated or unsaturated, nature of the functional gr	oup, c	onfir	mato	ry				
tests and prepar	ration of derivation	atives.								
Substances - A	ldehydes, Ket	ones, Amines, Amides, Diamide, Carbohydrate	es, Pher	nols,	Acio	ls,				
Esters & Nitro	compounds.									
			T							
		Total Practical hours	90) ho	urs					

Text Book(s)
1 Basic Principles of Practical Chemistry, Kulandaivelu A.R., Veeraswamy R.Venkateswaran,
Sultan Chand & Sons, 2017.
2 Practical Chemistry, Pandey D.N., Sultan Chand Publishers, 2018
Reference Books
1 Vogel's Text book of Practical Organic Chemistry, Brian S. Furniss, Antony J.
Hannaford, Peter W. G. Smith, Fifth Edition, Bath Press, Great Britan, 1989
2 Vogel's Textbook of Quantitative Chemical Analysis, G H Jeffery, J Bassett, J
Mendham, R C Denney, Fifth Edition, Bath Press, Great Britan, 1989
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 <u>https://nptel.ac.in/courses/104/106/104106108/</u>
2 <u>https://www.youtube.com/watch?v=n4esSHxz_J8</u>
3 <u>http://www.chem.uwimona.edu.jm/lab_manuals/c10expt25.html/</u>
4 <u>https://www.youtube.com/watch?v=7bmQkQW8bbs</u>
5 <u>https://www.youtube.com/watch?v=wRAo-M8xBHM</u>
Course Designed By: Dr. S. P. Rajasingh

Mapping with Programme Outcomes												
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
C <mark>O1</mark>	S	S	S	S	S	S	S					
C <mark>O2</mark>	S	S	S	S	S	S	S					
	14	40 D.*	MAN	r 1'	T							

CATE TO EL

யர்த்திட கேட் ட

Course	4ZB	TECHNOLOGY OF DYEING OF	L	Т	Р	С					
code	PS	NATURAL FIBERS	2			2					
Pre-req	uisite	Basic Knowledge in Fibers	in Fibers								
Course	Ohiectiv	es.	versi	on	201	11					
The mai	n objectiv	ves of this course are to:									
1. To impart knowledge and skill in career oriented with a special reference to dying textile											
industry.											
2. To hel	2. To help students to acquire additional knowledge of dyeing auxiliaries and methods used										
1n textile	industry.	an analysis of the second mathematican of the size									
5. 10 give	d Course	a Outcomest									
On the s	uccessful	completion of the course student will be able to:									
1 Stat	e the has	ic aspects of colour and dveing auxiliaries			к?	K4					
$\frac{1}{2}$ Out	line varic	he aspects of colour and dyoing dusinatios.			K2,	K3					
$\frac{2}{2}$ Dur	nonstrate	the process of agoic dyes and their applications	_		K2,	K3					
	uiro knor	uladas in yet dues and the presedures followed for dy	aina		K2,	к <u>ј</u> К2					
4 Acc		he properties and machanism of during particularly and	lfur		<u>Γ</u> 2,	, К. ј 174					
$5 \begin{bmatrix} Sun \\ and \end{bmatrix}$	acid dve	s	nur		кз, К5	" K 4,					
K1 - Rei	member;	K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Ev	aluate	; K6	- Cre	eate					
	<u> </u>		-								
Unit:1		Introduction to Dyeing	1.		6 h	ours					
Chromat Substant Effects of of direct with Cu	ivity, Ex of M:L ra dyes of SO ₄ , K ₂ C	Achromatic Colours – Classification of dyes. De chaustion, % Shade, Adsorption, Diffusion, Aggregatio, salt, time and temp. of dyeing. Properties of direct Cotton: Mechanism of dyeing. Stripping and Redye r_2O_7 and dye fixing agents.	d Seco finitio gation t dyes ing. A	n – Mig – Ar	Affi gratic plica	nity, nity, n – ation nent					
		Coimbatore	2								
Unit:2		Methods of Dyeing	_	1.0	<u>6 h</u>	ours					
Reactive dyes, bit cure, pac	e dyes – fuctional l-silicate	properties, Cold Brand, Hot Brand, Vinyl sulphone dyes, Mechanism of dyeing. Exhaust dyeing, pad-bat Methods. Stripping and redyeing.	dyes, ch, pa	LS o ad-ste	dyes, eam,	HE pad-					
IInit.3		Nonthols and Fast Bases			6 h	ours					
Naphtho	ls and Fa	ast Bases: properties and application – Diazotisation	and c	oupli	ng. I	Brief					
study on	dissolut	ion (classification of naphthols, cold and hot dissolution	on m	ethod	s). B	ases					
– direct	and indir	rect method of diazotization. Application procedure o	f any	one 1	napht	hols					
and base	using Ji	gger and pad-dry-develop method. Stripping and Redy	eing.								
Unit:4		Vat Dyes			6 h	ours					
Types of	Vat dyes	. Details of vatting, dyeing, oxidation and soaping. A	pplica	tion	proce	dure:					
Leuco vat, vat acid – pigment padding – pad steam process. Merits and demerits of above methods. Dueing of varn with vat dues by conventional method											

Ur	nit:5	Properties and Application of Dyes	Properties and Application of Dyes 6 hours									
Brie	ef study	- solubilised vat dyes - properties - advantages and disadvantage	es over vat dyes									
– a	pplicati	on – exhaust dyeing method. Sulphur dyes – Properties of S	Sulphur dyes –									
app	lication	Jigger and continuous dyeing defects. Bronziness and acid tender	ring – Stripping									
	<i>x</i> silk with basic dyes. Eco friendly sulphur dyeing Acid dyes. Properties classification of											
a s	& slik with basic dyes. Eco-irrendly support dyeing. Acid dyes – Properties, classification of dyes – leveling acid dyes – supermilling acid dyes – application to wool											
and	and silk Mechanism of dveing – Dveing of pylop with acid dves											
unu	51111 101											
		Total Lecture hours	30 hours									
Te	xt Bool	κ(s)										
1	Shenai	V.A., Technology of Textile Processing Vol. 1 and 2, Chemistry of	of Dyes and									
	Princip	ble of Dyeing Ed. 3, 1983, Sevak Publication, 306, Sri Hanuman In	dustrial									
	Estate,	GC Ambedkar Road, Wadala, Bombay 400 031.										
2	Chakra	avarthy RR and Trivedi S.S., Technology of Bleaching and Dyeing	of Textile									
	Fibre V	Vol 1, Part 1, <mark>1979, M</mark> ahajan Book Publi shres, Super <mark>market B</mark> asen	nent, Near									
	Natara	j Cinema, Ashram Road, Ahmedabad 380 009.										
3	Srivast	ava SB <mark>, Recent P</mark> rocess of Textile Bleaching, Dyeing and Finishig	<mark>,</mark> 1981, SB									
	Srivast	ava, S <mark>B P Board</mark> Consultant, S B P Buildings, 4/45 <mark>R</mark> oopnagar, D	<mark>el</mark> hi 110 007.									
Re	ference	Books										
1	Trotm	an E.R, Dyeing and Chemical Technology of Textile Fibre, Charles	s									
	Griffir	a & Co, 42, Dhury lane, Londan WC2										
2	Gokhl	e S.V. and Shah.R.C., Cotton Piece dyeing, 1981, Ahmedabad Te	xtile Industrial									
2	Resear	ch Assn. (ATIRA), PO Polytechnic, Ahmedabad 380 015.										
3	Prayag	R.S., The bleaching and deving of Cotton material 1983, Weaver	s Service									
	Cent.,	13A, Mamparamanand Marg, Near Roxy Chema, Bonday 400 00	45									
4	D.M. I	Lewis, Wool Dyeing, SDC Publications, UK.										
5	J.K.As	pland, Textile Dyeing and Colouration, AATCC Publications, USA	А.									
Rel	ated Or	nline Contents [MOOC, SWAYAM, NPTEL, Websites etc.]										
1	https://	/onlinecourses.swayam2.ac.in/cec19_te01/preview										
2	https://	/www.classcentral.com/course/swayam-textile-finishing-14326										
Col	Course Designed By: Dr. S. Rajalakshmi re to ELEVATE											

Mapping with Programme Outcomes											
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7				
CO1	S	S	S	S	S	S	S				
CO2	S	S	М	М	S	S	S				
CO3	S	М	S	М	S	S	S				
CO4	S	S	М	М	S	М	S				
CO5	S	S	М	M	M	М	S				
		*0 0.	111	с 1 ¹ т	т						



Cou	rse code	53A	INORGANIC CHEMISTRY - II	L	Т	Р	С			
	COR	E	Core VIII – Paper - VI	5	-	-	4			
Pre	-requisite)	Basics of Inorganic Chemistry	Sylla Versi	bus on	202 202	0- 1			
Cou	rse Objec	tives:			-					
The main objectives of this course are to:										
1. To	1. To acquire knowledge on nuclear reactions, reactivity of atom bomb and hydrogen bomb,									
the in	the importance of nuclear reactors in production of electricity.									
2. To	o describe	the structur	e of metals and alloys along with its classifications	and to	o imp	oart				
basic	s on semi	conductors	along with its uses.							
3. To	develop	chemistry k	nowledge on isotopes, the importance of radioactive	e com	poun	ids ir	1			
tood	preservati	on, archaeo	logical dating and medical diagnosis and treatment.							
4. 10	b study abo	out the conc	epts related to the coordination compounds.							
Expe	ected Cou	rse Outcon	nes:							
On	the succes	sful com <mark>ple</mark>	etion of the course, student will be able to:							
1	Rationali application	se the condons.	uctivity of metals, semiconductors along with its		K K	1, 2,K3	,			
2	Underste	nd the type	of nuclear reactions and its importance in congrat	ion	V	, 1 V)	-			
2	of electri	city.	s of nuclear reactions and its importance in general	1011		1,12				
3	Acquire of substance	enor <mark>mous k</mark> es.	nowledge on uses of isotopes and radioactive		K	1,K2				
4	Understa types of i	nd the term somerism p	s - ligand, chelate, coordination number and various possible in coordination compounds.	19	K.	3,K4				
5	Outline v understar	various theor nding on Cr	ries of coordination compounds and complete ystal Field and Valence Bond Theory.	0	K	2,K3				
K1	- Rememł	oer; K2 - Ui	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluat	e; K6	- Cre	eate				
			5. AV							
Uni	it:1		Metals and Solid Solutions		15	hou	irs			
Struc meta intrir	cture of me llic bond sic and ex	etals and all ing-electric atrinsic-thei	oys-substitutional and interstitial solid solution-Hu al, optical and mechanical properties of meta r uses. Super conductors-An elementary treatment.	me Ro ls-sen	other	y rat iduct	ios- ors,			
Uni	it•?		Radioactivity and Nuclear Reactions		15	hou	ire			
Δrt	u.⊿ ificial radi	o activity	Artificial transmutation of elements, synthesis of re	dio ic	uton	<u>- 1100</u>	<u>ութ</u> հ			
nuc	lear fissio	n and fusion	n. Nuclear reactors – principle of working – produc	ction	of el	ectri	cal			
ene	rgy – ator	nic projects	in India – Safety measures: disposal of reactor w	astes	- po	llutio	on.			
Nuc	clear react	ions, mecha	nisms and different types of stellar energy.		гJ		-			
Uni	it:3		Isotopes and Their Applications		15	hou	irs			
Nat	ure of iso	topes and	isobars – detection and isolation of isotopes – va	arious	met	hods	_			
imp	ortance of	t discovery	of istopes – uses of isotopes in various fields. Nu	clear :	stabi	lity r	ı/p			
rati	o, magic	numbers, (2-12 atomic weight scale, C-14 dating, mass de	etect a	and	nucle	ear			

bir	binding energies. Radioactive disintergration series.									
Ur	nit:4	Co-ordination Chemistry - I	15 hours							
Co	o-ordination	n chemistry – I Types of ligands, IUPAC Nomenclature, Isomer	ism - Ionisation,							
ny on	hydrate, linkage, ligand and coordination isomerism. Stereoisomerism-geometrical and									
W	erner's and	Sidgwick's EAN concept. Valence Bond theory – hybridizatio	on geometry and							
ma	ignetic prop	perties of $[Ni(CN)_4]^2$, $[NiCl_4]^2$, $[Fe(CN)_6]^4$, $[Co(NH_3)_6]^{3+}$ and $[CO(NH_3)_6]^{3+}$	$CoF_{6}]^{3-}$.							
Ur	nit:5	Co-ordination Chemistry - II	15 hours							
Li	mitations o	f valance bond theory, an elementary idea of crystal field the	ory, crystal field							
sp	litting in o	ctahedral, tetrahedral and square planner complexes, low sp	oin & high spin							
CO	mplexes, fa	ctors affecting the crystal-field parameters. Explanation of colo	our and magnetic							
pro	operties usi	ing CFT, comparison of VBT and CFT. A brief outline of	thermodynamics							
sta	bility of 1	metal complexes and factors affecting the stability, stabili	ty constants of							
co	mplexes an	a their determination, substitution feactions of square planar cor	inplexes.							
		Total Lecture hours	75 hours							
Та	vt Rook(s)									
1	Malik Wa	hid U. G.D. Tuli and R.D. Madan Selected Topics in Inorganic	Chemistry 7th							
-	ed., New I	Delh <mark>i S. Chan</mark> d& Company Ltd., 2007.	e chiefinistry, , en							
2	B. R. Puri	, L. R. Sharma, K. C. Kalia, Principles of Inorganic Chemistry, S	Shoban Lal							
	Nagin Cha	and and Co., Delhi, 1996.								
3	H. J. Arni	kar, Essentials of Nuclear Chemistry, 4th ed., New Age Internation	ional, New Delhi,							
	1995.		2							
Re	eference Bo	ooks	3							
1	J. E. Huhe	eev, E. A. Kieter and R. L. Keiter, Inorganic Chemistry, 4th ed.,	Harper Collins,							
	New York	s, 1993.	1 /							
2	F. A. Cott	on, G. Wilkinson, C. Murillo and M. Bochman, Advanced Inorg	ganic Chemistry,							
	6th ed., Jo	ohn Wiley, New York, 1999.								
Re	lated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1	https://npt	tel.ac.in/courses/104/105/104105033/areval								
2	https://ww	ww.encyclopedie-environnement.org/en/physics/radioactivity-an	d-nuclear-							
C	reactions/	mad By Dr S. D. Daissingh and Mr. C. Sudhakar								
U	Course Designed By: Dr. S. P. Rajasingh and Mr. C. Sudhakar									

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	Μ	S	Μ	S	Μ	S	S
CO2	М	Μ	Μ	Μ	S	S	М
CO3	S	М	S	М	S	М	М
CO4	М	М	S	S	S	М	М
CO5	S	S	М	М	S	М	S

Course code	Course code 53B SPECTROSCOPY L T								
COR	CORE CORE IX - PAPER VII				-	4			
Pre-requisite	•	Knowledge on basic structure and reactions of	Syllabus Varsion		202	.0- 1			
Course Object	Course Objectives:								
The main objectives of this course are to:									
1. Understand the basic concents and theory behind the principles of different exected sectors									
methods.									
2. Study the	2. Study the instrumentation and applications of UV-Visible. IR. Raman. NMR. Mass and								
ESR spect	troscopic te	chniques.							
3. Predict the	e structure (of organic compounds using IR, NMR and mass spec	etrome	etry.					
E	0.4	CONCOMPRU-							
Expected Cou	rse Outcor	nes:							
CO1 Coi		la des ef different electromenetie redictions, hesis e	~ ~ ~ ~ ~	4.0	V2	V2			
inst	rumentation	n and applications of UV-Visible spectra.	oncep	is,	K2, .	КJ			
CO2 Kno	ow differen	t types of vibrational frequencies, comparison betw	ween	IR	K2, 1	K3			
and	Raman spe	ctroscopy as well as their applications.	C ND	(D	170	170			
CO3 Stud	dy the bas ctro <mark>scopy p</mark>	ertaining to some simple organic compounds.	I NN	IR	К2, К4	К3,			
CO4 Acc	uire the	knowledge on the basic concepts, instrumentat	i <mark>o</mark> n a	nd	K2, 1	K3,			
app	licat <mark>ions</mark> as	sociated with ESR.			K4				
CO5 Und dete	lerstand the ermination	e different concepts of mass spectrometry along of molecular formula.	with t	he	K2 –	- K5			
K1 - Rememb	oer; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	; K6 -	Cre	ate				
	5	70	2						
Unit:1	40	Ultra Violet – Visible Spectroscopy	21	15	hou	Irs			
Spectroscopy: Absorption and Emission spectra – Fundamental concepts – Electromagnetic spectrum with relative energies in each region.									
Ultra Violet	– Visible S	Spectroscopy: Introduction – Beer–Lambert's law	– Inst	rume	ntati	on			
(block diagram) - Formation of absorption bands - Theory - Types of Electronic Transitions									
– Transition	probability	- The Chromophore and Auxochrome concepts -	-Abs	orpti	on a	nd			
Intensity shift	s (Bathoch	romic, hypsochromic, hyperchromic and hypochrom	1C Shi	fts) – tro	- Typ	bes			
	Danus – Fia	and condon principle – Applications of $0.0 - 0.000$	e spec	ua.					
11				15	1				
Unit:2 IR Spectroso	nonv· Prine	riple – Types of molecular vibrations – Vibration	nal fre	13	nou				
Factors affecting vibrational frequencies – Instrumentation (block diagrams with description									
of components) – Finger print region – Characteristic absorption bands of various functional									
groups – App	lications of	IR spectra.							
Raman Spec	tra: Theor	y - Comparison of IR and Raman spectra – Applic	cation	s of	Ram	an			
Spectra.	Spectra.								

Uı	nit:3	15 hours							
Intr	Introduction and basic principles - Spin - Spin relaxation, Spin - lattice relaxation -								
Instrumentation (Block diagram) - Chemical shift - Importance of TMS - Factors influencing									
chemical shift – Shielding and deshielding effects – Number of signals – Applications of NMR									
to s	to simple molecules like Ethyl alcohol (Pure and Impure), Toluene, Phenol, Acetaldehyde and								
Die	Diethyl ether.								
Uı	nit:4	ESR Spectroscopy	15 hours						
Ba	sic Principl	e – The g factor – Hyperfine splitting – Instrumentation – Appl	ications to methyl						
rac	lical and Na	aphthalene negative ion.							
T I-	• • • • =	Mars Constant of the	15 h						
	<u>iit:5</u>		15 nours						
Ba	sic Princip	les – Theory – The molecular ion – Determination of mol	ecular formula –						
M	cLatterty re	arrangement – Metastable peaks – Nitrogen fule – Retro Diels -	-Alder reaction.						
		Total Lasture hours	75 hours						
		Total Lecture nours	75 Hours						
Te	ext Book(s)								
1	Elementar	y Organic Spectroscopy (Principles and chemical applications)) – Y.R.Sharma, S.						
	Chand & C	Company Ltd. Publications, Fifth revised Edn, 2017.							
2	Organic S	spectroscopy (Principles and Applications) – Jag Mohan, 1	Narosa Publishing						
	House, See	cond Edn, 2012.							
Reference Books									
1	Spectrosco	ppy of Organic compounds – P.S. Kalsi, New Age Internation	al Ltd. Publishers,						
	Sixth Edn. 2005.								
2	Analytical	Chemistry (Theory and Practice) – U.N. Dash, S. Chand	& Sons, Second						
_	Edition 2005								
Related Online Contents MOOC SWAVAM NPTEL Websites etc.]									
1	https://nc	llijtkgp.ac.in							
2	https://nr	otel.ac.in/course.html 25/1/11001 2-11191							
3	3 https://ocw.mit.edu/								
	https://www.oercommons.org/advanced-search								
Co	Course Designed By: Dr. A. Thirumoorthi								

Mapping with Programme Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7		
CO1	Μ	S	S	Μ	М	S	М		
CO2	Μ	S	S	S	М	S	S		
CO3	S	S	Н	S	М	S	S		
CO4	Μ	Μ	Μ	М	L	М	М		
CO5	Μ	S	М	М	М	S	М		

Cour code	ourse ode 53C ELECTRO CHEMISTRY					Р	С			
CORE		RE	Core X – Paper VIII	5	-	-	4			
Pre-requisite			Higher Secondary Level Knowledge	Sylla Versi	abus 2016- sion 2017		l 6- l7			
Course Objectives:										
The	The main objectives of this course are to:									
 Make the students understand basic electrochemical principles Give them an insight into the types of storage cells & their applications Enable the student to understand the construction & working of different types of electrodes 										
Exp	ected	l Course	Outcomes:							
On t	he su	ccessful	completion of the course, student will be able to:							
1	Describe the principle of solubility product and relate the pH of a solution containing a mixture of the two components to the acid dissociation constant, Ka									
2	Un con	derstand the difference between metallic conductance & electrolytic K1,K2								
3	Recognize the different types of electrochemical cells and calculate the cell potential from standard cell potential K2,K3									
4	4 Distinguish between cells and use the Nernst equation for calculating EMF K1-K4 of a cell.									
5	5 Understand the working principles of fuel cells, storage cells and battery K2-K4 design.									
K1 -	Ren	nember; I	K2 - Understand; K3 - <mark>Apply; K4 - An</mark> alyze; K5 - Evalu	ate; K	6 - C	reate	;			
			to a state							
Unit	:1		Ionic Equilibrium		1	5 ho	ours			
Ionic Equilibria -Solubility and solubility product-determination of solubility product- Applications of solubility product principle. Dissociation of weak acids and bases-Dissociation constants-pH scale-common ion effect-buffer solutions- Determination of pH values of buffer mixtures-Henderson's equation-Hydrolysis of salts-Degree of hydrolysis.										
Unit:2Conductivity of Ions15 hours										
Electrical conduction, conduction in metals and in electrolytic solutions. Measurement of conductivity in electrolytic solutions. Migration of ions-Kohlrausch's law. Arrhenius theory of electrolytic dissociation-Ostwald's dilution law. Theory of strong electrolytes-Debye-Huckel-Onsagar theory (elementary account only) verification. Debye-Falkenhagen effect-Wien effect-Transport numbers-Determination. Conductometric titrations.										

B. Sc. Chemistry 2021-22 onwards - Affiliated Colleges - Annexure No.20(a) SCAA DATED: 23.06.2021

Ur	nit:3	Electrochemical Cells15 hours							
Electrochemical cells. Electrode potentials-The standard hydrogen electrode kinds of electrodes									
and their potentials-Nernst equation. EMF-computation and measurement of cell EMF. Single									
elec	trode	potential-Determination and significance of electrode potentials- el	ectro chemical						
5011	series- temperature dependence of the cen ENT- Thermodynamic quantities of cell feactions.								
Un	Unit:4 Electrode Potential								
Ref	erence	electrodes-Electrodes for measurement of pH-concentration cells with	th and without						
tran	sport-l	iquid junction potential-applications of EMF measurements. Redox p	otential-Redox						
1nd1	cators	uses. Potentiometric titrations.							
Ur	nit·5	Fuel and Storage Cells	15 hours						
		rudrogen ovygen cell and hydrogenhon ovygen cell. Storage cells	Load storage						
cel po	l and l tential	Nickel cadmium cell. Decomposition voltage-over voltage-Deposition	and discharge						
	Total Lecture hours 75 hours								
Te	xt Boo	k(s)	-						
1	1 B.R. Puri and L.R. Sharma, Principles of physical chemistry, Shoban Lal Nagin Chand and Co. 33rd edition, 1992.								
2	2 S.H. Maron and J.B. Lando, Fundamentals of physical chemistry, Macmillan limited, New York, 1966.								
Reference Books									
1 S.K. Dogra and S. Dogra, Physical chemistry through problems, New age international, 4th edition 1996.									
2	2 P.W. Atkins, Physical chemistry, Oxford university press, 1978								
3	3 K. L. Kapoor, A textbook of Physical chemistry, (volume-2 and 3) Macmillan, India Ltd, 1994.								
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1	https://chem.pg.edu.pl/documents/175289/4235721/Electrochemistry- supplement%20text.pdf								
2	2 <u>https://nptel.ac.in/courses/104/106/104106105/</u>								
3	3 https://nptel.ac.in/content/storage2/courses/103108100/module6/module6.pdf								
Cou	irse D	esigned By: Dr. N. Bhuvaneshwari							

Mapping with Programme Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7		
CO1	S	Μ	Μ	S	S	М	М		
CO2	Μ	S	Μ	S	S	L	М		
CO3	М	М	S	М	S	S	М		
CO4	S	S	Μ	М	М	S	S		
CO5	S	L	S	M	М	М	М		
Course code	53D	ANALYTICAL CHEMISTRY	L	Т	Р	С			
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CORE		Core XI – Paper IX	4	-	-	4			
Pre-requisi	te	Higher Secondary Level	Syllabus V	ersion	2009-	2010			
Course Obje	ectives:								
The main ob	ectives of this co	ourse are to:							
1. Underst	and the principles	s of various analytical technique	es and their a	pplication	18				
2. Analyze	e errors and perfor	rm various tests for analytical d	lata						
5. Outline	une concepts of g	ravimente methods în quantitat	live analysis						
On the succ	essful completion	n of the course, student will be	able to:						
	derstand the prin	ciples of various analytical t	techniques a	nd K	·2 K3				
thei	r applications	leipies of various analytical t	leeninques a		2, 113				
2 Eva	lluate different ty	pes of errors and correct them.	0	K	(1, K5				
3 Per	form vario <mark>us test</mark> s	s <mark>for set</mark> of analytical data	8.	K	3, K4				
4 Uno	derstand the theory	ry of quantitative analysis	3 6	K	1, K6				
5 Det	ermine an <mark>analyt</mark> e	e quantitatively using gravimet	ric methods	K	3, K5				
K1 - Remer	nber; <mark>K2 - Unde</mark> r	rstand; K3 - Apply; K4 - Analy	ze; K5 - Eva	luate <mark>;</mark> K6	6 - Create	<u>,</u>			
	95		3 50						
Unit:1		Analytical Techniques			12	hours 2			
Basic princip	oles and applicati	ons of Analytical techniques s	uch as Preci	<mark>pitatio</mark> n,	filtration	i, sample			
drying, trans	fer of precipitate	es, distillation, vacuum distilla	ation, fractio	nal disti	llation a	nd steam			
distillation. S	ublimation, cryst	amzation, fractional crystamza	and Ren	ractive if	laices.				
Unit:2		Data Analysis			12	2 hours			
Evaluation o	f Analytical data	: Accuracy and precision, meth	nods for their	express	ion, class	sification			
of errors, de	tection and corre	ection of determinate and ind	eterminate e	rrors. Th	ne norma	ıl law of			
Distribution	of Indeterminate	errors.		(S ^R)					
	29		6	<u>3</u> 2					
Unit:3	Statistic	cal Tests and Significant Figu	res		12	<u>hours</u>			
The F test an	nd the T test, rej	ection of data- the method of	least squares	, propag	ation of	errors in			
computation-	· significant figur	ES. SOLLITEOU PLATE							
Unit:4	Ouantit	ative Analysis and Chemical			12	2 hours			
Cint.+	Quantità	Equilibrium			14	nours			
Theory of Qu	antitative Analy	sis; Application of Chemical ec	uilibrium to	analytic	al separa	tions and			
estimations:	The equilibriun	n constants, activity coefficie	ents. Acid-E	ase equ	ilibria, s	solubility			
equilibria, di	stribution equili	bria, Complex ion equilibria a	and stability	constant	Separat	ions and			
estimations:	illustrated with ex	kamples.							
Unit.5		Provimatric Mathads			12	bours			
Theory of i	ndicators Theor	v of precipitation Co-precip	nitation Pos	t-precipi	tation t	heory of			
purifying th	e precipitates.	Acid-Base, redox. Complexe	ometric and	precipi	tation, T	itrations.			
Volumetric a	nalysis.	,p		r -r-r-					
		Total Lect	ure hours		60) hours			

Text	Book(s)
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1 Elements of Analytical Chemistry. R. Gopalan, Sultan Chand & Sons

Reference Books

1 Quantitative Chemical Analysis, A.I. Vogel.

2 Instrumental Methods of Analysis, Skoog.

3 Instrumental Methods of Analysis, Willard, Dean, Merrit and Settle, CBS.

த்ந்து இந்தப்பாரை

4 Vogel's Textbook of Quantitative Chemical Analysis, G H Jeffery, J Bassett, J Mendham, R C Denney, Fifth Edition, Bath Press, Great Britan, 1989

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

- 1 https://www.mobt3ath.com/uplode/book/book-19965.pdf
- 2 <u>https://chem.libretexts.org/Courses/University_of_California_Davis/UCD_Chem_105/Chapt_ers/5._Errors_in_chemical_analysis</u>

Course Designed By: Dr. S. P. Rajasingh and Dr. S. Sivakumar

Mapping with Programme Outcomes											
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7				
CO1	S	M		S	S	S	М				
CO2	S	М	M	S	S	М	S				
CO3	M	M	S	S	S	М	S				
CO <mark>4</mark>	S	S	S	М	S	М	S				
CO <mark>5</mark>	S	M	L	M	S	S	S				

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

ரத்திட கூட

Course	e 5ZC	WATER & EFFLUENT TREATMENT AND POLLUTION CONTROL	L	Т	Р	С				
cout	SBS	Skilled Based Subject – III	3	-	-	2				
Pre-1	equisite	Higher Secondary Level Chemistry	Sylla Versi	bus on	201 201	 .0- .1				
Cour	se Objecti	ves:								
The r	nain objecti	ves of this course are to:								
1. 0	Over view o	f impact of man on the environment								
2. I	2. Detail view of pollutions and water softening techniques									
3. D	escription a	bout water effluent treatment and pollution analysis techr	iques							
		(0) or or of (0)								
Expe	cted Cours	se Outcomes:								
On th	e successfu	l completion of the course, student will be able to:								
1	To underst	and urbanization and biodiversity along with environment	al		K1, I	<u>K2</u>				
	pollution.		_							
2	Acquires the	he knowledge about water pollution and water softening			K1,K	2,				
2	methods.		- 6		<u>K3, I</u> V2 V	<u>\</u>				
3	Importance	about water analysing methods along with determination	OI		K2,K V /	.3,				
4	Detail evol	anation of primary secondary and tertiary water treatmen	t		<u>к</u> 4, к2 к	~~~				
-	methods.	anation of primary, secondary and certary water readmen	L		K4.K	5				
5	Discuss ab	out effect of noise pollution along with brief study on mod	lern		K1,K	2,				
	methods for	or pollution analysis.			K4	,				
K1 -	Remember	K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K	6 - C	reate					
		2	S		/					
Unit	1	Sources of Pollution	<u>S</u>		6 h	ours				
Impac	t of man	on the Environment – an over view of Urbanization	on an	d Bi	odive	rsity.				
Enviro	nmental po	Illution – classification of pollution – Effect of industrial	efflue	ents –	a de	tailed				
study	of effluents	discharged by Soap and detergent manufacture industry a	nd Te	xtile	proce	ssing				
indust	ry (study 1	includes origin of effluent, important characteristic a	nd ge	neral	mou	le of				
Harmf	ul effects o	f water pollution and source of water pollution	g – w	ater	ponut	1011 –				
1141111	ui cilecto o	water portation and source of water portation.								
Unit	2	Water Pollution and Softening Methods			6 h	ours				
WHO,	ISO stand	lards for raw water criteria – A general study on raw	wate	r pol	lutior	and				
consec	juence of r	iver water pollution – Effluent discharge standards for	inlan	d sur	face	water				
public	sewers, or	a land for irrigation, marine coastal areas and drinking	water	para	mete	rs- A				
genera	l study on	boiler water requirements which includes problem cause	d by v	vater	and e	effect				
and fe	ed water re	quirements for low and medium pressure boilers and at a	pressu	re of	450 -	- 500				
psi. W	ater softeni	ng – study includes Cation Exchange softening, lime sod	a softe	ening	, soft	ening				
by Sec	uestering a	igents and De-inineralization with schematic diagram of	remov	al ol	carb	on ai				
UNICE	anu sinca.									

Ur	nit:3	Analysis Techniques for Water	6 hours					
Ren	noval	of colour and turbitity (simple Coagulation, Flocculation and Filtratic	on methods).					
Ger	neral st	tudy on removal of Iron and Manganese by Aeration, setting and filtrat	tion method-					
Wat	ter ana	lysis - colour, pH value, dissolved solids, suspended solids, total hardness	s (Calcium +					
Mag	gnessit	um). EDTA Titrimetric method, total iron- thiocyanate method, Deter	menation of					
Alk	alinity	by Titrimetric method - thiocyanate method, Determination of A	lkalinity by					
Titr	Titrimetric method- Datermination of chlorides by silver nitrate method- Determination of							
diss	olved	oxygen by iodimetry – Determination of BOD,COD TDS and Toxicity.						
Ur	nit:4	Water Treatment Methods	6 hours					
Effe	ect of	effluents - General treatment procedure parameters to be determine	d at Sizing,					
Des	izing,	Kier boiling, Bleaching, Mercerizing, Dyeing, Printing, Combined efflue	ent treatment					
of i	ndustr	ial of wastes- Brief study on Screening, Sedimentation, Equalization, No.	eutralization,					
Coa	gulatio	on, Secondary treatment – Tricking filtration Activated sludge proces	ss, oxidation					
pon	ds, An	naerobic Digestion, Tertiary treatment- Evaporation (solar & steam). Reve	erse osmosis,					
ion	exchai	nge, chemical precipitation and removal by Algae and activated carbon trea	atment.					
Ur	nit:5	Analysis Techniques for Pollution	6 hours					
Mo	del sch	nematic diagram for waste water treatment plant for textile mills-Primary	& secondary					
unit	s –Eff	ects of air pollution –Effects of Sulphur oxide on human health – Ambie	nt air quality					
stan	dards-	Noise pollution –ill effects of noise-Noise level in decibels. Brief study	y on modern					
met	hods t	for pollution analysis like molecular luminescence, BOD incubator, i	on exchange					
chro	omatog	graphy and HPLC.	-					
		A Manufacture De Territ St.						
		Total Lecture hours	30 hours					
R	eferen	ce Book(s)						
1	Envir	onment Pollution control Engineering by C.S.Rao, New age International	Ltd &					
	Publi	shers.						
2	Indu	strial safety & Pollution control Hand Book by National safety council and	Associate					
-	Data	Publisher Pyt Ltd	. Tibboonate					
3	Indus	trial Effluents by N Maniyasakam Sakthi Publications Coimbatore						
<u>J</u>	Wate	r used in Textile Processing by N. Maniyaskam, Sakthi Publications, Coin	hatore					
5	Tami	Inadu state publications and Hand book of pollution control – Central Boar	d of					
5	nollui	tion control	u OI					
6	Tevti	le Effluents hy Padma Varkar NCUTE Publications IIT Delbi						
7	Envir	conmental Chemistry and pollution Control SS Dhara S Chand & Co. De	lhi					
/ Q	Pollu	tion in Textile Industry K B Krishnakumar SCMITT Students Cooperativ	Ann.					
0	Kom	arapalayam	c 510168,					
Dr	lated	araparayann. Onling Contonts [MOOC_SWAVAM_NDTEL_Wabsites at a]						
1	https://	//nptel ac in/courses/105/104/105104102/						
	Ireo D	esigned Ry. Dr S P Rajasingh and Dr S Dajalakshmi						
UUL	ii se D	cəigiicu dy. di. d. i. Najasiligli allu di. d. Najalaksillili						

Mapping with Programme Outcomes											
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7				
CO1	S	S	S	М	S	S	S				
CO2	М	S	М	S	S	S	М				
CO3	S	М	S	S	S	М	М				
CO4	S	М	S	S	М	S	S				
CO5	S	S	М	S	S	S	S				





Course code	63A	ORGANIC CHEMISTRY - II	L	Т	Р	С		
COR	Е	CORE XII - PAPER X	5	-	-	4		
Pre-requisite		Knowledge on basic structure and reactions of simple organic compounds.	Sylla Versi	bus ion	202 - 202	20 21		
Course Object	tives:							
The main object	tives of thi	s course are to:						
 Underst Study th Acquire and pro Predict 	 Understand the optical activity of various molecules and their naming patterns. Study the mechanism of different rearrangement reactions. Acquire the knowledge on reactions and structures of heterocyclic compounds, amines and proteins. Predict the structure of natural products like vitamins, alkaloids, terpenoids and 							
harmon	es.							
Expected Cou	rse Outcon	nes:						
On the succes	sful comple	etion of the course, students will be able to:						
CO1 Gain	n the know their namir	reledge on different types of optically active molec in methods.	ules	K2, 1	K4,	K5		
CO2 Und reac	lerstand the tions with e	mechanisms of inter and intramolecular rearrangen examples.	nent	K2,	K4	(
CO3 Acq	uire the k	nowledge on the preparation, properties and uses	s of	K2,	K3			
CO4 Kno	w the cla	assification, structural elucidation and synthesis	of	K2.	K4.	K5		
terp	enoids and	vitamins.		- ,	,			
CO5 Und	lerstand the	e different types and structural elucidation of alkale	oids	K2,	K4,	K5		
K1 - Rememb	er; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate:	K6 -	Crea	te			
	- 30							
Unit:1	्र	Stereochemistry Contract Stereochemistry		15	hou	rs		
Optical activit	ty – Asymn	netric carbon – Racemisation – Resolution – Asymn	netric	synth	esis	, —		
D, L and R,S spiranes – Mo	notation. lecular ove	Optical activity due to restricted rotation in bipher rcrowding.	nyls, a	allene	es ai	nd		
		UNIC IU ELET						
Unit:2	(D' 1	Molecular Rearrangements		15	hou	rs		
Mechanism of	f Pinacol -	- Pinacolone rearrangement – Beckmann rearrangen	nent –	Hof	tmai	nn 14		
rearrangemen	t = Curul	us rearrangement – Benzinc acid rearrangement and Claisen rea	rrange	- S(:nm +	at		
Tearrangement	t – Lossen I	earrangement – Cope rearrangement and Claisen rea	mange	men	ι.			
					-			
Unit:3		Heterocyclic Compounds and Proteins	C	15	hou	rs		
Heterocyclic uses of Quino Proteins: Am physical prop	 Heterocyclic Compounds: Chemistry of Furan, Pyrrole, Thiophene, Pyridine – Synthesis and uses of Quinoline, Isoquinoline and Indole. Proteins: Amino acids – Classification – Peptide linkage – Proteins – Classification based on physical properties and biological functions – Primary, Secondary and Tertiary structure – Uses 							

Uı	nit:4	Terpenoids and Vitamins	15 hours						
Те	Terpenoids: Introduction - Classification - General methods of isolation - Isoprene rule-								
str	structural elucidation and synthesis of Geraniol, Terpineol and dipentene.								
Vi	tamins: In	troduction - Importance of vitamins - Structural elucidation	and synthesis of						
Re	tinol, Ribo	flavin and Ascorbic acid.							
Uı	nit:5	Alkaloids and Hormones	15 hours						
Al	kaloids: In	troduction – Classification and General Characteristics – Ge	neral methods of						
de	termining s	structures – Hoffmann's exhaustive methylation – Structural	l elucidation and						
sy:	nthesis of N	licotine, Piperine and Papaverin.	1 701						
Ha	armones: In	ntroduction – Structural elucidation and synthesis of Adrenaline	and Thyroxine.						
		Total Losture hours	75 hours						
		Total Lecture nours	75 nours						
Te	ext Book(s)								
1	Advanced	Organic Chemistry – B.S.Bahl and Arun Bahl, S.Chand & Co.,	2012.						
2	Organic C	hemistry, R.T.Morrison and R.N. Boyd, Pearson Education, Six	th Edn., 2002.						
3	Text book	Organic Chemistry, P.L. Soni, S.M. Chawla, Sultan Chand & S	Sons, 2007.						
-	<u> </u>								
Re	eference Bo	oks							
1	Organic C	hem <mark>istry – V</mark> ol. 1 and Vol. 2, I.L Finar, Pearson Education, Six	<mark>th</mark> Edn., 2006.						
2	Stereocher	nistry of Organic compounds, D. Nasipuri, New Age Inter	<mark>n</mark> ational (P) Ltd,						
	Second Ed	In., 2005.							
3	Stereocher	nistr <mark>y: Confor</mark> mation And Mechanism - P. S. Kalsi, New A	Age International						
	Private Lto	l., 2015							
		a lanen / à							
O	nline Refe	rences (Go to the following websites and search with the	specific topics /						
ke	ywords)	5. 70.	<u>S</u>						
1	https://nc	ll.iitkgp.ac.in/							
2	https://np	otel.ac.in/course.html							
3	https://oc	w.mit.edu/2							
4	https://w	ww.oercommons.org/advanced-search							
Co	ourse Desig	ned By: Dr. A. Thirumoorthi							
		For Former							

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7			
CO1	М	S	S	S	М	S	М			
CO2	L	М	М	S	L	S	S			
CO3	S	S	М	М	М	S	S			
CO4	S	M	S	S	M	S	S			
CO5	S	S	S	S	М	S	S			

Course code	63B	PHYSICAL CHEMISTRY II	L	Т	Р	С					
COF	RE	Core XIII – Paper XI	5	-	-	4					
Pre-requisit	e	Higher Secondary Level Chemistry	Sylla Versi	ous on	2010- 2011						
Course Objectives:-											
The main objectives of this course are to: 1. Impart knowledge on electrical and magnetic properties of molecules 2. Describe the order and molecularity of reaction and determination of order of reactions 3. Broad description of theoretical aspects and experimental techniques of kinetics of different types of reactions.											
Expected Course Outcomes:											
On the succe	essful comp	pletion of the course, student will be able to:									
1 Unders	stand the e	lectrical properties of molecules and its applicati	on		K1-I	K3					
2 Unders solving	stand magn g problem 1	etic properties of molecules and its application for structure determination	or		K1-F	K3					
3 Know determ	about the c ination of	order and molecularity of reaction and also order of reactions	Ā .		K2-I	Χ4					
4 Unders of reac	stand <mark>and</mark> le tions	earn the theoretical and experimental aspects of k	cinetic	S	K1-F	Χ4					
5 Gain d	etailed kno	wledge on photochemical and thermal reactions.	1		K1-F	K3					
K1 - Remem	ber; K2 - 1	Understand; K3 - Apply; K4 - Analyze; K5 - Eva	aluate	; K6 -	- Crea	ate					
	L	30		100							
Unit:1	6	Electrical Properties of Molecules		2 1	5 hou	ırs					
Electrical pro Distortion pol polar gases, molecules.	operties c larization liquids an	of molecules: Molar polarization, Orientatio polar and non-polar molecules. Determination d solids-Applications of dipole moment in t	n po of dip he stu	lariza olem idy c	tion omen of sin	and at of nple					
	.	EDUCATE SUNTE									
Unit:2		Magnetic Properties of Molecules		1	5 hou	ırs					
Magnetic properties of molecules; Meaning of the terms magnetic susceptibility, magnetic moment, diamagnetism, paramagnetism and ferromagnetism, Determination of magnetic susceptibility by Guoy's method. Application of magnetic properties in solving structural problems.											
T I 1 0											
Unit:3	Unit:3Order and Molecularity of Reactions15 hours										
Empirical law reactions- Set third order an Determination	s and expe ting up an nd zero or n of order o	erimental aspects.Rate laws, Stoichiometry, order d solving simple differential equation for first order reactions. Characteristics of I,II,III and Z of reactions.	and r order, ero o	nolec seco rder	ularit nd or reacti	y of der, ons.					

Ur	nit:4	Kinetics of Reaction	15 hours					
Ex ma Th co rea the	aperimenta anometry, neoretical a llision the actions. The e Absolute	I techniques involved in following kinetics of reaction polarimetry and colorimetry, typical examples for each of the aspects. Effect of temperature on rate constant. The activation ory of reaction rates and its limitation. Lindemann theory of the theory of Absolute reaction rates. Comparison of the collision reaction rate theory.	A. Volumetry, the techniques. In energy. The Sunimolecular on theory with					
Ur	nit:5	Photochemical Reactions	15 hours					
Th of Ph Co rea	Thermal chain reaction H_2/Br_2 reaction. Kinetics of photochemical reactions. Absorption of light and photochemical process. The Stark-Einstein law of photochemical equivalence. Photochemical chain reaction H_2/Br_2 reaction. Quantum yield of photochemical ractions. Comparison of thermal & photochemical kinetics of H_2/Br_2 reaction. Photosensitized reactions. Fluoresence, phosphorescence and chemiluminesence.							
		Total Lecture hours	75 hours					
Te	ext Book(s							
1	Principle Shobanl	es of Physical Chemistry, B.R.Puri, L.R.Sharma and M.S.Pl al Nagin Chand & Co	nathania,					
2	Essentia	ls of Physical Chemistry, B.S.bahl and G.D. Tuli,S. Chand & C	0					
3	Text boo	ok of physical Chemistry, P.L.Soni, Dharmarke; Sultan Chand &	z Son					
Re	eference B	ooks						
1	Physical	Chemistry, P.W.Atkins, Oxford						
2	Physical	Chemistry, R.A.Alberty, John. Wiley &Sons						
3	Element	s of physical Chemistry, S.Glasstone and D.Lewis, McMillan						
Re	elated Onl	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://a	rchive.org/details/2015.135344.ElementsOfPhysicalChemistryEd2nd	/page/n9/mod					
2	https://n	ptel.ac.in/content/storage2/courses/122101001/downloads/lec-2	6.pdf					
3	https://w	yww.youtube.com/watch?v=W8EblGNnMkg&t=5447s	2					
· ·								

Mappir	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
CO1	S	S	М	S	М	S	S					
CO2	М	S	S	М	S	S	S					
CO3	S	М	S	L	S	М	М					
CO4	S	S	L	S	М	S	S					
CO5	S	Μ	S	S	М	S	М					

Course code	63P	GRAVIMETRIC ANALYSIS AND	L	Т	Р	С
CORE PRAC	TICAL	CORE XIV - CHEMISTRY PRACTICAL III	+	_	7	4
Pre-requisite		Basics Knowledge on Analytical and Physical Chemistry	Physical Syllabus 201 Version 202			
Course Object	tives:		.1			
The main object	ctives of t	his course are to:				
 Make the through th Impart und Realize an chemical k 	students le measur derstandin d explore kinetics, p	to learn a technique to determine the amount of ement of mass. Ing about conductance of a solution by the addition or the fundamentals of basic physical chemistry experi- phase diagram and molecular weight determinations.	an ana remov ments,	alyte al of inclu	(cat ions uding	ion) ç
	-					
Expected Cou	rse Outc	omes:				
On the success	ful comp	etion of the course, student will be able to:				
1 Understa	nd the con	ncept of gravimetric analysis.		K	1-K6	5
2 Find a sui	itab <mark>le pr</mark> e	cipitation method and perform effective precipitation	to	K	1-K6	5
determine	e th <mark>e am</mark> o	unt of the cation.				1
3 Calculate	the cond	uctance of the solution at various stages of neutraliza	tion	K	2-K5	5
4 Determin	e the rate	and dissociate constant for a reaction		K	2-K 4	
5 Perform §	graphical	analysis to arrive experimental results based on the		K	1-K6	<u>,</u>
physical of	chemistry	experiments.				
K1 - Rememb	er; K2 -	Understand; K3 - Apply; K4 - Analyze; K5 - Evaluat	e; K6	- Cre	ate	
	5	70	R		7	
Part I	Sin	tered Crucible Based Gravimetric Analysis	2 4	5 ho	urs	
1. Estimation o	f Barium	as Barium Chromate.				
2. Estimation o	f Lead as	Lead Chromate.				
3. Estimation o	f Nickel	as Nickel Dimethy <mark>l Glyoxime.</mark>				
Part II	Si	lica Crucible Based Gravimetric Analysis	3	0 ho	urs	
1. Estimation o	f Sulphat	e as Barium Sulphate 11 00 2 2 2 2 2				
2. Estimation o	f Calciun	n as Calcium Oxalate E TO ELEVATE				
Part III		Conductometric Physical Experiments	4	5 ho	urs	
1. Conductome	tric titrat	ions, strong-acid-strong base.				
2. Conductome	tric titrati	ions, Weak-acid-strong base.				
3. Determination electrolyte.	on of cell	constant, specific conductivity and equivalent conductivity	ctivity	of st	rong	
Part IV		Physical Organic Experiments	3	0 ho	urs	
 Determination or Ethyl acet Determination 	on of rate (ate). (on of diss	constant of acid-catalysed hydrolysis of an ester (Me ociation constant of a weak acid (acetic acid).	thyl ac	etate	;	

Pa	rt V	Temperature Based Physical Experments	60 hours						
1. E	Determina	tion of Kf / molecular weight by Rast's macro method-Naphthale	ne, Diphenyl						
a	nd dipher	ylamine							
2. E	Determina	tion of critical solution temperature of Phenol-Water system.							
3. E	Effect of in	npurity (NaCl, /succinic acid) on CST.							
4. P	hase Diag	gram – Simple Eutectic system.							
5. E	Determina	tion of the transition temperature							
		Total Practical hours	210 hours						
Те	ext Book(s)							
1	Basic Pr	inciples of Practical Chemistry, Kulandaivelu A.R., Veeraswamy	/						
	R., Venk	ateswaran, Sultan Chand & Sons, 2017.							
2	Practical	Chemistry for B.Sc Chemistry, A.O. Thomas							
Re	eference l	Books							
1	Vogel's	Textbook of Quantitative Chemical Analysis, G H Jeffery, J Bas	ssett, J Mendham,						
	R C Der	ney, Fifth Edition, Bath Press, Great Britan, 1989							
2	Advance	ed Practical Physical Chemistry, Yadav J.B., Goel Publishing Hou	ıse, 2014.						
Re	elated On	line Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://w	vww.youtube.com/watch?v=6Kd0qIczD24							
2	https://w	<u>ww.youtube.com/watch?v=peMyqdJ57dA</u> (Estimation of Nickel							
3	https://w	ww.youtube.com/watch?v=-GS6uoFf3qQ (strong-acid-strong ba	se)						
4	https://w	<pre>www.youtube.com/watch?v=Dc4aUdADqY8 (week acid-strong backet)</pre>	ase)						
5	https://w	<u>ww.youtube.com/watch?v=xo1wNSZpE4w</u> (Kinetics of Ester Hyperbolic)	ydrolysis)						
6	https://w	<u>ww.youtube.com/watch?v=5oVnpYhmMVU (CST of Phenol-W</u>	ater System)						
7	7 <u>https://www.youtube.com/watch?v=2VzEpsEZOYo</u> (Rast's Macro Method)								
Cou	urse Desi	gned By: Dr. S. P. Rajasingh and Dr. A. Thirumoorthi							
		a Aller and a second							

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
CO1	S	S	S	S	S	S	S					
CO2	S	S	S	S	USPP	S	S					
CO3	M	S	SIL	S	M	S	M					
CO4	М	S	M	S	М	М	M					
CO5	М	S	М	S	S	Μ	Μ					

SUBJECTS Image: Subjective subjective subjectives: CORE YN - 3 4 Pre-requisite Basics Knowledge on Organic, Inorganic and Syllabus 2010- Version Course Objectives: The main objectives of this course are to: 1 Image: Status of the student to analyse a substance by finding their physical constants. 2. Impart knowledge to prepare various organometallic and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. 3. Make the students learn the technique of estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K1-K5 S O the estimation of Melting and Boiling Point 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 S	Course code	630	PRACTICAL FOR ELECTIVE	L	Т	Р	С	
CORE XV - - 3 4 Pre-requisite Basics Knowledge on Organic, Inorganic and Physical Chemistry Syllabus 2010- Version Course Objectives: The main objectives of this course are to: 1. Impart skills in the student to analyse a substance by finding their physical constants. 2. Impart knowledge to prepare various organometallic and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. 3. Make the students learn the technique of estimation of a substance using colour and light Expected Course Outcomes: On the successful complexion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K1-K5 S Colorimetric methods in the estimation of various salts and ions. K1-K5 Expected Course Courge same for the course substance. 1 Use the physical constants in the analysis of a substance. K1-K5 2 <td></td> <th></th> <td>SUSBJECTS CODE NV</td> <td></td> <td></td> <td>2</td> <th>4</th>			SUSBJECTS CODE NV			2	4	
Pre-requisite Datasets knowledge on Organic, morganic and Physical Chemistry Synabus Version 2010 Course Objectives: The main objectives of this course are to: 2011 2011 1. Impart skills in the student to analyse a substance by finding their physical constants. 2 2 2. Impart knowledge to prepare various organometallic and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. 3 Make the students learn the technique of estimation of a substance using colour and light Expected Course Outcomes: 0 <td>CORE PRAC</td> <th>TICAL</th> <td>CUKE AV Basics Knowledge on Organic Incorganic and</td> <td>• Svilah</td> <td>-</td> <td><u> </u></td> <th>4</th>	CORE PRAC	TICAL	CUKE AV Basics Knowledge on Organic Incorganic and	• Svilah	-	<u> </u>	4	
Course Objectives: Private Chemistry pression 2011 Course Objectives: The main objectives of this course are to: 1. Impart skills in the student to analyse a substance by finding their physical constants. 2. Impart knowledge to prepare various organometallic and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. 3. Make the students learn the technique of estimation of a substance using Complexometric titrations. 4. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of an organic substance. Fart I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. Part I Preparation of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III)	Pre-requisite		Basics Knowledge on Organic, inorganic and Division Chemistry	nd Synabus 2010 Nonsion 2011				
Conse Onjectives. The main objectives of this course are to: 1. Impart skills in the student to analyse a substance by finding their physical constants. 2. Impart knowledge to prepare various organometallic and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. 3. Make the students learn the technique of estimation of a substance using Complexometric titrations. 4. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K1-K5 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 State of Melting point/Boiling point of an organic substance. Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point of an organic substance. Part I Determination of Melting point of an organic substance	Course Object	ivog	r nysicai Chemistry	versi)11	201.	<u> </u>	
 Impart skills in the student to analyse a substance by finding their physical constants. Impart knowledge to prepare various organometallic and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. Make the students learn the technique of estimation of a substance using Complexometric titrations. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: Use the physical constants in the analysis of a substance. K1-K5	The main object	tives.	his course are to:					
 Impart skills in the student to analyse a substance by finding their physical constants. Impart knowledge to prepare various organometallic and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. Make the students learn the technique of estimation of a substance using Complexometric titrations. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: Use the physical constants in the analysis of a substance. K1-K5			ins course are to.					
 Impart showledge to prepare various organometallic and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. Make the students learn the technique of estimation of a substance using Complexometric titrations. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: Use the physical constants in the analysis of a substance. K1-K5 Prepare inorganic complexes K1-K6 Perform organic transformation involving substitution and oxidation reactions Use effectively the Complexometric method to estimate hardness of water Use effectively the Complexometric method to estimate hardness of water Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Part I Determination of Melting and Boiling Point 3 hours Determination of Inorganic Complexes Is hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) 	1 Impart ski	lls in the	student to analyse a substance by finding their physic	al cons	tant	s		
 2. Impart intowrenge to prepare various organometative and organic substances using complexation, oxidation, reduction, hydrolysis and other techniques. 3. Make the students learn the technique of estimation of a substance using Complexometric titrations. 4. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions 4 Use effectively the Complexometric method to estimate hardness of water 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. Part II Preparation of Inorganic Complexes (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) 	2 Impart ki	nowledge	to prepare various organometallic and organic		ance	5. 50 110	sing	
3. Make the students learn the technique of estimation of a substance using Complexometric tirations. 4. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: 0n the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. 2 Prepare inorganic complexes 3. Make the students in the estimation of various substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K1-K5 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. Part II Preparation of Inorganic Complexes (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) Colorimetric methods in floride IB hours (a) Tetrammine cobalt (II) chloride (b) Potassium Trioxalato chromate (III) (c) Prussian Blue	complexat	ion oxid	ation reduction hydrolysis and other techniques	5005	unet	u	,	
a. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. 2 Prepare inorganic complexes 3 Perform organic transformation involving substitution and oxidation reactions 4 Use effectively the Complexometric method to estimate hardness of water 5 Colorimetric methods in the estimation of various salts and ions. 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 Part I Determination of Melting and Boiling Point 18 hours 1. Determination of Inorganic Complexes (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato chromate (III)	3. Make the	students	learn the technique of estimation of a substance usi	ng Cor	nple	xome	etric	
4. Inculcate the knowledge and skills in the estimation of a substance using colour and light Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Part I Determination of Melting and Boiling Point 3. hours 1. Determination of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) 2 (c) Prussian Blue (d) Hexammine Cobalt (II) chloride 2 (e) Potassium Trioxalato Ferrate(III) 2 2	titrations.	stadents	four the teeningue of commutor of a substance ash				, un te	
Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - KE Part I Determination of Melting and Boiling Point 3 hours 18 hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) C) Prussian Blue I Hexammine Cobalt (II) chloride (c) Prussian Blue (d) Hexammine Cobalt (II) chloride Partal Proparation of Frate(III)	4. Inculcate t	the know	edge and skills in the estimation of a substance using	colou	and	light	t	
Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluat; K6 - Create Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. Part II Preparation of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III)								
On the successful completion of the course, student will be able to: Image: Strate of the strate of the course student will be able to: 1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Image: Strate of the complexes Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. Image: Strate of the str	Expected Cou	rse Outc	omes:					
1 Use the physical constants in the analysis of a substance. K1-K5 2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Part I Determination of Melting and Boiling Point 1. Determination of Melting point/Boiling point of an organic substance. I8 hours Part I Preparation of Inorganic Complexes (a) Tetrammine copper (II) sulphate I8 hours (b) Potassium Trioxalato chromate (III) C) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III)	On the success	ful comp	etion of the course, student will be able to:					
2 Prepare inorganic complexes K1-K6 3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Part I Determination of Melting and Boiling Point 1. Determination of Melting point/Boiling point of an organic substance. Part I Part I Preparation of Inorganic Complexes (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III)	1 Use th	e physica	l constants in the analysis of a substance.		K1	-K5		
3 Perform organic transformation involving substitution and oxidation reactions K1-K5 4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Part I Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. Part II Preparation of Inorganic Complexes (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) 18 hours (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) Part II Part II (Preparation Of PrepareIII)	2 Prepar	e in <mark>orga</mark> n	ic complexes		K1	-K6		
Image: section	3 Perfor	m o <mark>rgan</mark> io	c transformation involving substitution and oxidation		K1	-K5	1	
4 Use effectively the Complexometric method to estimate hardness of water K2-K6 5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Velocity (K1 - Create) Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. Part II Preparation of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) Velocity (II) chloride Velocity (II) chloride (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) Part II Part II (Cobalt (II) chloride	reactio	reactions						
5 Colorimetric methods in the estimation of various salts and ions. K1-K5 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. Part II Preparation of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III)	4 Use ef water	fectively	the Complexometric method to estimate hardness of		K2	-K6		
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. 3 hours Part II Preparation of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) 10 hours (c) Prussian Blue (d) Hexammine Cobalt (II) chloride 10 hours (e) Potassium Trioxalato Ferrate(III) 10 hours 10 hours	5 Colori	metric m	ethods in the estimation of various salts and ions.		K1	-K5		
Part I Determination of Melting and Boiling Point 3 hours 1. Determination of Melting point/Boiling point of an organic substance. 3 3 Part II Preparation of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate 10 10 (b) Potassium Trioxalato chromate (III) 10 10 (c) Prussian Blue 10 10 (d) Hexammine Cobalt (II) chloride 10 10 (e) Potassium Trioxalato Ferrate(III) 10 10	K1 - Rememb	er; K2 -	Understand; K3 - Apply; K4 - Analyze; K5 - Evaluat	e; K6 -	Cre	ate		
Part IDetermination of Melting and Boiling Point3 hours1. Determination of Melting point/Boiling point of an organic substance.Image: Substance of Melting point/Boiling point of an organic substance.Part IIPreparation of Inorganic Complexes18 hours(a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III)Image: Substance of Sub		E		E	/	1		
1. Determination of Melting point/Boiling point of an organic substance. Part II Preparation of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate 18 hours 18 hours (b) Potassium Trioxalato chromate (III) 10 hours 10 hours (c) Prussian Blue 10 hours 10 hours (d) Hexammine Cobalt (II) chloride 10 hours 10 hours (e) Potassium Trioxalato Ferrate(III) 10 hours 10 hours	Part I	No.	Determination of Melting and Boiling Point	\odot	3 hou	irs		
Part II Preparation of Inorganic Complexes 18 hours (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) (f) Full	1. Determination	on of Mel	ting <mark>point/Boiling point of an organic substan</mark> ce.	\$* /				
 (a) Tetrammine copper (II) sulphate (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) 	Part II		Preparation of Inorganic Complexes	1	8 ho	urs		
 (b) Potassium Trioxalato chromate (III) (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) 	(a) Tetr	ammine o	copper (II) sulphate Combature					
 (c) Prussian Blue (d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) / E TO ELEVATE 	(b) Pota	issium Tr	ioxalato chromate (III)					
(d) Hexammine Cobalt (II) chloride (e) Potassium Trioxalato Ferrate(III) / E TO ELEVATE	(c) Prus	sian Blue	SSLILLITCONT 2-WIPP					
(e) Potassium Trioxalato Ferrate(III) C IU ELEUR	(d) Hex	ammine	Cobalt (II) chloride					
	(e) Pota	ssium Tr	ioxalato Ferrate(III) 15 10 ELEU					
(f) Sodium Cuprous Thiosulphate.	(f) Sodi	um Cupr	ous Thiosulphate.					
Part III Organic Preparation 12 hours	Part III		Organic Preparation		<u>2 ho</u>	urs		
Preparation involving, Hydrolysis, Oxidation, Halogenation, Nitration and Benzoylation.	Preparation inv	olving, H	lydrolysis, Oxidation, Halogenation, Nitration and Be	enzoyla	tion			
Part IV Estimation Using EDTA Method 3 hours	Part IV	T 1	Estimation Using EDTA Method		5 hou	ırs		
Estimation of Hardness of Water using EDTA.	Estimation of F	lardness	of Water using EDTA.					
Part V Estimation Using Calorimetric Method 9 hours Coloring trip or prime and prime Needlar's tology 9 hours 9 hours	Part V		Estimation Using Calorimetric Method		hou /	irs		
Calorimetric experiments involving inessier's tubes. (a) Extination of Ea^{3+} with Ammonium this expenses	(a) Entimation	$f E^{3+}$	s involving inessier's tudes.					
(a) Extination of Fe With Annionium unocyanate.	(a) Extimation	of Ni col	Tui Animonium unocyanate.					
(c) Extination of Mn^{2+} in Potassium permanganate	(0) Extinution	of Mn^{2+} ;	n Dotassium permanganate					
Total Practical hours 45 hours			Total Practical hours	4	5 ho	nire		

-	
Te	ext Book(s)
1	Basic Principles of Practical Chemistry, Kulandaivelu A.R., Veeraswamy
	R., Venkateswaran, Sultan Chand & Sons, 2017.
2	Practical Chemistry, Pandey D.N., Sultan Chand Publishers, 2018
Re	eference Book
1	Vogel's Textbook of Quantitative Chemical Analysis, G H Jeffery, J Bassett, J
	Mendham, R C Denney, Fifth Edition, Bath Press, Great Britan, 1989
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://nptel.ac.in/courses/104/101/104101006/
2	https://nptel.ac.in/content/storage2/courses/104105033/Questions%20Answers%20Coordi
	nation.pdf
3	https://www.youtube.com/watch?v=EQxvY6a42Dw
4	https://www.youtube.com/watch?v=noUSORH5JWo
5	https://en.wikipedia.org/wiki/Colorimetric_analysis
Co	urse Designed By: Dr. K. Velumani

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7						
CO1	S	S	S	М	S	M	S						
CO2	S	S	S	S	S	S	S						
C <mark>O3</mark>	S	S	S	S	S	S	S						
CO4	S	S	S	S	S	М	S						
CO5	S	S	S	S	S	S	S						

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

1555 BI

गंक्की- दबाल





Course code	6ZP	TEXTILE CHEMISTRY PRACTICAL	L	Т	Р	С				
SKILL BASE	D SUBJECT	TEXTILE CHEMISTRY PAPER – IV	-	-	2	3				
	Pro requisito Knowledge of Higher Secondary Level Syllabus					5-				
Pre-requisite	and Dye Chemistry Version 2016									
Course Objec	tives:									
The main object	ctives of this co	ourse are to:								
1 I		de statute statute in her dive telescore enviro				4 -				
1. Impart ski	llis and knowle	age to the students in handling laboratory equip	ment a	ina re		its and				
2. Make the	c techniques fo	r industrial use	illty u	sing	рп	and				
3 Impart ski	ills in the estim	ation of various industrial substances								
4. Impart kn	owledge in the	preparation of various industrial dyes and dyeir	ng.							
			-0.							
Expected Cou	rse Out <mark>comes</mark>									
On the success	ful completion	of the course, student will be able to:								
1 Anal	yze the quality	of water for industrial use as well as various		K1	-K6					
subst	ances of indust	rial use								
2 Learr	n th <mark>e various m</mark>	ethods of dye preparation and dyeing.		K1	-K6					
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create										
Part I		Analysis	1	5 ho	urs					
1. Estimation of pH- paper, digital pH meter, pH solution										
2. Volumetric a	analysis of Sodi	um Nitrite								
3. Estimation of	f available chlo	rine in bleaching powder	19							
4. Analysis of a	cidity of water	by Volumetry	a l		7					
5. Analysis of a	lkalinity of wat	er by Volumetry	5							
Dowt II	0	Propagation of Dyos	1	5 ho	1180					
1 Methyl Red	200 (St	Treparation of Dyes	1	5 110	urs					
2. Malachite G	reen	Star in All								
3. Methyl Oran	ge	Solin moon o WINDP								
4. Para nitro be	nzene azo beta	naphthol DUCATE TO ELEVATE								
5. Azo amino b	enzene.	SOATE TO ELETT								
		Total Practical hours	3	0 ho	ours					
Text Book(s)										
1 Elementar	y Idea of Texti	le Dyeing, Printing and Finishing" Kanwar Var	inder P	al Si	ngh,					
Kalyani P	ublishers, 2009									
2 Instrumen	tal Methods of	chemical Analysis, B.K Sharma, 2014								
3 The Comp	plete Technolog	gy Book on Dyes & Dye Intermediates by Natio	nal Ins	stitute	e of					
Industrial	Research, 2004									
Reference Bo	ooks									
1 Handbook	c of Water Ana	lysis, 3 rd Edition by Nollet, Taylor and Francis,	2013.		<u>.</u>					
2 Vogel's te	xt book of qua	ntitative Chemical Analysis, Sixth edition- J Me	ndham	, R (2					
Denney, J	D Barnes, M J	K Thomas, Pearson Eduction Publshers, 2009.								

Re	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://nptel.ac.in/content/storage2/courses/105101010/downloads/Lecture27.pdf						
2	https://en.wikipedia.org/wiki/Analysis_of_water_chemistry						
3	https://www.youtube.com/watch?v=cNiRWfMjQMU						
4	https://nptel.ac.in/courses/103/107/103107081/						
5	https://study.com/academy/lesson/chemicals-dyes-used-in-the-textile-industry.html						
Cou	Course Designed By: Dr. S. P. Rajasingh						

Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7				
CO1	S	S	S	S	S	S	S				
CO2	S	S	S	S	S	S	S				

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





Course code	5EA	POLYMER CHEMISTRY	L	Т	Р	С
ELECT	ΓIVE	Elective – I (A)	4			4
Pre-requisite)	Higher Secondary Level Chemistry	Syllabus 201 Version 202			
Course Obje	ctives:			-	-	
The main obje	ectives of th	is course are to:				
 To unders To learn a properties To study commerci 	tand the typ bout the dif of polymen the molect ally importa	bes, nature and the various methods of preparation por Efferent types of polymerisation reaction mechanism, rs. pular weight determination methods, preparation ant polymers.	olyme bondi and J	rs. ng ar prope	nd erties	of
Expected Co	urse Ou <mark>tco</mark>	mes:				
On the succes	sful comple	etion of the course, student will be able to:				
1 Classify example correct	Polymers e. Understa method of p	based on their origin, mechanism of formation, nd the methods of preparation process and apply preparation for a particular polymer.	citing the -]	K1-K	3
2 Analyze	e the reaction	n mechanisms of polymerization.			K1,K	4
3 Underst polymer	and <mark>the rela</mark> rs.	tion between the bond forces and structural properties	<mark>e</mark> s of]	K2,K	4
4 Underst applying	and the pring them to ca	nciples behind the molecular determination methods alculate the different molecular weights of polymers.	and	1	K2,K	.4
5 Explain Industria	the basic pa al Applicati	reparation methods and have a good knowledge on the one of Polymers.	he	1	K2,K	3
K1 - Rememb	oer; K2 - U1	nd <mark>estand; K3 - Apply; K4 - Analyze; K5 -</mark> Evaluate;	K6 -	Crea	te	
Unit:1		Classification and Preparation of Polymers		12	hou	rs
 Classificati Addition Pol Methods Of 	on Of Poly lymers, Cor Preparation	mers-Natural Polymers And Synthetic Polymers. Syndensation Polymers. Of Polymers-Bulk, Solution, Suspension And Emu	nthetic lsion	e Pol	ymer	S-
Unit.?		Types of Polymerization		12	hou	re
Different Tvr	bes Of Pol	vmerization-Step Growth Polymerization Addition	n Pol	vmer	izatio	<u>13</u> 01
And Co-Poly	merization -	Random, Alternate, Block And Graft Polymerization	n.		12uti	
Unit:3		Properties of Polymers		12	hou	rs
Primary And Relationship i) Mechanical Resistance iv)	Secondary Properties Chemical	ii) Thermal Stability-Glass Transition Temperature i Resistance v) Degradability vi) Electrical Conductiv	ire Pro iii) Fla ity	operty	y	- 13

Unit:4	Determination of Molecular Weight Methods	12 hours								
Molecular Wei	Molecular Weight Of Polymers-Number Average And Weight Average Molecular Weight									
Methods.		C								
Number Average Molecular Weight Methods.										
1. Osmometry (membrane) 2. Cryoscopy & Ebullioscopy 3. Osmometry (Vapour										
pressure)										
4. VISCO	metry 5. End Group Analysis.									
weight Averag	e Molecular weight Methods.									
1. Ligiti Molecular we	ight distribution									
Unit:5	Industrial Polymers	12 hours								
Important ind	ustrial polymers, preparation and applications of									
i) Polyethyler	e, polypropy <mark>lene ii) Polyamides iii) Polyvinyl chloride</mark> and									
polymethylm	polymethylmethacrylate									
iv) Polyesters	and polycarbonates v) Polyurethanes vi) Phenol-formaldehyde and	l melamine-								
formaldehyde	vii) Polysilanes and polysiloxanes viii) Polyaniline									
	Total Lasture hours	60 hours								
	I otal Lectul e nours	00 110015								
Text Book(s)		•								
I Polymer	Science - V R Gowariker; N V Viswanathan; Jayadev Sreedhar - No	ew Age								
Internatio	5111 - 2005									
Reference Bo	ooks									
1 Polymer	chemistry an introduction-M P Stevens Oxford-1990									
2 Textbool	of polymer Science-FW Billmeyer, Wiley-1984.									
Related Onlin	e Contents [MOOC_SWAYAM_NPTEL_Websites etc.]									
1 https://you	tu be/k RErdKwaAg									
2 https://you	itu.be/H1Y1oxO5eUA Colmbatore									
3 https://you	itu.be/7AWQvFr GLA									
Course Desig	Course Designed By: Dr. S. P. Rajasingh and Dr. K. Velumani									
<u> </u>	EDUcasta									

Mapping with Programme Outcomes									
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7		
CO1	S	М	L	S	S	S	М		
CO2	S	М	М	S	S	М	S		
CO3	М	М	S	S	S	М	S		
CO4	S	S	S	М	S	М	S		
CO5	S	М	L	М	S	S	S		

Course		AGRO INDUSTRIAL CHEMISTRY	L	Т	Р	С				
ELEC	CTIVE	Elective I (B)	4	-	-	3				
		Pagia Knowledge in Agriculture	Sylla	bus	201	.0-				
Pre-req	uisite	basic knowledge in Agriculture	Versi	on	201	1				
Course	Objecti	ves:								
The mai	in object	ives of this course are to:								
1. Let students know the sources of water for agriculture. Impart the knowledge of water and soil analysis.										
2. Incu	2. Inculcate the students about available fertilizers and pesticides and their role									
3. To d	lescribe t	he various stages of process in sugar production and starc	h fern	nenta	tion.					
4. Kno	owledge	on oil, fats and waxes and their contribution to day to day	life.							
E-maste	d Course	na Ourteannas								
On the s		l completion of the course student will be able to:								
$1 H_{\odot}$	ave know	vledge on the sources of water for agriculture and analysis	of		<u>k7-</u> k	74				
Wa	ater and	basics on waste water treatment	01		112-11					
2 Ac	cquires tl	h <mark>e knowled</mark> ge about soil, soil fertility and various paramet	ers		K1-K	5				
in	volved in	n evaluation of soil.								
3 De	escribe th	ne importance of nutrients, fertilizers and pesticides for pla	int		K2 –	K4				
	owin nderstand	the sources and production of sugar and uses of molasse	2		K1_K	6				
4 01 5 01	utling the	chemistry of oils, fats and wayes and their role in every	ov life		K1-K	6				
		e chemistry of ons, fats and waxes and their fole in everyd			N2-N	U				
K1 - Re	member	; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K	.6 - C	reate					
TI					12 1					
Sources of	of water	supply for agriculture. Hard and soft water. Water Soft	sis ening	met	hods	lime				
soda pro	cess. ph	osphate conditioning, permutit and ion-exchange proce	sses.	Wate	r ana	lvsis:				
determina	ation of	hardness of water, acidity, alkalinity, pH value, amount	of free	e CO	2, flu	oride				
content,	chloride	content and their estimation. Biological oxygen dema	nd (B	OD)	, chei	mical				
oxygen d	emand (COD), chlorine demand and their determinations. Recyclin	ng of v	water	•					
	1	EDUCATE								
Unit:2		Chemistry of soil-soil classification and soil analysis			12 ho	ours				
Definition	n of soils	s. Classification of soils. Properties of soils-physical prop	erties	and r	necha	inical				
analysis.	Structur	e and Texture. Soil water, soils air and soil temperature.	Chem	nical	prope	rties-				
soil mine	eral matt	er-soil colloids, ion-exchange reactions. Soil fertility an	d its (evalu	ation.	Soil				
organic r	natter ar	id their influence on soil properties – N ratio effects. So	II read	ctions	5. S01	I pH,				
Mr. & cul	lkalinity	, buttering of soils and its effects on the availability of N aid soils solinity acid & alkaling soils, their formation an	, P, K d raal	, Ca,	ing, I	I, AI,				
	ipnune a	ere. sons sammy, acre & arkanne sons- men formation an	u ieci	amat	1011.					
Unit:3		Fertilizers and Pesticides			12 ha	ours				
Fertilize	rs: 1. Ef	ffect of N.P.K. secondary nutrients and micro nutrients	on pl	ant g	rowth	and				
developm	nent.		I -	6						
2. Import	tance of	nitrogenous fertilizers. Nitrogen cycle and fixation of a	tmos	pherio	e nitro	ogen.				
principle and manufacture of ammonium nitrate, ammonium sulphate, and urea										

preparation, application and toxicity. Insect attractants and repellants-fluorine compounds, boron compounds, arsenic compounds, organomercuric compounds, DDT, BHC,2,4 –D compounds, pyridine compounds.
Unit:4 Chemistry of sugar and fermentation 12 hours
1 Details of manufacture of sucrose from case sugar-extraction of juice purification
concentration, crystallization, separation and refining of crystals, recovery of sucrose from
molasses. Manufacture of sucrose from beetroot. Estimation of sucrose and inversion sugar by
polarimetry, 2. Manufacture of alcohol from molasses and starch by fermentation process.
<u>Fannan - Jan - Fannan - Fan Fannan - Fannan - F</u>
Unit:5 OILS, fats and Waxes 12 hours
Classification of oils fats and waxes: distinction between oil, fats and waxes Hydrogenation of
oils-principle and manufacturing details. Definition and determination of soapanification value,
acid value, iodine value RM value and Hehner value and their signification. Elaidin test for oils.
Some common waxes like spermaceti, Bees wax, baybeery wax and their uses. Soap and its
manufacture; toilet and transparent soaps. Cleansing action of soap. Detergent.
Total Lecture hours 60 hours
Text Book(s)
1 Soil Chemistry – Shivanand Tolanur, CBS Publishers & Distributors 2 nd Edition, 2018.
Insecticides, Pesticides and Agro based Industries – R.C.Palful, K.Goel, R.K.Gupta
2 Industrial Chemistry-B.N Chakrabarty, Oxford & IBH Publishing Co, New Delhi, 1981
3 Industrial Chemistry-B.K.Sharma, GOEL Publishing House, 2000
Reference Book
1 Nature and properties of soils - Nyle C.Brandy, Ray R.Weil, Pearson Education India; 14 th
Edition, 2013.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 https://www.cdc.gov/healthywater/other/agricultural/index.html
2 http://nmsp.cals.cornell.edu/publications/NMSPLabManual2017.pdf
3 https://www.youtube.com/watch?v=R9J7pOU5FSg
https://webstor.srmist.edu.in/web_assets/srm_mainsite/files/2017/Oils-Fats-Waxes-
4 <u>https://webstor.srmist.edu.in/web_assets/srm_mainsite/files/2017/Oils-Fats-Waxes-Notes.pdf</u>

Mappi	Mapping with Programme Outcomes										
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7				
CO1	S	S	S	М	S	М	S				
CO2	S	М	М	S	S	S	S				
CO3	S	М	S	М	S	S	S				
CO4	S	S	S	S	S	S	S				
CO5	S	S	S	S	S	S	S				

Course code		PHARMACEUTICAL CHEMISTRY	L	Т	Р	С
ELEC	TIVE	Elective I (C)	4	-	-	3
Pre-req	uisite	Basic Knowledge in Chemistry and Biology	Sylla Versi	bus on	s 2010- 2011	
Course	Objectiv	ves:				
The main	n objecti	ves of this course are to:				
1. Give a 2. Outlin 3. Impar	an overv ne the str t knowle	iew on pharmaceutical chemistry and terminologies used a nucture and properties of molecules in biological systems edge about medicinally important compounds	in.			
4. Descr	ibe the r	ole of various drugs in cardiovascular				
Expecte	d Cours	e Outcomes:				
On the s	uccessfu	l completion of the course, student will be able to:				
1 Hav	ve knowl ical cher	edge on terminologies used in pharmaceuticals and their			K1, F	K2
2 Und sulf	lerstand	the chemistry and uses of alkaloids, analgesics, antibiotics	s and		K1,K K3. F	2, K4
3 Und	lerstand	how molecules play important role as medicine			K2,K K4,	3,
4 Hav dise	ve knowl eases	edge on bioinorganic chemistry and their role in various	1		K2,K K4,K	13, 15
5 Out rela	line the t ted disea	importance of drugs with special emphasize on cardiovasc	cular	~	K1,K K4	2,
K1 - Rei	member;	K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K	6 - C	reate	
			19		1	
Unit:1		Introduction to Pharmaceutical Chemistry	(S)		12 ho	ours
drug, ph pharmaco toxoids, p therapeuti 2. Route disadvant intraveno 3. Clinica serum or 4. First ai 5. Causes 6. Causes leprosy, ty 7. Indian	armacol poeia (I primary i ic index s of dr ages or us-intrat l chemis plasma of d to prev and syn s, sympt yphoid, i medicin	ogy, pharmacognosy, pharmacy, therapeutics, toxico 3P, IP, USP), National formulary, pharmacophore, back mmunization, additive effect, synergism, antagoinism, pla ug administration-local, enema, oral or external, part al and parental routes-inhalation, intradermal, subcutar hecal-intraarticular-transcutaneous-transmuscusal. stry-A Diagnostic test and one method of estimation biliru or urine. Biuret test for urea. vent bleeding and maintain breathing nptoms of food poisoning, botulism-mushroom and plant p oms and treatment of anemia, diabetis, tuberclosis, ast malaria, cholera and filarial. al plants and their importance. Spices and their medicinal	logy, teria, ubo, l ental-a neous, bin an poison hma, uses.	cher virus LD50 advan intra ad cho ing-f	ing to nothe vacco , ed50 itages amuso pleste	and cular, rol in d. piles,

Unit:2	Alkaloids, Analgesics, Antibiotics and Sulfonamides	12 hours
1. Alkaloi	ds- definition-general methods of isolation-colour tests for identific	ation-source,
isolation, s	tructure and use of atropine-source, extraction, structure, SAR and uses	of morphine
and quinin	е.	

2. Analgesics-definition different types of pain (superficial, deep non visceral, visceral, referred and pshycogeneic), classification – morphine and its derivatives. Synthesis assay and uses of pethidine and methadone-antipyretic analgesics-salicylic acid derivatives-paracetamol, phenacetin-propanoic acid derivative-Ibuprofen.

3. Antibiotics: definition –microbial synthesis structure, assay and uses of chloramphenicol and pencilin-structure and use of streptomycin and tetracyclines.

4. Sulphanonamides: Definition-mechanism of action-classification-SAR- synthesis and use of sulpha acetamide, sulpnathiazole, phthalyl sulphathiazole- sulphadiazine and sulpha pyridine-assay.

Unit:3

Molecules to Medicine

12 hours

1. Antiseptics and disinfectants: Definition and distinction- phenol coefficient- examplesphenolic compounds, dyes, cationic surfacts and chloro compounds. Tranquilizers-definition and examples. Psychodelic drugs LSD and marijuana.

2. Anaesthetics – Definition –Classification –volatile anaesthetics (N_2O , ethers, halohydrocarbons, chloroform, haloethane)-ferguson principle –intravenous anaesthetics-structure of thiopental sodium-local anaesthetic cocaine-source and structure – preparation and uses of procaine orthocaine and benzocaine.

3. Vitamins-Definition-classification, sources and deficiency diseases of vitamins A,B,C,D,E and K. Importance of vitamin A in vision (rhodopsin cycle).

4. Definition of cancer and antineoplastic drugs-examples antimetabolite, natural substances harmones, alkylating agents, inorganic complexes and other compounds-definition of hypoglycemic drugs-types and cause for diabetics-examples (Sulphonyl ureas and biguanides)

Unit:4

Medicinally Important Compounds

12 hours

1. Medicinally important compounds of Al₂P₂As, Hg and Fe. Uses of the following MgSO₄ 7H₂O, milk of magnesia, magnesium trisilicate-Aluminium hydroxide gel, dihydroxy aluminium amino acetate, Aluminium acetate and aluminium monostearate-paroxon-phosphorine, cyclophosphosphomide-tricyclophos-preparation and use of thiotepa-sodium and copper cacodylates-preparation and uses of aromatic aresericals (carbosone, triparasomide, acetarsonide, neoarsphenamine, oxophenarisince)- HgCl₂, Hgl₂ and Hg(CN)₂ as disinfectations-importance of organic mercury compounds-structure and uses of thiomersal, netromersal merbromine and mersalyl acid-Ferous gluconate, FeSO₄, scale preparation (ferric ammonium acetate), ferrous fumarate, ferrous succinate and ferrous chlorinate.

2. Organic pharmaceutical aids-Definition-agents for kidney function (aminophippuric acid)liver function (sulphobrophthalein sodium, rose Bengal)-corneal ulcer detection (Fluoescein sodium)-Blood volume determination (Evans Blue) pituitary function (metyrapone)-ointment bases-preservatives-antioxidants-sequeshants, colouring, sweetening, flavouring, emulsifying and stabilizing agents.

3. AIDS-cause HIV-prepagation-prevention and treatment.

U	nit:5	Cardiovascular and related drugs	12 hours						
1. E	1. Blood-composition-grouping-Rh factor-buffers in blood-Functions of plasma proteins-clotting								
mee	mechanism-blood pressure. 2. Coagulants and anticoagulants-definitions and examples. 3.								
Ant	Antianemic drugs (iron, vitamin B12, folic acid). 4. Cardiovascular drugs : definition and names								
of o	of drugs for each of the following - antiarrythmic drugs - antihypertensive drugs-antianginal								
age	nts-vasod	ilators-lipid lowering agents-sclerosing agents							
		Total Lecture hours	60 hours						
Tex	kt Book(s								
1	Pharmac	ceutical Chemistry by S. Lakshmi, Sultan Chand & Sons, 2nd ed (1998)).						
2	Pharmac	colgy and pharmatherapeutics, Vol.1 & 2, R.S. Satoskar and S.D. Bhan	darkar 11th						
	Ed, Pop	ular prakashan, Mumbai, 1 <mark>989.</mark>							
3	Bentleys	s, Text book of ph <mark>armacutics, 8th Ed. E.A. Raubins, 1992</mark> , All India tra	veler book						
	sellers, I	Delhi.							
4	Medicin	al Chemistry, Ashutosh kar, New Age International, 1992.							
5	A text b	ook of pharmaceutical chemistry, Jayashree ghosh, S. Chand, 1997.							
Ref	erence B	ook(s)							
1	From m	olecules to medicines-J.L.Sussman, P. Spadon, Springer; 2009 th edition	n.						
2	Organic	medicinal and pharmaceutical chemistry-J.M. Beale, J.H. Block, Wolt	ers Kluwer						
	India Pv	t. Ltd.; 12 th edition 2010.							
Re	elated On	lline Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://w	www.youtube.com/watch?v=jN34FZJU							
2	https://w	www.youtube.com/watch?v=Wn33DQhmLbg							
3	https://w	www.youtube.com/watch?v=9xSqezCMHnw							
		e anta la							
Cou	urse Desi	gned By: D <mark>r. M. Asaithambi</mark>							

Mapping with Programme Outcomes Cos **PO1 PO2 PO3 PO5 PO4** PO6 **CO1** Μ S S M Μ М **CO2** Μ Μ S Μ Μ S S CO3 S S Μ Μ L

M

SED

S

Μ

CO4

CO5

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

Μ

L

Μ

М

M

М

Μ

Μ

PO7

S

S

Μ

L

М

Course		LEATHER CHEMISTRY	L	Т	Р	С			
ELE	CTIVE	Elective II (A)	4	-	-	3			
Pre-re	Pre-requisite Higher Secondary Level Chemistry			Syllabus Version		2010- 2011			
Course	e Objectiv	ves:							
The main objectives of this course are to:									
1. To 2. Imj 3. Inc 4. Kn	 To understand the basics of skins, leather and their composition. Impart the principle involved in pre-tanning and structure and process of various tannings Inculcate the methods of curing hides and skins and process of dyeing leather Knowledge on the water pollution by tannery industry and it's effluent treatment 								
Expect	ted Cours	e Outcomes:							
On the	successfu	l completion of the course, student will be able to:							
1 Ui inv	nderstand volved in	the structure and composition of hides and skins and princ pre-tanning	iple		K1-K	3			
2 Ha	ave knowl operties	edge on various types of tanning and their physic-chemica	ıl		K2, F	Κ3			
3 In	terpret the	chemistry behind the chrome tanning process			K2-K	4			
4 Ai	halyze the eservation	process involved in curing of hides and skin and their			K1-K	54			
5 Ha	ave clear i	dea on sources of tannery effluents and their treatment			K2,K	13			
K1 - R	emember:	K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K	<u> 6 - C</u>	Create				
Unit:1 1. Hides skins. Pr (an elem 2. Basic involved	s, Skins,Le roteins an nentary co principle d in pre-ta	Hides, Skins and Leather eather-An elementary knowledge of the structure and comp d their characteristics, Anatomy and histology of protein c ncept).	positie onstit ing, b and de	on of uents ating	12 ho hides of lea , pic ling.	and ather kling			
Unit•?		Types of Natural and Synthetic Tannings			12 ha	mrs			
1. Types material principle 2. Synth	Unit:2Types of Natural and Synthetic Tannings12 hours1. Types of tanning-vegetable and mineral tanning, Different types of vegetable tanning- materials classification and chemistry of vegetable tanning. Factros and Physio-chemical principle involved in vegetable tanning, Fixation of vegetable tanning.12 hours2. Synthetic tannings-their classifications, general methods of manufacture and use.12 hours								
Init.3		Chemistry of Chrome Tanning			12. ha	mrs			
1. The p of chron complex process. merit ir vegetabl	The paration of the paration of the paratement of the paratement o	n and chemistry of chrome tanning liquids, Olation, Oxo s. Effect of adding tanning agents-Role of pH in the re- nide proteins. Factors governing chrome tanning-chemis urvey of chemistry of other tanning like Al, Zr and Te s with chrome tanning 2. Chemistry of combination of aldehydes, chrome and other mineral tanning agents.	lation eactio stry o alts a f tanr	and n of f neu nd th nages	hydro chror utraliz eir rel invo	olysis nium cation lative lving			

Uı	nit:4	Preservation of Hides and Skins and Leather Dyeing	12 hours						
1.0	1. Chemical methods of curing and preservation of hides and skins in acid and alkaline solution.								
2. Principles of analytical methods employed in curing, liming, deliming, bating, pickling.									
Ana	Analysis of vegetable tanning materials and extract.								
3. P	3. Process of dyeing leather-Use of mordants, dyeing auxillaries such as leveling, wetting and								
disp	dispersing agents-Dye fixations.								
Uı	nit:5	Source and Treatment of Tannery Effluents	12 hours						
1. A	Animal	bye-products-their collection, handing and preservation methods (such as	s hair, blood,						
bon	ies, gla	nds, Kerationus materials and their utilization).							
2.]	Fanner	y effluents and treatment: Types of water pollution-physical, chemical,	physiological						
and	biolo	gical. Different types of tannery effluents and wastes-beam-house	waste-liquors-						
tanı	ning an	d finishing yard waste liquors, solid waste-origin and disposal.							
		Total Lecture hours	60 hours						
R	eferen	ce Book(s)							
1	Tanni Chem	ng Chemistry: The Science of Leather-A.D. Covington, W.R.Wise, Roya	l Society of						
2	Tanni	ng processes- A.C. Orthmann, Read Books Publishers, 2011.							
3	The C	Themistry of Leather manufacture- G.D. Mclaughlin, Read Books, 2011.	× 4						
4	Vege	table tanning materials- F.N. Howes, Butterworths Scientific Publications	2007						
	1080		., 2007.						
Re	elated	Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https:	//blog.walnutstudiolo.com/2019/04/25/kinds-of-leather-by-tanning-proce	ss-veg-tan-						
1	vs-ch	rome-tan/							
2	https:	//www.lowimpact.org/lowimpact-topic/skins-hides/							
3	https:	//envibrary.com/wastes-from-tannery-industries/							
Cou	urse D	esigned By: Mr. C. Sudhakar							

	29		Calmi	Laters .		60			
Mapping with Programme Outcomes									
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7		
CO1	Μ	M	5LISIT6	orM	S	М	S		
CO2	S	SEDU	CAM: TO	ELEVAT	M	S	М		
CO3	М	L	S	М	М	L	М		
CO4	L	М	М	L	М	М	S		
CO5	М	М	S	L	М	М	S		

Cour	se	CHEMISTRY OF PLANT BASED PRODUCTS	L	Т	Р	С				
E	LECTIVE	Elective II (B)	4	_	-	3				
		Basic Knowledge about Starch. Cellulose and	Svlla	bus	201	0-				
Pre	-requisite	Protein	Version 2011			1				
Cou	ırse Objecti	ves:	1							
The	main object	ives of this course are to:								
1. To	impart the	knowledge about structure and properties of starch, cellul	ose an	d prot	eins					
2. De	2. Describe the students the process involved in the manufacture of them and their applications									
3. To	inculcate th	e chemistry of various cellulose derivatives and their appl	ication	n in p	aper					
ine	dustry	00000 A								
-	(10									
Exp	bected Cour	se Outcomes:								
Un 1	the successi	il completion of the course, student will be able to:	<u> </u>		T74 T	T =				
1	of starch an	d their applications	tacture	•	K1-K	.5				
2	Identify the	sources, structure, properties and reactions of cellulose			K1,K K4	12,				
3	Describe th	e structure, Properties, manufacture and uses of proteins			K1-K	(5				
4	Give the str	ucture of derivatives of cellulose		1	K1-K	3				
5	Outline the	chemistry behind paper industry with special emphasis or			K1-K	36				
	cellulose	and the second of the second of the second s								
K1	- Remember	; K2 - Unde <mark>rstand; K3 - Apply; K4 - Analyze; K5</mark> - Evalu	iate; K	6 - C	reate					
			10	0						
Uni	it:1	Chemistry of Starch	G		12 ho	ours				
Struc	cture, physic	al and chemical properties. Manufacture and uses of unn	nodifie	ed and	1 moo	dified				
starc	h, dextrin, s	agar syrup, hydrolysis of starch to edible and industrial g	lucose	appl	icatio	ns of				
starc	h in textile s	izing and in termentation industries.								
Uni	t·2	Chemistry of Cellulose		-	12. h	ours				
Struc	ture physic	al and chemical properties general reactions, major	source	san	d use	es of				
cellu	lose, chemi	cal and enzymatic hydrolysis of cellulose. Statistics	and	econd	omics	and				
cellu	lose. Chemi	stry of minor products of wood like lignin, pentosans,	resins	etc,	labor	atory				
prepa	aration, man	ufacture and uses of chemical cellulose.								
Uni	it:3	Chemistry of proteins		1	<u>12 ho</u>	ours				
Struc	ture, Prope	rties, Major sources, technological uses, hydrolysis of	prote	ins a	nd pi	otein				
1501a	tes. Manufac	ture, Properties and uses of gelatin, casein, collagen, prote	ein 180	lates.						
Im	t•4	Cellulose Derivativos			12 h	allre				
Celli	ulose nitrate	cellulose acetate ethyl and methyl cellulose sodiu	n cell	11050	sulr	hate				
sodiu	im, carboxv	, hydroxyl, methyl, cellulose, regenerated cellulose. m	ajor c	ellulo	se-pl	atics-				
sodiu	ım carboxy i	nethyl cellulose.	5		I					

Un	nit:5	Application of Cellulose	12 hours						
Diff	Different methods of pulping, manufacture and uses of different quality of paper products like								
card	card-board, newsprint, writing paper, tissue piper and filter paper. A short discussion of the								
poll	ution	problems and by-products utilization of industries based on starch of	cellulose and						
prot	eins.								
		Total Lecture hours	60 hours						
Tex	t Bool	x(s)							
1	Funda	amentals of Biochemistry-J.L.Jain, S.Jain, N.Jain, S Chand; Seventh editiv	on, 2016.						
2	Cellu	lose Derivatives: Synthesis, Structure, and Properties – T. Heinze, O.A.E.	Seoud, A.						
	Koscl	hella, Springer International Publishing, 2018.							
Ref	erence	e Book(s)							
1	Starch	n: Chemistry and Technology-J.N. BeMiller, R. L. Whistler, Academic Pr	ess; 3 rd						
	editio	n, 2009.							
2	Cellu	lose chemistry and its application-T.P.Nevell, Halsted Press, 1985.							
Re	lated	Online Cont <mark>ents [MOO</mark> C, SWAYAM, NPTEL, Websites etc.]							
1	https:	//starch.eu/starch/							
2	https:	//en.wikipedia.org/wiki/Cellulose							
3	https:	//www.youtube.com/watch?v=gDJ0QvtGjVE							
Cou	irse D	esigned By: Dr. M. Sivakumar and Mr. C. Shudhakar							
			· · · · · · · · · · · · · · · · · · ·						

Mappi	ng with I	Program	ne Outco	omes		191	
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C01	S	М	M	S	S	M	S
CO2	S	S	M	М	S	S	S
CO3	М	М	М	М	S	M	S
CO4	S	S	S	S	М	S	S
CO5	S	M	S	S	S	S	S

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

தந்து இந்தப்பாரை கான

Course code	6EC	DYE CHEMISTRY	L	Т	Р	С			
ELE	CTIVE	Elective II (C)	4	-	-	3			
Pre-requis	site	Knowledge on Structure of Organic Molecules	Syllal Versi	vllabus 2019- ersion 2020					
Course Ob	jectives:								
The main objectives of this course are to:									
 Outline the fundamentals of volumetric estimations Explain electrophilic and nucleophilic substitution reactions Describe the application of boron and silicate chemistry Discuss thermodynamics and solid state chemistry 									
		and differences							
Expected C	Course Outco	mes:							
On the suc	cessiul compl	etion of the course, student will be able to:				_			
1 Unde comp	erstand the print ound's struct	nciples of colour and its relation with are		K1	– K	5			
2 Anal appli	yze and classi cations	fy dyes based on their chemical structure and		K 1	– K .	3			
3 Desc appli	ribe the synthe	esis of di and triphenyl methane dyes and the	ir	K2	2, K3,	,			
4 Unde	erstand chemis	try of nitrogen containing dyes and their		K2	2, K3				
5 Outli	ne the import	ance of pigments in various fields		K1	- K4	1			
K1 - Reme	$\frac{1}{2} = \frac{1}{2}$	nderstand: K3 - Apply: K4 - Applyze: K5 - E	Tvaluat			ate			
IXI - IXCIIIC		nderstand, KS - Appry, K4 - Anaryze, K5 - 1	_varuat	, Ku					
Unit 1		Themistry and Theory of Colours		a) 1	2 ho	urs			
Colour and	constitution-I	Relationship of colour observed-to wave len	oth of	light	absor	rbed-			
Terms use	d in colour	chemistry-Chromophores, Auxochromes,	Batho	ochroi	nic	shift,			
Hypsochron	nic shift. Co	olour of a substance-Quinonoid theory a	nd m	olecul	ar o	rbital			
approach.	25/24	Coimbatore							
		Set - All							
Unit:2		Classification of Dyes		1	12 ho	ours			
Classification Acid dyes-I Nitro dyes-a	on of Dyes-ch Basic dyes. A and Nitroso dy	emical classification-classification according zoic dyes, mordant dyes, vat dyes, Sulphur yes process of dyeing (simple treatment).	to thei dyes,	ir app Dispe	lications di terreta d	ons- yes,			
Azo dyes-Principles governing azo coupling-mechanism of diazotization-Coupling with amines, coupling with phenols Classification according to the number of azo group & application-Tautomerism in azo dyes.									
I Init.3	Sur	thesis and Annlications of Dyos - I		1	2 ho	nire			
Synthesis, Xanthen ogreen, Para	reactions and lyes-acridine a-rosaniline, c	applications of Di and Triphenyl methane dyes-sulphur dyes. Phthalocyanines-Cyani rystal violet.	dyes-p ine dy	ohthal ves. N	ein dy	yes- hite			

Uni	i t:4	12 hours								
Azin	e, Oxaz	ine and Triazine Dyes. Synthesis and applications of quinone	oid dyes including							
vat d	yes base	ed on anthraquinone.								
Uni	it:5	Pigments and Their Applications	12 hours							
Requ	irement	ts of a pigment: Typical Organic and Inorganic pigments-app	plication and their							
uses	in pain	ts. Reaction of dyes with fibres and water-Fluorescent Br	rightening agents.							
Appl	ication	of dyes in other areas-medicine, chemical analysis, cos	metics, colouring							
agen	ts, food	and beverages.								
		Total Lecture hours	60 hours							
Tex	t Book	(s)								
1	Synthe	tic Dyes – G.R. Chatwal, Himalaya Publishing House, 2009.								
2	The ch	emistry of synthetic dyes Vol, I, II, III & IV - K.Venkatarama	an, Academic Press							
	N.Y., 1	1949.								
3	The Ha	and book of Synthetic Dyes and Pigments – K.M. Shah, Publi	sher Edutech,							
	2013.									
Ref	erence	Books								
1	The ch	emistry of synthetic dyes and pigments - H.A. Lubs, New Yo	ork, Hafner Pub.							
	Co., 19	965.								
2	Organ	ic chemistry Vol.I - I.L.Finar, Pearson India, 6 th edition, 2012								
3	Dyes a	nd Pigments: New Research – A.R. Lang, Nova Science Pub	lishers, Inc.; UK							
	ed. Ed	ition, 2013.								
Rel	ated O1	lline Contents [MOOC, SWAYAM, NPTEL, Websites etc	.]							
1	https://	/nptel.ac.in/courses/116/104/116104046/								
2	https://	/www.internetchemistry.com/chemistry/dye-chemistry.php								
Cou	ırse De	signed By: Dr. <mark>S. P. Rajasingh</mark>								
		୧.ଟ								

Mapping with Programme Outcomes									
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7		
CO1	S	S	SILE	DU S	S	S	S		
CO2	S	M	CAM: TO	M	S	S	М		
CO3	S	М	М	Μ	S	М	М		
CO4	S	М	М	М	S	М	S		
CO5	S	S	S	S	S	S	S		

Course	ANALYTICAL CHEMISTRY II-LAB TECHNIQUES	L	Т	Р	С				
ELECTIVE	Elective III (Group A)	4	-	-	3				
Due neguisite	Higher Secondery Level Chemistry	Sylla	bus	201	.0-				
Pre-requisite	Higher Secondary Level Chemistry	Versi	on	201	1				
Course Objecti	ves:								
The main object	ives of this course are to:								
 The students understand the basic principles and components of chromatography To inculcate the theory, instrumentation and applications of various spectrophotometry Introduce the theory, techniques and applications of polarimetry and electrochemical Methods Give an insight into synthesis and purification of some organic and inorganic compounds 									
	60 ⁶⁰								
Expected Cours	se Outcomes:								
On the successful	il completion of the course, student will be able to:			T74 T 7	- A				
1 Describe ti	he principles of various chromatography	1		KI-K	4				
2 Understand their applie	a the theory behind UV, IR and NMR spectrophotometry a cations.	and		К1-К	3				
3 Describe th	B Describe th <mark>e instrumentation of polarimetry because the second second</mark>								
4 Know the application	4 Know the various electrochemical methods of analysis and their applications								
5 Outline the inorganic of	e synthesis and purification steps of some of organic and compouds			K2, F	ζ3				
K1 - Remember	; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K	6 - C	reate					
		10	5						
Unit:1	Chromatography Chromatography	6		12 ho	ours				
Classification of phenomenon, nat Partition chromat	the chromatographic methods, principles of differential r ure of the adsorbent, solvent systems. Rf. Values. Colu ography, paper chromatography, TLC, -theory and technic	nigrat imn c jues.	ion, <i>1</i> hrom	Adsor atogra	ption aphy,				
	33 AV								
Unit:2	Spectroscopy	1 4		12 ho	ours				
spectrophotometr	y (iii) Flame Photometry (iv) NMR spectroscopy	opnot	omet	ry (li	I) IR				
Unit:3	Polarimetry			12 ha	mrs				
Theory, instrume	ntation, experimental procedure and application.								
Unit:4	Electrochemical Methods of Analysis			12 ha	ours				
Polarography, cy techniques and ap	clic voltametry, differential pulse polarography and pplications.	calori	metry	7: Th	eory,				
Preparation and r	urification of organic and inorganic compounds like (i).	Asniri	n fro	∎⊿ II(m sali					
acid (ii) Acetanil	ide from aniline (iii) Benzanilide from aniline (iv) iodofo benzene acetone (vi) Methyl orange/methyl red (vii)pre	orm fr	om e	thano Nvlc	ol/and on 66				

(viii) Caffine from tea leaves (ix) Caesin and lactose from milk (x) Nicotine and Nicotine sulphate (xi) Bakelite from phenol and From tobacco waste formaldehyde (xii)As₂ O₃ Sol, Fe (OH)₃ Sol (xiii) Tetrammine-copper sulphate (xiv) Tetrammine Cobalt carbonate (xv) Sodium thiosulphate and (xvi) Cuprous chloride dithionate

		Total Lecture hours	60 hours					
Tex	t Bo	ok(s)						
1	Vog	el's Text Book of Quantitative Chemical Analysis – J. Mendham, RC Denn	ley, JD					
	Barnes, M. Thomas, B. Sivasankar, Pearson Publishers 6 th edition 2009.							
Ref	eren	ce Book(s)						
1	Phy	sical methods for chemistry-R. <mark>S.Drago,</mark> W B Saunders Co Ltd; 2nd Revised	l edition,					
	199	2. 6)8508.						
2	Spe	ctroscopy in Inorganic chemistry-C.N.R Rao and JR Ferraro Academic Pres	s Inc, 1971.					
3	Fun	damentals of Analytical Chemistry - D.A.Skoog, D.M.West, S. Jose, F.J.Ho	oller					
	Cen	gage Learning, 2004						
4	Inst	rumental metho <mark>ds of C</mark> hemical Analysis-B.K. Sharma Krishna Prakashan M	ledia (P)					
	Ltd.	2014.						
Re	elated	l Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	http	s://www.youtube.com/watch?v=Zp-BHsdqsRw						
2	http	s://nptel.ac.in/courses/104/106/104106122/						
3	http	s://www.slideshare.net/SihamAbdallaha/electrochemical-method-of-analysi	<u>8-</u>					
5	<u>313</u>	52857						
	<u>http</u>	s://gtu.ge/Agro-						
4	Lib	Vogels_TEXTBOOK_OF_QUANTITATIVE_CHEMICAL_ANALYSIS_	<u>5th_ed</u>					
	G	H_Jeffery.MsuCity.pdf						
Car	11000	Designed Pry Dr. M. Sivelymen and Dr. A. Thinymeenthi	7 7					

Course Designed By: Dr. M. Sivakumar and Dr. A. Thirumoorthi

Mapping with Programme Outcomes								
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	
CO1	M	S.	S	М	M	М	М	
CO2	S	°S.53	SL S	M	M	M	М	
CO3	S	MEDI	M	M	M	L	М	
CO4	L	S	М	L	L	М	М	
CO5	М	М	L	М	L	М	М	

Course code	6EE	ENVIRONMENTAL CHEMISTRY	L	Т	Р	С			
ELF	ECTIVE	Elective III (B)	4	-	-	3			
Pre-requi	isite	Basics of Environment Science	Sylla Versi	abus 2019- sion 2020		19- 20			
Course Ob	jectives:								
The main o	bjectives of thi	s course are to:							
1. Explain clearly Environmental segments and composition of atmosphere									
2. Understand the Natural Cycles of the environment									
3. Detailed explanation of the different types of pollution									
Expected (Course Outcor	nes:							
On the su	ccessful comple	etion of the course, student will be able to:							
1 Unde	rstand the cond	cepts environmental segments and composition of the	ne	K1.	K2				
atmo	sphere			,-					
2 Know	v about the envi	ironment cycles and their significance		K1					
3 Discu	uss the water po	llution, sewage and Industrial waste water treatment		K1,	K2				
4 Desc	ribe the reaction	as in air pollution , particulates and analysis of		K2,	K4				
pollu	tants								
5 Expla	ain the t <mark>hermal</mark> ,	noise and radioactive pollution and their effects and		K1-	K3				
meth	ods of control		I.C.	0					
KI - Rem	ember; $\mathbf{K}2 - 01$	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K0 -	- Cre	ate				
T		somister of Engineerant and Atmosphere		12	ha				
Concept ar	d scope of env	ironmental chemistry Nomenclature: Pollutant, contr	min	$\frac{12}{2}$		urs ptor			
sink pathy	vays of a pollu	tant speciation dissolved oxygen chemical oxygen	der	nand	(CC	DD			
biochemica	al oxygen dema	nd (BOD)-Environmental segments.	9401	lund	(0)	, ,			
Compositio	on of the atmos	phere-atmospheric structure-earth's radiation balance	e – p	artic	les,	ions			
and radical	s in the atmos	phere-formation of inorganic particulate matter- form	natic	on of	org	anic			
particulate	matter-ions ar	nd radicals-photochemical reactions in the atmosph	nere-	form	atio	n of			
NO_2 , SO_2 ,	organic compo	unds, greenhouse effect.							
Linit.2		Cycles of Environment		10	ha				
Biological	 cycles & their s	significance-Gaseous and sedimentary cycles		12	no	urs			
(a) Oxyge	n cycle and o	zone chemistry (b) Carbon cycle (c) Ni	troge	en c	vcle			
(d) Sulphur	cycle	(e) Phosphours cycle	, 11			9010			
	5								
Unit:3		Water Pollution and Treatment		12	ho	urs			
Water poll	ution: Hydrolo	gical cycle -aquatic environment-classification of	wate	r pol	lutio	on –			
organic po	ollutants, inorga	anic pollutants, sediments, radioactive materials, the	herm	al p	ollu	tion,			
BOD & COD –signification-experimandal determination. Trace elements in water. Chemical									
Futrophice	tion-sewage tra	and mercury. atment-primary and secondary treatments. Indust	rial	waet	<u>о</u> 11	vater			
treatment h	ov 1) activated c	charcoal/synthetic resins 2) membrane techniques	1141	wast	C 11	alei			
	<i>j _ ,</i>								

Uni	it:4 Air Pollution	12 hours						
1. A	ir pollutants-primary pollutants-sources of carbon monoxide, nitrogen	oxides, sulphur						
dioxi	ide; sink and control. Hydrocarbons, photochemical smog, acid rain.	-						
2. Pa	articulates: sources-inorganic and organic particulate matters-effects on	human beings,						
materials, climate control of particulate emission- of atmospheric pollution, corrosion of metals-								
indo	indoor reactions of air pollutants-sinks of atmospheric gases.							
Air q	quality standards: Monitoring –Analysis of carbon monoxide-nitrogen oxides	-sulphur						
dioxi	ides-hydrocarbons.							
Uni	it-5 Thermal and Electromagnetic Pollution	12 hours						
$\frac{0}{1}$ T	hermal pollution-definition sources-environmental effects-control and pre-	vention Solar						
energ	gy as alternative source of energy strategies for energy conservation	vention. Solar						
2. No	oise pollution: Sources and effects of noise pollution-control and prevention	on-solutions to						
abuse	e. Supersonic jets and its effects.							
3. Ra	adioactive pollution: Sources of radioactive pollution-environmental threat of	nuclear						
react	ors-breeder reactors-environmental conflicts between nuclear powers Metho	ds of control						
and p	prevention.							
		-						
	Total Lecture hours	60 hours						
Tex	xt Book(s)							
1	Environmental Chemistry-A.K .De, New Age International(P) Ltd., New De	hi(2010).						
2	Environmental Chemistry- V.K. Ahluwalia, Ane Books India., New Delhi (20	13).						
3	Sodhi, G.S., Fundamantal Concepts of Environmental Chemistry, Narosa Pu	olishing House						
]	Pvt. Ltd., New Delhi, Third Edition, (2009).							
Ref	ference Books							
1	A text book of Environmental Chemistry-Krishnan & Kannan, Anmol Public	ations, New						
	Delhi (1992).							
2	Environmental chemistry & pollution control – Dhar, S.Chand &Co., New D	elhi (1995).						
Rel	ated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://nptel.ac.in/courses/122/106/122106030/							
2	https://nptel.ac.in/noc/courses/noc20/SEM2/noc20-ce57/	10						
3	https://nptel.ac.in/content/storage2/courses/105101010/downloads/Lecture27	.pdf						
Сош	Course Designed By: Dr. T. Selvaraju and Mr. C. Sudhakar							

Mapping with Programme Outcomes								
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	
CO1	S	М	L	S	S	S	М	
CO2	S	М	М	S	S	М	S	
CO3	М	М	S	S	S	М	S	
CO4	S	S	S	М	S	М	S	
CO5	S	М	L	М	S	S	S	
		*0 Q.	111	с 1 ¹ т	т			

Cou	Course TEXTILE CHEMISTRY L T					С				
E	LECTIVE	Elective III (C)	4	-	-	3				
Pre	e-requisite	Higher Secondary Level Chemistry	Sylla Versi	bus on	201 201	0- 1				
Co	urse Objectiv	ves:				<u> </u>				
The	e main objecti	ves of this course are to:								
1. M sy 2. O	 Make the students to understand the structure, Properties and uses of natural and synthetic fibers. Outline the impurities present in cotton and silks and the way to remove them. Impart the knowledge about various dues and duoing of wools and silks. 									
3. In	part the know	vledge about various dyes and dyeing of wools and silks								
E	nantad Caura	a Outcomog								
<u>Ex</u> On	the successful	completion of the course student will be able to:								
1	Understand	the structure production properties and uses of natural fil	oers		K1-F	X 3				
2	Understand	the structure, production, properties and uses of natural in	fibers		K2-1	K5				
3	3 Identify the impurities present in cotton and silk and know the processes to remove them									
4	Describe the	e various dyeing methods and natural dyes used for cotton	fiber		K1-	K6				
5	Outline diff	erent methods available for dyeing wools and silks			K2-1	K6				
K1	- Remember:	K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K	6 - 0	Create					
Un	it:1	Classification and Structure of Natural Fibers		Τ	12 ho	ours				
1. Fi in fil 2. Ge follo (woo	 Fibre theory –polymers and polymerization-Morphology of fibres – Molecular arrangements in fibres. General classification of fibres-chemical structure, production, properties and uses of the following natural fibres (a)natural cellulosic fibres (cotton and jute) (b) natural protein fibre (wool and silk). 									
TT.					10 1					
Cher	IC:2	properties and Uses of Synthetic Fibers	thetic	fibre	$\frac{12}{12}$ no	Man				
Chemical structure, production, properties and uses of the following synthetic fibres. (i) Man made cellulosic fibres (Rayon, modified cellulosic fibres) (ii) Man made protein fibres (Azions) (iii) Poly amide fibres (different types of nylons) (iv) Poly ester fibres (v) Acrylic fibres and (vi) Olefin fibres.										
Un	it:3	Impurities in fibers and their removal			12 ho	ours				
Impurities in inpurities in inpurities and their removal 12 nours Impurities in raw cotton and grey cloth, wool and silk- general principles of the removal – Scouring – bleaching – Desizing – Kierboiling- Chemicking –Chemical and machinery use- Degumming and Bleaching of silk Scouring and Bleaching of wool. Impurities in index and their removal										
Un	it:4	Classification of Dyes			12 ho	ours				
Dyei azoio mine	ng – Classif c dyes on cott eral colours a	cation of dyes and their properties- applications – direction. Application of Vat and solubilised vat dyes on cotton and black. Application of vegetable and other colour to cott	et, bas and v on.	ic, s iscos	ulphu e. Mo	r and rdant				
B. Sc. Chemistry 2021-22 onwards - Affiliated Colleges - Annexure No.20(a) SCAA DATED: 23.06.2021

Uı	Unit:5 Dyeing of Fibers 12 hours											
1. Dyeing of wool and silk –Fastnerss properties of dyed materials – dyeing of nylon, terylene												
and other synthetics.												
2. F	Finishes	s given to fabrics- Mechanical finishes on cotton, wool and silk, method u	sed process									
of n	nerceri	zing –Anti-crease and Anti-shrink finishes –Water proofing.										
		Total Lecture hours	60 hours									
Tex	xt Bool	κ s(s)										
1	Text	Book of Applied Chemistry-M.A.Islam, Sonali Publications; 1 st edition, 2	011.									
2	Chem	istry of dyes & Principles of Dyeing -V.A.Shenai, Sevak Publications, 19	983.									
Ref	erence	e Book(s)										
1	The I	dentification of Textile Fibres – Bruno Luniak, Isaac Pitman & Sons, Lim	ited, 1953.									
2	Dyeir	ng and chemical Technology of Textile fibres-5th Edition, E.R. Trotman, C	Charles									
	Griffi	n & Co Ltd, 1970. (Digitalized 2010).										
3	Chem	iical Technology of fibrous Materials – F.I. Sadov, M.V. Horchagin and A	A.Matetsky,									
	Mir P	Publishers, 1978. (Digitalized 2008).	-									
4	Texti	le Scouring and Bleaching E.R.Trotman, Charles Griffin & Co Ltd.1968.										
Re	elated	Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]										
1	https:	//blogionik.org/blog/2017/04/02/natural-synthetic-fiber/										
2	https:	//www.assignmentpoint.com/science/textile/textile-fiber.html										
Cou	Course Designed By: Dr. S. P. Rajasingh											
		1										

Mappi	Mapping with Programme Outcomes											
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
CO1	S	S	М	М	М	M	S					
CO2	М	S	S	М	S	L	M					
CO3	M	S	S	S	М	M	L					
CO4	ି S	S	S	М	S	°S	М					
CO5	S	М	S	S	S	S	М					

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

5தப்பாரை உய EDUCATE TO ELEVATE



B. Sc. CHEMISTRY





MISSION

Co

To provide the fundamental knowledge of chemistry, empower students for higher studies and acquire potential jobs.

Wron Bear

B.Sc. Computer Science Syllabus AFFILIATED COLLEGES Program Code: 22K 2023 – 2024 onwards

BHARATHIAR UNIVERSITY

(A State University, Accredited with "A++" Grade by NAAC, Ranked 21st among Indian Universities by MHRD-NIRF)

Coimbatore - 641 046, Tamil Nadu, India

Program	Program Educational Objectives (PEOs)									
The B. So	The B. Sc. Computer Science program describe accomplishments that graduates are									
expected	expected to attain within five to seven years after graduation									
PEO1	1 To enrich knowledge in core areas related to the field of computer science and mathematics.									
PEO2	To provide opportunities for acquiring in-depth knowledge in Industry 4.0/5.0 tools and techniques and there by design and implement software projects to meet customer's business objectives.									
PEO3	To enable graduates to pursue higher education leading to Master and Research Degrees or have a successful career in industries associated with Computer Science or as entrepreneurs									
PEO4	To enhance communicative skills and inculcate team spirit through professional activities, skills in handling complex problems in data analysis and research project to make them a better team player.									
PEO5	To embed human values and professional ethics in the young minds and contribute towards nation building.									
PEO9	To develop project									



Program	Program Specific Outcomes (PSOs)									
After the	After the successful completion of B.Sc. Computer Science program, the students are									
expected	expected to									
PSO1	Impart the fundamental principles and methods of Computer Science to a wide range of applications.									
PSO2	Develop and deploy applications of varying complexity using the acquired knowledge in various programming languages, data structures and algorithms, database and networking skills.									
PSO3	To investigate, analyze complex problems by the application of suitable mathematical and research tools, to design Information Technology products and solutions									
PSO4	To identify and utilize the state-of-the-art tools and techniques in the design and development of software products and solutions.									
PSO5	Ability to identify, interpret, analyze and design solutions using appropriate algorithms of varying complexities in the field of information and communication technology.									



Program Outcomes (POs)								
On succe	ssful completion of the B.Sc. Computer Science program							
PO1	Disciplinary knowledge: Capable to apply the knowledge of mathematics, algorithmic principles and computing fundamentals in the modeling and design of computer based systems of varying complexity.							
PO2	Scientific reasoning / Problem analysis : Ability to critically analyze, categorizes, formulate and solve the problems that emerges in the field of computer science.							
PO3	Problem solving: Able to provide software solutions for complex scientific and business related problems or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.							
PO4	Environment and sustainability: Understand the impact of software solutions in environmental and societal context and strive for sustainable development.							
PO5	Modern tool usage: Use contemporary techniques, skills and tools necessary for integrated solutions.							
PO6	Ethics: Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude.							
PO7	Cooperation / Team Work: Function effectively as member or leader on multidisciplinary teams to accomplish a common objective.							
PO8	Communication Skills: An ability to communicate effectively with diverse types of audience and also able to prepare and present technical documents to different groups.							
PO9	Self-directed and Life-long Learning: Graduates will recognize the need for self-motivation to engage in lifelong learning to be in par with changing technology.							
PO10	Enhance the research culture and uphold the scientific integrity and objectivity							
	E BAUSSIE Station Combators							

BHARATHIAR UNIVERSITY::COIMBATORE641046

B.Sc. <u>Computer Science (CBCS PATTERN)</u>

(For the students admitted from the academic year 2023-2026 Batch)

Scheme of Examination

		/		·			
Part	Title of the Course	Hours/	Duration	Max	ximum N	Aarks	Credits
		Week	In Hours	CIA	CEE	Total	0100105
	SemesterI			_	_		
Ι	Language-I	4	3	25	75	100	4
II	English-I	4	3	25	75	100	4
III	Core1:Computing Fundamentals and C	5	3	20	70	100	4
	Programming	C C	C	25	75	100	
III	Core2:Digital Fundamentals and Computer	5	2	25	75	100	4
	Architecture	3	3	23	15		4
	CoreLab1: Programming Lab-C	5	3	25	75	100	4
III	Allied1:Mathematical Structures for Computer	5	3	25	75	100	4
IV	Science Environmental Studies*	2	2		50	50	2
1 V	Total	30	5	- 150	500	650	2
	SemesterII	50		150	500	030	20
T	Language-II	4	3	25	75	100	4
I	English-II &	POSLA	3	12	38	50	2
	Naan Muthalyan –Skill Course	C. C.	5	12	50	50	
	Effective English						
	http://kb.naanmudhalvan.in/images/c/c7/Cambrid	2		12	38	50	2
	ge Course Details.pdf						
Ш	Core3:C++ Programming	5	3	25	75	100	4
III	CoreLab2: Programming Lab-C++	55	3	20	30	50	2
III	CoreLab3:Internet Basics	3	33	20	30	50	2
III	Allied2:Discrete Mathematics	5	3	25	75	100	4
IV	Value Education– Human Rights*	2:5-0	3	-	50	50	2
	Total	30		139	411	550	22
	SemesterIII		•			•	
Ι	Language – III	4	3	25	75	100	4
II	English – III &	4	3	25	75	100	4
III	Core4:Data Structures	4	3	25	75	100	4
III	Core5:Java Programming	4	3	25	75	100	4
III	CoreLab4:Programming Lab –Java	3	3	20	30	50	2
III	Allied3:Computer Based	5	3	12	38	50	2
ш	Skill based Subject 1: Software Engineering						
111	And Software Project Management	4	3	30	45	75	3
IV	Tamil**/ Advanced Tamil*(OR)Non-						
1,	maior elective-I(Yoga for Human	2	3	_	50	50	2
	Excellence)*/ Women's Rights*	-	_				-
	Total	30		162	463	625	25
	SemesterIV		· · · · · · · · · · · · · · · · · · ·	·		·	
Ι	Language – IV	4	3	25	75	100	4
II	English – IV &	4	3	12	38	50	2
III	Core6: System Software and Operating System	4	3	25	75	100	4
III	Core7:Linux and Shell Programming	4	3	25	75	100	3
III	CoreLab 5:Linux and Shell P rogramming Lab	3	3	20	30	50	2

		-					1
	NaanMuthalvan– Skill Course						
	Office Fundamentals - Lab	2		20	30	50	2
	http://kb.naanmudhalvan.in/Bharathiar_U	2		20	50	50	Z
	<u>niversity (BU)</u>						-
III	Allied4:Business Accounting &	4	3	12	38	50	2
III	Skill based Subject 2 Lab: Software Project	3	3	20	30	50	2
	Management-Lab		5	20	50		-
IV	Tamıl**/Advanced Tamıl* (OR) Non-	2	3	-	50	50	2
	major elective-II(General Awareness*)	20	_	1.50	4.4.4	(0.0	•••
	Total	30		159	441	600	23
	SemesterV						
III	Core 8:RDBMS & Oracle	6	3	25	75	100	4
III	Core 9: Visual Basic	6	3	25	75	100	4
III	Core 6: Programming Lab	Ŭ	5		10	100	
111	VB&Oracle	6	3	30	45	75	4
III	Flective - I PVTHON						
111	Programming/Computer Networks/	6	3	25	75	100	4
	Organizational Behavior	Ŭ	5	23	10	100	
III	Skill based Subject 3: Software Testing	6	3	30	45	75	3
	Total	30		135	315	450	19
	SemesterVI	I		1			
III	Core10:Graphics & Multimedia		2	25	75	100	
	1	5	3	23	/3	100	4
III	Core11:Project Work Lab%%	Part2	3	25	75	100	4
III	CoreLab7: Programming Lab		3	30	45	75	2
	-Graphics & Multimedia						3
III	Elective–II:Network Security and						
	Cryptography / Artificial Intelligence and	5	3	25	75	100	1
	Expert Systems / Web Technology	Marrie 1					4
III	Elective–III:Data Mining/Open Source	~					
	Software/Internet of Things (IoT)	IN ER	3 3	25	75	100	1
III	Skill Based Subject 4(I ab): Software	ore	a Gliffe				
	Testing Lab	3. 11. 15. 15	3	20	30	50	2
	Naan Muthalvan Skill Course	ELIVATE					
	Cyber Security @						
	http://lth.goograp.udholyon.in/imagoog/7/71/Cy						
	<u>nup://ko.naannuunaivan.n/mages/ // / i/Cy</u>	<u>p</u>					
	ersecurity.pdf			12	38		
	(or) Machine Learning #	2				50	2
	http://kb.naanmudhalvan.in/images/1/19/PB	-		(or)	(or)	50	2
	<u>L_Google.pdf</u>			20	30		
	(or) Android APP Development \$			-	-		
	http://kb.naanmudhalvan.in/images/0/08/Andro						
	d_App_Dev.pdf						
V	Extension Activities**		-	50	-	50	2
	Total	30		212/	413/	625	25
				220	405		
	GrandTotal			962/	2538	3500	140
				970	/		
1				1	2530		1

➤ *No Continuous Internal Assessment(CIA), University Examinations Only.

➤ **No University Examinations, Continuous Internal Assessment(CIA) Only.

Govt –Non-Autonomous Colleges, \$ Aided– Non-Autonomous Colleges, @ Self-Financing Colleges (Non–Autonomous) (For theory : CIA – 12, CEE – 38; For Practical : CIA – 20, CEE 30).



Cou	Course code Computing Fundamentals and C L T										
Cor	e/Elective/Su	upportive	(Core Pape	er: 1		4	4 0		4	
Pro	Pre-requisiteStudents should have basic Computer KnowledgeSyllabus Version2										
Cou	rse Objectiv	ves:									
The	main objectiv	ves of this o	course are to:								
 To impart knowledge about Computer fundamentals To understand the concepts and techniques in C Programming To equip and indulge themselves in problem solving using C 											
Exn	ected Cours	e Outcome	s:								
On	the successfi	ul completi	on of the course, st	udent wil	l be able	to:					
1	Learn abou	ut the Com	outer fundamentals	and the P	roblem :	solving			ŀ	K 2	
2	Understand	d the basic	concepts of C prog	ramming		6			ŀ	K2	
3	Describe th	he reason w	hy different decisi	on making	g and loc	op constructs	are		ŀ	X 3	
	available f	or iteration	in C			1					
4 Demonstrate the concept of User defined functions, Recursions, Scope and Lifetime of Variables, Structures and Unions										ζ4	
5 Develop C programs using pointers Arrays and file management										X 3	
K1	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze: K5 - Evaluate: K6 – Create										
					E E.						
Un	it:1	Fundan	ientals of <mark>Com</mark> pu	ers & Pr	oblem S	<mark>o</mark> lving in C		1	12 hou	ars	
Fu	ndamentals o	of Compute	rs : Introduction -	History	of Com	outers-Genera	ations of	f Co	mpute	rs-	
	assification o	Memory	Anatomy Management	of a Co	mputer	System-Inpu	f Opera	es-Pi ting	OCESS Syste	or-	
Pro	ogramming L	anguages-T	ranslator Program	s-Problem	Solving	2 Techniques	- Overv	iew (of C.	111-	
	0 0	O	0 20 E	^இ ந்தப்பாரை 9	Luitage						
Un	nit:2		Overv	iew of C				1	l5 hou	ars	
Ov	verview of C	- Introduct	ion - Character se	t - C toke	ens - key	yword & Ide	ntifiers	- Co	nstant	ts -	
Va	riables - Dat	ta types -	Declaration of var	iables - A	Assignin	ig values to	variable	es -	Defini	ing	
Syl Inc	mbolic Consi	Decrement	metic, Relational,	Logical, A	Assignm	eni, Conditio	tion of	wise,	Speci	iai,	
nre	ecedence of a	arithmetic	operators - Type of	conversion	n in exn	ression - on	erator n	rece	dence		
ass	ociativity - N	Mathematic	al functions - Rea	ding & V	Vriting a	character -	Formatt	ed in	iput a	ind	
out	tput.								·		
TT		N	••• • • • • • • •	<u> </u>	<u> </u>			-			
	nt:3	De	cision Making, L	ooping ar	1d Arra	ys			15 hou		
De if 1	ecision Makii adder – The	ng and Brai switch stat	ement The ? On	11 – 11, 11 erator – T	the goto	statement T	erse sta	ieme Ma	mis- e king s	and	
Lo	oping: Introd	uction- The	e while statement-	the do sta	tement -	- the for state	ment-iu	mps	in loo	ps.	
Ar	Arrays – Character Arrays and Strings										
Un	nit:4	User-D	efined Functions,	Structur	es and U	Unions		1	15 hou	urs	
	er-Defined F	unctions: I	ntroduction – Nee	d and El	ements	of User-Defi	ned Fur	nctio	ns-		
De	inition-Ketu	rn values a	and their types - F	unction C	<u>alis – L</u>	veclarations -	- Catego	ory c	I		

Functions- Nesting of Functions - Recursion – Passing Arrays and Strings to Functions - The										
Scope, visibility and Lifetime of variables- Multi file Programs. Structures and Unions										
Unit:5 Pointers & File Management 15 hours										
Pointers: Introduction-Understanding pointers -Accessing the address of a variable Declaration										
and Initialization of pointer Variable – Accessing a variable through its pointer Chain of pointers-										
Pointer Expressions - Pointer Increments and Scale factor- Pointers and Arrays- Pointers and										
Strings – Array of pointers – Pointers as Function Arguments Functions returning pointers –										
Pointers to Functions – Pointers and Structures. File Management in C.										
Unit:6 Contemporary Issues 3 hours										
Problem Solving through C Programming - Edureka										
Total Lecture hours 75 hours										
Text Book(s)										
1 E Balagurusamy: Computing Fundamentals & C Programming – Tata McGraw-Hill, Second										
Reprint 2008										
Reference Books										
1 Ashok N Kamthane: Programming with ANSI and Turbo C, Pearson, 2002.										
2 Henry Mullish & Hubert L.Cooper: The Sprit of C, Jaico, 1996.										
:-80 ^{60,000,000,00,0} , @										
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]										
1 Introduction to Programming in C - NPTEL										
2 Problem solving through Programming in C - SWAYAM										
3 C for Everyone : Programming Fundamentals - Coursera										
A Constant S										
Course Designed By:										
AR UT George Combatore										

Mappi	ng with	Progran	nme Out	tcomes	Siguration 2-WISP								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	М	М	М	S	М	S	L			
CO3	S	М	S	М	М	L	S	L	S	L			
CO3	S	S	S	М	М	Μ	S	М	S	М			
CO4	S	S	S	М	S	Μ	S	М	S	М			
CO5	S	S	S	Μ	M	M	S	М	S	М			

Cou	rse code				Digi	tal F	rund	dam Arc	nen chi	ntal tec	s an ture	nd C	Com	put	er]		Т		Р	С
Core	e/Elective/Supp	orti	i				0	Core	e P	Pape	er :	2					4	4	0		-	4
Pre	e-requisite			St kn	udent	t sho dge	ould	ha	ve	bas	sic c	com	pute	er			Syl Vei	labu: sion	5	20 On	23-24 Iwaro	4 ¦ 1s'
Cou	rse Objectives:		I			0																
On s	On successful completion of this subject the students should have Knowledge on																					
1.	To familiarize w	vith o	n dif	iffeı	rent n	umbe	er sy	yste	ems	s an	d di	igita	ıl ari	thm	etic	&	logic	circu	iits			
2.	To understand the	he co	cone	ncer	pts of	Com	nbina	atio	onal	1 Lo	ogic	and	d Se	quer	ntia	l Ci	rcuits	5				
3. To impart the knowledge of buses, I/O devices, flip flops, Memory and bus structure.																						
4.	To understand t	he co	cono	ncer	pts of	mem	nory	/ hie	erai	rchy	y an	ld m	iemo	ory o	orga	In1Z	ation					
5.	To understand t	he va	varı	rıou	is typ	es of	t mic	crop	pro	ces	sor	arc	hite	cture	e							
Exp	ected Course O	utco	om	nes:	:																	
On	the successful co	ompl	plet	etior	n of th	ne cou	urse	e, st	tude	ent	will	l be	able	e to:								
1 Learn the basic structure of number system methods like binary, octal and K3											5											
hexadecimal and understand the arithmetic and logical operations are performed by																						
	computers.																					
2	2 Define the functions to simplify the Boolean equations using logic gates. K1																					
3	3 Understand various data transfer techniques in digital computer and control unit K2											2										
	operations.																					
4 Compare the functions of the memory organization										K4	ŀ											
5 Analyze architectures and computational designs concepts related to architecture										K4	ŀ											
organization and addressing modes																						
K1	- Remember; K	2 - U	Unc	nder	rstand	l; K3	3 - A	Appl	ly;	K	4 - /	Ana	lyze	; K	5 - 2	Eva	luate	; K6	- (Cre	ate	
Uni	;+.1		N	Nm	mhar	Svet	tom	San	d	vit	hm	otio	air	e mit	<u>с</u>					13	ho	186
Num	hor System on		T			Bysi Los: T	Daai				шш 2012		otol			laai	mol	D	noi	14		uis tion
Mult	tiplication Divis	ion -	5111a 5 _ F	Flo	oting	noin	nt rei	nne	il, sen	DII tati	iar y	, 0	mnl	, П¢	zxa(nts	RC	illai 'D F	- D	111a1 23	y Gr	auun	ode
Arith	metic Circuits	Half	1 – 1 1f ad	adde	er Fu	ill add	lder	Pa	rall	lel	bina	etter arv a	adde	r B	CD	ado	ler I	Half 9	suh	tra	ay C	Full
subti	ractor. Parallel b	inary	rv s	sub	otracto	or - D)igita	tal L	Log	ric:	The	e Ba	sic (Gate	es –	NO	R.N	AND). X	[O]	R Ga	tes.
		j	-) -				-8		0										,			
Uni	it:2	С	Con	mb	oinatio	onal]	Log	gic a	and	d Se	equ	enti	ial C	lircu	uits					1	4 ho	urs
Com	binational Logi	e Ci	Circu	cuits	s: Boo	olean	ı alg	gebı	ra -	– K	Larn	aug	h m	ap -	- C	ano	nical	form	n C	on	struc	tion
and	properties – Imp	olem	nen	ntat	tions -	– Do	on't	car	e c	com	bina	atio	ns -	Pro	duc	t of	f sun	ı, Su	m o	of j	produ	icts,
Sim	plifications. Sequ	ıenti	tial	l cii	rcuits:	: Flip	o-Flo	ops:	: R	S, I	Э, Л	K, a	nd 7	[- N	Ault	tiple	exers	– De	mu	ltij	plexe	rs –
Deco	oder Encoder – S	hift	t Re	Regi	isters-	Cour	nters	S.														
TT			4	0				•					T		•					1	<u>.</u> .	
Un	it:3 1	npu	<u>ut –</u>	<u>-0</u>	Jutput	t Org	gan	izat	tior	n ai	nd I	Data	a Tr	ans	ter	T .		T	10		<u>2 hou</u>	urs
Inpu	t – Output Orga	iniza	zatic	10n:	inpu	t - 0	outp	out 1	inte	erta	ce -	- I/(υB	us a n^{1}	ind	Inte		e – L foor	0 A -	ыл	s Ve	rsus
data	tronsfore Strok		r ve	ersi	us Me	mory	y — ndah	IVIa holei	ippe	ea I	U/U D::	- E	xam	pie	01 I	עע יעי	inter	Cha		yn 20		nous
uata transfer. Strobe Control and Handshaking – Priority Interrupt: Daisy- Chaining Priority, Parallel Priority Interrupt Direct Memory Access: DMA Controllor, DMA Transfer, Input. Output																						
Processor: CPU-IOP Communication																						
1100		001	/11111	mul	invail																	

Unit:4	Memory Organization	10 hours								
Memory Orga	nization: Memory Hierarchy – Main Memory- Associativ	e memory: Hardware								
Organization, 1	Match Logic, Read Operation, Write Operation. Cache Memor	ry: Associative, Direct,								
Set-associative	Mapping - Writing into Cache Initialization. Virtual Memo	ry: Address Space and								
Memory Space, Address Mapping Using Pages, Associative Memory, Page Table, Page										
Replacement.										
Unit:5	Case Studies	6 hours								
CASE STUDY	I: Pin out diagram, Architecture, Organization and address	sing modes of 80286-								
80386-80486-1	ntroduction to microcontrollers.									
		21								
Unit:6	Contemporary Issues	2 nours								
Expert lecture	s, online seminars - webinars									
	I otal Lecture nours	56 nours								
Text Book(s)										
1 Digital pri	nciples and applications, Albert Paul Malvino, Donald P Leach	n, TMH, 1996.								
2 Computer	System Architecture -M. Morris Mano , PHI.									
3 Microproc	essors and its Applications-Ramesh S. Goankar									
Reference Bo	ooks									
1 Digital Ele	ectronics Circuits and Systems, V.K. Puri, TMH.									
2 Computer	Architecture, M. Carter, Schaum's outline series, TMH.									
Related Onli	ne Contents [MOOC, S <mark>WA</mark> YAM, NPTEL, Websites etc.]									
1 https://np	otel.ac.in/courses/106/103/106103068/									
2 http://wv	w.nptelvideos.in/2012/12/digital-computer-organization.html									
3 http://bri	ttunculi.com/foca/materials/FOCA-Chapters-01-07-review-har	ndout.pdf								
TAR OF Combatore										
Course Desig	ned By:									
	EDUCATE TO ELEVATE									

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	М	S	М	S	Μ	М	L			
CO3	S	М	S	М	М	S	М	Μ	М	L			
CO3	S	S	S	М	S	S	S	М	М	М			
CO4	S	S	S	S	S	S	S	М	S	S			
CO5	S	S	S	S	S	S	S	M	S	S			

Course code		Programming Lab – C	L	Т	Р	С				
Core/Elective/	/Supportive	Core Lab: 1	0	0	3	4				
Pre-requisite)	Students should have basic knowledge in C programming and algorithms	Sylla Versi	bus ion	2023 Onw	-24 ard				
Course Objec	tives:									
The main object	ctives of this	course are to:								
1. To practic	e the Basic c	oncepts, Branching and Looping Statements and St	rings ir	n C						
programm	ning									
2. To implement handling	ment and ga	in knowledge in Arrays, functions, Structures,	Pointe	rs a	nd F	ʻile				
Expected Course Outcomes:										
On the succes	sful completi	on of the course, student will be able to:								
1 Remem number	1Remember and Understand the logic for a given problem and to generate Prime numbers & Fibonacci Series (Program-1,2,3)H									
2 Apply t function	2 Apply the concepts to print the Magic square, Sorting the data, Strings, Recursive functions and Pointers (Program-4,5,6,8,10)									
3 Remen	3 Remember the logic used in counting the vowels in a sentence (Program-7)									
4 Apply and Analyze the concepts of Structures and File management (Program-9,11,12)										
K1 - Rememb	per; K2 - Und	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	; K6 - C	Creat	e					
		The second								
Programs	program to fi	nd the sum every standard deviation for a given	sot of 1	3(hou	irs				
2. Write a C	program to ge	enerate n prime numbers.	501 01 1	Ium						
3. Write a C	program to ge	enerate Fibonacci series.								
4. Write a C	program to pi	int magic square of order n where $n > 3$ and n is or	ld.							
5. Write a C	program to so	ort the given set of numbers in ascending order.								
6. Write a C	program to cl	neck whether the given string is a palindrome or no	t using	poin	ters.					
7. Write a C	program to co	bunt the number of Vowels in the given sentence.	<u> </u>							
8. Write a C	program to fi	nd the factorial of a given number using recursive f	unction	1.	1 .					
9. Write a C	program to p	rint the students Mark sheet assuming roll no, nar	ne, and	mar	ks in	1) :+				
nattern	li a structure.	create an array of structures and print the mark she		c un		ity				
10. Write a fi	unction using	pointers to add two matrices and to return the resu	ultant n	natrix	to t	he				
calling fur	nction.	r								
11. Write a C contents a	program wh are same or no	ich receives two filenames as arguments and cheot. If same delete the second file	ck whe	ther [•]	the f	ile				
12. Write a pr	rogram which	takes a file as command line argument and copy i	t to ano	ther	file.	At				
the end of	the second fi	le write the total i) no of chars ii) no. of words and	iii) no.	of li	nes.					
		Total Lecture hours		36	o hou	rs				
Text Book(s)										
1 E Balagur Reprint 20	usamy: Comp)08	outing Fundamentals & C Programming – Tata Mc	Graw-H	till, S	Secor	ıd				

Re	eference Books							
1	Ashok N Kamthane: Programming with ANSI and Turbo C, Pearson, 2002.							
2	Henry Mullish & Hubert L.Cooper: The Sprit of C, Jaico, 1996.							
Re	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	Introduction to Programming in C – NPTEL							
2	Problem solving through Programming in C - SWAYAM							
3	C for Everyone : Programming Fundamentals – Course							
Co	ourse Designed By:							

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	М	L	М	S	S	S	L		
CO3	S	S	S	М	L	M	S	S	S	М		
CO3	S	S	S	L	L	М	S	S	S	L		
CO4	S	S	S	М	L	М	S	S	S	М		





Cou	rse code		C++ PROGRAMMING	L	Т	Р	С				
Core	e/Elective/	Supportiv	Core: 3	5	Δ	0	4				
Pre	-requisite	,	Before starting this course one should have a basic understanding of computer programs and computer programming language. If you know the concepts of C programming it will be much easier to understand this course	ous on	2023-24 Onward						
Cou	rse Object	tives:									
The	main objec	ctives of thi	s course are to:								
1. 2. 3. 4.	 Impart knowledge of object oriented programming concepts and implement them in C++ Enable to differentiate procedure oriented and object-oriented concepts. Equip with the knowledge of concept of Inheritance so that learner understands the need of inheritance. Explain the importance of data hiding in object oriented programming 										
Exp	ected Cou	rse Outcon	nes:								
On	the succes	sful comple	etion of the course, student will be able to:			-					
1	1 Define the different programming paradigm such as procedure oriented and object K1 oriented programming methodology and conceptualize elements of OO methodology										
2	Illustrate	e and mode ystem.	l real world o <mark>bjects and map it into prog</mark> ramming o	bjects f	or a	K	2				
3	Identify overload	the concep ling features	ts of inheritance and its types and develop applica s.	tions u	sing	K	3				
4	Discove	r the usage	of pointers with classes Commune Co			K	4				
5	Explain Handlin	the usage o	f Files, templates and understand the importance of	exceptio	on	K	5				
K1	- Rememb	ber; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	; K6 - (Creat	e					
Uni	it:1		INTRODUCTION TO C++			10 ho	ours				
Key C++ goto, inlin	concepts of - C++ De , break, co e functions	of Object-O eclarations. ontinue, Sw s – Function	riented Programming –Advantages – Object Oriente Control Structures: - Decision Making and Statem itch case statements - Loops in C++: for, while, do n Overloading	d Langu ents: If - funct	uage El ions	s – I/ se, jı in C	O in 1mp, ++ -				
Uni	it•2		CLASSES AND ORIFCTS			10 h	ours				
Dec of Cor	elaring Ob objects — istructor a	jects – Defi friend func nd destructo	ning Member Functions – Static Member variables tions – Overloading member functions – Bit fi or with static members.	and fun ields ar	ctior nd c	15 – a lasse	urray s –				
Uni	it:3		OPERATOR OVERLOADING		1	2 h	ours				
Ov	erloading	unary. bina	ry operators – Overloading Friend functions – type	e conve	rsion	<u> </u>	JUIJ				
Inh	eritance: 7	Types of In	heritance – Single, Multilevel, Multiple, Hierarchal	, Hybri	d, N	lulti	path				

inhe	inheritance – Virtual base Classes – Abstract Classes.									
Uni	i t:4	POINTERS	13 hours							
Dec	laration –	Pointer to Class, Object – this pointer – Pointers to derived cla	sses and Base classes							
- A	Arrays – C	characteristics – array of classes – Memory models – new ar	nd delete operators –							
dyn	amic obje	ct – Binding, Polymorphism and Virtual Functions.								
T T •	·		12 1							
<u>Uni</u>	11:5		13 nours							
File D	e stream cl	asses – file modes – Sequential Read / Write operations – Bina	try and ASCII Files –							
Kan	aom Acce	ess Operation – Templates – Exception Handling - String – Dec	laring and initializing							
strii	ng objects	- String Attributes - Miscenaneous functions.								
Uni	it:6	Contemporary Issues	2 hours							
Exp	ert lecture	es, online seminars - webinars	= nou 15							
p										
	Total Lecture hours 60 hours									
Tex	t Book(s)									
1	Ashok N I	Kamthane, Object-Oriented Programming with Ansi And Turbo	C++, Pearson							
]	Education	, 2003.								

Ref	erence Bo	ooks								
1	E. Balagu	rusamy, Object-Oriented Programming with C++, TMH, 1998.								
2	Maria Litv	vin & Gray Litvin, C++ f <mark>or yo</mark> u, Vikas publication, 2002.								
3	John R Hı	ubbard, Programming with C, 2nd Edition, TMH publication, 20	002.							
		The the second s								
Rela	ated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1	https://w	ww.spoken-tutorial.org								
2	https://w	ww.tutorialspoint.com/cplusplus/index.htm								
3	https://w	ww.w3schools.com/cpp/								
Cou	arse Desig	ned By:								

Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	М	М	М	М	М	М	L		
CO2	S	S	S	S	S	S	S	М	М	М		
CO3	S	S	S	S	S	S	S	М	М	М		
CO4	S	S	S	S	S	S	S	М	М	S		
CO5	S	S	S	S	S	S	S	М	М	S		

Course code		PROGRAMMING LAB - C++	L	Т	Р	С					
Core/Elective/ Supportive	/	Core Lab : 2	0	0	4	4					
Pre-requisite	2	Basic understanding of computer programs and computer programming language like C.	Sylla Versi	bus on	202 Onv	3-24 ¦ vard ¦					
Course Object	tives:										
The main object	ctives of thi	s course are to:									
1. Impart kr	nowledge of	object oriented programming concepts and implement	t then	ı in C	++						
2. Enable to	differentia	te procedure oriented and object-oriented concepts.									
3. Equip with the knowledge of concept of Inheritance so that learner understands the need of											
inheritance.											
A Explain the importance of data hiding in object oriented programming											
4. Explain the importance of data finding in object oriented programming											
Expected Course Outcomes:											
On the succes	sful comple	tion of the course, student will be able to:									
1 Define t	ha different	programming paradigm such as procedure oriented	and o	bioat	V	1					
I Define t	nrogrami	ning methodology and concentualize elements			N.	L					
methodo	logy	ling methodology and conceptualize clements	01	00							
2 Illustrate	2 Illustrate and model real world objects and man it into programming objects for a K2										
legacy s	legacy system										
3 Identify	the concer	ts of inheritance and its types and develop applicat	ions u	sing	K	3					
overload	ling feature	s.		51118		-					
4 Discover	r the usage	of pointers wit <mark>h classes</mark>			K4	1					
5 Explain	the usage of	f Files, templates and understand the importance of ex	ceptio	on	K.	5					
Handlin	lg V2 U			7 4							
KI - Rememt	ber; K2 - U1	iderstand; K5 - Apply; K4 - Analyze; K5 - Evaluate;	NO - (reate							
Duoguoma		The state of the s	-		26 h						
Programs	D			•••	30 N	Jurs					
1. write a C+	+ Program	to create a class to implement the data structure STAC	A. WI	nie a	acout						
element a	nd member	function $POP()$ to delete an element check for overflo	v and	Junda	rflou	all 7					
conditions		function 1 Of () to delete an element encek for overno	w anu	unuc	1110 w	/					
2 Write a C	++ Program	n to create a class ARITHMETIC which consists	ofal	FLOA	T ar	nd an					
INTEGER	variable.	Write member functions ADD (), SUB(), MUL(). DI	V_0 to	o nei	rform					
addition,	subtraction.	multiplication, division respectively. Write a member	er fund	ction	to ge	t and					
display va	lues.				υ						
3. Write a C+	+ Program	to read an integer number and find the sum of all the c	ligits	until i	t red	uces					
to a single	e digit using	constructors, destructors and inline member functions	5.								
4. Write a C+	+ Program	to create a class FLOAT that contains one float data m	nembe	r. Ove	erloa	d all					
the four A	rithmetic o	perators so that they operate on the object FLOAT									
5. Write a C+	+ Program	to create a class STRING. Write a Member Function	n to in	itializ	ze, ge	et and					
display sti	ngs. Overlo	ad the operators ++ and == to concatenate two String	s and	to co	mpar	e two					
strings res	pectively.			·1		1					
6. Write a C^{+}	++ Program	to create class, which consists of EMPLOYEE D	etail l	1ke E	/_Nui	mber,					
Derive a c	lass PAV fr	om the above class and write a member function to ca	get an Iculate	u uisj e DA	HR 4	and					

PF depending on the grade.
7 Write a C++ Program to create a class SHAPE which consists of two VIRTUAL FUNCTIONS
Calculate Area() and Calculate Perimeter() to calculate area and perimeter of various figures
Derive three classes SOUARE, RECTANGLE, TRIANGE from class Shape and Calculate Area
and Perimeter of each class separately and display the result.
8. Write a C++ Program to create two classes each class consists of two private variables, a integer
and a float variable. Write member functions to get and display them. Write a FRIEND Function
common to both classes, which takes the object of above two classes as arguments and the
integer and float values of both objects separately and display the result.
9. Write a C++ Program using Function Overloading to read two Matrices of different Data Types
such as integers and floating point numbers. Find out the sum of the above two matrices
separately and display the sum of these arrays individually.
10. Write a C++ Program to check whether the given string is a palindrome or not using Pointers
11. Write a C++ Program to create a File and to display the contents of that file with line numbers.
12. Write a C++ Program to merge two files into a single file.
Text Book(s)
1 Ashok N Kamthane, Object-Oriented Programming with Ansi And Turbo C++, Pearson
Education, 2003.
லக்கம
Reference Books
1 E. Balagurusamy, Object-Oriented Programming with C++, TMH, 1998.
² Maria Litvin & Gray Litvin, C++ for you, Vikas publication, 2002.
³ John R Hubbard, Programming with C, 2nd Edition, TMH publication, 2002.
The second se
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 Coimbatore
2
4
Course Designed By:

C	ourse	Designed	ιE	By:	

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	М	М	М	М	М	М	L			
CO2	S	S	S	S	S	S	S	М	М	М			
CO3	S	S	S	S	S	S	S	М	М	М			
CO4	S	S	S	S	S	S	S	М	М	S			
CO5	S	S	S	S	S	S	S	М	М	S			

Cou	urse code		Internet Basics	L T P C								
Cor Sup	re/Elective/ oportive	/	Core Lab : 3	0	0	2	2					
Pr	e-requisite	,	Knowledge of WINDOWS Operating Systems	Sylla Versi	bus on	2023 Onw	3-24¦ <u>/ard</u> ¦					
Co	urse Objec	tives:										
The	e main obje	ctives of thi	s course are to:									
1.	Introduce	the fundam	entals of Internet and the Web functions.									
2.	Impart kn	owledge an	d essential skills necessary to use the internet and its va	arious	com	pone	ents.					
3.	3. Find, evaluate, and use online information resources.											
4.	4. Use Google Apps for education effectively.											
Exp	pected Cou	rse Outcor	nes:									
Or	n the succes	ssful comple	etion of the course, student will be able to:									
1	1 Understand the fundamentals of Internet and the Web concepts											
2	2 Explain the usage of internet concepts and analyze its components.											
3	Identify a	and apply th	ne online information resources			K	3					
4 Inspect and utilize the appropriate Google Apps for education effectively							3,					
K	K1 - Remember: K2 - Understand: K3 - Apply: K4 - Applyze: K5 - Evaluate: K6 - Create											
				20 0		-						
Pr	ograms				3	6 ho	urs					
	1. Create a	n email acc	count in Gmail. Using the account created compose a	mail 1	to in	vite o	other					
	college	students fo	r your college fest, enclose the invitation as attachmer	nt and	send	l the	mail					
	$\frac{\text{to at lea}}{2}$	ast 50 recip	ients. Use CC and BCC options accordingly				<u> </u>					
	2. Open yo	our inbox in	the Gmail account created, check the mail received find you for his college fort and download the invit	rom y	our p	beer 1	rom					
	mail wi	onege mvn ith a thank y	you note for the invite and forward the mail to other fri	ands	ĸeŗ	my ic) the					
	3 Assume	that you a	re studying in final year of your graduation and are ea	oerlv	look	ing f	or					
	a job. V	/isit any job	portal and upload your resume.	Berry	ICON	<u>5</u> 1	01					
	4. Create a	a meeting u	using Google calendar and share meeting id to the att	tendee	es. T	ransf	er					
	the own	nership to th	ne Manager once the meeting id is generated.									
	5. Create a	a label and u	pload bulk contacts using import option in Google Co	ntacts								
	6. Create y	our own G	oogle classroom and invite all your friends through em	nail id	. Pos	t stu	Ĵу					
	materia subject	l in Googl and upload	e classroom using Google drive. Create a separate all unit wise E-Content Materials.	folde	er fo	r eve	ry					
	7. Create a	and share a	folder in Google Drive using 'share a link' option and	l set t	he							
	permiss	sion to acce	ss that folder by your friends only.									
	8. Create of Docs.	one-page sto	ory in your mother tongue by using voice recognition f	acility	y of (Goog	jle,					
	9. Create	a registratio	on form for your Department Seminar or Conference	ce usi	ing (Goog	le					
	Forms.		· · ·		2							
	10. Create	a question	paper with multiple choice types of questions for a	a subj	ect	of yo	our					
<u> </u>	11. Create	a Google	form with minimum 25 questions to conduct a qui	z and	gen	erate	; a					

certificate after submission.
12. Create a meet using Google Calendar and record the meet using Google Meet.
13. Create a Google slides for a topic and share the same with your friends.
14. Create template for a seminar certificate using Google Slides.
15. Create a sheet to illustrate simple mathematical calculations using Google Sheets.
16. Create student's internal mark statement and share the Google sheets via link.
17. Create different types of charts for a range in CIA mark statement using Google Sheets.
18. Create a mark statement in Google Sheets and download it as PDF, .xls and .csv files
Text Book(s)
1 Ian Lamont, Google Drive & Docs in 30 Minutes, 2 nd Edition.
2
Reference Books
1 Sherry Kinkoph Gunter, My Google Apps, 2014.
2
3
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 https://www.youtube.com/watch?v=NzPNk44tdlQ
2 https://www.youtube.com/watch?v=PKuBtQuFa-8
4 https://www.youtube.com/watch?v=hGER1hP58ZE
Course Designed By:

Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
CO1	S	М	S	S		DJ 2-SM21	М	М	S	L	
CO2	S	М	S	S	S	S	S	S	S	М	
CO3	S	S	S	S	S	S	S	S	S	S	
CO4	S	S	S	S	S	S	S	S	S	S	



Course code		Data Structures	L	Т	Р	С
Core/Elective/ Supportive		Core: 4	3	0	0	4
Pre-requisite		Basic understanding of Data storage, retrieval and algorithms.	Syllab Versio	ous on	202 Onv	3-24 vard
Course Objecti	ives:					
The main object1. To introdu2. To emphaalgorithms3. Understan4. Ability to5. Improve pExpected CourOn the success1Understan2Construct3Enhance4Demonstri5Design a for applicK1 - Remember	tives of thi ice the fundation asize the in- size the in- size the in- size the need calculate a programmin rse Outcom of the basi t and analy the knowle rate the con- nd implem cations and er; K2 - Ut	s course are to: damental concept of data structures mportance of data structures in developing and in for Data Structures when building application nd measure efficiency of code ng logic skills. nes: etion of the course, student will be able to: c concepts of data structures and algorithms ze of stack and queue operations with illustrations edge of Linked List and dynamic storage management neept of trees and its applications ent various sorting and searching algorithms l understand the concept of file organizations inderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	mpleme nt.	nting	g effi K K K K e	1-K2 2-K4 2-K3 2-K3 1-K4
					0.1	
Unit:1 Introduction of Arrays. Stacks a	Algorithm and Queues	ns, Analysing Algorithms. Arrays: Sparse Matrices s. Fundamentals - Evaluation of Expression Infix to	s - Rep Postfix	resen	yersio	n of on
Linked List: S Storage Manag	ingly Link ement - Ga	xed List - Polynomial Addition - Doubly Linked arbage Collection and Compaction.	List an	d Dy	o not ynam	ic –
Unit:3		TREES		1	0 h	ours
Basic Termino Graphs: Termi	ology - Bir inology and	ary Trees - Binary Tree Representations – Binary T d Representations-Traversals - Shortest Paths.	rees-Tra	avers	al.	
Unit:4		SYMBOL TABLE		9) hoi	ars
Symbol Tables Overflow Hand	s: Static T dling.	ree Tables - Dynamic Tree Tables - Hash Tables:	Hashin	g Fu	nctio	ins -

U	nit:5	INTERNAL SORTING	7 hours							
In	sertion Sort	- Quick Sort - 2 Way Merge Sort - Heap Sort.								
U	nit:6	Contemporary Issues	2 hours							
Ex	pert lecture	es. online seminars – webinars	_ nours							
	1	,								
		Total Lecture hours	45 hours							
Te	ext Book(s)									
1	Ellis Horo	witz, Sartaj Shani, Data Structures, Galgotia Publication.								
2	Ellis Horowitz, Sartaj Shani, Sanguthevar Rajasekaran, Computer Algorithms, Galgotia									
3	S.Lovelyn	Rose, R.Venkatesan, Data Structures, Wiley India Private Lim	ited.2015. 1 st Edition							
	2.20.01									
Re	eference Bo	ooks								
1	Jean-Paul, Tata McG	Tremblay & Paul G.Sorenson, An Introduction to Data structur raw Hill Company 2008, 2ndEdition.	res with Applications							
2	Samanta.I	O, Classic Data Structure Prentice Hall of India Pvt Ltd 2007, 9	th Edition							
3	Seymour l	Lipschutz, Data Structures McGraw Hill Publications, 2014, 1st	Edition							
		の新毎日の								
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1										
2										
3										
		The subger and the state								
Co	ourse Desig	ned By:								
		B ATHIAR UNNER B								

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	М	М	М	S	М	М	М		
CO2	S	S	S	М	М	М	М	М	М	М		
CO3	S	S	S	М	S	М	М	М	S	S		
CO4	S	S	S	М	S	S	S	S	М	М		
CO5	S	S	S	М	М	S	S	М	М	S		

Cou	rse code		Java Programming	L	Т	Р	С					
Core	e/Elective/	Supportiv	Core: 5	6	0	0	4					
e Pre	-requisite		The objective of the course is to train the students to acquire problem-solving skills through object oriented programming	Syllab Versio	ous on	2023 Onw	3-24¦ ard ;					
Cou	rse Object	tives:	<u> </u>									
The 1 1. 2. 3. 4.	 The main objectives of this course are to: To expose the students with the introduction to OOPs and advantages of object oriented programming. The concepts of OOPs make it easy to represent real world entities. The course introduces the concepts of converting the real time problems into objects and methods and their interaction with one another to attain a solution. Simultaneously it provides the syntax of programming language Java for solving the real world problems. 											
	world pro	01011115.										
Expe	ected Cou	rse Outcon	nes:									
On	the succes	sful comple	tion of the course, student will be able to:									
1	1 The competence and the development of small to medium sized application K1-											
-	programs that demonstrate professionally acceptable coding											
2	Demons	trate the con	ncept of object oriented programming through Java			K	2-K4					
3	Apply th and data	ne concept persistence	of Inheritance, Modularity, Concurrency, Exception to develop java program	ns hand	ling	K	3					
4	Develop	o java progr	ams for apple <mark>ts and graphics programm</mark> ing			K	3					
5	Underst events	and the fund	damental concepts of AWT controls, layouts and			K	1-K2					
K1	- Rememb	oer; K2 - Ur	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	; K6 - (Creat	e						
			A Staturner 2 - Unippe Fright - Data State									
Uni	t:1	FU	JNDAMENTALS OF OBJECT-ORIENTED PROGRAMMING			15 ho	ours					
Obje Obje Histo Brow Virtu	ct-Oriente ct-Oriente ory – Featu vsers. Ove nal Machin	d Paradign d Program ares – How rview of Ja ne.	n – Basic Concepts of Object-Oriented Program ming –Application of Object-Oriented Programmi Java differs from C and C++ – Java and Internet – J va: simple Java program – Structure – Java Tokens	ming – ng. Jav ava and – State	- Be 7a E d wv emen	nefit volut vw – ts – .	s of ion: Web Java					
Uni	t:2		BRANCHING AND LOOPING			12 ha	ours					
Con if, if in L	stants, Va Eelse, nes oops - Lab	riables, Dat sted if, swit peled Loops	a Types - Operators and Expressions – Decision Ma ch, ? : Operator - Decision Making and Looping: w – Classes, Objects and Methods.	king ar hile, do	id Bi , for	ranch – Ju	ing: mps					
Uni	t:3		ARRAYS AND INTERFACES		1	5 h	ours					
Ari	ays, String	gs and Vect ultithreaded	tors – Interfaces: Multiple Inheritance – Packages: Pr Programming.	utting C	Class	es						
5	1,10		<u>o</u> o.									

Unit:4	ERROR HANDLING	15 hours								
Managing Er	rors and Exceptions – Applet Programming – Graphics Program	ming.								
Unit:5	MANAGING INPUT / OUTPUT FILES IN JAVA	15 hours								
Concepts of	Streams- Stream Classes – Byte Stream classes – Character str	ream classes – Using								
streams - I/O Classes - File Class - I/O exceptions - Creation of files - Reading / Writing										
characters, Byte-Handling Primitive data Types – Random Access Files.										
U.s.:4.	Contomnousury Issues	2 h a								
Export loctur	Contemporary issues	5 nours								
Expert lectures, online seminars - webinars										
	Total Lecture hours	75 hours								
Toxt Book(s)		, c nours								
1 Programn	ning with Java – A Primer - F. Balagurusamy, 5 th Edition, TMH									
2 Herbert S	childt Java: The Complete Reference McGraw Hill Education	Oracle Press 10th								
Edition. 2	018									
3 Programn	ning with Java – A Primer - E. Balagurusamy, 3rd Edition, TMH	I.								
· _ ~										
Reference B	ooks									
1 The Com	olete Reference Java 2 - Patrick Naughton & Hebert Schildt, 3rd	Edition, TMH								
2 Programn	ning with Java – John R. Hubbard, <mark>2nd Ed</mark> ition, TMH.									
	S A LAN AND AND AND AND AND AND AND AND AND A									
I	- E / COL YE YE									
Related Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1 www.spo	ken-tutorial.org									
2 www.npt	el.ac.in									
3 https://ww	vw.w3schools.in/java-tutorial/									
	Para Combatore Golder									
Course Desig	ned By:									
	COUCATE TO ELEVATE									

Mappi	Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
CO1	S	S	S	М	S	L	S	М	М	М	
CO2	S	S	S	М	S	L	S	М	М	М	
CO3	S	S	S	М	S	М	S	S	М	М	
CO4	S	S	S	М	S	М	М	S	М	М	
CO5	S	S	S	М	S	М	S	S	М	М	

Course code		Programming Lab – JAVA	L	Т	Р	С						
Core/Electiv	ve/Supportive	Core Lab: 4	0	0	5	4						
Pre-requis	ite	Students should know about the OOPs concept and basic knowledge in java theory.	Sylla Versi	bus ion	2023 Onw	3-24 ard						
Course Obj	ectives:											
The main objectives of this course are to:												
3. The ma	3. The main objective of JAVA Programming Lab is to provide the students a strong foundation											
on prog	ramming conce	pts and its applications through hands-on training.										
4. To prac	4. To practice the Basic concepts, Branching and Looping Statements and Strings in C											
programming												
5. To imp	lement and ga	in knowledge in Arrays, functions, Structures, 1	Pointe	rs a	nd F	File						
handlin	g											
	-											
Expected C	ourse Outcom	25:										
On the succ	essful completi	ion of the course, student will be able to:										
1 Unde	rstand the basic	concepts of Java Programming with emphasis on et	hics a	nd	K1	, K2						
princi	ples of professi	ional coding				70						
2 Demo	onstrate the crea	ation of objects, classes and methods and the			K	12						
and l	pis of construct	tor, methods overloading, Arrays, branching										
3 Create	data files and l	Design a page using AWT controls and Mouse Even	ts in I	ava	K2	. K3						
progra	mming Implen	tent the concepts of code reusability and debugging.		uvu		, 110						
4 Deve	op applications	s using Strings, Interfaces and Packages and applets			K	3						
5 Const Excer	ruct Java progra	ams using Multithreaded Programming and			k	ζ3						
K1 - Reme	mber; K2 - Und	lerstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; 1	K6 - (Creat	e							
		A Barrow Commune Co										
Programs		EDUCATE TO ELEVATE		3	5 hou	irs						
1. Write a	Java Applicatio	ns to extract a portion of a character string and print	the ex	tract	ed							
string.			T 4	6								
2. Write a	Java Program to	o implement the concept of multiple inneritance using	g Intel		s.							
5. write a	Java Program i on	o create an Exception caned payout-of-bounds and	unrow	the								
4. Write a	Java Program t	o implement the concept of multithreading with the	use o	f an	v thre	ee						
multipl	cation tables ar	nd assign three different priorities to them.		•	/							
5. Write a	Java Program to	o draw several shapes in the created windows.										
6. Write a	Java Program t	o create a frame with four text fields name, street,	city a	nd p	in co	de						
with su	itable tables. A	Also add a button called my details. When the but	ton is	clic	ked	its						
correspo	onding values a	re to be appeared in the text fields.										
7. Write a	Java Program u	o demonstrate the Multiple Selection List-box.		1:f	inatia							
o. write a and a te	ava riogram to xt field for mul	tiple line for address	and qu	ualii	icatic	ш						
9. Write a	Java Program to	o create Menu Bars and pull down menus.										
10. Write a	Java Program	to create frames which respond to the mouse clicks	. For	each	ever	nts						
with me	ouse such as m	ouse up, mouse down, etc., the corresponding mess	age to	b be								

	displayed.									
11	. Write a Java Program to draw circle, square, ellipse and rectangle at the mouse click									
	positions.									
12	12. Write a Java Program which open an existing file and append text to that file.									
	Total Lecture hours 36 hours									
Te	Text Book(s)									
1	Programming with Java – A Primer – E. Balagurusamy, 5 th Edition, TMH.									
2	Herbert Schildt, Java: The Complete Reference, McGraw Hill Education, Oracle Press 10 th									
	Edition, 2018									
3	Programming with Java – A Primer – E. Balagurusamy, 3 rd Edition, TMH.									
Re	eference Books									
1	The Complete Reference Java 2 – Patrick Naughton & Hebert Schildt, 3rd Edition, TMH									
2	Programming with Java – John R. Hubbard, 2 nd Edition, TMH.									
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1	https://www.w3resource.com/java-exercises/									
2	https://www.udemy.com/introduction-to-java-programming/									
3										
Co	nurse Designed By:									

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	LE	SPE	S	S	М	M	L		
CO3	S	S	S	La	S	M	G. S	М	M	L		
CO3	S	S	S	M	S	M	S	M	M	L		
CO4	S	S	S	М	S	M	S	S	M	S		
CO5	S	S	S	М	S	SS	S	S	М	S		
				B.	HIAR	UNIN						

இந்தப்பாரை உயி FOUCATE TO ELEVATE

Course o	code		Software Eng	gineering and Sof Management	ftware Project	L	Т	Р	С				
Core/Ele Support	ective/ ive		Sł	xill based Subject	: - 1	5	0	0	3				
Pre-req	quisite		Basic knowle Life Cycle.	dge on the Softwa	are Development	Syllab Versio	ous on	2023	5-24 ¦ ard !				
Course (Object	ives:	•										
The main	1 objec	tives of this	course are to:										
1. To	o enhar	nce the basi	c software engin	eering methods a	nd practices.								
2. To	2. To learn the techniques for developing software systems.3. To understand the object oriented design.												
3. To	4. To understand software testing approaches												
4. 10 understand software testing approaches													
Expected Course Outcomes:													
On the successful completion of the course, student will be able to:													
1 Understand the basic concepts of software engineering 1									1				
2 A	Apply th	ne software	engineering mo	dels in developing	g software applica	tions		K	2-K3				
3 In	3 Implement the object oriented design in various projects												
4 K	4 Knowledge on how to do a software project with in-depth analysis.												
5 To inculcate knowledge on Software engineering concepts in turn gives a K1-K									1-K4				
roadmap to design a new software project.													
K1 - Re	ememb	er; K2 - Ur	derstand; K3 - A	Apply; K4 - Analy	ze; K5 - Evaluate	; K6 - (Creat	e					
T T 1 / 4			COLTUN		E.								
Unit:1	. ·	· .	SOFTWA	RE ENGINEER	ING			15 hc	ours				
Software	e Engin	eering: A	Layered Techno	logy – Software	Process – Softwa	re Proc	ess I	viode	1S -				
Data mo	deling.	– Function	l modeling and	information flow	typing - Elements	s of alla	19818	mou	ei –				
Dutu mo	aenng	1 unetion	a modering und	A HUNDANNA									
Unit:2			SOFT	WARE DESIGN	Balon			12 ha	ours				
Software	e desig	n and Sof	ware engineerin	g – The Design	process – Design	princip	les -	– De	sign				
concepts	s – Effe	ective mod	llar design –Soft	ware Architecture									
Unit.3			SOFTW	ADE TESTINC			1	5 h	nure				
Softwa	re testi	ing fundan	entals – Test C	ase Design - Wh	ite hox testing _	Basis r	hath	testir	σ_{-}				
Control	structi	are testing -	Black box testi	ng. Unit testing –	Validation testing	-Svste	em te	esting	15 [.				
		6		6 6	<u>c</u>	, ,		C	<u>, </u>				
Unit:4		SOFTW	ARE CONFIG	URATION MAN	AGEMENT		1	5 ho	ours				
Softwar	e Con	figuration	Management: D	efinitions and ter	rminology – proc	cesses a	ind a	activi	ties.				
Softwar	re Qual	lity assuran	ce: Definitions	– Quality control	and Quality assu	rance –	Org	aniza	tion				
OI Struc	ctures.	KISK Mana	gement: Kisk Id	hentification – qua	utputs and Qualit	nitoring	- M de	111gai \$1.:11	tion.				
required	1 – Cha	allenges.	mering. Steps u	0 be followed – 0	utputs and Quant	y Recoi	us -	SKIII	5015				
Unit:5			EST	IMATION			1	5 ha	ours				
Estimat	ion: W	hat is Esti	mation? – Wher	and Why? – The	ree phases of Est	imation	– E	stima	ition				
method	ology -	- Formal m	odels of Size Es	timation. Design a	and Development	phases:	Reu	sabil	ity -				
I echno Internet	logy cl	101ces – St viect Mana	indards – Portat vement	onnty -∪ser interfa	ice issues – Testa	0111ty -	Ine	Effec	t of				

U	nit:6	Contemporary Issues	3 hours								
Ex	Expert lectures, online seminars – webinars										
	Total Lecture hours 75 hours										
Te	ext Book(s)										
1	Roger S. H	Pressman: Software Engineering, Tata McGraw Hill, V Edition.									
2	2 Gopalaswamy Ramesh, Managing Global Software Projects, Tata McGraw Hill, New Delhi, 2002.										
3	Programm	ing with Java - A Primer - E. Balagurusamy, 3rd Edition, TMF	Ι.								
	. –										
R	eference Bo	oks									
1	The Comp	lete Reference Java 2 – Patrick Naughton & Hebert Schildt, 3 rd	Edition, TMH								
2	Programm	ing with Java – John R. Hubbard, 2 nd Edition, TMH.									
	<u> </u>										
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]											
1											
2											
3		லைக்கமகு									
Co	Course Designed By:										
		E.									

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	М	М	S	М	S	S	S	S	М
CO2	S	S	S	Song		S	BaldoS	S	S	S
CO3	S	S	S	S			S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S



Course code	ourse code System Software and Operating Systems L										
Core/Elective Supportive	l	Core : 6	Core : 6 6								
Pre-requisite	9	Students Should have the basic knowledge in computer.	Syllabus Version		2023-24 Onward						
Course Objectives:											
The main objectives of this course are to:											
1. To understand the processing of programs on a computer system to design and implementation											
of language processor.											
2. To enhan	ce the abilit	y of program generation through expansion and gain	knowle	edge	abou	it					
Code opt	imization u	sing software tools.									
J. Students	will gaill Kil in in-denth i	inderstanding of process concents, deadlock and men	nory m	anaa	emer	ht					
5. To provid	le an exposi	the restanding of process concepts, deadlock and men	manag	anag veme	nt.	π.					
	ie un emposi		11101102	,01110							
Expected Course Outcomes:											
On the successful completion of the course, student will be able to:											
1 Know th	ne program	generation and program execution activities in detail			K	.1					
2 Underst	and the con	cepts of Macro Expansions and Gain the knowledge	of Edi	ting	K	2-K3					
process	es	லக்கழகம்		Ū							
3 Remem	Remember the basic concepts of operating system										
4 Underst	and the con	cepts like interrupts, deadlock, memory management	t and fi	le	K	2					
manage	ement					-					
5 Analyze	e the need for	or scheduling algorithms and implement different algorithms are also be al	orithms	5	K	1-K4					
used for	representat	ion, scheduling, and allocation in DOS and UNIX op	erating	5							
system.		E TRAINERS B									
K1 - Remem	ber; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - (Creat	e						
	1	20 Distingent of the state									
Unit:1	IN	TRODUCTION TO SYSTEM SOFTWARE			12 ho	ours					
Introduction-S	System Sof	tware and machine architecture. Loader and Lin	kers: I	Basic	: Lo	ader					
Functions - N	lachine dep	endent loader features –Machine independent loade	er feati	ires	- Lo	ader					
design options											
Unit:2 MACHINE AND COMPILER 15 hours											
Machine den	endent com	niler features - Intermediate form of the program -	Machi	ne d	enen	dent					
code optimiza	tion - Mac	nine independent compiler features - Compiler desig	n optio	ns -	Divi	sion					
into passes – I	Interpreters	– p-code compilers - Compiler-compilers.	1								
	_										
Unit:3 OPERATING SYSTEM 15 hours											
What is an Operating System? - Process Concepts: Definition of Process - Process States -											
Process States Transition – Interrupt Processing – Interrupt Classes - Storage Management: Real											
Storage: Real Storage Management Strategies – Contiguous versus Non-contiguous storage											
allocation – Single User Contiguous Storage allocation- Fixed partition multiprogramming –											
variaole partition multiprogramming.											

Unit:4 VIRTUAL STORAGE 15 hours									
irtual Storage: Virtual Storage Management Strategies – Page Replacement Strategies –									
Working Sets - Demand Paging - Page Size. Processor Management: Job and Processor									
Scheduling: Preemptive Vs Non-preemptive scheduling – Priorities – Deadline scheduling.									
nit:5 DEVICE AND INFORMATION MANAGEMENT 15 hours									
Device and Information Management Disk Performance Optimization: Operation of moving head									
disk storage - Need for disk scheduling - Seek Optimization - File and Database Systems: File									
System - Functions - Organization - Allocating and freeing space - File descriptor - Access									
control matrix.									
Unit:6Contemporary Issues3 hours									
Expert lectures, online seminars - webinars									
Total Lecture hours75 hours									
Text Book(s)									
1 Leland L.Beck, System Software: An Introduction to Systems Programming, Pearson, Third									
Edition.									
2 H.M. Deitel, Operating Systems, 2nd Edition, Perason, 2003.									
Reference Books									
1 Achy8ut S. Godbole, Operating Systems, TMH, 2002.									
John J. Donovan, Systems Programming, TMH, 1991.									
D.M. Dhamdhere, Systems Programming and Operating Systems, 2nd Revised Edition, TMH.									
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1 AR Official Article									
Supple Star Supple									
EDUCATE TO ELEVATE									
Course Designed By:									

Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
CO1	S	М	М	М	S	М	М	М	М	L	
CO2	S	S	S	S	S	М	М	М	S	L	
CO3	S	М	М	М	S	М	S	S	S	L	
CO4	S	S	S	М	S	S	S	М	М	М	
CO5	S	S	S	М	S	S	S	М	M	М	
Cour	rse code		Linux and Shell Programming	L	Т	Р	С				
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Core Supp	/Elective/ ortive		Core : 7	6	0	0	4				
Pre	-requisite		Before starting the course students should have the basic knowledge about operating system and C programming.	Syllab Versio	ous on	2023 Onw	2023-24 Onward				
Cour	rse Object	tives:									
The r 1. 2. 3. 4.	 Linux is a multi-user and multi-tasking operating system and after learning the concepts of an operating system Student will be able to write simple shell programming using Linux utilities, pipes and filters. The file system, process management and memory management are discussed. Various commands used by Linux shell is also discussed which makes the users to interact with each other. 										
5.	5. Bourne shell programming is dealt in depth which can be used to develop applications.										
Exne	Expected Course Outcomes:										
On	On the successful completion of the course student will be able to:										
1	1 Describe the architecture and features of Linux Operating System and distinguish it from other Operating System K1										
2	Develop Manager	Linux util ment and di	ities to perform File processing, Directory handling, splay system configuration	User		K	2-K3				
3	Develop	shell script	s using pipes, redirection, filters and Pipes			K	2				
4	Apply a commar	nd change 1 nds.	he ownership and file permissions using advance Un	ix		K	.3				
5	Build Re impleme	egular expr ent shell sci	ession to perform pattern matching using utilities and ipts for real time applications.	1		K	3-K6				
K1	- Rememb	ber; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - C	Creat	e					
T T •			Coimbatore 66			10.1					
	t:1					12 h	ours				
Intro	duction to	LINUX O	berating System: Introduction - The LINUX Operatin	ig Syste	em.						
Uni	t:2	N	IANAGING FILES AND DIRECTORIES			15 ho	ours				
Man in Ll	aging File INUX.	es and Direc	ctories: Introduction – Directory Commands in LINU	X – Fil	e Co	omma	inds				
Uni	t:3		VI EDITOR		1	5 ho	ours				
Crea files	Creating files using the vi editor: Text editors – The vi editor. Managing Documents: Locating files in LINUX – Standard files – Redirection – Filters – Pipes.										
Uni	t:4		SECURING FILES		1	5 ho	ours				
Sect File and	SECURING FILES 15 hours Securing files in LINUX: File access permissions – viewing File access permissions – Changing File access permissions. Changing File access permissions. Automating Tasks using Shell Scripts: Introduction – Variables- Local and Global Shell variables – Command Substitution.										

Un	it:5	CONDITIONAL EXECUTION IN SHELL SCRIPTS	15 hours							
Usi	ing Conditi	onal Execution in Shell Scripts: Conditional Execution – The c	aseesac Construct.							
Ma	naging rep	petitive tasks using Shell Scripts: Using Iteration in Shell	Scripts – The while							
con	nstruct – u	ntil construct - for construct - break and continue commands	s – Simple Programs							
usii	ng Shell So	cripts.								
Un	it:6	Contemporary Issues	3 hours							
Exp	pert lecture	s, online seminars - webinars								
		Total Lecture hours	75 hours							
Tey	xt Book(s)									
1	Operating	System LINUX, NIIT, PHI, 2006, Eastern Economy Edition.								
2	2 N.B. Venkateswarlu, Introduction to Linux: Installation and Programming, BS Publications,									
	2008, 1st Edition									
Ref	ference Bo	oks								
1	Richard Pe	etersen, Linux: The Complete Reference, Sixth Edition, Tata M	cGraw-Hill							
	Publishing	Company Limited, New Delhi, Edition 2008.								
		கலைக்கழகம்								
		S Carlos Contraction of the cont								
Re	lated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1	http://spok	cen-tutorial.org/								
2	https://ww	rw.tutorialspoint.com/linux/index.htm								
3		B HIAR UNING S								
		20 Coimbatore								
Coi	Course Designed By:									
		SALE TO ELC.								

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	М	М	М	S	М	М	М	М	L			
CO2	S	S	S	М	S	М	М	М	М	L			
CO3	S	S	S	М	S	М	S	S	S	М			
CO4	S	S	S	М	S	М	S	S	S	М			
CO5	S	S	S	S	S	S	S	S	S	S			

Com	waa aada		Programming Lab –	т	т	р	C				
Cou	rse code		LINUA and SHELL PROGRAMMING	L	T	ľ	C				
Core	e/Elective/	/Supportive	Core Lab: 5	0	0	6	4				
Pre	e-requisite		Students should have the prior basic knowledge in operating system.	Sylla Versi	bus ion	2023 Onw	3-24 ard				
Cou	rse Objec	tives:									
The	main obje	ctives of this	course are to:								
1.	Describe	the architectu	re and features of Linux Operating System								
2.	To create	programs in t	he Linux environment using Linux utilities and com	mand	s.						
3.	3. Student is given an introduction of Linux shell commands and they will be able to write own										
	shell scripts.										
4.	Shell prog	gramming is d	lealt in depth which can be used to develop application	ons.							
	1 0	0	1 1 11								
Exp	ected Cou	rse Outcome									
On	the succes	sful completi	on of the course, student will be able to:								
1	Develop Linux utilities to perform File processing, Directory handling and User										
2	Manage	ement	1 1 11	1		,					
2	Underst	tand and deve	slop shell scripts using pipes, redirection, filters, Pipe	es and		K2-	K3				
3	Develor	system comp	scripts applicable to file access permission network								
5	adminis	stration	seripts uppredicte to the access permission network			K	3				
4	Apply a	and change the	e ownership and file permissions using advance Unix	2		124	V5				
	comman	nds.				N 4	-N3				
5	Create s	shell scripts for	or real time applications.			K	6				
K1	- Rememb	per; K2 - Und	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	K6 - (Crea	te					
-			Combatore	- <u>r</u>		<u></u>					
Pro	ograms	11	Sat Bissiumerou 2-"	1.	3	<u>6 hou</u> ~	irs				
1.	Write a sh	ell script to st	imulate the file commands: rm, cp, cat, mv, cmp, wc	, split	, d11	1.					
۷.	write a sr	lell script to s	now the following system configuration :								
	b current	shell home	directory Operating System type current Path setti	ng c	urre	nt					
	working d	lirectory	anoctory, operating system type, current run seth	ng , c	unt	III.					
	c. show cu	urrently logge	d number of users, show all available shells								
	d. show C	PU informati	on like processor type, speed								
	e. show m	nemory inform	nation								
3. 1	Write a Sh	ell Script to i	mplement the following: pipes, Redirection and tee of	comm	and	S.					
4. `	Write a sl	nell script for	displaying current date, user name, file listing ar	id dir	ecto	ries t	уy				
5 1	getting us	er choice.	an low out the filter commands								
5. 6.1	Write a sh	all script to in	mprement the inter commands.								
0. 7 1	Write a sh	ell script to fi	nd the sum of the individual digits of a given number	r							
8	Write a sh	ell script to fi	nd the greatest among the given set of numbers usir	יי וס כחי	nma	nd li	1e				
0.	arguments	8.	ing the groutest among the given set of numbers usin	-5 001		u 111					
9. 1	Write a sh	ell script for p	palindrome checking.								
10.	Write a sh	nell script to p	rint the multiplication table of the given argument us	sing fo	or lo	op.					

		Total Lecture hours	36 hours						
Te	ext Book(s)								
1	Operating	System LINUX, NIIT, PHI, 2006, Eastern Economy Edition.							
2	N.B. Venkateswarlu, Introduction to Linux: Installation and Programming, BS Publications,								
	2008, 1 st Edition								
Re	eference Bo	oks							
1	Richard 1	Petersen, Linux: The Complete Reference, Sixth Edition, Tata	McGraw-Hill						
	Publishin	g Company Limited, New Delhi, Edition 2008.							
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://w	ww.w3resource.com/linux-exercises/							
2	http://spo	ken-tutorial.org/							
3									
Co	ourse Desig	ned By:							

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	М	S	М	S	М	M	М		
CO3	S	S	S	М	S	Μ	S	S	M	М		
CO3	S	S	S	S	SOBB	₽® S	S	S	S	S		
CO4	S	S	S	S	S	S	S	S	S	S		
CO5	S	S	S	SE	S	S	S	S	S	S		
				BL			G.					

Commenced	Labor Safetanana Duria di Managana and	T	т	n	C					
	Lab – Software Project Management		1	P						
Core/Elective/Supportive	Skill Based Subject 2 (Lab) :1	0	0	4	3					
Pre-requisite	Basic knowledge in SDLC and managing of software projects	Sylla Vers	bus ion	2023 Onw	3-24 vard					
Course Objectives:										
The main objectives of this	course are to:									
1. To gain knowledge abo	out how to develop project plan									
2. To create requirement a	analysis and specification for software applications.	,								
3. Student is given an intr	3. Student is given an introduction of various phases of software development life cycle models.									
4. To analyze the steps are to be implemented using SDLC to develop applications.										
Expected Course Outcome	28:									
On the successful completi	on of the course, student will be able to:									
1Prepare a Project Plan with requirement analysis and specification.										
2 Understand and develop cost estimation model for real time applications.										
3 Implement the conce	pts of checkpoints in design phase			K	3					
4 Analyze the Development phase of the database and text area of the applications										
5 Create SDLC for real time applications.										
K1 - Remember: K2 - Und	erstand: K3 - Apply: K4 - Analyze: K5 - Evaluate:	K6 - (Trea	te						
,										
Programs			3	6 hou	ırs					
1. Preparation of Projec	t Managem <mark>ent Plan.</mark>									
2. Using any of the CA	SE tools, Practice requirement analysis and specific	cation f	for d	iffere	ent					
3. Case study of cost est	timation models									
4. Practice object orient	ed design principles for implementation.									
5. Practice function orie	ented design.									
6. Practice creating soft	ware documentation for the Analysis phase of software application	vare de	velo	pmer	nt					
7. Practice creating soft	ware documentation for the Development phase of	softwa	re							
development life cycl	le for a real time application.									
8. Practice creating soft	ware documentation for the Implementation phase of	of softv	vare							
development life cycl	le for a real time application.									
9. Practice creating soft	ware documentation for the Testing phase of softwa	are dev	elop	ment						
life cycle for a real tin	me application.									
10. Simulate a tool for ta	ating based on control structures									
12 Simulate a tool that r	effects black box testing concepts									
	Total Lecture hours		3	6 hoi	ars					
Text Book(s)										
1										
Reference Books										
1										
1										

Re	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1								
2								
3								

Course Designed By:

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	S	S	Μ	S	S	S	М		
CO3	S	S	S	S	S	Μ	S	S	S	М		
CO3	S	S	S	М	S	М	S	S	S	М		
CO4	S	S	S	М	S	S	S	S	S	S		
CO5	S	S	S	S	S	S	S	S	S	S		





Course co	de		RDBMS & Oracle	L	Т	P	С				
Core/Elec Supportiv	tive/ e		Core : 8	6	0	0	4				
Pre-requ	isite		Basic knowledge about the data, table and database in computers	Syllab Versio	us	2023 Onw	3-24¦				
Course O	viect	ives:		v er sie	<u>' II [</u>						
The main o	bjec	tives of thi	s course are to:								
1. The	cou	rse describe	es the data, organizing the data in database, database	adminis	stratio	on.					
2. To ;	grasp	the differe	nt issues involved in the design of a database system	1.							
3. To s	study	the physic	al and logical database designs and database modelin	ng like i	elati	onal.	,				
Hie	rarc	hical, netwo	ork models, database security, integrity and normaliz	ation.		-					
4. It al	so g	ives introdu	iction to SQL language to retrieve the data from the	latabase	e witl	1 sui	table				
application development.											
5. Provide strong foundation of database concepts and to introduce students to application											
dev	elopi	ment in DB	MS.								
Expected	Expected Course Outcomes:										
On the successful completion of the course, student will be able to:											
1 Und	ersta	and the basi	c concepts of Relational Data Model, Entity-			K	1-K2				
Rela	tion	ship Model	and process of Normalization								
2 Und	ersta	and and con	struct database using Structured Query Language			K	1-K3				
(SQ	(SQL) in Oracle9i environment.										
3 Lean	n ba	sics of PL/	SQL and develop programs using Cursors,			K	1-K4				
Exc	eptio	ns, Procedu	ares and Functions.								
4 Und	lerst	and and use	built-in functions and enhance the knowledge of			K	1-K3				
han	dling	g multiple t	ables								
5 Atta	in a	good pract	ical skill of managing and retrieving of data using			K	2-K4				
Dat	a Ma	inipulation	Language (DML) Combanne								
K1 - Ren	lemb	er; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	; K6 - C	create	2					
Unit:1			DATABASE CONCEPTS		1	<u>5 ho</u>	ours				
Database (Conc	epts: A Re	lational approach: Database – Relationships – DBN	1S – Re	elatio	nal I	Data				
Model – Ir	itegr	ity Rules –	Theoretical Relational Languages. Database Design	: Data I	Mode	eling	and				
Normaliza	tion:	Data Mod	eling – Dependency – Database Design – Normal	forms –	Dep	ende	ency				
Diagrams -	- De	-normaliza	tion – Another Example of Normalization.								
U:4.7			ODACIE0:		1	5 h					
	0	· D		0.		15 nc	Jurs				
Oracle9 <i>i</i> :	Ove	rview: Pers	Solutional Databases – Client/Server Databases – Oracle	e91 an 1	ntrod)n –				
SQL *Plu	s En	Vironment	- SQL - Logging into SQL *Plus - SQL *Plus Co	mmanc	S -	Erroi	'S &				
Help – Al	terna	ite Text Ed	tors - SQL *Plus worksheet - iSQL *Plus. Oracle I	ables: L	DL:	Nan	ning				
Kules and	con	Ventions –	Data Types – Constraints – Creating Oracle Table	= Disp	mayn Tab'	ng I	able				
- Spooling	и – т_ Г	Fror codes	Existing rable – Dropping, Kenaming, Truncating	i adie –	1 ad	le I y	pes				
- spooni	5 - L										
Unit:3			WORKING WITH TARLE		1	5 h	ours				
Working	with	Table [,] D	ata Management and Retrieval: DML – adding a	new R	ow/R	eco	rd –				
Customiz	ed P	rompts – U	pdating and Deleting an Existing Rows/Records –	retrievi	ıg D	ata f	rom				

Table – Arithmetic Operations – restricting Data with WHERE clause – Sorting – Revisiting Substitution Variables – DEFINE command – CASE structure. Functions and Grouping: Built-in functions –Grouping Data. Multiple Tables: Joins and Set operations: Join – Set operations.

U	nit:4	PL/SOL	15 hours								
PI	SOL: A P	rogramming Language: History – Fundamentals – Block Stru	cture – Comments –								
Da	ta Types -	- Other Data Types – Declaration – Assignment operation	– Bind variables –								
Su	bstitution V	Variables – Printing – Arithmetic Operators. Control Structures	and Embedded SQL:								
Co	ontrol Struc	tures – Nested Blocks – SQ L in PL/SQL – Data Manipu	lation – Transaction								
Co	ontrol stater	nents. PL/SQL Cursors and Exceptions: Cursors – Implicit &	Explicit Cursors and								
At	tributes – C	Cursor FOR loops – SELECTFOR UPDATE – WHERE CU	RRENT OF clause –								
Cı	Cursor with Parameters – Cursor Variables – Exceptions – Types of Exceptions.										
Uı	nit:5	PL/SQL COMPOSITE DATA TYPES	12 hours								
PL	PL/SQL Composite Data Types: Records – Tables – arrays. Named Blocks: Procedures –										
Fu	Functions – Packages – Triggers – Data Dictionary Views.										
Uı	nit:6	Contemporary Issues	3 hours								
Ex	Expert lectures, online seminars - webinars										
		Total Lecture hours	75 hours								
Te	ext Book(s)	் குலைக்கழகம்									
1	Database S	Systems using Oracle, Niles <mark>h Sh</mark> ah, 2nd edition, PHI.									
2	E-Book : I	Diana Lorentz, "Oracle® D <mark>ata</mark> base SQL Reference", ORACLE,	Dec, 2005.								
3	E-Book :	Bill Pribyl, Steven Feuer <mark>stein</mark> , "Oracle PL/SQL Programming",	O'Reilly Media, Inc.,								
	6 th Edition	, February 2014.									
		a construction of the second sec									
Re	eference Bo	ooks									
1	Database I	Management Systems, Majumdar & Bhattacharya, 2007, TMH.									
2	Database I	Management Systems, Gerald V. Post, 3rd edition, TMH.									
		FOUCATE TO ELEVATE									
Re	elated Onli	ne Contents IMOOC, SWAYAM, NPTEL, Websites etc.]									
1	http://www	w.digimat.in/nptel/courses/video/106105175/L01.html									
2	https://ww	vw.tutorialspoint.com/oracle_sql/index.htm									
		▲ ▲									
C	D '	15									

Course Designed By:

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	М	S	М	М	М	М	L		
CO2	S	S	S	М	S	M	М	М	М	L		
CO3	S	S	S	S	S	S	S	S	М	М		
CO4	S	S	S	S	S	M	S	S	Μ	L		
CO5	S	S	S	S	S	М	S	S	М	L		

Course code		Visual Basic	L	Т	Р	С					
Core/Elective/ Supportive		Core : 9	6	0	0	4					
Pre-requisite	-	Knowledge in programming language and oops	Syllat Vorsi		2023	-24¦					
Course Object	ives:	concept.	v er sig		JIW	aru ;					
The main object	tives of thi	s course are to:									
1. The mai	n aim of th	e course is to cover visual basic programming skills	require	d for	mod	lern					
software	e developm	ent.	1								
2. To study	2. To study the advantages of Controls available with visual basic.										
3. To gain a basic understanding of database access and management using data controls.											
4. To facili	tate the lea	rner to carry out project works using the tools availa	ble in V	'B an	d M	S					
Access.											
Eurostad Caus											
Expected Cour		nes:									
On the success	stul comple	etion of the course, student will be able to:		1	TT	7.1					
I Demonst	trate fundat	mental skills in utilizing the tools of a visual enviro	onment	such	K	.1					
as comm	as command, menus and toolbars.										
2 Impleme	nt SDI and	MDI applications using forms, dialogs and other ty	pes of	GUI	K	.2					
compone	components.										
3 Understa	3 Understand the connectivity between VB with MS-ACCESS database. K3										
4 Impleme	ent the met	hods and techniques to develop projects.			K	.4					
5 Attain a good practical skill of managing ODBC and Data Access Objects K2-K4											
K1 - Rememb	er; K2 - U	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	e; K6 - (Create	e						
		Completion Constraints									
Unit:1		INTRODUCTION TO VB		1	15 he	ours					
Getting Started	d with VE	36, Programming Environment, working with Fo	orms, D	evelo	ping	g an					
application, Va	riables, Da	ta types and Modules, procedures and control struct	ures, arr	ays.	Wor	king					
with Controls: (Creating ar	d using controls, working with control arrays.									
Unit:2		MENUS IN VB	1 51		15 h	ours					
Menus, Mouse Using the Flex	events an grid control	d Dialog boxes: Mouse events, Dialog boxes, MDI ol.	and Fle	ex gr	.d: N	4DI,					
	0										
Unit:3	(DDBC AND DATA ACCESS OBJECTS		1	5 h	ours					
ODBC and D	ata Access	Objects: Data Access Options, ODBC, Remote c	lata obje	ects,	Acti	veX					
EXE and Acti	iveX DLL:	Introduction, Creating an ActiveX EXE Compone	nt, Crea	ting	Acti	veX					
DLL Compon	ent.										
T T •4 4			1	1	<u> </u>						
		BJECT LINKING AND EMBEDDING		1 1 T T	5 h	ours					
Automation	g and Emb	E Drog and Drop. Eila and Eila System Container	Contro	I, US		JLE					
Automation 0	ojecis, OL	L Diag and Drop, File and File System Control: I	ne sys	iem (Lont	1018,					
Accessing filt	-0.										
Unit:5		CONTROLS IN VB		1	2 h	ours					
Additional con	ntrols in V	B: sstab control, setting properties at runtime. addir	ng contro	ols to	tab	, list					
control, tabstr	ip control,	MS Flexgrid control, Why ADO, Establishing a r	eference	e, Cry	/stal	and					

Da	ta reports.								
Un	i t:6	Contemporary Issues	3 hours						
Ex	pert lecture	s, online seminars - webinars							
		Total Lecture hours	75 hours						
Te	xt Book(s)								
1	Visual Bas	sic 6.0 Programming, Content Development Group, TMH, 8th re	eprint, 2007. (Unit I						
-	to Unit IV		·· · ·						
2	Programming with Visual Basic 6.0, Mohammed Azam, Vikas Publishing House, Fourth Reprint, 2006. (Unit V)								
	·								
Re	ference Bo	oks							
1	Gray Corn	ell (2003), "Visual Basic 6 from ground up" TMH, New Delhi,	1st Edition,						
2	Deitel and First Edition	Deitel, T.R.Nieto (1998), "Visual Basic 6 - How to Program", I on.	Pearson Education.						
Re	lated Onlin	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1		லிலக்கழக்							
2		Se Car							
3									
Co	urse Desig	ned By:							
		BE RANDERST.							

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	L	M ^{WUCATETC}	M	М	М	М	L			
CO2	S	S	S	М	М	М	S	S	М	L			
CO3	S	S	S	S	S	М	S	S	S	М			
CO4	S	S	S	S	S	S	S	S	S	S			
CO5	S	S	S	S	S	S	S	S	S	S			

Course code	Programming Lab – VB & Oracle	Т	Р	C			
Core/Elective/Supportive	Core Lab : 6 0	0	6	4			
Pre-requisite	Students should have the theoretical knowledge in visual basic and oops concept.Sylla Versi	bus ion	2023 Onw	3-24 ard			
Course Objectives:	•						
The main objectives of this 1. To develop application 2. To understand the des 3. To design and build da 4. To create requirement	course are to: ns using Graphical User Interface tools. ign concepts. atabase systems and demonstrate their competence. analysis and specification for software applications.						
Expected Course Outcom	nes:						
On the successful complet	tion of the course, student will be able to:						
1 Understand the conc	cepts of Visual Basic.		K	1			
2 Learn the advantage	es of Controls in VB		K	2			
3 Design and develop	the event- driven applications using Visual Basic framewor	rk.	K	3			
4 Apply the knowledg	e of database methods.		K	4			
 5 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions 							
K1 - Remember; K2 - Ur	nderstand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 -	– Cr	eate				
Programs	The second se	3	6 hou	irs			
1. Construction of an A	Arithmetic Calculator (Simple).						
 Writing simple prog a. Generate Fibona b. Find the sum of 3. Write a program to 	grams using loops and decision-making statements. cci series. N numbers. create a menu and MDI Forms.						
4. Write a program t	to display files in a directory using DriveListBox, DirL	.istE	Box a	nd			
5 Write a program to	illustrate Common Dialog Control and to open, edit and say	ve te	vt fil	e			
6 Write a program to	implement animation using timers						
7 Write a simple VB	program to accept a number as input and convert it into						
a Binary h Octa	l c Hexa-decimal						
Create a table for Et	mployae details with Employae Number as primary key an	d fo	11000	n a			
8. Create a table for En fields: Name, Designation perform various qu operators.	, Gender, Age, Date of Joining and Salary. Insert at least to eries using any one Comparison, Logical, Set, Sorting an	en ro	ollowi ows a roupi	ng nd ng			
9. Write a PL/SQL to table which has the new field (Alter) ca using PL/SQL block 10. Write a PL/SQL pro-	update the rate field by 20% more than the current rate following fields: Prono, ProName and Rate. After updatinalled for Number of item and place for values for the new k.	in i ng tl field	inven ne tab d with	tory le a nout			

	11. Write a PL/SOL program to implement the concept "Procedures".								
	12 Write a VB program to manipulate the student mark list with oracle da	tabase connectivity							
	12. White a VD program to manipulate the student mark list with brace da								
	program.	2(1							
	I otal Lecture hours	36 hours							
Te	ext Book(s)								
1	Visual Basic 6.0 Programming, Content Development Group, TMH, 8th re-	eprint, 2007. (Unit I							
	to Unit IV)	-							
2	Programming with Visual Basic 6.0, Mohammed Azam, Vikas Publishing House, Fourth								
	Reprint, 2006. (Unit V)								
3	E-Book : Bill Pribyl, Steven Feuerstein, "Oracle PL/SQL Programming".	O'Reilly Media, Inc.,							
	6 th Edition, February 2014.	, , , ,							
Re	eference Books								
1	Gray Cornell (2003), "Visual Basic 6 from ground up" TMH, New Delhi,	1 st Edition,							
2	Deitel and Deitel, T.R.Nieto (1998), "Visual Basic 6 – How to Program",	Pearson Education.							
2	First Edition.								
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1									
2									
3									
2									
C	C D I D								

				in the second se	. <u>.</u>		E.					
Mapping with Programme Outcomes												
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	L	M	L	S	M	М	L		
CO3	S	S	S	L	М	M	S	M	S	L		
CO3	S	S	S	М	SIAR	M	S	S	S	М		
CO4	S	S	S	M	S	М	Se S	S	М	М		
CO5	S	S	S	S	Silune	of 2Sunse	S	S	S	М		

Course code		PYTHON Programming	L	Т	P	С				
Core/Elective/ Supportive		Elective : I	6	0	0	4				
Pre-requisite		Knowledge on logic of the programs and oops concept.	Syllab Versio	ous on	202 Ony	3-24 ward				
Course Objecti	ives:	•								
The main object	tives of thi	s course are to:								
1. To in	troduce the	e fundamentals of Python Programming.								
2. To tea	ach about	the concept of Functions in Python.								
3. To in	npart the k	nowledge of Lists, Tuples, Files and Directories.								
4. To learn about dictionaries in python.										
5. To explores the object-oriented programming, Graphical programming aspects of python										
with l	help of bui	lt in modules								
	0.1									
Expected Cour	se Outcon									
On the success	ful comple	etion of the course, student will be able to:								
1 Remember	ering the c	concept of operators, data types, looping statement	s in Py	thon	K	.1				
programming.										
2 Understanding the concepts of Input / Output operations in file										
3 Applying the concept of functions and exception handling										
4 Analyzing the structures of list, tuples and maintaining dictionaries										
5 Demonstrate significant experience with python program development environment K										
K1 - Remember: K2 - Understand: K3 - Annly: K4 - Analyze: K5 - Evaluate: K6 - Create										
			,							
Unit:1		BASICS OF PYTHON		1	0 ha	ours				
BASICS : Pytho	on - Variał	bles - Executing Python from the Command Line - E	Editing I	Pytho	on Fi	les -				
Python Reserved	d Words -	Basic Syntax-Comments - Standard Data Types - R	elation	al Or	erat	ors -				
Logical Operato	ors - Bit W	ise Operators - Simple Input and Output.								
		CONTE TO ELET								
Unit:2		CONTROL STATEMENTS		1	10 ha	ours				
CONTROL STA	ATEMEN	TS: Control Flow and Syntax - Indenting - if Staten	nent - st	tatem	ents	and				
expressions- stri	ing operation	ions- Boolean Expressions -while Loop - break and	continu	1e - f	or L	oop.				
LISTS: List-list	t slices -	list methods - list loop – mutability – aliasing	- clonir	ng li	sts -	list				
parameters. TUI	PLES: Tup	ble assignment, tuple as return value -Sets – Dictiona	ries							
U:4-2		FUNCTIONS			(<u>0 h</u>					
UIIII:5	Definition	FUNCTIONS	wa Man							
FUNCTIONS: I	Second	- Passing parameters to a Function - Built-in function	ns-var		INUN	nber				
Manning Functi	- scope -	- Type conversion-Type coercion-rassing runch		а ги math		511 - me				
dir - beln Functi	ions in a D	ictionaly – Lambua - Modules - Standard Modules	- sys -	main	– u	me -				
Unit:4		ERROR HANDLING		1	2 ha	ours				
ERROR HAND	DLING R	un Time Errors - Exception Model - Exception F	lierarch	v - 1	Hand	lling				
Multiple Excent	tions - Dat	a Streams - Access Modes Writing - Data to a File	Reading	, - D	ata F	rom				
a File - Additio	onal File	Methods - Using Pipes as Data Streams - Handl	ing IO	Exce	eptio	ns -				
Working with D	oirectories.		C							

Uı	nit:5	OBJECT ORIENTED FEATURES	12 hours							
OB	JECT ORI	ENTED FEATURES: Classes Principles of Object Orientation	n - Creating Classes -							
Inst	ance Meth	ods - File Organization - Special Methods - Class Varial	oles – Inheritance –							
Pol	ymorphism	- Type Identification - Simple Character Matches - Special C	Characters - Character							
Cla	sses – Quai	ntifiers - Dot Character - Greedy Matches - Grouping - Matc	hing at Beginning or							
Enc	End - Match Objects – Substituting - Splitting a String - Compiling Regular Expressions.									
Uı	nit:6	Contemporary Issues	3 hours							
Ех	pert lecture	s, online seminars - webinars								
		Total Lecture hours	55 hours							
Т	ext Book(s)									
1	Mark Sum	merfield, Programming in Python 3: A Complete introduction	to the Python							
	Language,	Language, Addison-Wesley Professional, 2009.								
2	Martin C.	Martin C. Brown, PYTHON: The Complete Reference, McGraw-Hill, 2001								
2	E. Balagurusamy (2017), "Problem Solving and Python Programming", McGraw-Hill, First									
3	Edition.									
Re	eference Bo	oks								
1	Allen B. D	owney, "Think Python: How to Think Like a Computer Scient:	ist", 2nd edition,							
	Updated for	or Python 3, Shroff/O'Reilly Publishers, 2016								
r	Guido van	Rossum and Fred L. Drake Jr, An Introduction to Python - Re	vised and updated for							
Z	Python 3.2	2, Network Theory Ltd., 2011								
3	Wesley J G	Chun, Core Python Appli <mark>cations Programmingl, Pre</mark> ntice Hall, 2	2012.							
		The second s								
R	elated Onlin	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
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2		Vigita Combature 60								
3		இந்தப்பாரை உயர் ^{ந்த}								
		CATE IN ELEN								
Co	ourse Design	ned By:								

Mappi	Mapping with Programme Outcomes													
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10				
CO1	S	S	S	L	S	М	L	М	S	S				
CO2	S	S	S	L	S	М	L	М	S	S				
CO3	S	S	S	L	S	М	L	М	S	S				
CO4	S	S	S	L	S	М	L	М	S	S				
CO5	S	S	S	L	S	M	L	M	S	S				

Cou	rse code		Computer Networks	L	Т	P	С			
Cor Sup	e/Elective/ portive	1	Elective : I	6	0	0	4			
Pre	e-requisite	,	Students should have the knowledge on computer connectivity and connectivity peripherals.	Syllab Versio	us n	2023 Onw	3-24 /ard			
Cou	rse Objec	tives:								
The	main objec	ctives of thi	s course are to:				2			
	1. To ide	ntify variou	s components in a data communication system and u	ndersta	nd st	ate-o	of-			
	the-ar	t in network	protocols, architectures and applications.							
	2. To ena	ble students	s through the concepts of computer networks, differen	nt mode	els ai	nd th	eir			
involvement in each stage of network communication.										
	3. To educate the concepts of terminology and concepts of the OSI reference model and the									
	TCP/II	P reference	model and protocols such as TCP, UDP and IP.	,	c					
	4. To be $\frac{1}{2}$	tamiliar wit	h the concepts of protocols, network interfaces, and c	lesign/p	berto	rmar	ice			
	1ssues	in local area	a networks and wide area networks.	11			1			
	5. Introdu	ice the stud	ent to a network routing for IP networks and how a c	ollision	occ	urs a	nd			
	how to	solve it and	a now a frame is created and character count of each	frame.						
Fun	acted Con	was Outsom								
Exp										
On	the succes	siul comple	etion of the course, student will be able to:							
1	Rememb	per the org	anization of computer networks, factors influencing	g comp	outer	K	.1			
	network	developme	ent and the reasons for having variety of different	nt type	s of					
	network	S.								
2	Understa	and Interne	t structure and can see how standard problems are	solved	and	K	.2			
	the use of	of cryptogra	phy and network security.							
3	Apply k	nowledge o	f different techniques of error detection and correction	on to de	etect	K	3			
	and solv	e error bit c	luring data transmission.							
4	Analyze	the require	ments for a given organizational structure and select	the mos	st	K	[4			
5	Knowle	dge about d	ifferent computer networks, reference models and th	e functi	ions	ĸ	'2-K4			
5	of each	laver in the	models		10115	13	-117			
K1	- Rememb	ber; K2 - U1	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 - C	Creat	e				
		-								
Un	it:1	BA	ASICS OF NETWORKS AND OSI MODEL			15 ho	ours			
Netv	vork Hard	ware: LAN	I – WAN – MAN – Wireless – Home Networks.	Netwo	ork S	Softw	vare:			
Prote	ocol Hiera	rchies – D	esign Issues for the Layers – Connection-oriented	and c	onne	ction	iless			
servi	ices – Serv	vice Primiti	ves – The Relationship of services to Protocols. Rel	ference	Mod	lels:	OSI			
Refe	rence Mo	del – TCP/	IP reference Model – Comparison of OSI and TCP.	/IP -Cr	itiqu	e of	OSI			
and	protocols -	- Critique o	f the TCP/IP Reference model.		1					
Un	it:2		PHYSICAL LAYER			15 ho	ours			
PHY	SICAL L	AYER - G	uided Transmission Media: Magnetic Media – Tw	isted P	air –	Coa	axial			
Cabl	e – Fiber	Optics. Wit	reless Transmission: Electromagnetic Spectrum – R	adio Tr	ansr	nissi	on –			
Mici	rowave Tr	ransmission	- Infrared and Millimeter Waves - Light Wav	ves. Co	mm	unica	ition			
Sate	llites: Geo	stationary, l	Medium-Earth Orbit, Low Earth-orbit Satellites – Sat	ellites v	versu	ıs Fił	ber.			

Ur	nit:3	DATA-LINK LAYER	15 hours
DA	TA-LINK	LAYER: Error Detection and correction – Elementary Data-lin	k Protocols – Sliding
Wir	ndow Proto	cols. MEDIUM-ACCESS CONTROL SUB LAYER: Multiple	e Access Protocols –
Eth	ernet – Wir	eless LANs - Broadband Wireless – Bluetooth.	
TT	• •		
Ur	nit:4	NETWORK LAYER	15 hours
NE	TWORK L	AYER: Routing algorithms – Congestion Control Algorithms	. TRANSPORT
LA	YER: Elem	ents of Transport Protocols – Internet Transport Protocols: TCP	•
Ur	nit·5	APPLICATION LAVER	12 hours
	PLICATIO	N LAYER: DNS – F-mail NETWORK SECURITY: Crypto	graphy – Symmetric
Key	Algorithm	s – Public Key Algorithms – Digital Signatures.	gruphy Symmetrie
	0	, , , , , , , , , , , , , , , , , , , ,	
Ur	Unit:6 Contemporary Issues		3 hours
Ex	pert lecture	es, online seminars - webinars	
		Total Lecture hours	75 hours
Te	xt Book(s)		
1	Computer	Networks, Andrew S. Tanenbaum, 4th edition, PHI. (UNIT-I:1.	2-1.4 UNIT-II:2.2-2.4
	UNIT-III:	4.2-4.6 UNIT-IV:5.2,5.3,6.2,6.5 UNIT-V:7.1,7.2,8.1-8.4)	
		interference and a superior of the superior of	
Re	eference Bo	ooks a land a	
1	Data Com	munication and Networks, Achyut Godbole, 2007, TMH.	
2	Computer	Networks: Protocols, Standards, and Interfaces, Uyless Black, 2	2nd ed, PHI
3		a martine	
		B HATHIAD INNE	
Re	lated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1		க்கப்பாரை உயர்ந்த	
2		SOCATE TO ELEVEN	
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Co	ourse Desig	ned By:	

Mappi	Mapping with Programme Outcomes													
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10				
CO1	S	М	S	L	S	М	L	М	S	S				
CO2	S	М	S	L	S	М	L	М	S	S				
CO3	S	М	S	L	S	М	L	М	S	S				
CO4	S	М	S	L	S	М	L	М	S	S				
CO5	S	М	S	L	S	М	L	М	S	S				

Cou	rse code		Organizational Behaviour	L	Т	Р	С				
Core Supj	e/Elective/ portive		Elective : I	6	0	0	4				
Pre	-requisite		Basic knowledge in human behavior skills	Syllab	us	2023 Onw	3-24 ard				
Cou	rse Object	tives:									
The	main objec	ctives of this	s course are to:								
1	. To help t	he students	to develop cognizance of the importance of human l	pehavio	ur.						
2	. To enabl	e students 1	o describe how people behave under different conc	litions a	ind u	nder	stand				
2	why peop	ple behave	as they do.	1	1	c c					
3	action.										
action. A To enable students to synthesize related information and evaluate options for the most logical											
+	and optimal solution such that they would be able to predict and control human behaviour and										
improve results.											
Expected Course Outcomes:											
On	the succes	sful comple	tion of the course, student will be able to:			Т					
1	1 Demonstrate the applicability of the concept of organizational behavior to 1										
2	Dovelop	Managaria	skills for Individual Pahaviora			V	` `				
2				· · ·	41						
3	Analyze	the comple	xities associated with management of the group ben ze how to manage the Stress during a job	avior in	the	K	.3				
4	Develop	an Organiz	ational Behaviour model for any type of Organization	on.		K	3				
5	Analyze	the Comm	on biases and <mark>eradication in Decision M</mark> aking Proce	ss.		K	4				
K1	- Rememb	oer; K2 - Ur	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate	; K6 - C	Create	e					
			to the set of	<u>.</u>							
Uni	it:1		INTRODUCTION		1	l 5 h o	ours				
Intro	duction to	o Organizat	ional Behavior –Related Disciplines – Theoretica	l Frame	worl	- X					
Orga	nizational	Approache	s – Modern Organizational Scenario: Impact of Glo	salizatio	on						
Uni	+.7					5 h					
Indix	u.2 vidual Reh	avior De	reantion Process Changes Personality and At	titudes	Ioł		Juis				
Satis	faction		ception – 1 locess – Changes - 1 ersonanty and At	inuacs -	- 300	,					
Dutib	Idenoir										
Uni	it:3		MOTIVATION			15 ho	ours				
Moti	vation: Ne	eeds, Conte	nt and Process: Motivation: Content Theories -ghh-	- Proces	ss Tł	eori	es –				
Cont	emporary	Theories –	Motivation Applied – Job Design and Goal setting.	Leader	ship						
Back	ground – I	Process- Sty	les – Activities – Skills		1						
Uni	t:4		GROUP			l5 ho	ours				
Grou	p Dynami	cs - The n	ature of Informal Organizations – Formal Groups -	- Interac	ctive	conf	lict:				
Inter	Interpersonal conflict – Inter-group behavior and conflict – Negotiation Skills: Going beyond										
conf	ict manag	ement – Tra	autional Negotiation Approaches - Contemporary no	egotiatio	on sk	111S.					

Ur	nit:5	COMMUNICATION	12 hours								
Cor	nmunicatio	n – Role and background – Interpersonal communic	cation – Informal								
con	nmunication	n- The Decision Making process – Participative Decision n	naking techniques –								
Org	anization d	esign – culture – Organization change and development									
U	nit:6	Contemporary Issues	3 hours								
Ex	pert lecture	s, online seminars - webinars									
L		Total Lecture hours	75 hours								
Те	ext Book(s)										
1	Fred Lutha	ans, Organizational Behavior, 9th Edition, McGraw Hill Irwin, 2	2002.								
2	John W. N	ewstorm and Keith Davis, Organizational Behavior, 10th Edition	on.								
Re	eference Bo	ooks									
1	Robbins, S	S. P., & Judge, T. (2013). Organizational behavior (15th ed.). Bo	oston: Pearson.								
2	Newstrom	J. W., & Davis, K. (2011). Human behavior at work (12th ed.).	Tata McGraw Hill								
		லக்கமக									
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
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Co	ourse Desig	ned By:									
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Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	L	М	М	S	L	S	S	S	М	М			
CO2	L	L	S	М	L	М	S	М	S	S			
CO3	L	М	S	L	L	М	S	М	S	S			
CO4	L	L	М	L	М	М	S	М	S	S			
CO5	L	М	S	L	L	М	S	М	S	S			

Course code		Software Testing	L	Т	Р	С				
Core/Elective/ Supportive	1	Skill based Subject : 3	6	0	0	3				
Pre-requisite		Basic knowledge in software project and SDLC	Syllab		2023 Onw	3-24 ard				
Course Object	tives:									
The main object	ctives of thi	s course are to:								
1. To s	tudy funda	mental concepts in software testing								
2. To c	liscuss vario	bus software testing issues and solutions in software	unit test	t, inte	egrat	ion				
and	system test	ing.	1 0							
3. To e	expose the a	dvanced software testing topics, such as object-orier	nted soft	ware	test	ing				
methods.										
4. List a range of different software testing techniques and strategies and be able to apply										
spec	cific automa	ated unit testing method to the projects.								
Expected Cou	rsa Autoor	nos•								
On the succes	sful comple	acts.								
1 Explain	$\frac{1}{1}$	processes that lead to software testin	n		K	· ?				
2 Design t	est cases fro	on the given requirements using Black hox testing to	5 echniau	-5	K	3				
3 Identify	the test case	es from Source code by means of white box testing t	echniqu	es	K	3				
4 Know al	now about user acceptance testing and generate test cases for it K4									
5 Examine	e the test ad	equacy criteria to complete the testing process			K	4				
K1 - Rememb	per: K2 - U1	nderstand: K3 - Apply: K4 - Analyze: K5 - Evaluate	: K6 - (reate) }					
			,		-					
Unit:1	SOFTW	ARE DEVELOPMENT LIFE CYCLE MODELS	8	1	5 ho	ours				
Software Dev	elopment l	Life Cycle models: Phases of Software project	– Qua	ılity,	Qu	ality				
Assurance, Qu	ality contro	ol – Testing, Verification and Validation – Process	s Model	l to r	epre	sent				
Different Phas	es - Life C	ycle models. White-Box Testing: Static Testing –	Structu	ral T	esti	1g –				
Challenges in V	White-Box	Testing.								
		EDUCATE TO ELEVATE								
Unit:2		BLACK-BOX TESTING		1	15 ho	ours				
Black-Box Tes	sting: What	is Black-Box Testing? - Why Black-Box Testing?	– When	to d	o Bl	ack-				
Box Testing? -	- How to d	o Black-Box Testing? – Challenges in White Box	Testing	- Int	tegra	ition				
Testing: Integr	ration Test	ing as Type of Testing – Integration Testing as	a Phase	e f T	estir	ıg –				
Scenario Testii	ng – Defect	Bash.								
Unit:3	SI	STEM AND ACCEPTANCE TESTING		1	5 h	ours				
System and Acceptance Testing: system Testing Overview Why System testing is done?										
Functional versus Non-functional Testing - Functional testing - Non-functional Testing -										
Acceptance Te	sting – Sun	mary of Testing Phases.	unetion	AI I.	esem	Б				
	2000 2000									
Unit:4		PERFORMANCE TESTING		1	l5 ho	ours				
Factors govern	ning Perfor	rmance Testing – Methodology of Performance	Testing	; – t	ools	for				
Performance T	esting – Pro	ocess for Performance Testing – Challenges. Regres	sion Tes	sting:	Wh	at is				
Regression Tes	Regression Testing – Types of Regression Testing – When to do Regression Testing – How to do									
Regression Tes	sting – Best	Practices in Regression Testing.								

Ur	nit:5	TEST PLANNING, MANAGEMENT, EXECUTION	12 hours								
Ter	t Planning	AND REFORTING Management Execution and Penorting: Test Planning Test	t Management Test								
Pro	ress – Tes	t Reporting _Best Practices Test Metrics and Measurement	ts: Project Metrics _								
Pro	Progress Metrics – Productivity Metrics – Release Metrics										
110											
Ur	Unit:6 Contemporary Issues 3 hours										
Ex	Expert lectures, online seminars - webinars										
	-										
		Total Lecture hours	75 hours								
Te	xt Book(s)										
1	Software 7	Festing Principles and Practices, Srinivasan Desikan & Gopals	swamy Ramesh, 2006,								
	Pearson E	ducation. (UNIT-I: 2.1-2.5, 3.1-3.4 UNIT-II: 4.1-4.4, 5.1-5.	5 UNIT III: 6 .1-6.7								
	(UNIT IV:	7.1-7.6, 8.1-8.5 UNIT-V: 15.1-15.6, 17.4-17.7)									
2	Limaye M	.G., "Software Testing Principles, Techniques and Tools", Seco	ond Reprint, TMH								
2	Publishers	, 2010.	D1 2012								
3	Aditya P.N	Aathur, "Foundations of Software Testing", 2nd Edition, Pearso	on Education, 2013.								
D.	f D.	-l									
Ke	eterence Bo	loks									
1	Effective I	Methods of Software Testing, William E. Perry, 3rd ed, Wiley I	ndia.								
2	Software 7	Festing, Renu Rajani, Pradeep Oak <mark>, 2007, TMH</mark> .									
		So Can									
Re	lated Onli	ne Contents [MOOC, S <mark>WAYAM, NPTEL, Webs</mark> ites etc.]									
1											
2		transformation and the									
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Co	ourse Desig	ned By:									
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Mappi	Mapping with Programme Outcomes													
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10				
CO1	S	S	S	L	S	М	L	М	S	S				
CO2	S	М	S	L	S	М	L	М	S	М				
CO3	S	S	S	L	S	М	L	М	S	S				
CO4	S	М	S	L	S	М	L	М	S	М				
CO5	S	S	S	L	S	М	L	М	S	S				



Cou	rse code		Graphics & Multimedia	L	Т	Р	С					
Core	e/Elective/		Core: 10	5	0	0	4					
Pre	-requisite		Basic knowledge in 2D, 3D and multimedia file formats	Syllab Versio	ous on	2023 Onw	3-24 ard					
Cou	rse Objecti	ives:					/					
The	main objec	tives of thi	s course are to:									
	1. Desig	gn and app	ly two dimensional graphics and transformations.									
	2. Desig	gn and app	ly three dimensional graphics and transformations.									
	3. Appl 4. Unde	y Illuminat erstood Dif	tion, color models and clipping techniques to graphic ferent types of Multimedia File Format.	s.								
Fyn	atad Cour	so Outoon	2051									
On the successful completion of the course, student will be able to:												
1	On the successful completion of the course, student will be able to:											
1	Explain applications, principles, commonly used and techniques of computer K2 graphics and algorithms for Line-Drawing, Circle- Generating and Ellipse-Generating.											
2 Students will get the concepts of 2D and 3D, Viewing, Curves and surfaces, K												
Hidden												
Line/surface elimination techniques												
3	Studies c	oncepts of	Multimedia Systems, Text, Audio and Video tools			K	3					
4	Compress	sing audio	and video using MPEG-1 and MPEG-2			K	4					
5	Creates A	nimation v	vith special effects using algorithms			K	6					
K1	- Rememb	er; K2 - Ur	nderstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	; K6 - C	Create	e						
Uni	it:1		OUTPUT PRIMITIVES]	l5 ho	ours					
Outp	out Primitiv	ves: Points	and Lines - Line-Drawing algorithms - Loading	frame I	Buffe	r - 1	Line					
funct	tion – Ciro	cle-Genera	ting algorithms – Ellipse-generating algorithms. A	Attribut	es o	f Ot	ıtput					
Prim	itives: Line	e Attributes	s – Curve attributes – Color and Grayscale Levels –	Area-fi	ll att	ribut	es –					
Char	acter Attrit	outes.										
Uni	it:2	2	D GEOMETRIC TRANSFORMATIONS			15 ho	ours					
2D (Geometric	Transform	ations: Basic Transformations – Matrix Represent	tations	– C	omp	osite					
Tran	sformation	s – Other	Transformations. 2D Viewing: The Viewing Pipe	line –	Viev	ving	Co-					
ordir	nate Refere	nce Frame	- Window-to-Viewport Co-ordinate Transformation	n - 2D V	/iew	ing						
Func	tions – Cli	pping Oper	rations.			-						
Un	it:3	· — · · · ·				15 ho)urs					
form	: Types of	I ext – Ui	nicode Standard – Font – Insertion of lext – lext	compr	Prov	n –	File					
Scan Indej Mon	ner – Digit pendent Co itor and Pri	al Camera olor Mode inter.	– Interface Standards – Specification of Digital Ima ls – Image Processing software – File Formats -	ges – C – Imag	MS e Oi	– De itput	vice on					

Unit:4	AUDIO	15 hours								
Audio: Introduction – Acoustics – Nature of Sound Waves – Fundamental Characteristics of Sound – Microphone – Amplifier – Loudspeaker – Audio Mixer – Digital Audio – Synthesizers – MIDL –										
 Microphone 	- Amplifier - Loudspeaker - Audio Mixer - Digital Audio - S	ynthesizers – MIDI –								
Basics of Staf	f Notation – Sound Card – Audio Transmission – Audio File for	rmats and CODECs –								
Audio Record	ing Systems - Audio and Multimedia - Voice Recognition and	nd Response - Audio								
Processing So	ftware.									
Unit:5	VIDEO AND ANIMATION	12 hours								
Video: Analo	g Video Camera – Transmission of Video Signals – Vide	eo Signal Formats –								
Television Br	oadcasting Standards - PC Video - Video File Formats and	d CODECs – Video								
Editing – Vi	deo Editing Software. Animation: Types of Animation -	Computer Assisted								
Animation –	Creating Movement – Principles of Animation – Some Techni	ques of Animation –								
Animation on	the Web - Special Effects - Rendering Algorithms. Compressi-	on: MPEG-1 Audio –								
MPEG-1 Vide	o - MPEG-2Audio – MPEG-2 Video.									
Unit:6	Contemporary Issues	3 hours								
Expert lectur	es, online seminars - webinars									
	Total Lecture hours	75 hours								
Text Book(s										
1 Compute 4.5 & UN	Graphics, Donald Hearn, M.Pauline Baker, 2nd edition, PHI. (UIT-II: 5.1-5.4.6.1-6.5)	UNIT-I: 3.1-3.6,4.1-								
2 Principles	of Multimedia, Ranjan Parekh, 2007, TMH. (UNIT III: 4.1-4.7	,5.1-5.16 UNIT-IV:								
7.1-7.3,7.	8-7.14,7.18-7.20,7.22,7.2 <mark>4,7.26-28 UNIT-V: 9.5-9.1</mark> 0,9.13,9.15	,10.10-10.13)								
	a man i									
Reference B	ooks									
1 Computer	Graphics, Amarendra N Sinha, Arun D Udai, TMH.									
2 Multimed	2 Multimedia: Making it Work, Tay Vaughan, 7th edition, TMH.									
	SOUCATE TO ELEVATO									
Related Onl	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1										
Course Desig	gned By:									

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	М	S	М	S	S	S	М			
CO2	S	S	S	М	S	М	М	М	S	М			
CO3	S	М	М	М	S	М	М	М	S	М			
CO4	S	S	S	М	S	М	М	М	S	М			
CO5	S	S	S	М	S	М	S	S	S	М			

C					р	• • •	XX 7 I	T 1			T	T	D	C
Cou	rse code				Pro	oject	Work	k Lab			L	I	ľ	C
Core e	e/Elective/	Supportiv	V			Со	ore: 11	-			0	0	5	8
Pre	-requisite		St on	tudents sh ne of the p	ould ha program	ave the nming	ie stroi g lang	ng kno uages i	wledge in this co	in any ourse.	Syllab Versio	ous on	202 Onv	3-24 vard
Cou	rse Object	tives:												
The	nain objec	tives of thi	nis co	ourse are	to:									
	l. To unde	rstand and	l sele	ect the tas	sk based	d on tł	their co	ore ski	11s.					
	2. To get th	ne knowled	dge a	about ana	lytical s	skill f	for sol	lving t	he select	ted task	•			
	3. To get confidence for implementing the task and solving the real time problems.													
4	4. Express technical and behavioral ideas and thought in oral settings.													
4	5. Prepare and conduct oral presentations													
Expe	ected Cou	rse Outcor	mes	:										
On	the succes	sful comple	letio	on of the c	ourse, s	studer	nt will	l be ab	le to:					
1	Formula	te a real w	worl	ld probler	m and o	devel	lop its	s requ	irements	s develo	op a de	sign	K	3
	solution	for a set of	f req	quirement	s.									
2	Test and	validate th	the c	conformar	nce of the	the de	evelop	oed pro	ototype a	against	the orig	inal	K	.5
	requirem	ents of the	e pro	oblem.										
3	Work as software	s a respons solutions.	ısıble	e membe	r and p	possit	bly a	leader	of a to	eam 1n	develo	oing	K	.3
4	Express 1	technical id	ideas	s, strategie	es and n	metho	odolog	gies in	written	form. S	elf-learı	1	K	(1-K4
	new tool	s, algorithn	ms a	and techni	iq <mark>ues t</mark> ha	nat cor	ntribu	te to th	ne softw	are solu	tion of			
	the proje	ct.		> 4		A dist			94. 194	1				
5	Generate	alternative	ve sol	lutions, co	ompare	them	n and s	select	the optir	num on	e.		K	.6
K1	- Rememb	er; K2 - U1	Jnder	erstand; K	3 - App	oly; K	K4 - A	nalyze	; K5 - E	valuate	; K6 - C	Create	e	
					N BQ:		AR UN	INE	in S					
				AIM OF	FTHE	PRO)JECT	r wo	RK					
1.	The aim	of the proj	oject	work is	to acqu	iire pi	oractic	al kno	wledge	on the	implem	entat	ion o	of the
	programi	ming conce	epts	studied.										

- 2. Each student should carry out individually one project work and it may be a work using the software packages that they have learned or the implementation of concepts from the papers studied or implementation of any innovative idea focusing on application oriented concepts.
- 3. The project work should be compulsorily done in the college only under the supervision of the department staff concerned.

VivaVoce

- Viva-Voce will be conducted at the end of the year by both Internal (Respective Guides) and External Examiners, after duly verifying the Annexure Report available in the College, for a total of 100 marks at the last day of the practical session.
- 1. Out of 100 marks, 25 marks for CIA and 75 for CEE (50 evaluation of project report + 25 Viva Voce).

Project Report Format PROJECT WORK TITLE OF THE DISSERTATION Bonafide Work Done by STUDENT NAME REG. NO. Dissertation submitted in partial fulfillment of the requirements for the award of <Name of the Degree> of Bharathiar University, Coimbatore-46. College Logo Signature of the Guide Signature of the HOD Submitted for the Viva-Voce Examination held on Internal Examiner External Examiner Month – Year **CONTENTS** Acknowledgement Contents **Synopsis 1. Introduction Organization Profile** System Specification Hardware Configuration Software Specification 2. System Study **Existing System** Drawbacks

Proposed System
Features
3. System Design and Development
File Design
Input Design
Output Design
Database Design
System Development
Description of Modules (Detailed explanation about the project work)
4. Testing and Implementation
5. Conclusion
Bibliography
Appendices
A. Data Flow Diagram
B. Table Structure
C. Sample Coding
D. Sample Input
E. Sample Output
Course Designed By:

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1				திய			க்தா						
CO2				1.B	and the second								
CO3				LID	RATHURS	WINERST	GL6						
CO4				A BREAK	Coimba	tore	3,0160						
CO5					^{ப இ} ந்தப்பான ^{EDUCATE TO}	பர உயர்த்த ELEVATE							

Cou	rse code		Programming Lab – Graphics & Multimedia	L	Т	Р	С			
Core	e/Elective/	Supportive	Core Lab : 7	0	0	6	4			
Pre	e-requisite		Students should have the basic knowledge on C and C++ to do computer graphics and multimedia applications.	Sylla Versi	Syllabus <mark>/2023-24</mark> Version / <u>Onward</u>					
Cou	rse Object	tives:		-4						
The	main objec	ctives of this	course are to:							
1.	To learn th	he basic princ	ciples of 2-dimensional computer graphics.							
2.	Provide a	n understand	ling of how to scan convert the basic geometrical	primi	ives	, hov	v to			
	transform	the shapes to	fit them as per the picture definition.	1		-				
3.	Provide	an understand	ding of mapping from a world coordinates to device	e coord	linat	es,				
	clipping a	nd projection	S.			,				
4.	To be able	e to discuss th	ne application of computer graphics concepts in the	develo	pme	nt of				
	computer	games, inform	nation visualization and business applications.		•					
5.	To compre	ehend and an	alyse the fundamentals of animation, virtual reality,	under	lyin	z				
	technolog	gies, principle	es and applications.			-				
Exp	ected Cou	rse Outcome	28:							
On	the succes	sful completi	on of the course, student will be able to:							
1	Underst	and the basic	concepts of computer graphics.			K	1			
2	Design	scan convers	ion problems using C and C++ programming.			K	2			
3	Apply c	lipping and f	illing techn <mark>ique</mark> s for modifyin <mark>g an obj</mark> ect.			K	3			
4	Underst objects	and the conce in 2D.	epts of different type of geometric transformation of			K	[4			
5	Underst viewing	and and deve of objects in	lop the practical implementation of modeling, rende	ring,		K	6			
K1	- Rememb	oer; K2 - Und	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 – (Crea	te				
			EDUCATE TO ELEVATE							
Pro	ograms				3	6 hou	irs			
	pnics Write as	program to re	state en image							
2	Write a	program to d	ron each word of a sentence one by one from the top							
3	B. Write a	program to d	rop a line using DDA Algorithm.	/.						
4	. Write a	program to m	nove a car with sound effect.							
5	5. Write a	program to b	ounce a ball and move it with sound effect.							
6	6. Write a	program to te	est whether a given pixel is inside or outside or on a	polygo	on.					
Mu	ltimedia									
<u> </u>	Create S	Sun Flower us	sing Photoshop.							
8	8. Animate Plane flying in the Clouds using Photoshop.									
1	 Create Flastic Surgery for the Nose using Photoshop. Create See through text using Photoshop. 									
1	1. Create a	a Web Page u	using Photoshop.							
1	2. Conver	t Black and V	White Photo to Color Photo using Photoshop.							
		Total Lecture hours 36 hours								

Te	ext Book(s)						
1	Computer Graphics, Donald Hearn, M.Pauline Baker, 2 nd edition, PHI.						
2	Principles of Multimedia, Ranjan Parekh, 2007, TMH.						
Re	eference Books						
1	Computer Graphics, Amarendra N Sinha, Arun D Udai, TMH.						
2	Multimedia: Making it Work, Tay Vaughan, 7 th edition, TMH.						
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1							
2							
3							
\sim							

Course Designed By:

Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
CO1	S	М	М	М	S	М	L	L	М	L	
CO3	S	S	S	М	М	М	М	М	М	L	
CO3	S	S	S	М	S	М	М	М	М	L	
CO4	S	S	S	S	SOBB	PoM	М	М	М	М	
CO5	S	S	S	S	S	M	S	S	S	М	
							5				



Course code	Network Security and Cryptography	L	Т	Р	С					
Core/Elective/ Supportive	Elective: II	5	0	0	4					
Pre-requisite	Basic knowledge on security threats in networking	Syllabı Versior	1S 1	2023 Onv	2023-24 Onward					
Course Objectives				•						
The main objective	s of this course are to:									
1. To learn the	need for network security and security approaches.	1 .1	1							
2. To inculcate	the concept of transferring authentic data along the netword	rk with s	evera	L						
3. To enrich the knowledge on different types of Internet Security Protocols.										
	5. To emiter the knowledge on different types of internet becarity Flotocols.									
Expected Course	Outcomes:									
On the successful	completion of the course, student will be able to:									
1 Remember th	he basic concept of Cryptography and various types of atta	cks.		K1						
2 Understand a	about various types of protocols for Internet Security.			K2						
3 Implement v	arious algorithms for Cryptography			K3						
4 Review Firev	wall and IP security			K4						
5 To be famili	ar with network security threats and countermeasure			K3	-K5					
K1 - Remember; I	K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluat	e; K6 - (Create							
Unit:1	SERVICE MECHANISM	1 6	1: 	5 hou	rs 					
symmetric Cipher t	n and allacks – The OSI security architecture – A model	= simple	ified (secui les _1	niy – block					
chipper principles -	- the strength of des – block chipper design principles and	modes o	f oper	ation.	OIOCK					
			I							
Unit:2	TYPES OF DES MAR UNIVERSE			12 h	ours					
Triple des-blow fis	sh – RCS Advanced Symmetric Block Ciphers –RC4 stre	am Ciph	er con	nfiden	tially					
using symmetric en	cryption – introduction to number theory – public – key cr	yptograj	bhy an	id RS	A.					
Unit:3	KEY MANAGEMENT			15 h	ours					
Key management -	- Diffle Hellman key exchange – message authentication	and hasł	n func	tion –	hash					
algorithm – digital	signature and authentication protocols - digital signature s	tandard.								
Unit:4	AUTHENTICATION	1		15 h	ours					
Authentication app	blication – pretty good privacy – S/MIME – ip security	v – web	secui	ity						
	are socket layer transport layer security –secure electronic	transact	1011.							
Unit:5	INTRUDERS			15 h	ours					
Intruders -intrusio	n detection - password management -viruses and relat	ed threa	ts – v	virus						
countermeasures –	fire wall design principles – trusted systems									
Tu:4	Contenue Incon			21						
Unit:0 Expert lectures or	Contemporary Issues			3 n	ours					
	mine seminars – weomars									
	Total Lecture hours			75 h	ours					

Text Book(s)
1 William Stallings, Cryptography and Network Security Principles and Practices, Fourth edition,
PHI Education Asia
Reference Books
1 Atul Kahate, Cryptography and Network Security, 2nd Edition, TMH.
2 Behrouz A.Forouzan, Cryptography and Network Security, TMH.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1
2
3
Course Designed By:

Mapping with Programme Outcomes										
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	L	S No.	Part	L	L	S	S
CO2	S	М	S	L	S	L	М	L	S	S
CO3	S	S	S	L	S	L	М	L	S	S
CO4	S	М	S	L	S	L	M	L	S	S
CO5	S	S	S	L	S	L	М	L	S	S
				100	RATHIAR	WER	.9 3			

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Course code	Artificial Intelligence and Expert Systems	L	Т	Р	С			
Core/Elective/ Supportive	Elective: II	5	0	0	4			
Pre-requisite	Basic knowledge on knowledge representation, reasoning and problem solving skills	Syllab Versio	us n	2023-24 Onward				
Course Objectives:								
The main objectives of	this course are to:							
1. To understand	he basic concepts of Artificial Intelligence and identify	the AI	probl	ems	and			
domains.								
2. To provide search techniques to solve the problems.								
3. To represent an	d access the domain specific knowledge.	•	1 ·					
4. Ability to apply	knowledge representation, reasoning, and machine lea	rning te	chnic	lues	to			
real-world prot	lems							
Expected Course Out	romes:							
On the successful con	pletion of the course, student will be able to:							
1 Understand the r	ature of AI problems and task domains of AI				K 1			
2 Apply the approx	riate search procedures to solve the problems by using				IX1			
best algorithms.	that search procedures to solve the problems by using				K2			
3 Analyze and sele	ct the suitable knowledge representation method.				K3			
4 Manipulate the acquired knowledge and infer new knowledge.								
5 Demonstrate the	development of AI systems by encoding the knowledg	e.			K5			
K1 - Remember; K2 ·	Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate	; K6 - C	reate	e				
Unit:1	INTRODUCTION		1	l5 ho	ours			
Introduction: AI Prob Search: State space se	ems – AI techniques – Criteria for success. Problem	ns, Prol – Issues	blem	Spa	ices,			
Search.	Combatere So	155005		icsig	11 01			
	and a static and a with the state							
Unit:2	HEURISTIC SEARCH TECHNIQUES		1	12 ho	ours			
Heuristic Search techn	ques: Generate and Test - Hill Climbing - Best-Fist,	Proble	n Re	educt	ion,			
Constraint Satisfaction	Means-end analysis.							
Unit:3	KNOWLEDGE REPRESENTATION		1	$\frac{5 h}{1}$	ours			
Knowledge representat	on issues: Representations and mappings – Approache	s to Kno	wlec	lge				
representations – Issue	in Knowledge representations – Frame Problem.							
Unit:4	PREDICATE LOGIC		1	5 ha	ours			
Using Predicate Logic	Representing simple facts in logic – Representing Ins	tance a	nd Is	a				
relationships – Comput	able functions and predicates – Resolution – Natural de	eduction	•					
• •								
Unit:5 REI	RESENTING KNOWLEDGE USING RULES		1	5 ho	ours			
Representing knowledge	e using rules: Procedural Vs Declarative knowledge -	Logic	progr	amn	ning			
– Forward Vs Backwa	- Forward Vs Backward reasoning - Matching - Control knowledge Brief explanation of Expert							
Systems-Definition- C	haracteristics-architecture- Knowledge Engineering-	Expert	Syst	em	Lite			
Cycle-Knowledge Acq	usition strategies- Expert system 1001s.							

Ur	nit:6	Contemporary Issues	3 hours						
Ex	pert lecture	s, online seminars – webinars							
		Total Lecture hours	75 hours						
Te	ext Book(s)								
1	Artificial I	ntelligence, Elaine Rich and Kelvin Knight, TMH, 2nd Edn, 1991							
2	2 Artificial Intelligence A Modern Approach, Stuart Russell & Peter Norvig, 2nd Edition Perason.								
Re	eference Bo	oks							
1	Artificial I	ntelligence, George F Luger, 4th Edition, Pearson, 2002.							
2	Foundation Gopalakris	ns of Artificial Intelligent and Expert Systems, V S Janaki Raman, K shnan, MacMillan India limited.	Sarukesi, P						
	-								
Re	elated Onlin	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
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2		லக்கழகத							
3		Solo Can							
<u> </u>									
Co	ourse Design	ned By:							
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Mappi	Mapping with Programme Outcomes												
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	E		UNL	BoliseL	L	S	S			
CO2	S	S	S	L	S SSUIR	DU PLUT BAL	L	L	S	S			
CO3	S	S	S	L	S	L	L	L	S	S			
CO4	S	S	S	L	S	L	L	L	S	S			
CO5	S	S	S	L	S	L	L	L	S	S			

Core/Elective/ Supportive Elective: II 5 0 0 4 Pre-requisite Basic knowledge in web server, browser and web application Syllabus Version \$2023-24] (0nward ! Course Objectives: The main objectives of this course are to: 1. On completion of this course, a student will be familiar with client server architecture and able to develop a web application using java technologies. 1. Students will gain the skills and project-based experience needed for entry into web application and development careers 3. Understand best technologies for solving web client/server problems 4. Use Java script for dynamic effects and to validate form input entry 5. Analyze to Use appropriate client-side or Server-side applications Expected Course Outcomes: On the successful completion of the course, student will be able to: 1 Understand mod analyse the TCP/IP basics. K1 2 Understand nomin server name, FTP, TFTP, basics of WWW, web browser architecture. K1 3 Knowledge of Microsoft and java technologies, dynamic web pages, DHTML, ASP and JSP. K2-K3 and JSP. 4 Understanding active web pages, Java Applet, Java bean, CORBA, RMI and EDI S Knowledge on XML, XML parser, WAP K4-K66 5 Knowledge on TXML, XML parser, WAP K4-K66 F1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create 1 Understanding active w	Cou	rse code		Web Technology	L	Т	Р	С			
Pre-requisite Basic knowledge in web server, browser and web application Syllabus Version 5023-24 (20)/ 20/23-24 Course Objectives: The main objectives of this course, a student will be familiar with client server architecture and able to develop a web application using java technologies. 1. 1. One completion of this course, a student will be familiar with client server architecture and able to develop a web application using java technologies. 1. 1. Students will gain the skills and project-based experience needed for entry into web application and development careers 3. 3. Understand best technologies for solving web client/server problems 4. 4. Use Java script for dynamic effects and to validate form input entry 5. Analyze to Use appropriate client-side or Server-side applications K1 2 Understand and analyse the TCP/IP basics. K1 2 Understand Domain server name, FTP, TETP, basics of WWW, web browser architecture. K2 3 Knowledge of Microsoft and java technologies, dynamic web pages, DHTML, ASP and JSP. K2-K3 architecture 4 Understanding active web pages, Java Applet, Java bean, CORBA, RMI and EDI K2-K3 architecture 5 Knowledge on XML, XML parser, WAP K4-K6 K1 TCP/IP 15 hours 7CP/IP TCP/IP Basics – Why IP address	Core Sup	e/Elective/ portive		Elective: II	5	0	0	4			
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Unit:1TCP/IP result with the second seco				The Combatore Color							
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	Intro Micr Dyna Tech ASP	duction to rosoft and amic Web mologies - Example -	Web Tec Java Techr Pages: Net Overview – Modern T	 chnology: Web pages – Tiers – Concept of a Taologies – Web Pages – Static Web Pages – Plug-ied – Magic of Dynamic Web Pages – Overview of DHTML – Common Gateway Interface – ASP Trends in ASP – Java and JVM – Java Servlets – Java 	ier – C ns – Fra f Dynan – ASP va Server	omp mes nic V Tech : Pag	ariso – Fo Veb 1 nolo es.	n of rms. Page gy –			

Unit:4	ACTIVE WEB PAGES	15 hours							
Active Web Pa	ages: Active Web Pages in better solution – Java Applets – V	Why are Active Web							
Pages Powerfu	1? - Lifecycle of Java Applets - ActiveX Controls - Java Be	ans. Middleware and							
Component-Ba	sed E-Commerce Architectures: CORBA – Java Remote M	Method Invocation -							
DCOM. EDI:	Overview – Origins of EDI – Understanding of EDI – Data E	Exchange Standards –							
EDI Architectu	re – Significance of EDI – Financial EDI – EDI and internet.								
Unit:5	XML	15 hours							
XML: SGML	- Basics of XML - XML Parsers - Need for a standard. V	WAP: Limitations of							
Mobile devices	s - Emergence of WAP - WAP Architecture - WAP Stack - G	Concerns about WAP							
and its future -	Alternatives to WAP.								
Unit:6	Contemporary Issues	3 hours							
Expert lecture	es, online seminars – webinars								
	Total Lecture hours	75 hours							
Text Book(s)									
Web Tech	nologies: TCP/IP to Internet Applications Architectures – Achy	rut S Godbole & Atul							
1 Kahate, 20	007, TMH. (UNIT-I: 3.1-3.5,4.1-4.12 UNIT-II: 5.1-5.4,6.1-6.7 U	UNIT III:8.1-8.1,9.1-							
9.13 UNIT	"IV: 10.1-10.7,15.1-15.3,16.1-16.8 UNIT-V: 17.1-17.4,18.1-18.	6)							
	லக்கழகும்								
Reference Bo	ooks								
1 Internet ar	nd Web Technologies, Rajkamal, TMH.								
2 TCP/IP Pr	otocol Suite, Behrouz A. Forouzan, 3rd edition, TMH.								
	The second second second second second								
	and a constrained as								
Related Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1	Combature Gold								
2	S& Bissiumon 2-witight								
3	2 DUCATE TO ELEVAL								
Course Design	ned By:								

Mapping with Programme Outcomes												
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	L	S	L	L	L	S	S		
CO2	S	S	S	М	S	М	L	L	S	S		
CO3	S	S	S	L	S	М	М	М	S	S		
CO4	S	S	S	М	S	L	М	L	S	S		
CO5	S	S	S	L	S	L	М	L	S	S		

Cou	rse code			Data I	Mining			L	Т	Р	С
Core/Elective/			Electi	ve: III			5	0	0	4	
Pre-requisite		Basic knowledge on data, database, and statistical functions				Syllabus Version		2023-24 Onward			
Course Objectives:								[Onvaru]			
The main objectives of this course are to:											
2. To introduce the concept of data Mining as an important tool for enterprise data management											
and cutting edge technology for building competitive advantage.											
2. To enable students to effectively identify sources of data and process it for data mining											
3. To make students well versed in all data mining algorithms, methods of evaluation.											
4. 10 impart knowledge of tools used for data mining 5. To provide knowledge on how to gather and analyze large sets of data to gain useful business											
understanding.											
Expected Course Outcomes:											
On the successful completion of the course, student will be able to:											
1	Identify	Identify data mining tools and techniques in building intelligent machines K1-K2									
	understa	iderstand									
2	Analyze various data mining algorithms in applying in real time applications.								K2-K4		
3	Demonstrate the data mining algorithms to combinatorial optimization problems							K2-K3			
4	Illustrate	strate the mining techniques like association. classification and clustering on K2-K3									-K3
	transacti	transactional databases.									_
5	Perform exploratory analysis of the data to be used for mining.								K3	-K6	
K1 - Remember: K2 - Understand: K3 - Apply: K4 - Analyze: K5 - Evaluate: K6 - Create											
in itemember, in cheerbland, ite rippiy, ite rularyze, ite Evaluate, ite create											
Unit:1			BASIC DATA MINING TASKS 15						5 hou	rs	
Basic Data Mining Tasks – Data Mining Versus Knowledge Discovery in Data Bases – Data Mining											lining
Issues - Data Mining Matrices - Social Implications of Data Mining - Data Mining from Data Base											
Perspective.											
Uni	+.7		рата м	ININC T	FCUNI	OUES				12 h	01146
Data Mining Techniques		a Statistical Perspective on data mining Similarity Massures Dasisia								vision	
Trees – Neural Networks – Genetic Algorithms.											
Uni	Unit:3		CLASSIFICATION				15 hours				
Classification: Introduction - Statistical - Based Algorithms - Distance Based Algorithms - Decision											
Tree – Based Algorithms – Neural Network Based Algorithms – Rule Based Algorithms – Combining											
Techniques.											
Uni	Unit:4			LUSTEL	RINC					15 h	oure
Clustering: Introduction			- Similarity and Distance Measures - Outliers - Hierarchical Algorithms								
Partitional Algorithms.											
Unit:5ASSOCIATION RULES15							15 h	ours			
Asso	ciation Ri	iles: Introd	luction - Large	e Item Se	ts – Ba	sic Algorith	ms –	Parallel	& Γ	Distrib	uted
Algorithms – Comparing Approaches – Incremental Rules – – Measuring the Quality of Rules.											
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U	nit:6	Contemporary Issues	3 hours								
Ex	pert lecture	es, online seminars – webinars									
		Total Lecture hours	75 hours								
Te	ext Book(s)										
1	Margaret l	H.Dunbam, Data Mining Introductory and Advanced Topics, Pe	earson Education – 2003.								
2	Arun K.Pu	ijari, "Data Mining Techniques", Universities Press, 2010.									
	a D	· · · · · · · · · · · · · · · · · · ·									
Re	eference Bo	ooks									
1	Jiawei Ha	n & Micheline Kamber, Data Mining Concepts & Techniques, 2	2001 Academic Press.								
2	K.P.Soma	n, Shyam Diwakar, V.Ajay, "Insight into Data Mining – Theory	y and Practice",								
			_								
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Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
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Co	Course Designed By:										
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Mappi	Mapping with Programme Outcomes										
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
CO1	М	М	S	M	து தைந்தப்பான	DJ 2_Witjogh	L	М	S	S	
CO2	М	S	S	М	S S S	M	М	L	S	М	
CO3	М	S	S	L	М	L	М	М	S	S	
CO4	М	М	М	М	М	М	L	L	S	S	
CO5	М	S	S	L	S	L	М	М	S	М	

Сош	Course code Open Source Software L T P C								
Core	e/Elective/		El de		-	-	-		
Supp	oortive		Electiv	/e: 111	3	U	U	4	
Pre	-requisite	[easic understanding in QL	scripting language and	Syllab Versio	us n	2023 Onw	5-24 ard	
Cou	rse Object	ives:							
The	main objec	tives of this	ourse are to:						
1	. To expo	ose students t	o free open source softwa	are environment and introd	duce the	em to	use		
•	open so	urce package	5.		ot '4	1.00			
2	2. Demonstrate different open source technology like Linux, PHP & MySQL with different packages								
3	To unde	erstand open	ource software practices	and tools					
4	. To une	the open sou	ce software in operating	systems. Programming a	nd web	fran	iewo	rk in	
	approac	hing real tim	e applications.	5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Expe	ected Cou	rse Outcome	s: 						
On	On the successful completion of the course, student will be able to:								
1	Understand the significance of open source practices and guidelines.							K2	
2	Manipulate open source databases based on user requirements							K3	
3 Implement web programming with PHP							K3		
4	4 Integrate open source web frameworks in an application K4							K4	
5 Write desktop and web applications with Python K6									
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create									
			Prost Same	Service of the servic					
Uni	t:1	Ι	NTRODUCTION TO C	OPEN SOURCE		1	l5 ha	ours	
Intro	duction to	open source	- Need of open sources	s – advantages of open so	urces –a	appli	catio	n of	
open	sources.	Open source	operating systems: LIN	UX: Introduction – gener	al over	view	-Ke	rnel	
mode — dex	e and user	with I inux	ss – advanced concepts	-scheduling – personalitie	s - clor	iing -	– sig	nais	
uev	elopment								
Uni	t:2		MYSQL			1	12 ho	ours	
MyS	QL: Intro	duction – se	ting up account – start	ing, terminating and wri	ting yo	ur o	wn S	SQL	
prog	rams-recoi	d selection	echnology – working w	with strings – Date and T	ime – s	ortin	ıg Qı	uery	
resul	ts – genera	ating summar	y –working with meta da	ta –using sequences – My	SQL ar	nd W	eb.		
T I and	4.2		DIID			1	5 h a		
	li:J D: Introdu	tion progr	rnr mming in web enviro	nmont variables consts	nta	1 data	5 IIC		
oper	tors – sta	tements – fur	ctions – arrays – OOP –	string manipulations and	nus – regular	exn	ressi		
file h	andling a	nd data stora	ge – PHP and SOL data	base – PHP and LDAP –	PHP c	onne	ctivi	ty –	
send	ing and rea	eiving E-ma	ls – debugging and error	handling – security –tem	olates.			5	
Uni	t:4		PYTHON			1	5 ho	ours	
Synta	ax and sty	le - Python c	bjects – numbers – sequ	ences – strings – lists and	tuples -	- dic	tiona	ries	
-co	nditional l	oops -files -	- input and output – eri	rors and exceptions – fur	nctions	– m	odule	es –	
ciass		r - execution							

Unit:5		PERL	15 hours					
Per	t backgrour	der - pert overview - pearl parsing rules - variables and data	u – statements and					
con	trol structur	res – subroutines -packages and modules – working with files – da	ta manipulation.					
U	nit:6	Contemporary Issues	3 hours					
Ex	pert lecture	s, online seminars – webinars						
		Total Lecture hours	75 hours					
Τe	ext Book(s)							
1	The Linux	Kernel Book, Remy Card, Eric and Frank Mevel, Wiley Publicat	ions 2003.					
2	MySQL Bible, Steve Suchring, John Wiley 2002.							
Re	eference Bo	oks						
1	Programm	ing PHP, Rasmus Lerdorf and Levin Tatroe, O_Reilly, 2002						
2	Core Pythe	on Programming, Wesley J. Chun, Prentice Hall, 200						
3	Perl: The O	Complete Reference, 2nd Edn, Martin C. Brown, TMH, 2009						
4	MySQL: 7	The Complete Reference, 2nd Edn, Vikram Vaswani, TMH, 2009						
5	PHP: The	Complete Reference, 2nd Edn, Steve Holzner, TMH 2009.						
Re	elated Onlin	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
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CO1	S	S	S	L	ELSCATE TO	ELEVAT	L	М	S	S
CO2	S	S	S	М	S	М	L	L	S	М
CO3	S	S	S	L	М	L	L	М	S	S
CO4	S	М	S	М	М	М	L	L	S	S
CO5	S	М	S	L	S	L	L	М	S	М

Course code		Internet of Things (IoT)	L	Т	Р	С				
Core/Elective/ Supportive	/	Elective: III	5	0	0	4				
Pre-requisite	9	Students should have the basic understanding of logical circuits and hardware architecture.	Syllab Versio	ous on	2023 <u>Onw</u>	5-24 yard				
Course Objectives:										
The main object	ctives of thi	s course are to:								
1. 10 learn the concepts of 101 and its protocols. 2. To learn how to analysis the data in IoT										
 2. 10 learn now to analysis the data in 101. 3. To develop IoT infrastructure for popular applications 										
4. To report about the IoT privacy, security and vulnerabilities solution										
	one about the	in privacy, security and vanieracinities seration								
Expected Cou	rse Outcon	nes:								
On the succes	ssful comple	etion of the course, student will be able to:								
1 To unde	erstand the f	undamentals of Internet of Things.				K1				
2 To know	2 To know the basics of communication protocols and the designing principles of									
Web cor	Web connectivity.									
3 To gain the knowledge of Internet connectivity principles										
4 Designin	4 Designing and develop smart city in IoT									
5 Analyzing and evaluate the data received through sensors in IOT.						4-K5				
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create										
The remainder, its chaolound, its rappi, its runarize, its Evaluate, its create										
Unit:1 INTRODUCTION 15 hours										
Introduction - IoT enabling 7 Automation - o life style.	Definition d Fechnologie cities - Envi	& characteristics of IoT - physical design of IoT - lo es - IoT levels & Deployment templates. Domain s ronment - Energy - retail - logistics - Agriculture - I	ogical de specific Industry	Iots i He	of le : He alth	oT - ome and				
Unit.?		IOT and M2M		1	2 h	ours				
IoT and M2M	- Deference	between lot and M2M - SDN and NFV for lot - Io	T syste	ms	2 110	Juis				
management -	SNMP - YA	ANG - NETOPEER								
Unit:3		IOT SPECIFICATION		1	5 h	ours				
IoT platforms	design Me	hodology - purpose and specification - process sp	ecificati	on -	Dor	nain				
model specifi specification - component Int	cation - In functional egrators - A	nformation model specification - Service specification view specification - operational view specification pplication Development.	ication - Devi	- Ic ce ar	oT 1 Id	evel				
Unit:4	I	OGICAL DESIGN USING PYTHON		1	5 h	ours				
Logical design	using pyt	non - Installing python - type conversions - contro	ol flow	- fu	nctio	ns -				
device - Raspb	erry Pi - Li	nux on Raspberry Pi - Raspberry Pi interfaces.	nung t	JOCK	s of	101				
Unit:5 IOT AND CLOUD COMPUTING 15 hours										
IoT physical se	ervers & clo	ud computing - WAMP - Xively cloud for IoT - pyt	hon We	b ap	olica	tion				
frame work - A	Amazon wel	o services for IoT.								

Unit:6	Contemporary Issues	3 hours						
Expert lectur	es, online seminars – webinars							
	Total Lecture hours	75 hours						
Text Book(s								
1 Internet of Publisher	f Things - A hands on Approach Authors: Arshdeep Bahga, Vijay : Universities press.	Madisetti						
Reference B	ooks							
1 Internet of Learning	1Internet of Things - Srinivasa K.G., Siddesh G.M. Hanumantha Raju R. Publisher: Cengage1Learning India pvt. Ltd (2018)							
Related Onl	ine Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
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CO2	S	S	S	M	S AR Coimte	M	Maria	L	S	М	
CO3	S	S	S	L		DI 2 Lippt	М	М	S	S	
CO4	М	М	S	М	S	М	L	L	S	S	
CO5	S	S	S	L	S	L	М	М	S	М	

Cou	rse code		Programming Software Te	g Lab – esting	L	Т	Р	С		
Cor	e/Elective/Suppo	rtive	Skill based Subje	ect Lab : 4	0	0	4	3		
Pre	e-requisite		Basic knowledge on softw development in SDLC	vare project	Syllabi Versio	us n	202 Ony	3-24 vard		
Cou	rse Objectives:									
The	main objectives o	of this o	urse are to:							
	1. To gain knowl	ledge a	out recording the test case	in different modes.						
	2. To design and	const	et the test cases using Test	Script Language.						
	3. To learn about	t GUI	jects and bitmap objects							
Exp	Expected Course Outcomes:									
On the successful completion of the course, student will be able to:										
1 Understand the importance of software quality/software testing and apply										
software testing techniques for information systems development.								.1		
2 Generate test cases from software requirements using various test processes for continuous quality improvement.								2		
3	Understand flo	w grap	s and apply path testing.				K	3		
4	Apply software adequacy of tes	e testir st suite	techniques in commercial using control flow, data flo	environments and ass w and program muta	sess the tion.		k	(4		
5	Identify the inp team in prepari	outs an ing a r	deliverables of the testing port	process and work tog	ether as	a	K	.6		
K1	- Remember; K2	- Und	stand; <mark>K3 - A</mark> pply; K4 - A	nalyze; <mark>K</mark> 5 - Evaluate	e; K6 - (Crea	te			
				· 역						
Pro	ograms		Contraction Contraction			3	6 hou	ırs		
			E B B B B B B B B B B B B B B B B B B B	unities to all and a state of the second state						

Write at least 10 TEST CASES for the following programs. Test cases can be for Input data, Conditional expressions, control transfer, output, etc. Run-Test-Debug- until all the test cases are in success status. Marks distribution as follows:

- 1. List of Test Descriptions (at least 10) for the Program. (20%)
- 2. Test Cases (40%)
- 3. Program with all test case results success (30%)
- 4. Record (10%)

TEST CASE EXAMPLE:

Test -Id	Test Description	Test Steps	Expected	Actual	Status
	I	•	Output	Output	
TC-01	Acceptance of 10 digit input data	Input 10 Digit Number	Accepting 10 digit number	Accepted 10 digit	Success
	Non- acceptance of	Input a	Character X	Accepting	
TC-02	character data	character data X	should not be accepted	Character data	Failure

Modify PIC X(10) into PIC 9(10) and then run program for Test-id TC-02 again

Test -Id	Test Description	Test Steps	Expected	Actual	Status
			Output	Output	
	Non- acceptance of	Input a	Character X	Character	
TC-02	character data	character data X	should not be accepted	data not accepted	Success
TC-03	Digit sum of 10 digit is in single digit	Output data	Single digit sum	Single digit Sum	Success

1. Test the C program: Finding the sum of individual digits of a 10-digit number until a single digit is produced.

2. Test the C Program: Accept the inputs student name, marks in five subjects and declare the result as PASS if the student gets minimum 40 in each subject; otherwise declare the result as FAIL.

3. Test the C program: Program for generating n prime numbers

4. Test the C program: Sort and store the elements of two arrays of integers into the third list.

5. Test the C program: Experiment the operations of a stack using array implementation.

6. Test the C program: Menu-driven option for queue operations like add, remove and display.7. Test the C++ program: Palindrome string checking program (using pointers)

		Total Lecture hours	36 hours						
Text Book(s)									
1									
Refe	erence Books								

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

11(Related Online Contents [1000C, 5 WATAM, 10 TEL, Websites etc.]						
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Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	М	М	S	М	S	М	М	М	S	S		
CO3	S	S	М	М	S	М	М	L	S	М		
CO3	S	S	S	S	М	L	М	М	S	S		
CO4	М	М	М	М	М	М	L	L	S	S		
CO5	М	S	S	L	S	L	М	М	S	М		

