M. Com (Finance and Computer Applications)

SYLLABUS

(With effect from 2022 - 2023)

Program Code:



DEPARTMENT OF COMMERCE

Bharathiar University
(A State University, Accredited with "A" Grade by NAAC and 13th Rank among Indian Universities by MHRD-NIRF)
Coimbatore 641 046, INDIA

BHARATHIAR UNIVERSITY: COIMBATORE - 641046 DEPARTMENT OF COMMERCE

MISSION

- > To empower the students to respond to the challenges in the industry 4.0
- > To provide practical expertise in the area of finance with business models
- > To impart social consciousness among students
- > To impart quality higher education to excel in their life.
- > To provide students with better research platform

Program	Educational Objectives (PEOs)
The M.C	om (Finance and Computer Applications) program describe accomplishments that
graduates	are expected to attain within five to seven years after graduation
PEO1	With computer knowledge both in theory and practical's graduates will be able to
PEOI	work in the field of system testing, software developing and web developing
PEO2	Graduates will find jobs as a junior programmer
PEO3	IT giants like TCS, Wipro, Infosys, Google etc., are giving opportunities and are
PEOS	ready to hire graduates with finance and computer applications.
PEO4	Graduates will act as an individual consultant in the field of finance
PEO5	Graduates will be able to act as a project trainer
PEO6	Graduates will be able to work in the changing environment through lifelong
PEOO	learning
PEO7	Graduates will be able to pursue advance degrees
PEO8	Graduates will be able to provide solutions in the field of ICT and commerce
PEO9	Graduates will be able to get an entry level jobs in the field of Information
FEO9	Technology
PEO10	Graduates are prepared to participate in diverse sectors of the economy

Progran	n Specific Outcomes (PSOs)
After the	e successful completion of M.Com (Finance and Computer Applications) program, the
students	are expected to
PSO1	Develop knowledge in the preparation of financial statements
PSO2	Develop the skills in research
PSO3	Develop skills to act as a tax consultant
PSO4	Develop software and testing skills which is needed for the industries
PSO5	Prepares students for teaching
Program	n Outcomes (POs)
On succ	essful completion of the M.Com (Finance and Computer Applications) program
PO1	To enhance sound knowledge in finance to make candidate industry ready.
PO2	To excel in data base management for the industry requirement.
PO3	To enable the students to develop the programs using languages as per the industry
103	requirements.
PO4	To acquire technical and decision making skills in the area of accounting, taxation,
104	portfolio analysis and E-commerce.
PO5	To identify, analyze and grab the opportunities available in global scenario.
PO6	To gain knowledge in commerce and accounting software for corporate requirements
PO7	To get employment in IT fields, Banks, Corporates, BPO's and KPO's
PO8	To develop the software for the requirement of industries
PO9	To become a consultant in the capital market using ICT
PO10	To acquire the technical skills needed by the Banking industry

ELIGIBILITY FOR ADMISSION TO THE COURSE

Any UG degree in Commerce, Management, Computer science, Computer Applications, Information Technology and Mathematics.

DURATION OF THE COURSE

The course shall extend over a period of two years comprising four Semesters, with two Semesters per year. There shall not be less than ninety instructional days for each semester. Examination shall be conducted at the end of each semester for the respective subjects.

COURSE OF STUDY AND SCHEME OF EXAMINATION

The course of study and scheme of examination for the M.Com (**Finance and Computer Applications**) course shall consist of the following:

BHARATHIAR UNIVERSITY:: COIMBATORE - 641 046 M.Com (Finance and Computer Applications) Curriculum (University Department)

(For the students admitted during the academic year 2022 – 23 onwards)

Course	Title of the Course	Credit	Hour	rs/week	Maximum Marks			
Code	Title of the Course	S	Theory	Practical	CIA	ESE	Total	
	First Sen	nester						
13A	Introduction to Industry 4.0	4	4	ı	50	50	100	
13B	Financial Accounting	4	4	1	50	50	100	
13C	Quantitative Techniques for Finance	4	4	1	50	50	100	
13D	Object Oriented Programming with C++	4	-	4	50	50	100	
13E	Financial Instruments and Services	4	4	-	50	50	100	
1EA	Oracle and RDBMS	4	4	-	50	50	100	
	(or)							
1EB	Data Mining and Data Warehousing *	4	4	-	50	50	100	
Supportive	Offered by other Department	2	2	-	25	25	50	
	Total	26					650	
	Second Se	mester						
23A	Cost and Management Accounting	4	4	ı	50	50	100	
23B	Introduction to Python	4	4	1	50	50	100	
23C	Direct Tax	4	4	1	50	50	100	
23D	Banking 4.0	4	4	-	50	50	100	
23E	Security Analysis and Portfolio Management	4	4	-	50	50	100	
2EA	Enterprise Resource Planning	4	4	-	50	50	100	
	(or)							
2EB	Insurance and Risk Management *	4	4	1	50	50	100	
Supportive	Offered by other Department	2	2	-	25	25	50	
	Total	26					650	

	Third Se	mester					
33A	Business Research Methods	4	4	-	50	50	100
33B	Soft Skill for Managers	4	4	-	50	50	100
33C	Java Programming	4	4	-	50	50	100
33D	Strategic Financial Management	4	4	-	50	50	100
33E	Financial Derivatives	4	4	-	50	50	100
3EA	Software Project Management	4	4	-	50	50	100
	(or)						
3EB	International Financial Management *	4	4	-	50	50	100
Supportive	Offered by other Department	2	2	-	25	25	50
	Total	26					650
	Fourth Se	emester					
46I	Internship & Training	4			100	-	100
47V	Software Development / Project & Viva –	8			100	100	200
	Voce				100	100	200
	Total	12					300
	Grand Total	90					2250

		Credits					
	ONLINE COURSE ** (Offered by S	wayam, MC	OCs, N	PTEL	Course	ra etc.)	
	Online Course	2					
	VALUE ADDED COURSES / CERTIFICATE COURSES (Any Two Courses) ***	8					
1.	Digital Marketing - Dr. Tejinderpal Singh	https://onlin	ecourses	.swayan	n2.ac.in/c	ec22_mg2	26/preview
2.	Python 3.4.3 - Prof Kannan Moudgalya	https://onlin	ecourses	.swayan	n2.ac.in/a	ic20_sp33	3/preview
3.	Organizational Behaviour - Prof.(Dr.) Vishal Kumar	https://onlinecourses.swayam2.ac.in/cec22_ge25/preview					5/preview
4.	Communication Technologies in Education - Dr.Dhaneswar Harichandan	https://onlin	ecourses	.swayan	n2.ac.in/c	ec22_ed3	0/preview
5.	Supply Chain Management - Dr.P.Chitramani	https://onlin	ecourses	.swayan	n2.ac.in/c	ec22_mg2	22/preview
6.	State and Local Governance: Machinery & Processes - Dr (Prof) Ajmer Singh Malik	https://online	ecourses	.swayan	n2.ac.in/c	ec22_hs4	5/preview
7.	Corporate Law - Prof. (Dr.) Harpreet Kaur	https://onlin	ecourses	.swayan	n2.ac.in/c	ec22_lw1	3/preview
8.	Business Environment - Chhavi Jain	https://onlin	ecourses	.swayan	n2.ac.in/ii	nb22_mg	28/preview
9.	Continuous Quality Improvement: Tools and Techniques - Dr. Sanjeev Singh	https://onlin	ecourses	.swayan	n2.ac.in/ii	mb22_mg	30/preview
10.	BCOS-184 E-Commerce - Dr. Subodh Kesharwani	https://onlin	ecourses	.swayan	n2.ac.in/n	ou22_cm	20/preview

Note:

* Elective Paper

- Students can opt the Elective Paper
- 1EA, 2EA, and 3EA will be in Teaching Mode.
- 1EB,2EB, and 3EB will be in Self-learning Mode.

** All the students must complete the online course offered by Swayam within <u>Three Semesters</u> and the Certificate must be submitted to the Controller of Examinations, Bharathiar University through the Head of the Department for inclusion of Credits in the Marks Statement.

***All the students must complete any 2 courses from the above listed Course and and submit the Certificate in the Department on or before the end of <u>Third Semester</u>. Department will further submit the same to the Controller of Examinations, Bharathiar University for inclusion of Credits in the Marks Statement.

Supportive Courses offered to other Departments

Paper – I	Principles of Accounting	2
Paper – II	Principles of Modern Banking	2

Cou					PRINC	CIPLES	OF AC	COUNT	ING	L	T	P	С	
	/Elective/Si	upportive				Suppor	rtive pape	er - I		2			2	
	-requisite	TT		Basi	Basic Knowledge in Accounting						Cyllobus)22-23	
Cour	rse Object	ives:								, 6152				
	main objec		nis course	e are to:										
1.	Acquaint	students v	with the r	rinciples	of acco	unting								
2.	Gain know													
3.	Learn the l	Methods	of depred	ciation										
	. 10													
	ected Courthe success			the cour	aa atuda	nt will b	a abla ta							
						III WIII D	e able to:						TZ 1	
1	Acquire k				oncepts								K1	
2	Able to pr	-											K5	
3	Evaluate 1				A 1 T	7.4	1 775	- I	T7.6	~ .			K5	
	- Rememb	er; K2 - U	Jnderstar						te; K6 – (Create	1			
Uni		C A -					counting		4:			10- I	nours	
Mea	ning and So	cope of Ac	counting	- Accoun	ung and C	oncepts	- Journan	zing 1 ran	sactions.					
Uni	t:2			Pı	rocess of	Final A	ccounts				-	10- l	nours	
	division of	Journal	- Ledger					Reconcil	iation Sta	tement-				
	nple Adjus													
Uni					epreciat		· ·					-	nours	
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Calo	culating De	epreciatio	n (Straig	nt Line &	x writtei	1 Down	value Mo	etnoas or	119)					
								Tots	al Lectur	e hours	,	30. I	nours	
Not	e: Questio	n nanar	chall car	or 10%	thoory o	nd 60%	Problem		ar Ecctur	- Hours	<u> </u>		iouis	
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2	N.Vinayag								•	•	, Ne	w De	lhi,	
	2010													
Ref	erence Bo													
1	S.K. Batta								w Delhi, 1	1997				
	ated Onlin				AYAM,	NPTEL	, Websit	es etc.]						
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						1								
		S	S	М	M	S	S	S	S	S				
CO1		S S	S S	M S	M S	S S	S M	S S	S S	S			S M	

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

Course code			P	RINCIP	LES OF	MODE	RN BAN	KING	L	T	P	C
Core/Elective/Si	ipportive				Suppor	tive paper	: - II		2			2
Pre-requisite			Ва	Basic Knowledge in Banking Practices						Syllabus Version		2022 -23
Course Object												
The main objec												
1. Acquaint												
2. Understan				on techn	ology in	banking						
3. Learn the e			Systems									
Expected Cour			.1	. 1		11 .						
On the success												
1 Know the I economy										an		K2
2 Explore the managed	financial	l services	provideo	l through	n e-banki	ing and h	ow the b	anking r	isks are			K3
3 Apply the e	lectronic I	Payment S	Systems									K3
K1 - Rememb	er; K2 - U	Jnderstan	d; K3 - A	Apply; K	4 - Anal	yze; K5	- Evalua	te; K6 - 0	Create			
Unit:1			Iı	troduct	ion of B	anking				1	0- l	ours
Banking	System -	- Role of					– Centra	ıl Bank –	- Function	ıs.		
Unit:2				Floatno	nic Ban	lzina				1	Λl	ours
E-Banking -	Rick Mar	nagement	for F I				Ranking	n Dray	vbacks o			
Mobile Bankii												
Electronic Fun			mking, (Jillille B	anxing	711111	Wicchai	113111 1	anetions	11111	or tu	
Unit:3			Elec	ctronic F	Payment	System				1	0- l	ours
Overview of	domestic	Paymen					ayments	- NCPI	Meani	ng –	Role	e and
Responsibilitie												
							Total	Lecture	hours	3	80- ł	our
	n nonor	shall cov	er 100%	theory.								
Note: Questio	n paper l	oman cov										
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M S S
*S-Strong; M-Medium; L-Low

Model Question Paper Pattern for Core and Elective Papers

Time: 3 Hours Maximum Marks: 50 Marks.

Section A – (10 x 1 = 10)

Answer All the questions
Each question carries one mark
Q. No.1. – Q. No. 10 - Objective questions with four multiple choices

Section B – $(5 \times 3 = 15)$

Answer All the questions

Each question carries three marks

Q. No. 11 – Q. No. 15 - Questions with internal choices (either (a) or (b) type

Section C – $(5 \times 5 = 25)$

Model Question Paper Pattern for Supportive Paper

Time: One Hour 30 Minutes Maximum Marks: 25 Marks

Section A - (5 x 2 = 10)

Answer all the questions Each question carries two marks Q. No. 1 – Q. No. 5

Section B – $(3 \times 5 = 15)$

Unit:6	Contemporary Issues	2 Hours						
Expert lectu	res, online seminars – webinars							
	Total Lecture Hours 60 Hou							
Books for S	Study							
1	P. Kaliraj, T. Devi, "Higher Education for Industry 4.0 and Transforma	ation to Education 5.0,						
,	2020.							
2	Gilchrist Alasdair, Industry 4.0, A Press Publishing Company, Newyork, 2016							
Books for l	Reference							
1	Ustundag Alp," Industry 4.0: Managing The Digital Transformation",	Springer International						
]	Publishing, Newyork, 2019							
Related Or	lline Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://www.youtube.com/watch?v=IoY3tP-Iw4Q							
2	https://www.youtube.com/watch?v=LXI48d2gif0							
Course Des	igned By: Dr.P.Devi / E-Mail ID: tdevi@buc.edu.in							

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

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

Course code	13B	FINANCIAL ACCOUNTING	L	T P	С
Core		FINANCIAL ACCOUNTING	4		4
Pre-requisite		Basic knowledge in Accounting Concerns	Syllabus Version	2022	2 - 23
Course Object	tives:	·			
The main object	ctives of this cou	arse are to:			
		rinciples and Book keeping			
	-	lards and its applications			
		preparation of final accounts of different concerns			
		I provisions in depreciation and banking accounts e preparation of accounts for non trading concerns			
Expected Cou					
On the succes	sful completion	of the course, student will be able to:			
1 Recall, C	lassify and expl	ain the types of accounts		K	1 & K2
2 Understar	nd the accounting	ng standards and apply in relevant areas		K	2 & K3
3 Analyze t	the financial star	tements			K4
4 Able to p	repare final acc	ounts for banking companies, evaluate and discuss	about the	K	5 & K6
		nking companies. Able to apply relevant n			
	ion for differen				
5 Explain t	the financial pos	sition of non trading concerns			K5
K1 - Rememb	er; K2 - Unders	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	6 - Create		
Unit:1		Introduction to Accounting		8	3 Hours
		ccounting Principles and Conventions - Transactio			ebit and
	cation – Double	Entry Book Keeping - Types of Accounts -Digital	Accounti		
Unit:2		Accounting Standards nnd CSR) Hours
		ves and benefits AS 1-29- Human Resource Accou			
		n companies –Corporate Social Responsibility(CS	(R) – Serv	ices of	CSR in
Unit:3	tta Anarytics in	Financial reporting and Accounting Final Accounts		1/	2 Hours
	Manufacturin	g and Trading Account – Preparation of Final Acco	unt with		
Unit:4		ciation and Banking Company Accounts	Julit With a		4 Hours
		Need and causes depreciation- Methods. Banki	ng comp		ccounts-
-	_	for Banking companies.	r		
Unit:5		Nontrading Concerns		14	4 Hours
Accou	nting for Non	- Trading Concerns - Income & Expenditure	- Receipt	ts & Pa	ayments
Account and I	Balance sheet.				
Unit:6		Contemporary Issues		2	2 Hours
Webinars – Q	uiz - Online Ass		1		
N. O. O.		Total Lecture Hours		60) Hours
		over 40% theory and 60% Problems.			
Books for Stu	•			11 . 201	0
		Financial Accounting", Edition, Kalyani Publishers			U
2 T.S. Reddy	y & Dr. A. Muri	thy, "Financial Accounting" Margham publications	, Chennai	, 2019	

Bo	ooks for Reference
1	M.A.Arulanandam & K.S.Raman, "Advanced Accountancy", Himalaya Publishing House, Mumbai, 2010
2	Accounting Standard Quick Reference - Published by ICAI, New Delhi, 2018
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://nptel.ac.in/courses/110/101/110101131/#
2	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=23
3	https://www.youtube.com/watch?v=N5Wh2NNkqpU
Co	ourse Designed By: Dr.M.Nirmala / E-Mail ID: nimmiswetha@gmail.com

Mappi	ng with F	rogram	me Outo	comes						
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	M	S	S	S	S	S	S	S
CO2	S	S	M	S	S	S	S	S	S	S
CO3	S	S	M	S	S	S	S	S	S	S
CO4	S	S	M	S	S	S	S	S	S	S
CO5	S	S	M	S	S	S	S	S	S	S

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

Course Co	de 13	C	QUANTITATIVE TECHNIQUES	L	Т	P	С
Core			FOR FINANCE	4	_	+-	4
Pre-requ	isite		Basic knowledge in Statistics and Operations Research	Sylla Vers			22 - 3
Course O	jectives:	<u> </u>			L		
The main	bjectives	of t	his course are:				
 To To To 	apply the determine	vari e anc	e various applications used in QT for finance decision ous Quantitative Techniques to solve business problems devaluate the project to minimize the cost and time ect the best course of action and to improve the professional	skills	for th	neir	
Expected	Course C	hutea	omes.				
			olletion of the course, students will be able to:				
			sic theory of probability and applications of theoretical dist	ributio	on in	K	2
finan		• • • • • • • • • • • • • • • • • • • •	and approximations of anti-order and				_
			applications of queuing theory, simulation and time series	in busi	iness	K	:3
	nancial a					т,	- 4
	-	_	pret the various index numbers in business and to know the in India.	econ	omic	K	[4
			luate the project to minimize the cost and time through CPM	Л.		K	.5
			ry control technique to control the material cost and to i		y the	K	<u>.</u> 6
			ough game theory that is minimized lose and maximize the				
K1 - Ren	ember; K	(2 - U	Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	- Creat	te		
	1						
Unit:1	1 1 114		Probability Theory and Distribution	11.4			<u>Iours</u>
			Definition- Addition and multiplication rules Probabi s – Binomial poison and normal – Simple problems applied			outio	n –
Unit:2			Queuing Theory and Time Series Analysis			12 F	Hours
			- Applications to Business Decisions - Simulation - Mon			chni	ques
- Time se	ries – Coi	mpoi	nents of time series – Use of time series data for financial ar	alysis	•		
11:4-2	<u> </u>		To don Normal on and Tax Armali and are			10 T	
Unit:3	dev num	hers	Index Number and Its Applications - concepts - simple and weighted index numbers - Eco	nomi			Hours
			ed in India		- and	· Our	
Unit:4			Network Analysis		1	12 F	lours
	ogy - Cri		sis - Managerial Applications - CPM / PERT network co Path - Total Float, Free Float - Independent Float - Distinc				
Unit:5			Inventory Management and Game Theory		12	Ho	ours
In	models -	Man - Ty	agement - Determinants - Factors affecting Inventory pes of Inventory models - Game theory - Zero sum Gam		ol -	EO	Q -

Ur	nit:6	Contemporary Issues	2 Hours
Ex	pert lecture	s, online seminars - webinars	
		Total Lecture Hours	60 Hours
No	ote: Questio	on paper shall cover 40% theory and 60% Problems.	
Bo	oks for Stu	ıdy	
1	C.R.Koth	ari, (2019)"Quantitative Techniques", Vikas Publications, New 1	Delhi
2	V.K. Kap	por, (2018) "Operations Research - Problems and Solutions"	, Sultan Chand & Sons
	Publisher,	New Delhi,	
Bo	ooks for Re	ference	
1	E.A. Para	meswara Gupta (2019) Operations Research & Quantitative	e Techniques, Himalaya
	Publishing	House Pvt. Ltd, Mumbai.	
2	S.P. Gupta	(2019), "Statistical Methods", S.Chand & Sons Publisher, New	Delhi.
No	ote: Questio	on Paper shall cover 40% Theory and 60% Problems.	
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://yo	outu.be/owLT5KDrqAs	
2	E-book:	P.K. Gupta and DS Hira, Operations Research, S. Chand Publish	ning, New Delhi
Co	ourse Design	ned By: Dr. P. Chellasamy / E-Mail ID: drchellamsamy@gmail.	com

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M	S	M	M	S	S	S	M	S	S
CO2	S	S	S	M	S	S	S	S	S	M
CO3	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	M	S	S
CO5	S	S	S	S	S	S	M	M	M	M

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

Course code	13D	OBJECT ORIENTED PROGRAMMING WITH C++	L	T	P	C
Core			-	-	4	4
Pre-requisi	te	Basic practical knowledge on C++		abus rsion	202 - 2	
0 011	4 •					

The main objectives of the program are to

- 1. Present an overview on c++ structured programming methods and apply them in various business fields based on the given problem.
- 2. Understand the basic concepts of C++ programming language.
- 3. Identify the classes and objects and able to create the class specification for the given actual problem.
- 4. Apply the data files operation techniques and solve the given problems in a practical manner.

Expe	ected Course Outcomes:	
On	the successful completion of the course, students will be able to:	
1	Know the basic concepts of c++ programming language and apply them to solve the real business problem	K2 & K3
2	Know and understand the C++ statements and motivate the students to make use of the statements	K1,K3 & K4
3	Identify the class structure and develop the program	K1 & K6
4	Develop the program by applying the concept of OOPs	K3&K6
5	Apply the data file operation technique and evaluate the program in a practical manner	K3 & K6
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create	
	List of Programs	
	1. Program using basic data types and c++ statements.	
	2. Program using the concept of int and void main concepts.	
	3. Program using the conditional statements.	
	4. Program using the looping statements.	
	5. Program using concept of array.	
	6. Program using different functions.	
	7. Program using the concept of classes and object.	
	8. Program using inheritance.	
	9. Program using the operator overloading function.	
	10.Program using data file operations.	20 T
	Total Lecture Hours	60 Hours

Books for Study

- 1 K.R.Venugopal, Raj kumar, T.Ravishanker, "Mastering C++", Tata McGraw Hill Publishing Company Ltd, Noida, UP
- 2 E.Balagurusamy, "Object Oriented Programming with C++", Tata McGraw Hill Publishing Company Ltd, Noida, UP

Books for Reference

- 1 D.Ravichandran, "Programming with C++", Tata McGraw Hill Publishing Company Ltd, Noida, UP
- 2 Herbert Schildt, "C++: The Complete Reference", Tata McGraw-Hill Publishing Company Ltd, Noida, UP

1 https://www.youtube.com/watch?v=Asap1SRInSQ 2 https://www.youtube.com/watch?v=PQsB49MY4hQ 3 https://www.youtube.com/watch?v=NIWwJbo-9_8

Course Designed by: Dr.M.Anbukarasi / E-Mail ID: anbujan2011@gmail.com

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

Mapping	g with P	rogramn	ne Outco	mes						
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	S	M	S
CO2	S	S	S	M	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S	M	S
CO4	S	S	S	M	S	S	S	S	S	M
CO5	S	S	S	S	S	S	S	S	M	S

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

Core Pre-requisite		FINANCIAL INSTRUMENTS AND SERVICES	L	T	P	C
Pre-requisite		THANKSHIE HASTRONEHARS MAD SERVICES	4	-	-	4
		Basic knowledge in Financial Services		yllabus ersion	202	22 - 3
Course Objectiv	es:					
It aims t Instruments and	to fac d serv	ilitate students to acquire knowledge about various fuices and its functions in business and stock market. And				
_						
		•			_	
						ζ2 το
_		· · · · · · · · · · · · · · · · · · ·	y the k	inowledge	ŀ	ζ3
	-		ınd Int	ernational	ŀ	ζ3
4 Understand	the fac	ctoring, advantages and disadvantages of factoring and factor	ing in	India	ŀ	ζ4
5 Get knowled	It aims to facilitate students to acquire knowledge about various fundamentals of Fir truments and services and its functions in business and stock market. And also gain familiar chant banking, venture capital industry. Dected Course Outcomes:	ŀ	K5			
K1 - Remember	; K2 -	Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	Create	2		
Unit:1		Financial Instruments		1	0 H o	iirc
			ssificat	tion – Impo	ortan	
New Financial Pr		and Services.	ssificat			ce -
New Financial Pr Unit:2 Mutual Funds in	India -	Mutual Funds - Definition – Features - Types – Risk in mutual Funds – C	 Drganiz	1 zation of th	1 Ho	ours
New Financial Pr Unit:2 Mutual Funds in Performance eval	India -	Mutual Funds - Definition – Features - Types – Risk in mutual Funds – Conformation of Mutual Funds – Merits and Demerits of Investing in Mutual Funds – Merits –	 Drganiz	2 tation of the lands - Mut	1 Ho	urs nd - und
Unit:2 Mutual Funds in Performance eval Industry in India. Unit:3 Merchant Bankin Bankers - Proble	India - luation ag – Mems of tures -	Mutual Funds Definition – Features - Types – Risk in mutual Funds – Coof Mutual Funds – Merits and Demerits of Investing in Mutual Funds – Merits and Venture Capital eaning - Definition - Scope – Functions of Merchant Banking Merchant Bankers - Guidelines for Merchant Banker. Venture Dimensions of venture Capital - Importance of Venture	Drganiz tual Fu ng - Q nture (zation of thunds - Muthands - Mut	1 Ho ne fur ual F 1 Ho Merc Meani	urs und
Unit:2 Mutual Funds in Performance eval Industry in India. Unit:3 Merchant Bankin Bankers - Proble Definition - Feat Industry in India.	India - luation ag – Mems of tures -	Mutual Funds Definition – Features - Types – Risk in mutual Funds – Cof Mutual Funds – Merits and Demerits of Investing in Mutual Funds – Merits and Venture Capital eaning - Definition - Scope – Functions of Merchant Banking Merchant Bankers - Guidelines for Merchant Banker. Venture Dimensions of venture Capital - Importance of Venture elines.	Drganiz tual Fu ng - Q nture (zation of the street of the st	1 Ho ne fur ual F 1 Ho Merc Meani re Ca	urs und - und urs han pita
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Unit:2 Mutual Funds in Performance eval Industry in India. Unit:3 Merchant Bankin Bankers - Proble Definition - Feat Industry in India. Unit:4 Factoring - Mean	India - luation ag – Mems of tures Guide	Mutual Funds Definition – Features - Types – Risk in mutual Funds – Cof Mutual Funds – Merits and Demerits of Investing in Mutual Funds – Merits and Demerits of Investing in Mutual Funds – Merits and Venture Capital Peaning - Definition - Scope – Functions of Merchant Banking Merchant Bankers - Guidelines for Merchant Banker. Ven Dimensions of venture Capital - Importance of Venture Pelines. Factoring Definition – Process of factoring - Types of Factoring –	Organiz tual Fu ng - Q nture (Capita	tation of the lands - Muthands -	1 Ho ne fur ual F 1 Ho Merc Meani re Ca	urs und urs chan ng pita

reimbursement - Benefits of Credit Cards - Demerits of Credit Cards.

Ur	nit:6	Contemporary Issues	2 Hours
Ex	pert lectures	s, Online Seminars - Webinars	
		Total Lecture Hours	60 Hours
Bo	oks for Stu	dy	
1	Nalini Pra	va Tripathy, "Financial Services", PHI Learning Private Limited, 20	007
2	E.Gordan	& K.Natarajan, "Financial Markets and Services", Himalaya Publis	hing House, 2016
Bo	oks for Ref	erence	
1	M.Y.Khar	n, "Financial Services", Tata McGraw Hill Publishing Company Lin	nited, Noida, UP, 2019
2	Dr. D.Jose	eph Anbarasu & Others, "Financial Services", S.Chand & Sons Publ	lisher, New Delhi, 2007
3	Dr.S.Guru	samy, "Financial Services and Markets", Vijay Nicole Imprints Pvt	Ltd, Chennai, 2015
	L		
Re	lated Onlin	e Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1		Nil	
Co	urse Design	ed By: Dr.M.Jegadeeshwaran / E-Mail ID: drmjegadeesh@gmail.co	om

Mappi	ng with	Progran	nme Out	comes						
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	M	M	M
CO2	S	S	S	S	S	S	S	M	M	M
CO3	S	S	S	S	S	S	S	M	M	M
CO4	S	S	S	S	S	S	S	M	M	M
CO5	S	S	S	S	S	S	S	M	M	M

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

Elective Pre-requisite Course Objec		ORACLE AND RDBMS	L	T	P	C
			4	-	-	4
Course Obice		Fundamentals of Programming Languages	Syllabus Version		2022	2 - 23
The main object						
		e student to understand the various functionalities of				
-	• •	perations related to creating, manipulating, maintain derstand various designing concepts, storage metho	-			
database.	ins and to un	derstand various designing concepts, storage metho	us, querying	g am	u IIIa	naging in
Expected Cou	rse Outcome	es:				
		on of the course, student will be able to:				
1 Understa	nd the databas	se concepts and design.				K2
		nents in oracle 8 for developing a programme.				K3
3 Analyse t	the sub querie	s and nested queries for developing a programme				K4
		of control structures in PL/SQL for developing a data	base.			K5
		ceptions, procedures, functions and packages				K6
		erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	6 - Create			
Unit:1		Database Concepts			1	0 Hours
		tional Approach - Database Management Systems				
		- Theoretical Relational Languages - Database	Design: I	D ata	Moc	leling an
Normalization	n.					
Unit.2		Data Types			1	1 Цопка
Unit:2	overview - P	Data Types Personal Databases Client / Server Databases Stru	ctured Ouer	v I s		1 Hours
Oracle 9i: An		Personal Databases – Client / Server Databases – Stru			ingua	ge (SQL)
Oracle 9i: An – Oracle Tab	les: Data typ	Personal Databases – Client / Server Databases – Strues – Constraints – Types of Constraints - Creating	an Oracle 7	Γable	ingua e – D	ge (SQL) pisplaying
Oracle 9i: An – Oracle Tab Table Inform	les: Data typ ation – Alteri	Personal Databases – Client / Server Databases – Stru	an Oracle 7 g a Table –	Γable Trun	ingua e – D	ge (SQL) pisplaying
Oracle 9i: An – Oracle Tab Table Inform – Spooling .V	les: Data typ ation – Alteri	Personal Databases – Client / Server Databases – Strues – Constraints – Types of Constraints - Creating ng an Existing Table – Dropping a Table – Renaming tables: Data Management and retrieval – Functions and	an Oracle 7 g a Table –	Γable Trun	ingua e – D icatin	ge (SQL) visplaying g a Table
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Oracle 9i: An Oracle Tab Table Inform Spooling .V Unit:3 Multiple Table	les: Data typ ation – Alteri Vorking with	Personal Databases – Client / Server Databases – Strues – Constraints – Types of Constraints - Creating an Existing Table – Dropping a Table – Renaming tables: Data Management and retrieval – Functions at the Company of Constraints – Queries Set Operations: Join – Types of Joins – SET Operator	an Oracle 7 g a Table – nd. Groupin rs. Sub Que	Γable Trung.	ingua e – D icatin 1 Nest	ge (SQL) bisplaying g a Table 1 Hours ed Querie
Oracle 9i: An Oracle 7i: An Table Inform Spooling .V Unit:3 Multiple Table Sub Query -	les: Data type ation – Alteri Vorking with es: Joins and S Advanced Fo	Personal Databases – Client / Server Databases – Strues – Constraints – Types of Constraints - Creating an Existing Table – Dropping a Table – Renaming tables: Data Management and retrieval – Functions and Control – Viceatures: Objects, Transactions and Data Control – Viceatures: Objects, Transactions and Data Control – Viceatures: Objects	an Oracle 7 g a Table – nd. Groupin rs. Sub Que	Γable Trung.	ingua e – D icatin 1 Nest	ge (SQL) bisplaying g a Table 1 Hours ed Querie
Oracle 9i: An Oracle 7i: An Table Inform Spooling .V Unit:3 Multiple Table Sub Query -	les: Data type ation – Alteri Vorking with es: Joins and S Advanced Fo	Personal Databases – Client / Server Databases – Strues – Constraints – Types of Constraints - Creating an Existing Table – Dropping a Table – Renaming tables: Data Management and retrieval – Functions at the Company of Constraints – Queries Set Operations: Join – Types of Joins – SET Operator	an Oracle 7 g a Table – nd. Groupin rs. Sub Que	Γable Trung.	ingua e – D icatin 1 Nest	ge (SQL) visplaying g a Table 1 Hours ed Querie
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Oracle 9i: An Oracle Tab Table Inform. Spooling .V Unit:3 Multiple Table Sub Query - Index - Transa Unit:4 PL / SQL : Variable decl in PL/SQL - Unit:5 PL / SQL Cu — Implicit Cu:	les: Data type ation – Alterivorking with ses: Joins and Ses: Join	Personal Databases – Client / Server Databases – Strues – Constraints – Types of Constraints - Creating an Existing Table – Dropping a Table – Renaming tables: Data Management and retrieval – Functions and Labeles: Data Management and retrieval – Functions and Data Control – View of Paragraphic Properties (Paragraphic Properties) Set Operations: Join – Types of Joins – SET Operator Paragraphic Properties (Paragraphic Properties) Set Operations: Join – Types of Joins – SET Operator Properties (Paragraphic Properties) Set Operations: Join – Types of Joins – SET Operator Properties (Paragraphic Properties) Set Operations: Join – Types of Joins – SET Operator Properties (Paragraphic Properties) Set Operations: Join – Types of Joins – SET Operator Properties (Paragraphic Properties) Set Operations: Join – Types of Joins – SET Operator Properties (Paragraphic Properties) Set Operations: Join – Types of Joins – SET Operator Properties Set Operations: Join – Types of Joins – SET Operator Properties Set Operations: Join – Types of Joins – SET Operator Properties Set Operations: Join – Types of Joins – SET Operator Properties Set Operations: Join – Types of Joins – SET Operator Properties Set Operations: Join – Types of Joins – SET Operator Properties Set Operations: Join – Types of Joins – SET Operator Properties Set Operations: Join – Types of Joins – SET Operator Properties Set Operator – Set Operator Properties Set Operator – Set Operator Properties Set Operator – Set Operator – Set Operator Properties Set Operator – Set Operator – Set Operator – Set Operator Properties Set Operator – S	an Oracle 7 g a Table – nd. Groupin rs. Sub Que ews – Seque ls of PL/SQ ed Blocks –	Table Trur g. ries: Data	ngua e – D icatin Nest s – Sy 1 Data Mar	ge (SQL) pisplaying g a Table 1 Hours ed Querie ynonyms 3 Hours a types – nipulation 3 Hours Attributes
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Books	for	Study
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Nilesh Shah, "Database Systems Using Oracle", Second Edition, PHI Learning Private Limited, New Delhi, 2004

Abraham Silberschatz Henry F.KorthS.Sudarshan, "Database System Concepts", Tata McGraw Hill Publishing Company Limited, Noida, UP, 2019

Books for Reference

Alexis Leon, Mathews Leon, "Essentials of Database Management Systems", Vijay Nicole Imprints Pvt Ltd, Chennai, 2005

Raghu Ramakrishnan& Johannes Gehrke, "Database Management Systems", Tata McGraw Hill Publishing Company Limited, Noida, UP, 2003

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

https://swayam.gov.in/nd1_noc20_cs60/preview

https://swayam.gov.in/nd2_nou20_lb06/preview

https://swayam.gov.in/nd2_aic20_sp36/preview

Course Designed By: Dr.M.Dhanabhakyam / E-Mail ID: dhana_giri@rediffmail.com

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

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

Course code	1EB	DATA MINING AND DATA WAREHOUSING			P	C
Elective			4	-	-	4
Pre-requisite		Basic Knowledge in Database	•	abus sion	2022 23	-

The main objectives of this course are to:

- 1. Make the Student aware about the Data Warehouse Concept.
- 2. Induce the student to learn about Data warehouse Architecture.
- 3. Make the student familiarize with Data Mart and Dimensional modeling.
- 4. Gain knowledge on Data mining.
- 5. Comprehend the knowledge in Data mining tools and techniques.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

	<u>.</u>	
1	Remember the concept of Data warehousing and differentiate from databases.	K1
2	Explain and evaluate the data warehouse Architecture.	K2 & K4
3	Understand the concept of Data Mart and Dimensional Modeling.	K2
4	Remember and comprehend the data mining concept.	K1 & K2
5	Evaluate and apply the different tool and techniques of Data mining.	K5 & K3.

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Unit:1 DATA WAREHOUSE OVERVIEW 11 Hours

Data warehouse: definition - history of data warehouse - features of data warehouses - characteristics of data warehouse - goals of data warehousing- principles of data warehousing - need for data warehouse - benefits of data warehouse - need for separate data warehouse - difference between database and data warehouse - applications of data warehouses - components of data warehouse- data staging component.

Unit:2 DATA WAREHOUSE ARCHITECTURE 10 Hours

Data warehouse architecture - properties of data warehouse architectures - types of data warehouse architectures- three-tier data warehouse architecture - ETL (extract, transform, and load) process - selecting an ELT tool- Difference between ETL and ELT types of data warehouses - data warehouse modeling - data modeling life cycle - types of data warehouse models- data warehouse design - data warehouse implementation- implementation guidelines - meta data - necessary of metadata in data warehouses - types of metadata- metadata repository - benefits of metadata repository.

Unit:3 DATAMART & DIMENSIONAL MODELDING 11 Hours

Data Mart- Reasons for creating a data mart- Types of Data Marts- Steps in Implementing a Data Mart-Difference between Data Warehouse and Data Mart. - Dimensional Modeling-Objectives of Dimensional Modeling- Advantages of Dimensional Modeling - Elements of Dimensional Modeling - Dimension Table-Multidimensional Data Model-Data Cube.

Unit:4 DATA MINING 13 I

Data Mining: Definition - History of Data Mining- Features Of Data Mining - Types of Data Mining - Data Mining Vs Data Warehousing- Advantages and Disadvantages of Data Mining - Data Mining Applications - Challenges of Implementation in Data mining - Steps involved in Data Mining - Classification of Data Mining Systems.

Un	it:5	Tools and Techniques	13 Hours
Dat	ta Mining T	ools & Techniques - Data Mining Implementation Process - Data M	ining Architecture -
Clu	ustering in D	ata Mining - Different types of Clustering - Text Data Mining - Bitcoin	Data Mining - Data
		Data - Data Mining Models - Trends in Data Mining.	C
Un	it:6	Contemporary Issues	2 Hours
Exp	pert Lectures	s, Online Seminars – Webinars	
		Total Lecture Hours	60 Hours
No	te: Question	paper shall cover 100% theory.	
Bo	oks for Stud	ly	
1	Golfarelli,"	Data Warehouse Design" McGraw-Hill Education (India) Pvt Limited, Mumba	i, 2019.
2	Gordon S.	LinoffMichael J. A. Berry., "Data Mining Techniques: For Marketing,	Sales, and Customer
	Relationsh	ip Management", Gildan Media, 2018.	
Bo	oks for Refe	erence	
1	Berson, Al	ex., & Smith, Stephen., "DATA WAREHOUSING, DATA MINING, & O	OLAP", McGraw Hill
	Education,	Mumbai,2017.	
2	Han, Jiawe	ei, Kamber, Micheline., Pei, Jian., "Data Mining: Concepts and Technique	s", Elsevier Science,
	2011.		
Re	lated Online	e Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://ww	w.javatpoint.com/data-warehouse	
2	https://wv	ww.javatpoint.com/data-mining	
	_		

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

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

Course Designed By: Dr.M.Nirmala / E-Mail ID: nimmiswetha@gmail.com

Course code	23A	COST AND MANAGEMENT ACCOUNTING	L	T	P	C		
Core	<u> </u>	COST AND MANAGEMENT ACCOUNTING	4	-	-	4		
Pre-requisite	Pre-requisite Knowledge in basics of Cost and Management Accounting Version							
Course Objectives	s:		•					
The main objective								
		s about various tools and techniques available in Manager				_		
-		edge about the preparation of cost sheet and Marginal Cos	ting '	Гесhn	ique	S		
	•	based Costing						
		about the variances of standard costing						
5. Equip then	n in the pr	reparation of various budgets						
E	04							
Expected Course								
		on of the course, student will be able to:			т,	20172		
		appropriate tools for managerial decision making				2&K3		
		neet and apply various techniques using marginal agerial decision making	costi	ng	K	3&K6		
3 To illust	rate ABC	and evaluate Activity Based Costing report			K	2 &K5		
4 To apply	the stan	dard costing techniques and evaluate the causes for vari	iance	in		K5		
different	elements	of cost						
5 To devel	op differe	nt budgets required for the different concerns				K6		
K1 - Remember;	K2 - Und	erstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - C	Create	,				
Unit:1		Management Accounting			1	6 Hours		
		Definition, Nature and Scope – Functions – Role of Mar		nent A	Acco	untant –		
Tools of Financia	l Analysis	and Planning – Ratio, Fund Flow and Cash Flow Analys	1S					
Unit:2	1	Activity Based Costing	l		1	0 Hours		
	osting (ABC) – meaning – Concept of ABC – need for ABC- S	tagas	of A				
		ost from activities to products- preparation of ABC Prod						
(Theory Only).	tracing c	ost from activities to products preparation of Tibe Frod	uct p	101114	.01110	y report.		
(======================================								
Unit:3		Standard Costing				6 Hours		
	- Setting	the standards – Variance Analysis and Reporting – Mate	erial,	Labou				
		- Reporting and investigation of variances.						
Unit:4		Budgeting and Budgetary Control				4 Hours		
		ntrol Forecasting Vs. Budget - Preparation of Function		udget	_]	Types of		
Budgets – Zero B	ase Budge	eting, Programme Budgeting and Performance Budgeting.						
						2 Hours		
	Unit:5 Cost Volume Profit Analysis							
		Vs Variable Costing – Cost Center – Profit Center - Prep						
		Even and CVP Analysis and Decision Making. Application	on of	Marg	gınal	Costing		
in Managerial Dec	ision Mak	ing						

Un	it:6	Contemporary Issues	2 Hours								
onl	online seminars – webinars-quiz-online assignments										
		Total Lecture Hours	60 Hours								
Not	Note: Question Paper shall cover 40% Theory and 60% Problems.										
Boo	oks for St	udy									
1	S.P.Jain &	R.L.Narang, "Advanced Cost Accounting", Kalyani Publisher	s, Ludhiana, 2018								
2	Sharma sh	ashi k.Gupta and R.K.sharma, "Management Accounting, "Kal	yani Publishers, 2016								
Boo	oks for Re	ference									
	Dr. S.N.M Delhi, 201	Taheswari, "Cost and Management Accounting", Sultan Chand 2	& Sons Publisher, New								
	Murthy & 2010	Gurusamy, Management Accounting, Vijay Nichole Imprint	s (P) Limited, Chennai,								
Rel		ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1	https://w	ww.youtube.com/watch?v=_z4-7xr6ur8									
2	https://w	ww.youtube.com/watch?v=0OJ2PIGiwJE									
3	https://ep	ogp.inflibnet.ac.in/Home/ViewSubject?catid=6									
Coı	urse Desig	ned By: Dr.M.Nirmala / E-Mail ID: nimmiswetha@gmail.com									

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

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

Course code	23B	INTRODUCTION TO PYTHON	L	T	P	C
Core			4			4
Pre-requisite		Basic knowledge on Python	Syllabus Version		20 2	

The main objectives of the program are to

- 1. Know the basic concepts of Python programming language and help the students to understand how this Programming language differs from others.
- 2. Get the knowledge about the conditionals and iteration statements in python.
- 3. Develop the simple programs using python language using control statements.
- 4. Make the students to understand the data structures lists, tuples and dictionaries.
- 5. Understand the python data file handling and the exception handling techniques.

Expected Course Outcomes:

On the successful completion of the course, students will be able to:

Oli	On the successful completion of the course, students will be able to.								
1	Explain and identify the Python programming data types, environment setup and python language applications.	K2 & K3							
2	Know the conditionals and iteration of python language.	K3							
	Know and understand the function and arrays of python language and motivate the students to make use of such functions in different applications.	K1,K3 & K4							
4	Understand lists, tuples and dictionaries and motivate the students to make use of them	K3 & K4							
5	Apply the data file operation technique and evaluate the program in a practical manner	K3 & K6							

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Unit:1 Introduction to Python

10 Hours

Introduction to Python Language: Features of Python language, Applications and Implementation of Python and Environment setup. Data types: Int, float, Boolean, string, and list: variables, expressions: Boolean values and operators- statements, precedence of operators, comments; modules, functions--- function and its use, flow of execution, parameters and arguments.

Unit:2 Conditionals and Iteration statements

10 Hours

Control flow statements: Conditionals: conditional (if), alternative (if-else), chained conditional (if-elif-else); Iteration: while, for, break, continue.

Unit:3 Python Functions and Arrays

12 Hours

Return values, parameters, local and global scope and function composition. String: string slices, functions and methods. Python Arrays, Access the Elements of an Array, array methods.

Unit:4 Lists and Tuples

14 Hours

Python Lists: Creating lists, accessing values in lists, updating and deleting the list elements, list slices, built- in list functions and methods., Tuples: tuple assignment, tuple as return value, tuple comprehension; Dictionaries: methods and operations, comprehension

Text files: creating, deleting and renaming files: reading and writing files, I handling exceptions: tryexceptelse modules: date time, time, OS, calendar, and Unit:6 Contemporary Issues	-					
Unit:6 Contemporary Issues						
1 0	2 Hours					
1 0	2 Hours					
1 0	2 Hours					
Online Assignments-Online Seminar- Quiz						
Total Lecture Hours	60 Hours					
Books for Study						
1 E. Balaguruswamy, "Introduction to Computing and Problem Solving Using Py	thon"McGraw Hill					
Education India Private Limited,2017						
2 Martin C. Brown, "Python: The Complete Reference", Fourth edition, McGraw	v Hill Education, 2018.					
Books for Reference						
1 Wesley J. Chun, "Core Python Applications Programming", 3rd Edition, Pears	son Education, 2016					
Downey, A. et al., "How to think like a Computer Scientist: Learning with 2015.	Python", John Wiley,					
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1 https://www.youtube.com/watch?v=Asap1SRlnSQ						
2 https://www.youtube.com/watch?v=PQsB49MY4hQ	https://www.youtube.com/watch?v=PQsB49MY4hQ					
3 https://www.youtube.com/watch?v=NIWwJbo-9_8						
Course Designed by: Dr.M.Anbukarasi / E-Mail ID: anbujan2011@gmail.com						

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

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

Course code	23C	DIRECT TAX	L	Т	P	C	
Core			4	-	-	4	
Pre-requisite		Knowledge of Income Tax Law and Authorities		labus rsion		22 - 23	
Course Objectives:							
The main objecti	ves of this co	ourse are:					
1. To know	the basics of	Income Tax Act and its implications.					
		ous provisions and how to compute taxable income of ar	n indiv	idual			
		sources of income and the tax provision.					
		ome tax authorities, TDS and e-filing procedures.					
Expected Cours							
		n of the course, students will be able to:					
detern		e basic concept and procedures of Income Tax Act, assidential Status, Scope of Total Income, Capital,			K	.1	
		tax provisions and computations of taxable income from	salar	٧.	K	3	
		sions and computations of taxable income from Profits a	•		K		
		ion and capital gain.					
	termine the ssessment of	Income from Other Sources, Deduction from Gross To	otal I	ncome	K	.5	
		nember the Income Tax Authorities, PAN Card, Tax 1	Deduc	ted at	K	6	
	-	al Applications of E-Filing					
		stand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Ca	reate				
Unit:1		Introduction of IT and Residential status			Ho		
	ır – Residen	Definition – Income – Agricultural Income – Assessatial Status – Scope of Total Income – Capital and lomes.					
Unit:2		Income from salary and House property		12	2 Ho	nirc	
	ion of Incom	ne from Salaries and Income from House Property.		14	11(Juis	
		to from buttures and moone from frouge froperty.					
Unit:3	Incom	e from Business or Profession and Capital Gain		1	0 Но	nire	
		d Gains of Business or Profession – Calculation of Capital	al Gai		0 110	Juis	
		a cumb of Business of Fronession Carculation of Cupin					
Unit:4	Income	from other sources and Assessment of Individual		12	2 Ho	nire	
		me from Other Sources – Set-off and carry Forward of L	osses				
		sment of Individuals.					
Unit:5		Assessment Procedure and E-filing			4 H		
		ies – Procedure for Assessment – PAN Card- Tax Deductions – Tax collected at Source. Practical Applications of			(TD	OS)–	
Unit:6		Contemporary Issues			2 H	ours	
Expert Lectures	, Online Sen	ninars - Webinars					
		Total Lecture Hours		6	0 H	ours	

Note:	Note: Question Paper shall cover 40% Theory and 60% Problems							
Book	Books for Study							
1	Gaur & Narang, "Income Tax Law & Practice", DP Kalyani Publishers, Latest Edition, New Delhi,							
	2022.							
2	Vinod K.Singhania, Monica Singhania, Students Guide to Income Tax. Taxman Publications Pvt.							
	Ltd, New Delhi, 2022.							
Book	s for Reference							
1	H.C.Mehorotra, "Income Tax Law & Practice", Prentice Hall Pvt Ltd, New Delhi, 2022							
2	Dingar Pagare, "Tax Laws", S.Chand & Sons Publisher, New Delhi, 2022							
Note:	Question Paper shall cover 40% Theory and 60% Problems.							
Relate	d Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	https://icmai.in/upload/Students/Syllabus2016/Inter/Paper-7-Jan2020 - 21.pdf							
Cours	e Designed By: Dr. P. Chellasamy, Professor / E-Mail ID: drchellamsamy@gmail.com							

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M	S	M	M	S	S	S	M	S	S
CO2	S	S	S	M	S	S	S	S	S	M
CO3	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	M	S	S
CO5	S	S	S	S	S	S	M	M	M	M

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

Course code 23D	BANKING 4.0	L	Т	P	C
Core		4	-	-	4
Prerequisite	Basic ideas on Banking Practices	Syllabu Versio		202 - 2	

The main objectives of this course are to:

- 1. Describe the Banking sphere and changes introduced by Fintech companies in Banking.
- 2. Disseminate recent technologies used in the Banking sector to students.
- 3. Make the student acquainted with the digital lending process.
- 4. Create an idea about the Crypto Assets.
- 5. Cultivate the need and importance of Cyber security among students.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

On the s	decession completion of the course, student will be dole to.	
1	Remember the Banking sphere and understand the evaluation of Fintech Companies in Banking.	K1 & K2
2	Understand the different technologies used in Banking	K2
3	Grasp the full landscape of Digital lending products and understand the changes brought in by fintech companies in the lending space.	K2
4	Comprehend the new digital currencies and recent payment methods adopted for speedy transfer of funds.	K2
5	Expand to knowledge in cyber security threats in the Banking sphere.	K2

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Unit:1 Overview on Banking 4.0 11 Hours

Banking: Meaning - Brief History of Banking - Rapid Transformation in Banking: Customer Shift - Fintech Overview - Fintech Outlook - The Financial Disruptors - Digital Financial Revolution - New Era of Banking - New Economics of Digital Banking.

Unit:2 Blockchain / AI in Banking 10 Hours

Distributed Ledger Technology - Blockchain: Meaning - Structure of BlockChain - Types of Block Chain - Difference between DLT and Blockchain - Benefit of Blockchain and DLT - Uses of Blockchain in banking - Unlocking the potential of Blockchain - role of DLT in financial services.

AI in Banking: Future of AI in Banking - Why Bank needs AI - Applications of AI in Banking - importance of AI in banking - Banking reimagined with AI.

Cloud banking - Meaning - Benefits in switching to Cloud Banking.

Unit:3 Digital Lending Taxonomy 11 Hours

Digital Lending: Meaning - Digital Lending Eco-System - Evolution of the digital lending landscape in India - Driving Factors & Key Benefits - FinTech lending overcomes the challenges of conventional lending - Opportunities for FinTech lenders - Driving innovation and competition in the lending sector - Current digital lending models in India - AI and ML's role in next-generation lending - FinTech lending and its potential impact on market lenders -Regulatory environment for digital Lending.

Unit:4	New Paradigm in Banking	13 Hours
Central I	nin-Based Currency: Decentralized Crypto assets: Bitcoin - Ethereum - Centralized Cank Digital Currencies ("CBDCs"). Cayment: Understanding Digital Payment - Types of Digital Payment Methods - Beness.	
Unit:5	Cyber security in Digital Banking	13 Hours
1. (Cyber Security: Cyber security threats faced by banks - Importance of cyber securit	y in banking -
Recomm	endation for banks to deal with cyber threats - Emerging trends and challenges in cyber	er security.
Unit:6	Contemporary Issues	2 Hours
Expert L	ectures, Online Seminars – Webinars	
	,	
	Total Lecture Hours	60 Hours
Note: Q	uestion paper shall cover 100% theory.	
Books fo	or Study	
1	King, Brett., "BANK 4.0:Banking everywhere, never at a bank ", Marsha International (Asia) Pte Ltd, USA, 2019.	all Cavendish
2	Wewege, Luigi., & Michael, C. Thomasett," THE DIGITAL BANKING REVOLUT de Gruyter Inc., Boston/Berlin, 2020.	ΓΙΟΝ", Walter
Books fo	or Reference	
1	Skinner, Chris., "DIGITAL BANK STRATEGIES TOLAUNCH OR BECOME A DIGITAL BANK" Marshall Cavendish Business, Singapore, 2014.	
2	Indian Institute of Banking & Finance, "Digital Banking", New Delhi, Taxmann Pub Ltd, 2019.	lications Pvt.
Related	Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://www.rbi.org.in/Scripts/PublicationReportDetails.aspx?UrlPage=&ID=1189	
2	https://www.pwc.in/assets/pdfs/consulting/financial-services/fintech/publications/a-	wider-circle-
	digital-lending-and-the-changing-landscape-of-financial-inclusion.pdf	
Course I	Designed By: S.Arun kumar / E-Mail ID: s_arunkumar@yahoo.com	

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

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

Course Code	23E	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	L	Т	P	C
Core			4	-	-	4
Pre-requ	isite	Basic knowledge in Investment Management	Syllabi Versio		2022 23	-

The main objectives of this course are to:

- 1. Become familiar with various Investment avenues, Portfolio Construction as well as the risk and return associated with various stock.
- 2. Acquire a thorough knowledge in valuation models.
- 3. Learn about long-term and short-term investment analysis tools.
- 4. Familiarize with Portfolio theories.
- 5. Gain knowledge in Portfolio performance and risk adjusted methods.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	1 Remember and comprehend the various investing options, how to structure a portfolio			
	and the risks and rewards associated with each options.			
2	Understand the Equity Shares, Preference Shares and Bonds valuation	K2		
3	Construct a portfolio using fundamental and Technical analysis	K6		
4	Understand and apply the Portfolio Theories in portfolio construction.	K2 & K3		
5	Evaluate the portfolio performance and able to make the necessary changes in	K5 & K3		
	portfolio.			

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Unit:1 Investment Management 15 Hours

Investment – Meaning – Nature and scope of Investment – Investment vs Speculation – Type of Investors – Investment Avenues – Factors influencing the investment choice – Portfolio Management: Meaning and significance, Active vs. Passive portfolio management - Strategic vs. Tactical asset allocation - Factors Affecting Investment Decisions in Portfolio Management - Risk: Definition - Systematic versus Nonsystematic Risk - Measurement of Risk - Risk and Expected Return - Risk-Return Relationship of different stock - Portfolio and Security Returns - Return and Risk of Portfolio - Portfolio Diversification and Risk.

Unit:2 Valuation of Equity, Preference Shares & Bonds 10 Hours

Bond: Introduction – Reasons for issuing Bonds – Bond Features – Types of Bonds – Determinants of bond safety -Bonds Prices, Yields and Interest Rates –Measuring Price Volatility of Bonds - Macaulay Duration and Modified duration. Preference Shares: Introduction – Features of Preference shares – Preference Shares Yield – Holding Period Return – Yield to Call - Concept of Present Value - Equity Share Valuation Model.

Unit:3 Fundamental & Technical Analysis 13 Hours

Fundamental Analysis: Objectives - Economic Analysis - Industry Analysis - Company Analysis - Technical Analysis: Meaning of Technical Analysis - Assumptions - Pros and cons of technical analysis - Difference between technical analysis and fundamental analysis - Dow Theory - Types of Charts - Chart Patterns - Trend Analysis - Support Line and Resistance Line - Volume Analysis - Indicators and Oscillators - Simple Moving Average - Exponential Moving Average - Relative strength Index - Bollinger Band - Elliott wave theory.

Uni	t:4	Portfolio Theories	10Hours					
	Efficient Market Hypothesis - Markowitz Model, Arbitrage Pricing Theory - Sharpe's Single index							
port	folio s	selection method - Capital Asset Pricing Model (CAPM).						
Uni		Portfolio Performance Evaluation and Revision	10 Hours					
		rtfolio Performance Evaluation - Meaning - Need for Evaluation - Methods of						
		harpe's Ratio - Treynor's Ratio - Jensen's Differential Returns - Portfolio	Revision - Need for					
Port	tfolio l	Revision - Formula Plans.						
Uni	4.6	Contomnovawy Iggues	2 Hours					
		Contemporary Issues tures, online seminars – webinars – Class with live charts	2 Hours					
Ехр	icit icc	Total Lecture Hours	60 Hours					
		Total Lecture Hours	00 Hours					
Not	e: Qu	estion Paper shall cover 70% Theory 30% Problem						
		Study						
1	Kev	in., S "Security Analysis and Portfolio Management" New Delhi, PHI Learnin	g Pvt Ltd, 2015.					
2		ndra, Prasanna., "Investment Analysis and Portfolio Management", New Delh						
		ishing Company Ltd, 2017.						
3		lla V.K., "Investment Management" New Delhi, S. Chand& Co Ltd, 2019.						
4	Rang (2/e)	ganathan M. and Madhumathi R., Security Analysis and Portfolio Manage	ment, Pearson, 2012					
		Reference						
1		dhani, V.A., "Security Analysis and Portfolio Management", Mumbai, 1 se,2016	Himalaya Publishing					
2	Puni	thavathy Pandian, "Security Analysis and Portfolio Management", New De	elhi, Vikas Publishing					
	Hou	se Pvt Ltd, 2013	_					
3	Fisc	her D. E., Security Analysis and Portfolio Management, Pearson education, 19	95.					
		nline Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1								
2	https	s://archive.nptel.ac.in/courses/110/107/110107154/						
Cou	irse De	esigned By: S. Arun Kumar / E-Mail ID: s_arunkumar@yahoo.com						

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M	S	M	M	S	S	S	M	S	S
CO2	S	S	S	M	S	S	S	S	S	M
CO3	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	M	S	S
CO5	S	S	S	S	S	S	M	M	M	M

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

Course Code	2EA		L	Т	P	С
Elective		ENTERPRISE RESOURCE PLANNING	4	_	+	4
Elective			Sylla	buc	-	4
Pre-requisite	!	None	Vers		202	22 - 23
Course Object						
		his course are to:				
		he students to understand the theory behind the design	and de	evelop	omer	it of ai
integrated soft	ware syste	em for an enterprise.				
Expected Cou	rse Outc	omes:				
		pletion of the course, student will be able to:				
1 Underst	and the co	oncepts and advantages of ERP.			K	2
		ous types of risks in ERP.			K	[4
-		arious types of technologies used in ERP.			K	2
		narket place and Market place dynamics.				<u> </u>
		re directions in ERP.				.5
		Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate	: K6 - (Create		
Unit:1	(1, 112	ERP-Functions		- Cut		Hour
	Overvie	ew: Business Functions and Business Processes -	Integra	ted 1		
Unit:2		- Advantages of ERP. ERP Implementation				Hour
	P: People	e Issues - Process Risks - Technological Risks -	Implem	entat		
Operation and	d Mainte	nance Issues - Unique Risks of ERP Projects - Ma	anaging	g Ris	ks o	n ERI
		RP: Information Integration - Reduction of Lead Time				
		ne - Improved Resource Utilization - Better Customer				
		Increased Flexibility - Reduced Quality Costs - Better d Information Accuracy and Decision Making Cap	-			
Technology.	improve	a information recuracy and Decision Making Cap	aomiy	- 03	C OI	Lates
Unit:3		ERP Technologies			11	Hour
	ated Tech	nologies: Business Process Reengineering (BPR) - Bu	siness	Intell		
	-	BA) - Data Warehousing- Data Mining - On - Line	•			
		Cycle Management (PLM) - Supply Chain Managem				
-	_	nent (CRM) - Geographic Information Systems Fechnology and ERP Security: Technological Advances				
		rity - Computer Security - Crime and Security.	anceme	iits -	CO.	прис
Unit:4		ERP and Indian Scenario			13	Hour
	Market P	lace and Market Place Dynamics: Market Overview	w - EI	RP M		
	•	s - Industry - Wise ERP Market Share - ERP: The In				
		Package: Functional Modules of ERP Software: Inte	gration	of I	ERP,	Supp
Chain, and Cu Unit:5	istomer R	elationship Applications. Benefits of ERP			12	Цот
	l lentation:	Benefits of Implementing ERP - Implementa	ation (hall.		Hou FR
			fferent		_	
_		ons for FRP Implementation Failure FRP Package				

Evaluation and Selection - The Selection Process - ERP Packages: Make or Buy.

Implementation- Reasons for ERP Implementation Failure. ERP Package Selection: ERP Package

Uı	nit:6	Contemporary Issues	2 Hours
Ex	pert lectur	es, online seminars - webinars	
		Total Lecture Hours	60 Hours
Bo	oks for St	udy	
1	Alexis I	eon, "Enterprise Resource Planning", Third Edition, Mcgrav	w Hill Education (India)
	Private I	imited, New Delhi, 2014	
2		Altekar, "Enterprise Wide Resource Planning- Theory And Pr	actice", Prentice Hall Pvt
	Ltd, Nev	v Delhi, 2006	
Bo	ooks for R	eference	
1	Vinod K	umar Garg and N,K,Ventitakrishnan, "Enterprise Wide Reso	urce ", Prentice Hall Pvt
	Ltd, Nev	V Delhi, 2003	
2	Dr. Sub	odhKesharwani, "ERP Systems- Application, Experiences", U	psurge, PragatiPrakathan
	Publicat	on, Meerut, 2018	
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
		Nil	
	Cour	se Designed By: Dr.M.Dhanabhakyam / E-Mail ID: dhana_giri	@rediffmail.com

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

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

Course code 2EB		DIGUE ANGE AND DIGUENTA GENERALE	L	T	P	C		
Elective		INSURANCE AND RISK MANAGEMENT	4	_	_	4		
Pre-requisite		Broad understanding of Risk and Insurance as a means to manage it.	Syllabus Version		s 2022 -			
Course Object	tives:				I			
The main object	ctives of this c	ourse are to:						
2. Understan IRDA Reg3. Develop a	d reforms of gulations and land understanding	Incept, principles of insurance and role of IT in insurance industry, private players to India icensing of insurance agents. In a go insurance industry and its types.	n insur		-	ket,		
•		, risk management, and steps in risk management paethods of risk management, control risk and tools		rolli	no R	isk		
Expected Cou			101 0011	10111	iig it	131.		
		of the course, student will be able to:						
	the principles	of insurance and differentiate re-insurance and	double	e]	K1&K2			
2 Analyze insurance	-	of Indian insurance industry, reforms and licen	ising o	f	K4			
claiming	Life.	nsurance policies and have knowledge on proceed	dure fo	r I	Κ2 &	&K3		
4 Analyze	Analyze the risk, apply risk management techniques to control risk							
5 Able to io	dentify measur	e and apply relevant method for risk management.			K3			
K1 - Remembe	er; K2 - Under	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate; F	C 6 – Cr	eate				
Unit:1		Introduction to Insurance			0 Ho			
	es of Insuranc	ance: Role of Insurance – Characteristics of Insurace – Reinsurance: Meaning – Concept – Functionarance. Indian Insurance Industry		-ins		ee -		
	Insurance Indu	stry – Reforms – Private Players to Indian Insura	nce Ma					
		f Insurance Agents – For Protection of Policy Hold				<i>D</i>		
Unit:3		Insurance Contract		14 Hours				
	ce Contract: L	ife Insurance Contract – Features, Policy Condi	tions a					
insurance: Mea	aning- Feature	e and Marine - Features, Policy Conditions ar s-Advantage- Limitation- Eligible groups. Health a iming Life and Health Insurance.						
Unit:4		Risk and Uncertainty		1	2 Ho			
Introdu	- Risk Manag	and Uncertainty: Concept of Risk – Types of Risk gement Process – Objectives of Risk Management		iples	s of F	Risk		

Unit:5Risk Management and Control10 HoursRisk Management and Control – Methods of Risk management – Risk Management by

Individuals and Corporations – Tools for Controlling Risk.

Un	it:6	Contemporary Issues	2 Hours
On	line semina	rs, online assignments– webinars	
		Total Lecture Hours	60 Hours
Bo	oks for Stu	dy	
1	Dr. P.K.C 2016.	Supta, "Insurance and Risk Management", Himalaya Publishi	ng House, Mumbai,
2		al and S.L Gupta, "Principles of Insurance and Risk Manageme New Delhi, 2013.	nt", S.Chand & Sons
Bo	oks for Ref	erence	
1	Nalini Pra New Delh	va Tripathy and Prabir Pai, "Insurance – Theory and Practice", Fi, 2005.	Prentice Hall Pvt Ltd,
2	Mark S. I New Delh	Oorfman, "Introduction to Risk Management and Insurance", P. i, 2005.	rentice Hall Pvt Ltd,
Re		e Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://res	ource.cdn.icai.org/13526Module-%20II.pdf	
2	https://res	ource.cdn.icai.org/13525Module-1.pdf	
3	https://res	ource.cdn.icai.org/13527Module-III.pdf	
Co	urse Design	ed By: Dr. N.Vijayalakshmi / E-Mail ID: nvijiphd@gmail.com	

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

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

Course code	33A	BUSINESS RESEARCH METHODS	L	Т	P	C
Core		DUSTNESS RESEARCH METHODS	4	-	-	4
Pre-requisite	,	Basic ideas about Research and Knowledge of Statistics	Sylla Vers		202 23	
Course Object	tives:					
The main object	ctives of t	his course are:				
designs 2. To iden 3. To imp interpre	and tech tify the vart knowletation to	understanding of the basic framework of the research process and niques arious sources of information for literature review and data collectedge for enabling students to develop data analytics skills and me the data sets so as to solve the business/Research problem in reports and research proposal.	tion		earch	1
Expected Con	maa Outa	omaga				
On the succes		olletion of the course, students will be able to:				
	-	quantitative and / or qualitative research techniques to busines	ee and		K1	
		ems / issues	ss and		ΙXΙ	-
2 Demonstra the research	ate know	edge and understanding of data analysis and interpretation in rela	tion to	k	(2 &	K3
3 Develop n	ecessary	critical thinking skills in order to evaluate different research appro- sess / Industry	aches	k	4 &	K5
4 Write the	research 1	report and research proposal			K5	;
5 Identify th	e overall	process of designing a research study from its inception to report.			K6)
K1 - Rememb	per; K2 -	Undestand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Creat	e	·		
Unit:1		Introduction and Research Design		10	Hou	ırs
researcher – 7	Types of 1	Ieaning – Scope and Significance – Utility of Business Research – Research – Research Process – Identification, Selection and form – Research design.				
Unit:2		Sampling and Tools for Data Collection		10	Hou	ırs
Collection. To	ools for I	ethods and Techniques – Sample Size – Sampling Error – Fig Data Collection – Interview Schedule - Questionnaire – Observat - Pilot Study and final Collection of Data.				
Unit:3		Analyzing and Report Writing		12	Hou	ıre
	urement	and Scaling Techniques – Reliability and Validity Processing and	Analy			
		ssification – Tabulation – Interpretations. Report Writing – Steps				
Unit:4	ľ	Measuring the Relationship and Analyse the Impact		14]	Hour	·s
Measu	res of Co	entral Tendency – Standard Deviation – Correlation - Simple, Falysis – Auto Correlation – Regression Models – Ordinary Least		and I	Mult	iple
Unit:5		Testing of Hypothesis			Hou	
		cance – 't'Test - Large Sample and 'f' Test, Test of Significa ANOVA) – Chi-square Test	nce fo	or At	tribu	tes,

Unit:6	Contemporary Issues	2 Hours							
Expert lectures, online	Expert lectures, online seminars – webinars - SPSS								
	Total Lecture Hours	60 Hours							
Note: Question Pape	r shall cover 60% Theory and 40% Problems								
Books for Study									
1 Cooper (2019) , "I UP.	Business Research Method", Tata McGraw Hill Publishing Comp	pany Limited, Noida,							
2 S.P. Gupta (2019)), "Statistical Methods", S.Chand & Sons Publisher, New Delhi.								
Books for Reference									
1 J.K.Suchdeva (20	20), "Business Research Methodology", Himalaya Publishing Ho	ouse, Mumbai.							
2 R.S.N. Pillai & V.	. Bagavathi (2020), "Statistics", S.Chand & Sons Publisher, New	Delhi.							
	ents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1 https://nptel.ac.in	/courses/121/106/121106007/								
2 https://youtu.be/I	vk0SDrD4DM								
		·							
Course Designed By:	Dr. P. Chellasamy / E-Mail ID: drchellamsamy@gmail.com								

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M	S	M	M	S	S	S	M	S	S
CO2	S	S	S	M	S	S	S	M	S	M
CO3	S	S	S	S	S	S	S	M	M	M
CO4	S	S	S	S	S	S	S	S	M	S
CO5	S	S	S	S	S	S	S	S	M	M

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

Course code	33B	SOFT SKILLS FOR MANAGERS	L	Т	P	C
Core			4	-	-	4
Pre-requ	isite	Basic Knowledge in Writing and Speaking	Syll: Vers	abus sion	2022	- 23

The main objectives of this course are to:

- ✓ Equip the students with competencies to manage themselves in organizations with a scientific outlook towards communication.
- ✓ Develop career orientation through an understanding of Mock interviews and Group Discussion.
- ✓ Develop inter personal and intra personal skills of the students and Presentation skills.
- ✓ Facilitate an insight into the functioning of individuals and groups.
- ✓ Generate interest among students to face competitions with confidence.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

	1	
1	Understand the basics of Business Communication System and to know the different	K2
	elements of communication.	
2	Enable the students to participate in the campus selection process with special focus on	K6
	aptitude and Group Discussion.	
3	Create communication skills that integrate written, verbal and technical	K6
	Communication	
4	Apply the professional behaviour to enter into the professional world.	K3
5	Analyze logically and solve the problems in professional life.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Unit:1 Introduction to Communication 10 Hours

Introduction- Role of Communication in Business – Objectives of Communication – The Process of Human Communication – Media of Communication Written Communication – Oral Communication – Face of Face Communication – Visual Communication – Audio Visual Communication Skills – Understanding Cultural Effects of Communication- Barriers of Communication.

Unit:2 Managing Organization Communication 14 Hours

Managing Organization Communication – Formal Communication – Informal Communication – Intra and Inter Personal Communication – Models for Inter Personal Communication – Group Discussion - Exchange Theory, Johari Window and Transactional Analysis. Managing Motivation to Influence Interpersonal Communication – Inter Personal Perception – Role of Emotion in Inter Personal Communication – Communication Styles Gateways to Effective Interpersonal Communication

Unit:3 Effective Listening and Speaking 12 Hours

Listening - Art of listening - Principles of listening, types of listening, Process of listening - guidelines for effective listening, types of listeners - difference between hearing and listening, qualities for a good listener. Interview, Types of interview; Techniques of interview. Power-point presentations - ways to make presentations effective.

Uni	t:4 Business Correspondence	12 Hours				
Bus	iness Writing Skills - Significance of Business Correspondence, Essentials of	Effective Business				
Correspondence Business Letter - Structure and Forms, Oral Presentations - Stages involved in an						
	ctive presentation, selection of topic, content, aids, engaging the audience, 7					
Fee	lback, Mock Presentations - Meetings, Telephone Communication - Use of Technology	nology in Business				
	nmunication, E-mail Messages. Report writing - Process of writing, Types of	reports, graphical				
repr	esentation of data and interpretation.					
Uni		12 Hours				
Offi	ce communication - internal memos, office circulars. Secretarial Correspondence	e: Board meetings,				
lette	rs to shareholders and debenture holders, to Registrar of Companies. Notice, a	igenda, minutes of				
mee	tings. Personal Correspondence: Preparation of curriculum vitae, job application, a	appointment letters,				
inte	rview letters					
	Total Lecture hours	60 Hours				
		L				
Boo	ks for Study					
1	Rentz, K., Lentz, P., & Das, A. (2020). Business Communication: A Problem Solv	ving Approach (First				
2	edition). McGraw Hill.	D 1 1				
2	Meenakshi Raman and Professor Sangeeta Sharma.(2022,) Technical Communic Practice, Oxford University	ation Principles and				
3	Gupta, C. B. (2019). Essential Business Communication. Cengage Learning India P	vt. Ltd.				
Boo	ks for Reference					
1	R.C. Sharma & Krishna Mohan Business Correspondence and Report Writing.	Tata McGraw				
	Hill Publishing Company Limited.					
2	Bhardwaj, K. (2019). Fundamentals of Business Communication. Dreamtech Press.					
3	C.R. Reddy) Business Communication Dreamtech Press,2019.					
4	Urmila Rai & SM Rai (Business Communication (2022) Himalaya Publishing House	se, n.d.).				
5	Pustak, M. (n.d.). Art And Science Of Business Communication 4Th Edition.					
	PEARSON INDIA Books					

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

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

NPTEL http://nptel.iitm.ac.in

http://www.mindtools.com/page8.html

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

Course Designed By: Dr. M. Sumathy / E-Mail ID: sumathivenky2018@gmail.com

Course code	33C	JAVA PROGRAMMING	L	Т	P	C
Core		· ·	4	-	-	4
Pre-requisite		Fundamentals of Programming Languages	Sylla Ver	abus sion	20	

The main objectives of this course are to:

1. It facilitate the student to understand the basic concepts and element of HTML and the programming concepts of JAVA for developing JAVA based applications and applets through hands on training by applying the concepts of internet applications.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Applying the concepts of HTML tag for designing the web page.	К3
2	Develop the JAVA program using Math functions.	К3
3	Applying the concepts of operators and expressions for decision making, branching and looping.	К3
4	Create the classes, objects and methods.	K6
5	Build an Applet Programming and adopt Exceptions and Errors.	K6

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Unit:1 Introduction to HTML 10 Hours

HTML: History of HTML – Features – Advantages – Components of HTML document – Formatting text using HTML – Adding images using HTML.

Unit:2 Java Program Structure 11 Hours

Overview of Java Language – Simple Java Program – Use of math functions – Application with two classes – Java program structure – Java Tokens - Java Statements – Implementing a Java program – Java Virtual Machine – Command line arguments . Constants – Variables – Data types.

Unit:3 Operators 11 Hours

Operators and Expressions: Arithmetic Operators – Relational Operators – Logical Operators – Assignment Operators – Increment and Decrement Operators – Conditional Operators – Bitwise Operators – Special Operators – Arithmetic Expressions – Evaluation of Expressions – Precedence of Arithmetic Operators. Decision making and Branching: Decision Making with IF statement – IF, ELSE statement – SWITCH statement - The ?: Operator . Decision making and looping: The WHILE Statement – The DO statement – The FOR Statement.

Unit:4 Control Arrays 13 Hours

Classes ,Objects and Methods: Defining a Class – Adding Variables – Adding Methods - Creating Objects – Accessing Class Members – Constructors – Methods overloading – Static Members. Inheritance: Extending a Class - Visibility Control. Arrays, Strings and Vectors: One Dimensional Arrays – Two Dimensional Arrays – Strings – Vectors. Interfaces: Multiple inheritance – Multi Threaded Programming: Life Cycle of a Thread – Thread Exceptions – Thread Priority – Synchronization.

Uı	nit:5	Errors	13 Hours
M	anaging Er	rors and Exceptions: Types of Errors - Exceptions. Applet program	nming: Building
Aŗ	plet Code -	- Applet Life Cycle – Designing a Web Page – Applet Tag.	
	nit:6	Contemporary Issues	2 Hours
Ex	pert lecture	es, online seminars – webinars	
		Total Lecture Hours	60 Hours
Bo	oks for St	udy	
1	_	usamy, "Programming with Java", McGraw Hill Education (India)	Private Limited,
	New Delh	,	
2		childt, "Java 2 – The Complete reference", Tata McGraw Hill Pub	olishing Company
	Limited, N	Noida, UP, 1996	
Во	ooks for Re	ference	
1	S.S.Khano	lare, "Programming in Java", S.Chand& Sons Publisher, New Delhi,	2008
2	C.Xavier,	"World Wide Web Design with HTML", Tata McGraw Hill Publ	lishing Company,
	2000		
Re	elated Onli	ne Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://sv	vayam.gov.in/nd2_aic20_sp13/preview	
2	https://sv	vayam.gov.in/nd1_noc20_cs58/preview	
Co	ourse Desig	ned By: Dr.M.Dhanabhakyam / E-Mail ID: dhana_giri@rediffmail.c	om

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

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

Course code 331	STRATEGIC FINANCIAL MANAGEMENT	L	T	P	C
Core		4	-	-	4
Pre-requisite	Basic knowledge on fundamentals of Finance		abus sion	2	2022 - 23
Course Objectives					
J	of this course are to:				
	bjectives, role and skills of financial manager required fo	r Industry			
	s affecting investment decisions				
	oth view of financial leverage and theories ividend Theories				
	ues of working capital Management techniques				
Expected Course (
_	mpletion of the course, student will be able to:				
	ify the objectives and role of financial managers with diff	erent indus	etries	1 1	K1&K2
2 Apply, analyse technique.	and determine the best investment proposal using ca	pitai bud	geung	'	K3,K4 &K5
-	oital structure theories.				K2
	lyse the dividend theories applied in corporate.			+	K3&K4
		. 1 .	1 •		
	capital management techniques and solve the issues rel	ated to wo	orking		K6
capital.	- Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	V6 Cross	to		
KI Kemember, K.	Chacistana, RS Appry, R4 Amaryze, RS Evarance,	IXO CICA	iC		
Unit:1	Introduction to Financial Management				
Nature, Scop	e and objectives of Financial Management – Industry 4.0		ce - F	unct	ions of
Nature, Scor Finance Manager –	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account		ce - F	unct	ions of
Nature, Scop Finance Manager – Decisions - Relation	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account ship between Risk and Return –Time Value of Money.		ce - F	unct - Fi	ions of nancial
Nature, Scor Finance Manager – Decisions - Relation Unit:2	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account this between Risk and Return – Time Value of Money. Cost of Capital and Capital Budgeting	of Indust	ce - F ry 4.0	unct - Fin 10	ions of nancial Hours
Nature, Scop Finance Manager – Decisions - Relation Unit:2 Cost Of Cap	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account this between Risk and Return –Time Value of Money. Cost of Capital and Capital Budgeting tal – Meaning And Importance – Cost Of Debt, Preference	of Indust	ce - F ry 4.0	unct Final Final F	ions of nancial Hours led
Nature, Scor Finance Manager – Decisions - Relation Unit:2 Cost Of Cap Earnings – Weighte	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account this between Risk and Return – Time Value of Money. Cost of Capital and Capital Budgeting tal – Meaning And Importance – Cost Of Debt, Preference Average Cost Of Capital – Capital Budgeting – Technique	of Indust	ce - F ry 4.0	unct Final Final F	ions of nancial Hours led
Nature, Scor Finance Manager – Decisions - Relation Unit:2 Cost Of Cap Earnings – Weighte And Discounted Ca	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account ship between Risk and Return –Time Value of Money. Cost of Capital and Capital Budgeting tal – Meaning And Importance – Cost Of Debt, Preference Average Cost Of Capital – Capital Budgeting – Technique h Flow	of Indust	ce - F ry 4.0	unct - Fin 10 etain ack I	ions of nancial Hours ed Period
Nature, Scor Finance Manager – Decisions - Relation Unit:2 Cost Of Cap Earnings – Weighte And Discounted Ca Unit:3	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account this between Risk and Return –Time Value of Money. Cost of Capital and Capital Budgeting tal – Meaning And Importance – Cost Of Debt, Preference Average Cost Of Capital – Capital Budgeting – Technique h Flow Capital Structure	of Indust	ce - F ry 4.0 And R Payba	Tunct 10 etain ack I	ions of nancial Hours led Period Hours
Nature, Scor Finance Manager – Decisions - Relation Unit:2 Cost Of Cap Earnings – Weighte And Discounted Ca Unit:3	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account ship between Risk and Return –Time Value of Money. Cost of Capital and Capital Budgeting tal – Meaning And Importance – Cost Of Debt, Preference Average Cost Of Capital – Capital Budgeting – Technique h Flow Capital Structure verage – Measures – EBIT, EPS Analysis – Operation	e, Equity Aues – ROI,	ce - F ry 4.0 And R Payba	Tunct 10 etain ack I 12 Fina	Hours ed Period Hours ncial -
Nature, Scor Finance Manager – Decisions - Relation Unit:2 Cost Of Cap Earnings – Weighte And Discounted Ca Unit:3 Financial L Business and Opera	e and objectives of Financial Management – Industry 4.0 Role and changing roles of finance manager on account ship between Risk and Return –Time Value of Money. Cost of Capital and Capital Budgeting tal – Meaning And Importance – Cost Of Debt, Preference Average Cost Of Capital – Capital Budgeting – Technique h Flow Capital Structure verage – Measures – EBIT, EPS Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – Structure – Net Income Average – Measures – Structure – Net Income Average – Measures – EBIT, EPS Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS – Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS – Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS – Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS – Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS – Analysis – Operating Risks – Theories of Capital Structure – Net Income Average – Measures – EBIT, EPS – Analysis – Operating Risks – Theories – Average	e, Equity Aues – ROI,	ce - F ry 4.0 And R Payba	Tunct 10 etain ack I 12 Fina	Hours ed Period Hours ncial -
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Bo	ooks for Study								
1	I.M. Pandey, "Financial Management", Vikas Publication, New Delhi, 2015								
2	S.N Maheswari, "Financial Management", S.Chand & Sons Publisher, New Delhi, 2014								
Bo	Books for Reference								
1	Prasanna Chandra, "Financial Management", Tata McGraw Hill Publishing Company Limited, UP,								
	2007								
2	Khan & Jain, "Financial Management", Tata McGraw Hill Publishing Company Limited, UP,								
	2011								
Re	elated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1	https://www.youtube.com/watch?v=RiAalxSm_Ek								
2	https://www.youtube.com/watch?v=XxyvsB6sxDk								
Co	ourse Designed By: Dr.M.Anbukarasi / E-Mail ID: anbufeb14@yahoo.co.in								

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

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

Course code 33E Core	33E	L	Т	P	С			
Core		FINANCIAL DERIVATIVES	NCIAL DERIVATIVES 4					
Pre-requisite		Fundamental knowledge in Stock Market	Sylla Vers		202 23			

The main objectives of this course are to:

- 1. Introduce the concept and types of derivatives, as well as the operations of the derivatives market in India.
- 2. Learn about forward contract and future contract, its differences and types of future contract.
- 3. Students to get extensive understanding in dealing with derivative instruments in the derivative market by familiarizing them with options and options pricing models.
- 4. Lay emphasis on swaps and evaluation of swaps.
- 5. Gain Knowledge on hedging process.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Learn and remember the basics of derivative markets and how they work in India.	K1
2	Enhance the knowledge on forward contract and various future contracts, able to	K2 &K3
	differentiate forwards and futures.	
3	Understand various option strategies and create the option	K2 & K6
4	Get acquaintance on swaps and evaluation of swaps in derivate markets.	K1&K5
5	Understand the hedge management process, including how to create a hedging plan, as	K2,
	well as how to analyse and monitor your hedge position	K6&K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Unit:1 Introduction to Derivatives 8 Hours

Derivatives: Introduction – Meaning – History of derivatives market – Derivatives products in India - Market participants and their roles in the derivatives markets - Exchange-traded vs. OTC derivatives – Use of derivatives -Risk Involved in derivatives- Recent developments in Derivatives Market in India.

Unit:2 Forwards and Future Market 12 Hours

Forwards: Features of Forward contract - Limitations of forward markets - **Future Market** - Introduction to futures – Futures terminology - Key features of futures contracts - Distinction between futures and forwards contracts - Pay off for futures - Index Futures - Equity stock futures - Commodity Futures - Currency Futures – Interest Rate Futures - Physical settlement vs Cash settlement – Future Pricing.

Unit:3 Options and Option Pricing Model 10 Hours

Option: Introduction – Option Terminology – Type of Options - Call Option and Put Option – Option Style - American Option and European Option - Moneyness of Option Contract – Concept of Option Premium - Option Greeks – Option Payoff - Black-Scholes option pricing models – Option Strategies – Option Spread – Straddle – Strangle – Covered Call – Protective Put – Option contract in India – Index Option - Stock options - Commodities options - Currency Options – Interest Rate Option.

Unit:4 Swaps 14 Hours

Swaps: Meaning – Swap Terminology – Features of Swaps – Uses of Swaps – Types of Swaps – Interest Rate Swaps – Types of Interest Rate Swaps – Swaption - Currency Swaps – Commodity Swaps – Equity Swaps – Bond Swaps – Credit Default Swaps – International Swap Dealers Association (ISDA).

Unit:5	Hedging	14 Hours							
Hed	Iging: - Concepts - Perfect Hedging Model - Basic Long and Short Hed	lges – Cross							
Hedging —	- Hedging Objectives - Management of Hedge - Concept of Stock Index -	Stock Index							
Futures – Stock Index Futures as a Portfolio management Tool – Speculation and Stock Index Futures									
 Stock Index Futures Trading in Indian Stock Market. 									
Unit:6	Contemporary Issues	2 Hours							
Expe	rt lectures, online assignment – webinars								
	Total Lecture Hours	60 Hours							
Note: Ques	tion paper shall cover 100% theory.								
Books for S	Study								
1 Raiya	ani ,Jagadish., "Financial Derivatives in India", Chennai, New Century Publication, 201	11.							
2 Gupt	a S.L, "Financial Derivatives: Theory, Concepts and Problems Hardcover", 20	17							
Books for 1	Reference								
1 NISN	(2019), NISM Series VIIIA Equity Derivative Module, Delhi: Taxman								
2 NCF	M – Derivatives Market – Dealers Module, by NSE Academy, Mumbai								
Related Or	nline Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1 http	os://nptel.ac.in/courses/110/105/110105035								
2 http	os://nptel.ac.in/courses/110/105/110105036								
Course Des	igned By: S. Arun Kumar / E-Mail ID: s_arunkumar@yahoo.com								

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

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

Course code	3EA	Basic knowledge on Software Engineering Technology	L	T	P	C
Elective		-	4	-	-	4
Pre-requisite		Basic knowledge on Software Engineering Technology	Syllal Versi		202	

The main objectives of the program are to

- 1. Know the different types of process model for the software development.
- 2. Provide the knowledge to the students about the metrics for software quality measurement and analyse the cost estimation problem
- 3. Help the students to develop the configuration management through the SCM process model.
- 4. Get the knowledge about the software analysis principles for project development.
- 5. Provide knowledge about creating test cases using white and black box and other software testing techniques.

Expected Course Outcomes:

On the successful completion of the course, students will be able to:

011	the successful completion of the course, students will be used to:	
1	Explain and choose a software process model for the software project development.	K2 & K3
2	Interpret about metrics for software quality measurement and analyse the cost estimate and problem complexity using various estimation techniques.	K2 & K4
3	Develop the knowledge about the technical reviews and configuration management of the software process quality.	К3
4	Apply project management and define requirement analysis and principles of software project development.	K1 & K3
5	Identify the test cases using techniques involved in choosing white box and black box testing and improve the software process model	K1 & K6

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Unit:1 Introduction To Software Engineering

Product: Evolving Role of Software – Software Characteristics – Software Applications – Software Crisis - Software Myths. The Process: Software Engineering: A Layered Technology – Software Process – Software Process Models.

10 Hours

Unit:2 Software Quality Metrics 10 Hours

Project Management Concepts: The Management Spectrum – People – Product – Process – Project – W⁵HH principle. Software Process and Project Metrics: Software Measurement – Metrics for Software Quality – Integrating Metrics. Software Project Planning: Objectives - Scope – Resources – Decomposition Techniques – Make / Buy Decision.

Unit:3 Software Quality Assurance 12 Hours

Software Quality Assurance: Quality Concepts – SQA – Formal Technical Reviews – Software Reliability – SQA Plan - Software Configuration Management: SCM Process – Change Control – Version Control.

Unit:4 Software Requirement Analysis and Models 14 Hours

Analysis, Concepts and Principles: Requirements Analysis – Analysis Principles – Software Prototyping – Specification. Analysis Modeling: Data Modeling – Functional Modeling – Behavioral Modeling.

Ur	Unit:5 Software Testing 12 Hours										
		Testing Techniques: Testing Fundamentals – White Box T									
		re Testing Strategies: Unit Testing – Integration Testing – V	Validation Testing –								
Sy	stem Testing.										
Ur	nit:6	Contemporary Issues	2 Hours								
Or	nline Assignme	ents-Online Seminar- Quiz									
		Total Lecture Hours	60 Hours								
Bo	oks for Study	Y									
1	Roger S. Pre	essman, "Software Engineering", Tata McGraw Hill Publishin	g Company Limited,								
	Noida, UP., 2	2001									
2	Carlo Ghezz	ti, Mehdi Jazayeri, Dino Mandrioli, "Fundamentals of So	ftware Engineering",								
	Prentice Hall	Pvt Ltd, New Delhi, 2003									
Bo	oks for Refer	rence									
1	Richard Fair	ley, "Software Engineering Concepts", Tata McGraw Hill	Publishing Company								
	Limited, Noi	da, UP, 2004									
2	Ian Sommerv	ville, "Software Engineering", Pearson Education, New York,	2016								
Re	elated Online	Contents [MOOC, SWAYAM, NPTEL, Websites etc.]									
1	https://www	v.youtube.com/watch?v=BXU7HW_ljDw									
2	https://www	v.youtube.com/watch?v=Y_A0E1ToC_I									
3	https://www	v.youtube.com/watch?v=6rNgPXz9A9s									
Co	ourse Designed	By: Dr.M.Anbukarasi / E-Mail ID: anbufeb14@yahoo.co.in									

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

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

Course code 3EB Elective		INTERNATIONAL FINANCIAL MANAGEMEN	$_{\Gamma}$ L	T	P	C		
			4	-	-	4		
Pre-requisite		Knowledge in Foreign Exchange Market	•	Syllabus 2022 - Version 23				
Course Object	ives:		•					
 study the M Know about Familiarize 	nternational Markets for ut Internation e in Interna	s course are to: I flow of Funds, Balance of payments and International Noreign Exchange, Spot and Forward market and exchange on al Investment decision and Foreign Direct Investment tional Financial decisions and international financial markets the International Financial Markets and Instruments	nge rate	Syste	m			
Expected Cour	rsa Outcon	106*						
		tion of the course, student will be able to:						
	•	rs responsible for emergence of globalized financial mar	kets	K1 & K2				
		, nature and scope of international financial management		K2				
		K2 & K3						
4 Gain Kn						K4 & K5		
5 Describe						K2 & K6		
		K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalua	ate; K6 -	Creat	e			
Unit:1		International Financial Environment				ours		
		nagement – An overview – Importance – Nature and Scoments – International Monetary System.	pe – Into	ernatio	nal	flow		
Unit:2		Foreign Exchange Market		1	0 H	ours		
 Exchange Ra 	ate Mechan kchange Ra	gn Exchange – Foreign Exchange Market – Feature – Sp ism – Exchange Rate determination in the Spot and Forv te – FEMA - Market for currency futures and currency of	ward Ma	rkets -	- Fa	ctors		
Unit:3		International Investment Decision		12	2 H	ours		
	Portfolio In	Decision – Foreign Direct Investment– International vestment – Meaning – Benefit of International Portfoliont.	-		_	_		
Unit:4		International Financial Decisions		1	4 H	ours		
Interna for Internation	al flow of	ncial Decisions – Overview of the International Finance Funds – Role and Functions of Multilateral Development redit Creation – Control of International Banks.		cet – (Char	nels		
Unit:5	Unit:5 International Financial Markets and Instruments					12 Hours		
		ancial Market Instruments – Short-term and Medium funds – Management of Receivables and Inventory – F						

Ur	nit:6	Contemporary Issues	2 Hours					
Ex	Expert Lectures - Case Study							
		Total Lecture Hours	60 Hours					
No	Note: Question paper shall cover 100% theory.							
Bo	oks for St	U						
1	1 V. Sharan, "International Financial Management", Prentice Hall Pvt Ltd, New Delhi, 2018							
2	2 A.K. Seth, "International Financial Management", Galgotia Publishing Company, New Delhi, 2018							
Bo	oks for Re	ference						
1	P.G. Apte, "International Financial Management", Tata McGraw Hill Publishing Company Limited, Noida, UP, 2018.							
2	2 R.L. Varshney and S. Bhashyam, "International Financial Management", S.Chand & Sons Publisher, New Delhi, 2016.							
Re	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]							
1	Giddy.or	<u> </u>						
2	www.im	f.org						
3	https://www.youtube.com/watch?v=CSe0b4rwnT4&list=PLuVjcgQvMXfQqFC-							
	R_F8OatAK9IAKqH1L							
Co	Course Designed By:Dr.M.Sivaprakasam / E-Mail ID: sivaprakash51990@gmail.com							

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

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