B.Com. Computer Applications (2023-26)

B.COM COMPUTER APPLICATIONS

DEGREE PROGRAMME

2023-2026



Department of Commerce

Bishop Heber College (Autonomous)

Tiruchirappalli - 620 01

Department of Commerce, Bishop Heber College, Tiruchirappalli

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B.COM., COMPUTER APPLICATION

PROGRAMME OBJECTIVE:

The B.Com. Degree Programme provides ample exposure to courses from the fields of Commerce, Accountancy and Management. The course equips the students for entry level jobs in industry, promotes the growth of their professional career, entrepreneurship and a key contributor to the economic development of the country.

B.Com., Computer Applications is a 3-year undergraduate course. It is designed to have an understanding in the field of commerce, especially in the discipline that involves the use of software technology application. Under this program, the students would be taught the basics of Commerce like accountancy, law, banking and taxation along with the basics of computer language, computer applications in business, etc.

A student who has completed a BCom Computer Applications has career opportunities in both the Public and Private sectors where they can work as Business Consultants, Auditors, Business Analysts, App Developers, Computer Programmers.

TANSCHE REGULATIONS ON LEARNING OUTCOMES-BASED CURRICULUM							
FRAMEWORK	FRAMEWORK GUIDELINES BASED REGULATIONS FOR UNDER GRADUATE						
PROGRAMME							
Programme:	B.COM., COMPUTER APPLICATION						
_							
Programme							
Code:							
Duration:	UG - 3 years						
Programme	PO1: Disciplinary knowledge: Capable of demonstrating						
Outcomes:	comprehensive knowledge and understanding of one or more						
	disciplines that form a part of an undergraduate Programme of study						
	PO2: Communication Skills: Ability to express thoughts and ideas						
	effectively in writing and orally; Communicate with others using						
	appropriate media; confidently share one's views and express						
	analytically, and procent complex information in a clear and apprice						
	manner to different groups						
	PO3: Critical thinking: Capability to apply analytic thought to a body						
	of knowledge; analyse and evaluate evidence, arguments, claims,						
	beliefs on the basis of empirical evidence; identify relevant assumptions						
	or implications; formulate coherent arguments; critically evaluate						
	practices, policies and theories by following scientific approach to						
	knowledge development.						
	PU4: Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of pop-						
	familiar problems, rather than replicate curriculum content knowledge:						
	and apply one's learning to real life situations.						
	PO5: Analytical reasoning: Ability to evaluate the reliability and						
	relevance of evidence; identify logical flaws and holes in the arguments						
	of others; analyze and synthesize data from a variety of sources; draw						

valid conclusions and support from WampulserApplingtionan()8623-260
addressing opposing viewpoints.
PO6: Research-related skills: A sense of inquiry and capability for
asking relevant/appropriate questions, problem ansing, synthesising
define problems formulate hypotheses test hypotheses analyse
interpret and draw conclusions from data establish hypotheses, analyse,
cause-and-effect relationships: ability to plan, execute and report the
results of an experiment or investigation
PO7: Cooperation/Team work: Ability to work effectively and
respectfully with diverse teams facilitate cooperative or coordinated
effort on the part of a group, and act together as a group or a team in
the interests of a common cause and work efficiently as a member of a
team
PO8: Scientific reasoning: Ability to analyse, interpret and draw
conclusions from quantitative/qualitative data; and critically evaluate
ideas, evidence and experiences from an open-minded and reasoned
perspective.
PO9: Reflective thinking: Critical sensibility to lived experiences, with
self awareness and reflexivity of both self and society.
PO10 Information/digital literacy: Capability to use ICT in a variety
of learning situations, demonstrate ability to access, evaluate, and use
a variety of relevant information sources; and use appropriate software
for analysis of data.
PO 11 Self-directed learning : Ability to work independently, identify
appropriate resources required for a project, and manage a project
through to completion.
PO 12 Multicultural competence: Possess knowledge of the values
and beliefs of multiple cultures and a global perspective, and capability
with diverse groups
PO 13: Moral and ethical awareness/reasoning: Ability to embrace
moral/ethical values in conducting one's life formulate a
position/argument about an ethical issue from multiple perspectives
and use ethical practices in all work. Capable of demonstrating the
ability to identify ethical issues related to one"s work, avoid unethical
behaviour such as fabrication, falsification or misrepresentation of data
or committing plagiarism, not adhering to intellectual property rights;
appreciating environmental and sustainability issues; and adopting
objective, unbiased and truthful actions in all aspects of work.
PO 14: Leadership readiness/qualities: Capability for mapping out
the tasks of a team or an organization, and setting direction,
formulating an inspiring vision, building a team who can help achieve
the vision, motivating and inspiring team members to engage with that
vision, and using management skills to guide people to the right
destination, in a smooth and efficient way.
PO 15: Lifelong learning: Ability to acquire knowledge and skills,
including "learning how to learn", that are necessary for participating in
learning activities throughout life, through self-paced and self-directed
learning aimed at personal development, meeting economic, social
and cultural objectives, and adapting to changing trades and demands
of work place through knowledge/skill development/reskilling.

Programme	PSO1 – Placement: B.Com. Computer Applications (2023-26)				
Specific	To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply diverse frames of				
Outcomes:	reference to decisions and actions.				
	PSO 2 - Entrepreneur:				
	To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations				
	PSO3 – Research and Development:				
	Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.				
	PSO4 – Contribution to Business World:				
	To produce employable, ethical and innovative professionals to sustain in the dynamic business world.				
	PSO 5 – Contribution to the Society:				
	To contribute to the development of the society by collaborating with stakeholders for mutual benefit				

Sem I	Credit	Η	Sem II	Credit	Н	Sem III	Credit	Н	Sem IV	Credit	Н	Sem V	Credit	Η	Sem VI	Credit	Н
Part 1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	5.1 Core Course – \CC IX	4	5	6.1 Core Course – CC XIII	4	6
Part.2 English	3	6	Part2 English	3	6	Part2 English	3	6	Part2 English	3	6	5.2 Core Course – CC X	4	5	6.2 Core Course – CC XIV	4	6
1.3 Core Course – CC I	5	5	23 Core Course – CC III	5	5	3.3 Core Course – CC V	5	5	4.3 Core Course – CC VII Core Industry Module	5	5	5. 3.Core Course CC -XI	4	5	6.3 Core Course – CC XV	4	6
1.4 Core Course – CC II	5	5	2.4 Core Course – CC IV	5	5	3.4 Core Course – CC VI	5	5	4.4 Core Course – CC VIII	5	5	5. 4.Core Course –/ Project with viva- voce CC -XII	4	5	6.4 Elective -VII Generic/ Discipline Specific	3	5
1.5 Elective I Generic/ Discipline Specific	3	4	2.5 Elective II Generic/ Discipline Specific	3	4	3.5 Elective III Generic/ Discipline Specific	3	4	4.5 Elective IV Generic/ Discipline Specific	3	3	5.5 Elective V Generic/ Discipline Specific	3	4	6.5 Elective VIII Generic/ Discipline Specific	3	5
1.6 Skill Enhancement Course SEC-1	2	2	2.6 Skill Enhancement Course SEC-2	2	2	3.6 Skill Enhancement Course SEC-4, (Entrepreneurial Skill)	1	1	4.6 Skill Enhancement Course SEC-6	2	2	5.6 Elective VI Generic/ Discipline Specific	3	4	6.6 Extension Activity	1	-
1.7 Skill Enhancement -(Foundation Course)	2	2	2.7 Skill Enhancement Course – SEC-3	2	2	3.7 Skill Enhancement Course SEC-5	2	2	4.7 Skill Enhancement Course SEC- 7	2	2	5.7 Value Education	2	2	6.7 Professional Competency Skill	2	2
						3.8 E.V.S.	-	1	4.8 E.V.S	2	1	5.8 Summer Internship /Industrial Training	2				
	23	30		23	30		22	30		25	30	-	26	30		21	30
	Total – 140 Credits																

Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline Based Credit and Hours Distribution System for all UG courses including Lab Hours

Part	List of Courses	Credit	No. of
			Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
	Skill Enhancement Course SEC-1	2	2
Part-4	Foundation Course	2	2
		23	30

First Year – Semester-I

Semester-II

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part_2	Fnolish	3	6
Part_3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part_A	Skill Enhancement Course -SEC-2	2	2
1 411-4	Skill Enhancement Course SEC 3 (Discipline / Subject Specific)	$\frac{2}{2}$	2
	Skin Ennancement Course -SEC-5 (Discipline / Subject Specific)	2	<u> </u>

Second Year – Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	-	1
		22	30

Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	13
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
		25	30

Third Year Semester-V

Part	List of Courses	Credit	No. of
			Hours

Part-3	Core Courses including Project / Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
		26	30

Semester-VI

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based & LAB	18	28
Part-4	Extension Activity	1	-
	Professional Competency Skill	2	2
		21	30

Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total
							Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	1	22
Part V	-	-	-	-	-	2	2
Total	23	23	22	25	26	21	140

*Part I. II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree.

METHODS OF EVALUATION							
Internal Evaluation	Continuous Internal Assessment Test						
	Assignments / Snap Test / Quiz						
	Seminars	25 Marks					
	Attendance and Class Participation						
External Evaluation	End Semester Examination	75 Marks					
	Total 100 Marks						
METHODS OF ASSESSMENT							
Remembering (K1)	• The lowest level of questions require stude	ents to recall					

	information from thecourse content
	• Knowledge questions usually require students to identify information in the textbook.
Understanding (K2)	• Understanding of facts and ideas by comprehending
	organizing, comparing, translating, interpolating and
	interpreting in their own words.
	• The questions go beyond simple recall and require
	students to combine datatogether
Application (K3)	• Students have to solve problems by using / applying
	a concept learned in the classroom.
	• Students must use their knowledge to determine a exact
	response.
Analyze (K4)	• Analyzing the question is one that asks the students
	to break down something into its component parts.
	• Analyzing requires students to identify reasons
	causes or motives and reach conclusions or
	generalizations.
Evaluate (K5)	• Evaluation requires an individual to make judgment on
	something.
	• Questions to be asked to judge the value of an idea, a
	character, a work of art, or a solution to a problem.
	• Students are engaged in decision-making and problem
	– solving.
	• Evaluation questions do not have single right answers.
Create (K6)	• The questions of this category challenge students to get
	engaged in creative andoriginal thinking.
	• Developing original ideas and problem solving skills

Highlights of the Revamped Curriculum:

- Student-centric, meeting the demands of industry & society, incorporating industrial components, hands-on training, skill enhancement modules, industrial project, project with viva-voce, exposure to entrepreneurial skills, training for competitive examinations, sustaining the quality of the core components and incorporating application oriented content wherever required.
- The Core subjects include latest developments in the education and scientific front, advanced programming packages allied with the discipline topics, practical training, devising statistical models and algorithms for providing solutions to industry / real life situations. The curriculum also facilitates peer learning with advanced statistical topics in the final semester, catering to the needs of stakeholders with research aptitude.
- The General Studies and Statistics based problem solving skills are included as mandatory components in the 'Training for Competitive Examinations' course at the final semester, a first of its kind.
- The curriculum is designed so as to strengthen the Industry-Academia interface and provide more job opportunities for the students.
- The Statistical Quality Control course is included to expose the students to real life problems and train the students on designing a mathematical model to provide solutions to the industrial problems.
- The Internship during the second year vacation will help the students gain valuable work experience, that connects classroom knowledge to real world experience and to narrow down and focus on the career path.
- Project with viva-voce component in the fifth semester enables the student, application of conceptual knowledge to practical situations. The state of art technologies in conducting a Explain in a scientific and systematic way and arriving at a precise solution is ensured. Such innovative provisions of the industrial training, project and internships will give students an edge over the counterparts in the job market.
- State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature are incorporated as Elective courses, covering conventional topics to the latest DBMS and Computer software for Analytics.

Semester	Newly introduced	Outcome / Benefits
	Components	
I	Foundation Course To ease the transition of learning from higher secondary to higher education, providing an overview of the pedagogy of learning abstract Statistics and simulating mathematical concepts to real world.	 Instil confidence among students Create interest for the subject
	Skill Enhancement papers (Discipline centric / Generic / Entrepreneurial)	 Industry ready graduates Skilled human resource Students are equipped with essential skills to make them employable Training on Computing / Computational skills enable the students gain knowledge and exposure on latest computational aspects Data analytical skills will enable students gain internships, apprenticeships, field work involving data collection, compilation, analysis etc. Entrepreneurial skill training will provide an opportunity for independent livelihood Generates self – employment Create small scale entrepreneurs Training to girls leads to women empowerment Discipline centric skill will improve the Technical knowhow of solving real life problems using ICT
III, IV, V & VI	Elective papers- An open choice of topics categorized under Generic and Discipline Centric	 tools Strengthening the domain knowledge Introducing the stakeholders to the State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature Students are exposed to Latest topics on Computer Science / IT, that require strong statistical background Emerging topics in higher education / industry / communication network / health sector etc. are introduced with hands-on-training, facilitates designing of statistical models in the respective sectors
IV	DBMS and Programming skill, Biostatistics, Statistical Quality Control, Official Statistics, Operations Research	 Exposure to industry moulds students into solution providers Generates Industry ready graduates Employment opportunities enhanced

Value additions in the Revamped Curriculum:

II year Vacation activity	Internship / Industrial Training	•	Practical training at the Industry/ Banking Sector / Private/ Public sector organizations / Educational institutions, enable the students gain professional experience and also become responsible citizens.
V Semester	Project with Viva – voce	• •	Self-learning is enhanced Application of the concept to real situation is conceived resulting in tangible outcome
VI Semester	Introduction of Professional Competency component	•	Curriculum design accommodates all category of learners; 'Statistics for Advanced Explain' component will comprise of advanced topics in Statistics and allied fields, for those in the peer group / aspiring researchers; 'Training for Competitive Examinations' –caters to the needs of the aspirants towards most sought - after services of the nation viz, UPSC, ISS, CDS, NDA, Banking Services, CAT, TNPSC group services, etc.
Extra Credits: For Advanced Learners / Honors degree		•	To cater to the needs of peer learners / research aspirants

Skills acquired from the	Knowledge,	Problem	Solving,	Analytical	ability,	Professional
Courses	Competency,	Profession	nal Commu	unication and	d Transfe	errable Skill

	B.COM COMPUTER APPLICATIONS 2023-24									
Part	Course Code	Title of the Course	Credits	Hour s	Μ	arks				
	CIA	ESE	Total							
		FIRST SEMESTER								
Part I	U23TM1L1	Language – Tamil	3	6	25	75	100			
Part II	U23EG1L1	Prose and Short Stories	3	6	25	75	100			
Part III	U23CC101	Core Paper I – Financial Accounting I	5	5	25	75	100			
Part III	U23CC102	Core Paper II - Principles of Management	5	5	25	75	100			
	U23CCP:A	Elective I - Programming in C								
Part III		and Lab			40	60	100			
	U23CCP:B	Elective I - Python Programming and Lab	3	4	40	00	100			
Part IV	U23CC1E1 SEC I	Personal Finance	Finance 2 2				100			
	U23CC1N1 FC	General Commercial Knowledge	2	2	25	75	100			
		23	3 0							
	S	SECOND SEMESTER								
Part I	U23TM2L2	Language II	3	6	25	75	100			
Part II	U23EG2L2	Poetry and Shakespeare	3	6	25	75	100			
Part III	U23CC203	Core III – Financial Accounting II	5	5	25	75	100			
Part III	U23CC204	Core IV-Business Law	5	5	25	75	100			
	U23CCP:C	Elective II - Programming in C++ and Lab								
Part III	U23CCP:D	U23CCP:D Elective II - Office Automation and Lab		4	40	60	100			
Dart IV	U23CCPE2	Accounting with Tally - SEC-II	2	2	4 0	6 0	1 0 0			
1 411 1 V	U23CCPS3	Internet and Web Designing – SEC 3			4 0	6 0	1 0 0			
		TOTAL	23	3 0						

		THIRD SEMESTER		-				
Part I	U23TM3L3	Language – III	3	6	25	75	100	
Part II	U23EG3L3	One Act Plays and Abridged Novel	25	75	100			
Part III	U23CC305	Core Paper V- Corporate Accounting I	5	5	25	75	100	
Part III	U23CC306	Core Paper VI – Business Mathematics and Statistics	5	5	25	75	100	
Part IV	U23CCP:E U23CCP:F	Elective III – Programming in JAVA and Lab Elective III – Web Technology(PHP) and Lab	Elective III – Programming in JAVA and Lab34Elective III – Web Technology(PHP) and Lab3					
	U23CC3S4	Entrepreneurship Skill Development (SEC – 4)	1	1	1 0 0	-	1 0 0	
Part IV	U23CCPS5	2	2	4 0	6 0	1 0 0		
	U23EST31	Environmental Studies (EVS-I)						
		TOTAL	23	3 0				
	F	FOURTH SEMESTER						
Part I	U23TM4L4	Language – IV	3	6	25	75	100	
Part II	U23EG4L4	English IV (Language through Literature	3	6	25	75	100	
Part III	U23CC407	Core Paper VII–Corporate Accounting II	5	5	25	75	100	
Part III	U23CC408	Core Paper VIII-Company Law	5	5	25	75	100	
Part III	U23CCP:G U23CCP:H	Elective IV– Relational Database Management System Elective IV– Introduction to Data Science	Jaw Elective IV- Relational Database Management System 3 Elective IV- Introduction to 3 Data Science 3				100	
	U23CC4S6	Life Skills (SEC – 6)	2	2	1 0 0	-	1 0 0	
Part IV	U23CC4S7	Marketing to SHGs (SEC 7)	2	2	1 0 0	-	1 0 0	
	U23EST42	Environmental Studies (EVS- II)	2	1	25	75	100	

		TOTAL	25	3					
				U					
		FIFTH SEMESTER		1			100		
Part III	U23CC509	Core Paper IX – Cost Accounting I	75	100					
Part III	U23CC510	Core Paper X - Banking Law and Practice	ore Paper X - Banking Law 4 5 25 75 d Practice						
Part III	U23CC511	Core Paper XI – Income Tax Law and Practice I	4	5	4 0	60	1 0 0		
Part III	U23CC512	Core Paper XII Auditing and Corporate Governance	4	5	25	75	100		
Part III	U23CC5:A U23CC5:B	(Elective V) Financial Management (Elective V)Indirect Taxation	3	4	25	75	100		
	U23CCP:K U23CCP:L	Elective (VI) Software Engineering+(UML Lab)/4/4 (Elective VI) Object oriented Analysis and Design+(UML Lab)	3	4	40	60	100		
Part IV	U23VLO51	Abundant Life	2	2	4 0	6 0	1 0		
	U23VLO52	Human Values	2	2			0		
	U23CC5I1	Summer Internship / Industrial Training	2	-	1 0 0		1 0 0		
		TOTAL	26	3 0	1 0 0		1 0 0		
		SIXTH SEMESTER							
Part III	U23CC613	Core Paper XIII –Cost Accounting - II	4	6	25	75	100		
Part III	U23CC614	Core Paper XIV-Management Accounting	4	6	25	75	100		
Part III	U23CC615	Core Paper XV- Income Tax Law and Practice II	4	6	25	75	100		
Part III	U23CC6:A U23CC6:B	(Elective VI) Human Resource Management (Elective VI) Entrepreneurial Development	3	5	25	75	100		

	U23CCP:M U23CCP:N	(Elective VII) Tally (Practical) (Elective VII) R Language	3	5	40	60	100
	U23CC6G1	General awareness for Competitive Examination (PCS)	2	2	1 0 0	-	1 0 0
Part V	U23ETA61	Extension Activity	1	-			
		TOTAL	21	3 0			
		GRAND TOTAL	140	1 8 0			

				F	IRST	YEAR- SE	MESTER ·	-I							
CORE -	- I			F	INAN	CIAL ACCO	DUNTING	-I							
Subjec	et						Inst		Mark	KS					
Code: U23CC1	: 101	L	Т	Р	S	Credits	Hours	CIA	Exte	rnal	Total				
		5				5	5	25	75	5	100				
					Le	arning Obj	ectives								
LO1	To	und	lerstan	d the b	asic ac	counting cor	cepts and s	standards.							
LO2	То	kno	w the	basis fo	or calcu	ulating busin	ess profits.								
LO3	To	fam	iliariz	e with	the acc	ounting trea	tment of de	preciation.							
LO4	То	lear	n the r	nethod	s of ca	lculating pro	fit for sing	le entry sys	tem.						
LO5	То	gaiı	n know	ledge	on the	accounting t	reatment of	finsurance	claims	•					
Prerequ	isites	s: S	hould	have s	tudied	Accountan	cy in XII S	Std							
Unit						Contents				No. Hor	of				
	Fm	nda	menta	ls of F	inanci	al Accounti	1 0			1100	115				
	Fin	anc	ial Ac	counti	1g – N	Meaning, De	finition, C	bjectives.	Basic						
т	Acc	cour	nting	Conce	pts a	nd Conven	tions - J	ournal, L	edger		15				
1	Acc	cou	nts– Si	ubsidia	ry Boo	oks — Trial	Balance -	Classificati	on of		15				
	Erre	ors	- Rect	ificatio	n of E	rrors – Prepa	ration of S	uspense Ac	count						
	- B	ank	Reco	nciliati	on Stat	ement - Nee	ed and Prep	aration							
	Fin	al A	Accoui	nts	а 1 т			1 1 D							
II	Fina	al A	Accour	its of	Sole 1	rading Con	cern- Capit	tal and Rev	venue		15				
	Exp	bend	liture a	and Red	ceipts -	- Preparation	of Trading	g, Profit and	Loss						
		oro	n anu	Dalalic and F		Evenande	tinents.								
	Der	orec	iation	- Mea	ning –	Objectives	– Accounti	ing Treatme	ents -						
		bes	- Strai	ight Li	ne Me	thod – Dim	inishing Ba	alance meth	nod –						
TTT	Cor	ivei	rsion n	nethod.			U				15				
111	Uni	its c	of Prod	uction	Metho	d – Cost Mo	del vs Reva	aluation			15				
	Bill	ls of	f Exch	ange –	Defini	ition – Speci	mens – Dis	counting of	Bills						
	– I	End	orseme	ent of	Bill -	- Collectior	ı – Noting	g – Renev	val –						
	Ret	irer	nent of	f Bill u	nder re	bate									
	Acc	cou	nting i	rom li	ncomp	lete Record	s – Single I	Entry Syste	em						
	Dif	01111 foro	nce be	tween	Incom	anng anu plata Record	s and Doub	- Liiiiiaiia	nis -						
IV	- M	leth	ods of	Calcul	ation o	f Profit - Sta	tement of A	Affairs Met	hod –		15				
	Pre	para	ation o	f final	statem	ents by Conv	version met	hod.	liou	_					
	-	L				5									
	Roy	yalt	y and	Insura	nce C	laims									
	Me	aniı	ng – M	inimur	n Rent	– Short Wor	king – Reco	oupment of	Short						
V	Wo	rkiı	ng – Le	essor a	nd Less	see – Sublea	se – Accou	nting Treat	ment.		15				
	Ins	ura	nce C	laims -	-Calcu	lation of Cla	im Amoun	t-Average c	lause						
	(L0	ss c	of Stoc	k only)	<u> </u>	тат									
			0 ==	0.51 -							75				
THEOR	Y 20	J%	& PR	OBLE	M 80%	/0									
СО						Course	Outcomes								
CO1	Rer stat	nen eme	nber th ents	e conc	ept of 1	rectification	of errors an	nd Bank rec	oncilia	tion					

r							
CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns						
CO3	Analyse the various methods of providing depreciation						
CO4	Evaluate the methods of calculation of profit						
CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.						
	Textbooks						
1.	S. P. Jain and K. L. Narang Financial Accounting- I, Kalyani Publishers, New Delhi.						
2.	S.N. Maheshwari, Financial Accounting, Vikas Publications, Noida.						
3.	Shukla Grewal and Gupta, "Advanced Accounts", volume 1, S.Chand and Sons, New Delhi.						
4.	Radhaswamy and R.L. Gupta: Advanced Accounting, Sultan Chand, New Delhi.						
5.	R.L. Gupta and V.K. Gupta, "Financial Accounting", Sultan Chand, New Delhi.						
	Reference Books						
1.	Dr. Arulanandan and Raman: Advanced Accountancy, Himalaya Publications, Mumbai.						
2.	Tulsian, Advanced Accounting, Tata McGraw Hills, Noida.						
3.	Charumathi and Vinayagam, Financial Accounting, S.Chand and Sons, New Delhi.						
4.	Goyal and Tiwari, Financial Accounting, Taxmann Publications, New Delhi.						
5.	Robert N Anthony, David Hawkins, Kenneth A. Merchant, Accounting: Text and Cases. McGraw-Hill Education, Noida.						
NOTE:	Latest Edition of Textbooks May be Used						
	Web Resources						
1.	https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1						
2.	https://www.slideshare.net/ramusakha/basics-of-financial-accounting						
3.	https://www.accountingtools.com/articles/what-is-a-single-entry-system.html						

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	3	2	2	3	2	2
CO2	3	2	3	3	3	2	2	2	3	2	2
CO3	3	2	3	3	3	2	2	2	3	2	2
CO4	3	2	3	3	2	2	2	2	3	2	2
CO5	3	2	3	3	3	2	2	2	3	2	2
TOTAL	15	10	15	15	13	11	10	10	15	10	10
AVERAGE	3	2	3	3	2.6	2.2	2	2	3	2	2

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

3 – Strong, 2- Medium, 1- Low

	FIRST YEAR SEMESTER -I									
CORE -	-II		PRIN	ICIPL	ES OF MA	NAGEME	NT			
Subjec	et .	т	D	c	Credits	Inst.		Mar	ks	
Code			ſ	3	Creatts	Hours	CIA	Exte	rnal	Total
U23CC1	l 02	5			5	5	25	7	5	100
Learning Objectives										
LO1	To u	indersta	and the ba	asic ma	anagement co	oncepts and	l functions			
LO2	To k	now th	e various	s techn	iques of plan	ning and d	ecision mak	king		
LO3	To fa	amiliar	ize with	the cor	cepts of orga	anisation st	ructure			
LO4	To g	gain kno	wledge a	about t	he various co	omponents	of staffing			
LO5	To e	enable t	he studer	nts in u	nderstanding	g the contro	l technique	s of n	nanage	ment
Prerequ	isites	: Shoul	ld have s	tudied	Commerce	in XII Sto	1			
Unit					Contents				No.	of
									Hou	rs
Ι	Introduction to ManagementMeaning- Definitions – Nature and Scope - Levels of Management– Importance - Management Vs. Administration – Management:Science or Art –Evolution of Management Thoughts – F. W.Taylor, Henry Fayol,Peter F. Drucker, Elton Mayo - Functions of Management - Trendsand Challenges of Management. Managers – Qualification –Duties & Barransibilities									
II	Planning Planning – Meaning – Definitions – Nature – Scope and Functions – Importance and Elements of Planning – Types – Planning Process - Tools and Techniques of Planning – Management by Objective (MBO). Decision Making: Meaning – Characteristics – Tumes – Stans in Decision Making – Forecasting									
III	OrganizingMeaning - Definitions - Nature and Scope - Characteristics -Importance - Types - Formal and Informal Organization -Organization Chart - Organization Structure: Meaning and Types- Departmentalization- Authority and Responsibility -Centralization and Decentralization - Span of Management.								15	
IV	Staf Intro – So Seleo Pron Mea Wor	fing oduction ources ction P notion ning a k from	n - Conce of Recr rocedure –Manag nd Meth Home -	ept of S uitmen – Tes ement ods – Manag	taffing- Staf t – Modern t- Interview- Games – 360 degree ing Work fro	fing Proces Recruitm Training: Performan Performan om Home [ss – Recruit nent Metho Need - Ty ce Apprais nce Apprais WFH].	ment ods - pes— sal - sal –		15

	Directing						
V	Motivation –Meaning - Theories – Communication – Types - Barriers to Communications – Measures to Overcome the Barriers. Leadership – Nature - Types and Theories of Leadership – Styles of Leadership - Qualities of a Good Leader – Successful Women Leaders – Challenges faced by women in workforce - Supervision. Co-ordination and Control Co-ordination – Meaning - Techniques of Co-ordination. Control - Characteristics - Importance – Stages in the Control Process - Requisites of Effective Control and Controlling Techniques – Management by Exception [MBE].	15					
	Total Course Outcomes	75					
CO1	Demonstrate the importance of principles of management.						
CO2	Paraphrase the importance of planning and decision making in an o	rganization.					
CO3	Comprehend the concept of various authorizes and responsibilities organization.	of an					
CO4	Enumerate the various methods of Performance appraisal						
CO5	Demonstrate the notion of directing, co-coordination and control in the management.						
	Textbooks						
1	Gupta.C.B, -Principles of Management-L.M. Prasad, S.Chand& Sons Co. Ltd, New Delhi.						
2	DinkarPagare, Principles of Management, Sultan Chand & Sons Publications, New Delhi.						
3	P.C.Tripathi& P.N Reddy, Principles of Management. Tata McGrav Noida.	w, Hill,					
4	L.M. Prasad, Principles of Management, S.Chand&Sons Co. Ltd, N	lew Delhi.					
5	R.K. Sharma, Shashi K. Gupta, Rahul Sharma, Business Manageme Publications, New Delhi.	ent, Kalyani					
	Reference Books						
1	K Sundhar, Principles Of Management, Vijay Nichole Imprints Lin Chennai	nited,					
2	Harold Koontz, Heinz Weirich, Essentials of Management, McGrav Sultan Chand and Sons, New Delhi.	w Hill,					
3	Grifffin, Management principles and applications, Cengage learning	g, India.					
4	H.Mintzberg - The Nature of Managerial Work, Harper & Row, Ne	w York.					
5	Eccles, R. G. & Nohria, N. Beyond the Hype: Rediscovering the Es Management. Boston The Harvard Business School Press, India.	sence of					
NOTE:	Latest Edition of Textbooks May be Used						
	Web Resources						
1	http://www.universityofcalicut.info/sy1/management						
2	https://www.managementstudyguide.com/manpower-planning.htm						

2	https://www.businessmanagementideas.com/notes/management-
3	notes/coordination/coordination/21392

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	1	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	1	3	2	2
TOTAL	15	10	12	15	11	10	10	8	15	10	11
AVERAGE	3	2	2.4	3	2.2	2	2	1.6	3	2	2.2

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – I												
			ELE	CTIVE	- I: PR	OGRAMM	ING IN C	AND LA	B			
Subjec	t.	т	т	D	S	Cradita	Inst.		Mar	ks		
Code	-	L	I	I	3	Creans	Hours	CIA	Exte	rnal	Total	
U23CCP	?:A	2		2		3	4	40	6	0	100	
Learning Objectives												
L01	Desc	crit	be the o	core sy	ntax a	nd semantics	of C progr	amming la	inguag	e.		
LO2	Disc	OV	er the	need fo	or work	king with the	strings and	l functions				
LO3	Illus	tra	te the	process	s of str	ucturing the	data using	matrix, str	uct.			
Prerequi	isites:	Sh	ould l	have st	udied	Commerce	in XII Std					
Unit						Contents				No. Hou	of rs	
Ι	Introduction to C Language:C Language Introduction-Features of C Language-Benefits of C over other languages-Compilation of C Program-First Program in CPre-processor in CPre-processor directives											
Π	Vari Scop Type	abl pe eca	les, Da rules sting i	ta Typ in C- n C	es & C Data '	perators:Va Types in C	iables and -Operators	Keywords & Its T	in C- `ypes-			
III	Cont State Cont	trol eme tint	l Flov ent in ue Stat	v State C-C L cement	ements oops & , Breal	Decision N Control St Statement	Iaking Sta ructure Pra	atements-S actice prob	witch lems-			
	Arra	y 8	& Strin	ig Han	dling i	n C:Arrays ii	n C-Strings	in C				
	Multidimensional Arrays in C-String functions in C- Practice problems											
IV	Functions in C:Function Prototype-Parameter Passing Techniques in C-Storage Classes in C-Recursion Concept -Functions in CPractice problems											
V	Poin Enur prog prep	nter mer gran ara	s, Stru ration ns (Se ttion)	ctures, (or enu orting,	and U m) in (Matri	nions:Pointe C- Pointer vs x manipulat	rs in C-Str Array in C ions, stud	uctures- U 2 – C applic ent's mar	nion - cation k list			
						Total						

	Course Outcomes
CO1	Apply the concept of Control Structures to solve any given problem.
CO2	Apply the concept of single and multi-dimensional arrays to solve problems related to searching, sorting and matrix operations.
CO3	Apply the concept of Strings for writing programs related to character array.
CO4	Write programs using concept of user defined and recursive functions.
CO5	Apply concept of structures to write programs.
	Textbooks
1	E. Balaguruswamy, "Programming in ANSI C", 8th Edition, 2019, McGraw Hill Education, ISBN:978-93-5316-513-0.
2	Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6.
3	Kernighan B.W and Dennis M. Ritchie, "The C Programming Language", 2nd Edition, 2015, Pearson Education India, ISBN: 978-93-3254-944-9.
	Reference Books
1	Yashavant P. Kanetkar, "Let Us C", 16th Edition, 2019, BPB Publications, ISBN: 978- 93-8728-449-4.
2	Jacqueline A Jones and Keith Harrow, "Problem Solving with C", Pearson Education. ISBN: 978-93-325-3800-9.
3	Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing House. ISBN-978-93-5299-361-1.
NOTE:	Latest Edition of Textbooks May be Used

	Web Resources										
1	http://elearning.vtu.ac.in/econtent/courses/video/BS/14CPL16.html										
2	https://nptel.ac.in/courses/106/105/106105171/										

FIRST YEAR – SEMESTER – I

C Programming Lab										
Learning Objectives: (for teachers: what they have to do in the class/lab/field)										
• Understand problem statements and identify appropriate solutions.										
• Demonstrate the use of IDE and C Compiler.										
• Develop programs using C Programming Language.										
Course Outcomes: (for students: To know what they are going to learn	n)									
CO1: Apply the concept of Control Structures to solve any given prob.	lem.									
CO2: Apply the concept of single and multi-dimensional arrays to solv	ve problems related									
to searching, sorting and matrix operations.										
CO3: Apply the concept of Strings for writing programs related to cha	racter array.									
CO4: Write programs using concept of user defined and recursive fund	ctions.									
CO5: Apply concept of structures to write programs.										

List of Programs

- 1. Write a C program to find roots of a Quadratic equation.
- 2. Write a C program to find the total no. of digits and the sum of individual digits of a positive integer.
- 3. Write a C program to generate the Fibonacci sequence of first N numbers.
- 4. Write a C program to sum the series $S=1 x + (x^2/2!) (x^3/3!) + \dots (x^n/n!)$
- 5. Write a C program to arrange the elements of an integer array using Bubble Sort algorithm.
- 6. Write a C program to input two matrices and perform matrix multiplication on them
- 7. Write a C program to check whether the given string is palindrome or not without using Library functions.
- 8. Write a C program to count the number of lines, words and characters in a given text.
- 9. Write a C program to generate Prime numbers in a given range using user defined function.
- 10. Write a C program to find factorial of a given number using recursive function.
- 11. Write a C program to maintain a record of n student details using an array of structures with four fields Roll number, Name, Marks and Grade. Calculate the Grade according to the following conditions.

Marks Grade >=80 A >=60 B >=50 C

>=40 D
<40 E
Print the details of the student, given the student Roll number as input.

Extended	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
-	
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
from the	Professional Communication and Transferrable Skill
course	

Text Books:

E. Balaguruswamy, "Programming in ANSI C", 8th Edition, 2019, McGraw Hill Education, ISBN:978-93-5316-513-0.

Reference Books:

1. Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6.

2. Kernighan B.W and Dennis M. Ritchie, "The C Programming Language", 2nd Edition, 2015, Pearson Education India, ISBN: 978-93-3254-944-9.

3. Yashavant P. Kanetkar, "Let Us C", 16th Edition, 2019, BPB Publications, ISBN: 978-93-8728-449-4.

4. Jacqueline A Jones and Keith Harrow, "Problem Solving with C", Pearson Education. ISBN: 978-93-325-3800-9.

5. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing House. ISBN-978-93-5299-361-1.

Weblinks and Video Lectures (e-Resources):

1. http://elearning.vtu.ac.in/econtent/courses/video/BS/14CPL16.html

2. https://nptel.ac.in/courses/106/105/106105171/

	FIRST YEAR – SEMESTER - I										
	E	LECTI	VE - I:	PYTH	ON PROG	RAMMINO	G AND LA	AB			
Subject	T	т	р	G	Cradita	Inst.		Mar	ks		
Code		1	r	3	Creans	Hours	CIA	Exte	rnal	Total	
U23CCP:	B 2		2		3	4	40	6	0	100	
				Lea	arning Obje	ctives					
LO1	Descri	be the	core sy	ntax a	nd semantics	of Python	programm	ing lar	iguage	2.	
LO2	Discov	ver the	need fo	or worl	king with the	strings and	l functions	•			
LO3	Illustra sets.	ate the	process	s of str	ucturing the	data using l	lists, dictio	naries,	tuple	s and	
LO4	Unders	tand the	e usage	of pack	ages and Dic	tionaries					
Prerequisi	ites: Sho	ould h	ave stu	died (Commerce in	n XII Std					
Unit					Contents				No. of		
									Hou	rs	
Ι	Introdu Compu Variab types,	uction: uter So bles and Input /	Comp ftware- l Identi output	uter alg Pythor fiers -	gorithms-Con n programmi Operators - 1	mputer Har ng languag Expressions	dware- e - Literals s and Data	5 -			
Π	Contro Statem Contro Loops Buildin ranges	ol Struc nent- In ol- Whi - Boole ng blo	ctures: dentati ile Stat ean Fla cks of	Boolea on in F ement g. Stri pytho	an Expressio Python- Mult - Infinite loc ng, List and on programs	ns - Select i-Way Select ops- Definit Dictionary Understand	ion Contro ction Iter te vs. Inde , Manipula ding and	ol - If rative finite ations using			
III	IIIFunctions: Program Routines- Defining Functions- More on Functions: Calling Value-Returning Functions- Calling Non- Value-Returning Functions- Parameter Passing - Keyword Arguments in Python - Default Arguments in Python-Variable Scope. Recursion: Recursive Functions										
IV	Object attribu Modul	s and t tes-Mc es -	heir us odular I	e: Soft Design:	ware Objects : Modules - 7	s - Turtle G ſop-Down]	raphics – 7 Design - P	Furtle ython			
V	Diction Text F Handli	naries a Files: C ing	and Set Opening	ts: Dic g, read	tionary type ing and writ	in Python ing text fil	- Set Data les – Exce	type. eption			
	Total										

	Course Outcomes							
CO1	Develop and execute simple Python programs							
CO2	Write simple Python programs using conditionals and looping for solving problems							
CO3	Decompose a Python program into functions							
CO4	Represent compound data using Python lists, tuples, dictionaries etc.							
	Textbooks							
1	Charles Dierbach, "Introduction to Computer Science using Python - A computational Problem-solving Focus", Wiley India Edition, 2015.							
2	Wesley J. Chun, "Core Python Applications Programming", 3rd Edition, Pearson Education, 2016							
3	Mark Lutz, "Learning Python Powerful Object Oriented Programming", O'reilly Media 2018, 5th Edition.							
	Reference Books							
1	Timothy A. Budd, "Exploring Python", Tata MCGraw Hill Education Private Limited 2011, 1 st Edition.							
2	John Zelle, "Python Programming: An Introduction to Computer Science", Second edition, Course Technology Cengage Learning Publications, 2013, ISBN 978-1590282410							
3	Michel Dawson, "Python Programming for Absolute Beginers", Third Edition, Course Technology Cengage Learning Publications, 2013, ISBN 978- 1435455009							
NOTE: La	atest Edition of Textbooks May be Used							
	Web Resources							
1	https://onlinecourses.swayam2.ac.in/cec22_cs20/preview							

Python Programming LabLearning Objectives: (for teachers: what they have to do in the class/lab/field)Acquire programming skills in core Python.Acquire Object-oriented programming skills in Python.Develop the skill of designing graphical-user interfaces (GUI) in Python.Develop the ability to write database applications in Python.Acquire Python programming skills to move into specific branchesCourse Outcomes: (for students: To know what they are going to learn)CO1: To understand the problem solving approachesCO2: To learn the basic programming constructs in PythonCO3: To practice various computing strategies for Python-based solutions to real world problemsCO4: To use Python data structures - lists, tuples, dictionaries.

List of Programs

- 1. Program to convert the given temperature from Fahrenheit to Celsius and vice versa depending upon user's choice.
- 2. Write a Python program to construct the following pattern, using a nested loop

*
**

**
*

- 3. Program to calculate total marks, percentage and grade of a student. Marks obtained in each of the five subjects are to be input by user. Assign grades according to the following criteria:
- Grade A: Percentage >=80 Grade B: Percentage >=70 and 80

```
Grade C: Percentage >=60 and <70 Grade D: Percentage >=40 and <60 Grade E: Percentage < 40
```

- 4. Program, to find the area of rectangle, square, circle and triangle by accepting suitable input parameters from user.
- 5. Write a Python script that prints prime numbers less than 20.
- 6. Program to find factorial of the given number using recursive function.
- 7. Write a Python program to count the number of even and odd numbers from array of N numbers.
- 8. Write a Python class to reverse a string word by word.
- 9. Read a file content and copy only the contents at odd lines into a new file.
- 10. Create a Turtle graphics window with specific size.

Extended	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
from the	Professional Communication and Transferrable Skill
course	

Learning Resources:

• Recommended Texts

1. Charles Dierbach, "Introduction to Computer Science using Python - A computational Problem-solving Focus", Wiley India Edition, 2015.

2. Wesley J. Chun, "Core Python Applications Programming", 3rd Edition , Pearson Education, 2016

Reference Books

- 1. Mark Lutz, "Learning Python Powerful Object Oriented Programming", O'reilly Media 2018, 5th Edition.
- 2. Timothy A. Budd, "Exploring Python", Tata MCGraw Hill Education Private Limited 2011, 1 st Edition.
- John Zelle, "Python Programming: An Introduction to Computer Science", Second edition, Course Technology Cengage Learning Publications, 2013, ISBN 978-1590282410
- 4. Michel Dawson, "Python Programming for Absolute Beginers", Third Edition, Course Technology Cengage Learning Publications, 2013, ISBN 978-1435455009

FIRST YEAR – SEMESTER - I											
SEC – 1 PERSONAL FINANCE											
							Marks				
Subject Code	L	Т	Р	S	Credits	Inst. Hours	CIA	External	Total		
U23CC1I	E1 2				2	2	25	75	100		
	Learning Objectives										
LO1	To class	ify the	Need	for Pe	rsonal Financia	al Planning an	nd list out th	e Process Perso	onal		
LO2	Financia To ident	Financial Planning To identify Investment Criteria, liquidity, safety and profitability									
LO3	To ident	To identify the Meaning& Features of Simple & Compound interest									
LO4	To deter Motor Ir	To determine Various Insurance Policies and Strategies for General Insurance, Life Insurance, Motor Insurance and Medical Insurance									
LO5	To explain various Insurance Plans										
Prerequis	ite: Shou	ld hav	ve stud	lied C	ommerce in X	II Std			No of		
Unit					Conte	1115			Hours		
	Introduction to Personal Financial Management										
Ι	Meaning - Need for Personal Financial Planning - Personal Budget - Personal										
	Financial Planning Process.										
	Investm	ent Pl	annin	g					6		
	Investment Criteria- liquidity, safety and profitability - Investment Avenues -										
II	Securities, Deposits, Postal Schemes, Insurance, Real Estates - Investment in										
	Precious	metal	s – Go	ld, Sil	ver and Platinu	m					
	Return	on Per	sonal	Invest	tment				6		
Ш	Present	Value	and F	uture V	Value – Meani	ng & Feature	es - Simple	& Compound			
	interest-	- Mean	ing &l	Feature	es - Dividend a	nd capital gai	ns – Meani	ng & Features			
	Risk An	alysis	& Ins	uranc	e Planning	(- D')			6		
	Risk ass		d with	perso	onal investmen	its - Risk ma	inagement :	and insurance			
IV	decision	in pers	sonal f	inancia	al planning - Va	arious Insurar	ice Policies	and Strategies			
	for Gene	eral Ins	surance	e, Life	Insurance, Mo	tor Insurance	and Medica	al Insurance.			
	Plannin	g for t	he Fu	ture					6		
V											

	Retirement Savings Plans - Pension Plans - Deferred Contribution Plan					
	and Deferred Benefit Plan - Provident Fund, Gratuity - Life Insurance					
	Plans. General Insurance Plans - Reverse Mortgage Plans.					
	TOTAL	30				
CO	Course Outcomes					
CO1	Classify the Need for Personal Financial Planning					
CO2	Identify Investment Avenues – Securities, Deposits, Postal Schemes, Insurance, R	eal Estates				
CO3	List out the features of Present Value and Future Value					
CO4	Justify the Risk associated with personal investments and Explain Various Insurance Policies and Strategies for General Insurance, Life Insurance, Motor Insurance and Medical Insurance					
CO5	Elaborate Retirement Savings Plans - Pension Plans					
	Textbooks					
1	Personal Finance by Jack R. Kapoor, Les R. Dlabay and Robert J. Hughes, Tat Mc Publishing Company Ltd. New Delhi.	cGraw-Hill				
2	Security Analysis & Portfolio Management by PunithavathyPandian					
	Reference Books					
1	Principles of Risk Management and Insurance by George Rejda, Pearson, New De	elhi				
NOTE: L	atest Edition of Textbooks May be Used					
	Web Resources					
1	https://www.investopedia.com/terms/p/personalfinance.asp					

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
C01	3	3	2	1	1	3	2	3	2	3	-	3
CO2	3	3	2	1	-	3	3	3	1	3	-	3
CO3	3	2	2	1	1	3	3	3	1	3	-	3
CO4	3	3	3	1	1	3	1	3	2	3	-	3
CO5	3	2	3	2	-	1	1	3	2	3	-	1
C06	3	2	3	2	-	3	1	3	2	3	-	3

3 - Strong, 2 - Medium, 1- Low

	FIRST YEAR – SEMESTER – I									
FOUNDATION COURSE: GENERAL COMMERCIAL KNOWLEDGE										
Subjec	t	ТТ		D	S	Credits	Inst.		Marks	
Code		L	I	P	Э	Credits	Hours	CIA	External	Total
U23CC1	NI					2	2	25	25 75	
					Ι	earning Ob	jectives			
L01	То	unde	rstan	d the	basic	s of union bu	dget			
LO2	То	knov	v the	vario	us for	ms of investi	nent			
LO3	То	gain	know	ledge	e on f	iscal policy				
LO4	То	learn	the l	atest	techn	ology for bu	siness and o	commerc	e	
LO5	То	enab	le the	stud	ents to	o acquire kno	wledge in c	commerc	ial	

Unit	Contents	No. of
		Hours
Ι	BUDGET I Introduction to UnionBudget -Meaning-Need for UnionBudget - UnderstandingtheprocessofbudgetmakinginIndia-Types of Budget -Traditional or General Budget-Performance Budget –Zero Based Budget or SunSetBudget -Components of union Budget - RevenueBudget-CapitalBudget-RevenueReceipt- RevenueExpenditure -CapitalReceipts-CapitalExpenditure	6
II	THE UNION BUDGET Analysis of Fiscal & Revenue Deficits -Fiscal Policy-Revenue Deficit -Fiscal Deficit – Primary Deficit-Non-Tax Revenue - Thrustareas of Budget Steps-proposed to ensure effective pending	6
III	FORMS OF INVESTMENT-I Security forms of Investment -Corporate Bonds/Debenture - Convertible- Non-Convertible- Public Sector Bonds-Taxable- TaxFreePreference Shares – Equity Shares -New Issues - Rights Issue -Bonus Issue	6
IV	FORMS OF INVESTMENT-II Non-Security forms of Investment - National Savings Schemes National SavingsCertificates -Provident Funds – Statutory Provident Fund-Recognized Provident Fund – Unrecognized Provident Fund -Public Provident Fund Corporate fixed deposit- Public sector- private sector- Life insurance polices - Post office saving bank account – Recurring -Time-Monthly	6

	Income Scheme -Senior Citizen Savings Scheme -Real	
	EstateInvestment - Gold, Silver – Others- Kisan Vikas Patra -	
	Chits, Nidhisetc -Precautions at time of Investment	
	TECHNOLOGY TRENDS FOR RUSINESS & COMMERCE	
	BigData Definition Magning Characteristics Types of Big	
	Data – Definition – Meaning – Characteristics Types of Dig	
	Predictive Analysis - Descriptive Analysis - Diagnostic Analysis -	
	Applications Job tracker server - Task tracker server Block Chain	
V	Technology-Bitcoin -Blockchain-Cryptocurrency - Distinguish	6
•	between hit coin and block chain - Bit coin and block chain	U
	transaction Datastoragemode in blockchain - Public block	
	chains - Private block chains - Consortium block chains	
	Opportunities for Blockchain based E-Commerce Platform.	
	11	
	TOTAL	30
	Course Outcomes	
CO1	Outlinetheconceptsof UnionBudget	
CO2	Analysethedeficitsportrayedinabudget	
CO3	Classifythe various forms of investment	
CO4	Compare themerits and demerits of the forms of investment	
CO5	Relate the development in investmentare nadue to technological devel	opment
	Textbooks	
	Dr. Vishal Saxena (2019), Business Economics & Business and	Commercial
1	Knowledge, Bharat Law House, NewDelhi.	
1		
	Reference Books	
	Dr.C.B.Gupta (2019), Business and Commercial Knowledge, Taxma	inn's
1	publication NewDelhi	
-		

FIRST YEAR – SEMESTER - II											
CORE – III: FINANCIAL ACCOUNTING-II											
Subject	t	т	Т	р	G	Credita	Inst.		Ma	rks	
Code		L	I	P	3	Creatis	Hours	CIA	Ext	ernal	Total
U23CC20	03	5				5	5	25		75	100
					Lea	arning Obje	ectives				
LO1	Th Hig	e stu gher	dents a purcha	re able se and	to pre Instalı	pare differen nents Syster	nt kinds of a n.	accounts su	ch		
LO2	То	unde	erstand	the all	locatio	n of expense	s under der	partmental a	iccou	ints	
LO3	To reti	gain irem	an und ent	derstan	ding a	bout partners	ship accour	nts relating t	to Ad	lmissio	n and
LO4	Pro to o	ovide disso	es know olution	vledge of firm	to the	learners rega	rding Partr	ership Acc	ounts	s relatir	ıg
LO5	То	knov	w the r	equire	ments of	of internation	nal account	ing standard	ls		
Prerequis	sites	: Sh	ould h	ave stu	idied A	Accountancy	y in XII St	d		N 7	
Unit						Contents				No. of Hours	f S
Ι	Hire Purchase and Instalment SystemHire Purchase System – Accounting Treatment – Calculation ofInterest - Default and Repossession - Hire Purchase Trading15										
Π	Branch and Departmental AccountsBranch – Dependent Branches: Accounting Aspects - Debtorssystem - Stock and Debtors system – Distinction betweenWholesale Profit and Retail Profit – Independent Branches(Foreign Branches excluded) - Departmental Accounts: Basis ofAllocation of Expenses – Inter- Departmental Transfer at Cost or										
III	Selling Price.Partnership Accounts - IPartnership Accounts: -Admission of a Partner – Treatment of Goodwill - Calculation of Hidden Goodwill –Retirement of a Partner – Death of a Partner.15										
IV	Partner – Death of a Partner. Partnership Accounts - II Dissolution of Partnership - Methods – Settlement of Accounts Regarding Losses and Assets – Realization account – Treatment of Goodwill – Preparation of Balance Sheet - One or more Partners insolvent – All Partners insolvent – Application of Garner Vs Murray Theory – Accounting Treatment - Piecemeal Distribution – Surplus Capital Method – Maximum Loss Method.										
V	- Surplus Capital Method – Maximum Loss Method. Accounting Standards for financial reporting (Theory only) Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in India Role of IFRS- IFRS Adoption vs Convergence Implementation Plan in India- Ind AS- An Introduction - Difference between Ind AS and IFRS.										
THEORY	Y 20	% &	PRO	BLEM	IS 80%	6					

	Course Outcomes								
CO1	To evaluate the Hire purchase accounts and Instalment systems								
CO2	To prepare Branch accounts and Departmental Accounts								
CO3	To understand the accounting treatment for admission and retirement in partnership								
CO4	To know Settlement of accounts at the time of dissolution of a firm.								
CO5	To elaborate the role of IFRS								
	Textbooks								
1	Radhaswamy and R.L. Gupta: Advanced Accounting, Sultan Chand, New Delhi.								
2	M.C. Shukla T.S. Grewal & S.C. Gupta, Advance Accounts, S Chand Publishing, New Delhi.								
3	R.L. Gupta and V.K. Gupta, "Financial Accounting", Sultan Chand, New Delhi.								
4	S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers, New Delhi.								
5	T.S. Reddy& A. Murthy, Financial Accounting, Margam Publishers, Chennai.								
	Reference Books								
1	Dr. S.N. Maheswari: Financial Accounting, Vikas Publications, Noida.								
2	Dr. Venkataraman& others (7 lecturers): Financial Accounting, VBH, Chennai.								
3	Dr.Arulanandan and Raman: Advanced Accountancy, Himalaya publications, Mumbai.								
4	Tulsian, Advanced Accounting, Tata MC. Graw hills, India.								
5	Charumathi and Vinayagam, Financial Accounting, S.Chand and sons, New Delhi.								
NOTE: I	Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1								
2	https://www.slideshare.net/ramusakha/basics-of-financial-accounting								
3	https://www.accountingtools.com/articles/what-is-a-single-entry-system.html								

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES
	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	3	2	3	2	2	3	2	2
CO2	3	2	3	3	3	2	2	2	3	2	2
CO3	3	2	2	3	3	2	2	2	3	2	2
CO4	3	2	3	3	2	2	2	2	3	2	2
CO5	3	3	3	3	3	3	3	3	3	3	3
TOTAL	16	11	14	15	14	12	11	11	15	11	11
AVERAG E	3.2	2.2	2.8	3	2.8	2.4	2.2	2.2	3	2.2	2.2

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – II											
CORE – IV: BUSINESS LAW											
Subject	-	-	-			Inst.		Ma	nrks		
Code		Т	Р	S	Credits	Hours	CIA	Ex	ternal	Total	
U23CC2	5				5	5	25		75	100	
To know the nature and objectives of Mercantile lawand, the accenticle of											
L01	LO1 [rownow the nature and objectives of Mercanthe lawand the ess									n vanu	
LO2	To ga	in knov	wledge	on per	formance co	ontracts					
LO3	To be	acqua	inted w	vith the	rules of Ind	emnity and	Guarantee				
LO4	To ma	ake aw	are of t	he esse	entials of Ba	ilment and	pledge				
LO5	To un	derstar	nd the p	provisio	ons relating	to sale of g	oods				
Prerequis	sites: S	Should	have s	tudied	l Commerce	e in XII Sto	1				
					~						
Unit		4 6			Contents				No. of	Hours	
	Eleme	ents of	Contr troot	act 18"	72. Dofinitio	n of Contr	oot Eccont	ala			
	of V	n Con alid - C	lraci A	t Clar	sification	of Contrac	t Offer a	and			
Ι	Accer	anu C	- Cor	i, Cla Isiderat	tion = Cana	city to Co	ontract $-$ F	inu iree	1	15	
	Conse	oid									
	Contract										
	Perfo	rmanc	e of C	ontrac	t						
	Mean	ing of I	Perform	nance,	Offer to Per	form, Devo	lution of Jo	oint			
П	liabili	cal	15								
11	Promi	of									
	contra	nct - 7	Fermin	ation a	and Dischar	ge of Con	itract - Qu	iasi			
	Contr	act		• ·							
	Contr	ract of	Indem	inity a	nd Guarant	ee	F	- f			
III	Contract of Indemnity and Contract of Guarantee - Extent of Suraty's Liability Kinds of Guarantee Diabta of Suraty									15	
	Discharge of Surety –										
	Bailm	nent ar	d Pled	y Ige							
	Bailm	ent an	d Plea	lge –	Bailment –	Concept -	- Essential	s -			
IV	Classi	1	15								
	Bailee										
	Pledge										
	Sale o	of Goo	ds Act	1930:							
		• . •	6.0				D	c			
V	Defini	ition o	of Con	tract o	of Sale $-$ Fo	ormation -	Essentials	of	1	15	
	Contra	act of	Sale -	Cond	ittions and	Warranties Doutog	- Transfer	10			
	Prope										
	Owner	15 - Kig	ins and	i uuties		rights of an	Unpaid Sel	lici		15	
<u> </u>				(Course Out	come				5	
CO1	Expla	in the (Obiecti	ves and	d significance	e of Merca	ntile law				
CO2	Under	rstand t	he clau	ises an	d exceptions	of Indian (Contract Ac	ct.			
CO3	Outlin	ne the c	contrac	t of ind	lemnity and	guarantee					
CO4	Familiar with the provision relating to Bailment and Pledge										

CO5	Explain the various provisions of Sale of Goods Act 1930									
	Textbooks									
1	N.D. Kapoor, Business Laws- Sultan Chand and Sons, New Delhi.									
2	R.S.N. Pillai – Business Law, S.Chand, New Delhi.									
3	M C Kuchhal& Vivek Kuchhal, Business law, S Chand Publishing, New Delhi									
4	M.V. Dhandapani, Business Laws, Sultan Chand and Sons, New Delhi.									
5	Shusma Aurora, Business Law, Taxmann, New Delhi.									
Reference Books										
1	Preethi Agarwal, Business Law, CA foundation study material, Chennai.									
2	Business Law by Saravanavel, Sumathi, Anu, Himalaya Publications, Mumbai.									
3	Kavya and Vidhyasagar, Business Law, Nithya Publication, New Delhi.									
4	D.Geet, Business Law Nirali Prakashan Publication, Pune.									
5	M.R. Sreenivasan, Business Laws, Margham Publications, Chennai.									
NOTE: I	Latest Edition of Textbooks May be Used									
	Web Resources									
1	www.cramerz.comwww.digitalbusinesslawgroup.com									
2	http://swcu.libguides.com/buslaw									
3	http://libguides.slu.edu/businesslaw									

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	2	2	2	2	2	2	2
CO2	3	2	3	3	2	2	2	2	2	2	2
CO3	3	2	2	3	2	2	2	2	2	2	2
CO4	3	2	3	3	2	2	2	2	2	2	2
CO5	3	2	3	3	2	2	2	2	2	2	2
TOTAL	15	10	13	15	10	10	10	10	10	10	10
AVERAGE	3	2	2.6	3	2	2	2	2	2	2	2

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER - II										
		ELEC	five - 1	I: PRO	OGRAMMI	NG IN C+	+ AND LA	В		
Subject		Т	Р	S	Credits	Inst.		Mar	ks	
Code		_	_	2		Hours	CIA	Exte	rnal	Total
U23CCI C	2		2		3	4	40	6	0	100
		1	1	Le	earning Obj	ectives		1		
LO1	To eng	gender	an appi	eciatio	on for the nee	d and char	acteristics of	of Obj	ect-	
	orienta	ation.								
LO2	To imp	part kn	owledg	e of th	e C++ langu	age gramm	ar in order	to des	ign an	d
	impler	nent pr	ogramı	ning so	olutions to si	mple probl	ems by app	olying	Objec	t-
	oriente	a thin	ang.							
Prerequ	isites: S	Should	have s	tudied	Commerce	in XII Std	l			
Unit					Contents				No.	of
									Hou	rs
T	Object - The Modul	Orien need fo	ted Pro or objec Hierar	gramn t-orier	ning Concept ntation – Abs	traction – 1	xity in soft Encapsulati	ware ion –		
1	Basic member	Element er func	nts of (tions –	C++: C - privat	Classes – Ob te and public	jects – Dat c access sp	a members ecifiers - S	s and Static		
	Friend	Funct	ions an	$\frac{1018 - 1}{1000}$	nd Classes -	Array of o	bjects – Po	inter		
	to obj	jects -	this j	pointer	– Referen	ces – Dy	namic mei	mory		
II	Functi	nents								
	– Over	loadin	g Cons	tructor	S.		C	1		
	Operat function	tor Ov on – Ov	erloadi /erload	ng: O ^r ing an	verloading a operator as a	in operator	r as a mer ction	mber		
	Overlo	ading	the op	perator	s [], (), ->	and comr	na operato	ors –		
III	Conve protec	rsion ted acc	Functi ess spe	ons.Inl ecifier	-Virtual Ba	se Class –	inheritanc Base class	e – s and		
	derive Functi	d clas	s cons	structor	rs. Run-time	e Polymor	phism: Vi	irtual		
		0115	• 1•		1, 10	• • •	. 1 1			
IV	Functi Templ	on ove ates: F	rriding unctior	- Pure templ	virtual funct ates – Overl	10n – Absti 0ading a fu	ract base clain tem	ass. plate		
	– Class templates.									

V	Exception Handling: Exceptions – try, catch, throw – Rethrowing an exception – Restricting exceptions - Handling exceptions in derived classes - terminate(), abort(), unexpected(), set_terminate(). I/O Streams: Formatted I/O with ios class functions - Manipulators – Creating own manipulator – Overloading << and >> operators.						
	Total						
	Course Outcomes						
CO1	Explain the various basic concepts of Object-orientation.						
CO2	Write programs to implement static binding						
CO3	Write programs to implement inheritance and dynamic binding						
CO4	Write programs to implement templates and exception handling and learn how to use STL class library.						
CO5	Write programs implementing File and Stream I/O.						
	Textbooks						
1	Herbert Schildt, C++ - The Complete Reference, Third Edition, TMH, 19	99.					
2	2 Grady Booch, <i>Object Oriented Analysis and Design</i> , Pearson Education, 2008. (For Unit I)						
	Reference Books						
1	Bjarne Strousstrup, <i>The C++ Programming Language</i> , Addison Wesley,	2000.					
2	J. P. Cohoon and J. W. Davidson, C++ Program Design – An Introduction Programming and Object-Oriented Design, Second Edition, McGraw Hill	on to 1, 1999.					
3	C. J. Lippman, C++ Primer, Third Edition, Addison Wesley, 2000.						
NOTE:	Latest Edition of Textbooks May be Used						

<u>FIRST YEAR – SEMESTER - II</u>

Object Oriented Programming with C++	
Learning Objectives: (for teachers: what they have to do in the class/lab/fi	ield)
• Design classes for the given problems.	
• Write programs in C++.	
• Code, debug and execute a C++ program to solve the given proble	ems using an IDE.
Course Outcomes: (for students: To know what they are going to learn)	
CO1: Design and create classes.Implement Stream I/O as appropriate.	
CO2: Design appropriate data members and member functions.	
CO3: Implement functions, friend functions, static members, constructors	and compile-time
polymorphism.	

CO4: Implement inheritance, run-time polymorphism and destructors.

CO5: Implement templates and exceptions. Use STL class library.Implement File I/O.

List	of Prog	rams
1.	Write	a class to represent a complex number which has member functions to do the
follow	ving	
	a.	Set and show the value of the complex number
	b.	Add, subtract and multiply two complex numbers
	c.	Multiplying the complex number with a scalar value
2.	Write	a Point class that represents a 2-d point in a plane. Write member functions to
	a.	Set and show the value of a point
	b.	Find the distance between two points
	c.	Check whether two points are equal or not
4.	Desigr	and implement a class to represent a Solid object.
	a.	Apart from data members to represent dimensions, use a data member to
	specify	y the type of solid.
	b.	Use functions to calculate volume and surface area for different solids.
5.	Desigr	a class representing time in hh:mm:ss. Write functions to
	a.	Set and show the time
	b.	Find the difference between two time objects
	c.	Adding a given duration to a time
	d.	Conversion of the time object to seconds
6.	Desigr	a 3x3 matrix class and demonstrate the following:
	a.	Addition and multiplication of two matrices using operator overloading
	b.	Maintaining a count of the number of matrix object created
7.	Desigr	a class called cString to represent a string data type. Create a data member in
the cla	iss to rej	present a string using an array of size 100. Write the following functionality as
memb	er funct	ions:
	a.	Copy Constructor
	b.	Concatenate two strings
	c.	Find the length of the string
	d.	Reversing a string
	e.	Comparing two strings

8. Design a class called cString to represent a string data type. Create a data member in the class to represent a string whose size is dynamically allocated. Write the following as member functions:

- a. Copy Constructor
- b. Destructor
- c. Concatenate two strings
- d. Find the length of the string
- e. Reversing a string
- f. Comparing two strings

Extended	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
from the	Professional Communication and Transferrable Skill
Course	

Learning Resources:

Learning Resources:

Recommended Texts

- 1. Herbert Schildt, *C++ The Complete Reference*, Third Edition, TMH, 1999.
- 2. Grady Booch, *Object Oriented Analysis and Design*, Pearson Education, 2008. (For Unit I)

Reference Books

- 1. Bjarne Strousstrup, *The C++ Programming Language*, Addison Wesley, 2000.
- 2. J. P. Cohoon and J. W. Davidson, *C++ Program Design An Introduction to Programming and Object-Oriented Design*, Second Edition, McGraw Hill, 1999.
- C. J. Lippman, C++ Primer, Third Edition, Addison Wesley, 2000.

FIRST YEAR – SEMESTER – II											
		ELEC	TIVE-	II: OF	FICE AUTO	OMATION	N AND LA	B			
Subject	Т	Т	D	S	Cradita	Inst.	Marks				
Code		1	I	3	Creuits	Hours	CIA	Exte	ernal	Total	
U23CCF D	¹ : 2 2 3 4 40 6						0	100			
Learning Objectives											
LO1	The m	ajor ob	jective	in intr	oducing the	Computer	Skills cours	se is to	impa	rt	
	trainin MS W	g for st ord. M	udents S Exce	in Mic l and F	crosoft Office Power point.	e which ha	s different o	compo	onents	like	
1.02	The co	urse is	highly	nracti	ce oriented r	ather than 1	egular clas	s roon	n teacl	hing	
	T			practi						inng.	
LO3	To acq	uire kr	iowled	ge on e	caitor, spread	sheet and	presentatio	n soft	ware.		
Prerequ	sites: S	Should	have s	tudied	Commerce	in XII Sto	1				
Unit	Contents								No.	of	
	T (1			/ II	1 14	7 6	N/	•,	1100	15	
Ŧ	CPU-I	nput I	concep Devices	ts: Hai : Key	rdware and s board, Mo	software - use and S	Memory u Scanner. O	utput			
I	device	s: Mor	nitor, I	Printer.	Introductio	n to Oper	ating syste	ms -			
	Introdu		o Prog	rammi	ng Language	28.					
	Word format	Proces ting, b	sing: I ullets a	File me and nu	enu operatio mbering - S	ns - Editii bpell Checl	ng text – t ker - Docu	tools, ment			
II	format										
	footers	s, printi	ng – P	review	, options, me	erge.					
III	Spread	lsheets:	Excel	- oper	ning, entering	g text and o	lata, forma	tting,			
	naviga	ting, r	ormuna	s – em	ering, nanon		bying				
IV	Charts prepar	- cr ation of	eating, f finand	forma cial sta	atting and tements, intr	printing, a oduction to	analysis ta o data analy	bles, tics.			
	Power	point	t: Intr	oductio	on to Pow	ver point	- Feature	es –			
V	shows.	standin . Apply	g slide /ing sp	typeca ecial o	bject – inclu	ving slides	- creating cts & pictu	slide res –			
	Slide t	ransitic	on – Ar	nimatio	on effects, au	dio inclusio	on, timers.				
					Total						
I				(Course Outc	omes			<u> </u>		

CO1	Understand the basics of computer systems and its components.						
CO2	Understand and apply the basic concepts of a word processing package.						
CO3	Understand and apply the basic concepts of electronic spreadsheet software.						
CO4	Understand and apply the basic concepts of database management system.						
CO5	Understand and create a presentation using PowerPoint tool.						
Textbooks							
1	Peter Norton, "Introduction to Computers" – Tata McGraw-Hill.						
	Reference Books						
1	Jennifer Ackerman Kettel, Guy Hat-Davis, Curt Simmons, "Microsoft 2003", Tata McGraw- Hill.						
NOTE:	NOTE: Latest Edition of Textbooks May be Used						
	Web Resources						
1	Web content from NDL / SWAYAM or opensource web resources						

Office Automation Lab	
Learning Objectives: (for teachers: what they have to do in the class/la	.b/field)
Office tools course would enable the students in crafting professional we spread sheets, power point presentations using the Microsoft suite of off	ord documents, excel ice tools.
To familiarize the students in preparation of documents and presentation automation tools.	ns with office
Course Outcomes (for students: To know what they are going to loss	n)

Course Outcomes: (for students: To know what they are going to learn)

CO1: to perform documentation

CO2: to perform accounting operations

CO3: to perform presentation skills

List of Programs

Word

Word Orientation : The instructor needs to give an overview of Microsoft word & Importance of MS Word as word Processor, Details of the four tasks and features that would be covered Using word – Accessing, overview of toolbars, saving files, Using help and resources, rulers, format painter.

Task 1 : Using word to create project certificate. Features to be covered:-Formatting Fonts in word, Drop Cap in word, Applying Text effects, Using Character Spacing, Borders and Colors, Inserting Header and Footer, Using Date and Time option in Word.

Task 2 : Creating project abstract Features to be covered:-Formatting Styles, Inserting table, Bullets and Numbering, Changing Text Direction, Cell alignment, Footnote, Hyperlink, Symbols, Spell Check , Track Changes.

Task 3 : Creating a Newsletter : Features to be covered:- Table of Content, Newspaper columns, Images from files and clipart, Drawing toolbar and Word Art, Formatting Images, Textboxes and Paragraphs

Excel

Excel Orientation :The instructor needs to tell the importance of MS Excel as a Spreadsheet tool, give the details of the four tasks and features that would be covered Excel – Accessing, overview of toolbars, saving excel files, Using help and resources {Comdex Information Technology course tool kit Vikas }

Task1: Creating a Scheduler - Features to be covered: Gridlines, Format Cells, Summation, auto fill, Formatting Text

Task 2 : Calculations - Features to be covered:- Cell Referencing, Formulae in excel – average, standard deviation, Charts, Renaming and Inserting worksheets, Hyper linking, Count function, LOOKUP/VLOOKUP

Task 3 : Performance Analysis - Features to be covered:- Split cells, freeze panes, group and outline, Sorting, Boolean and logical operators, Conditional formatting

MS Power Point

Task1 :Students will be working on basic power point utilities and tools which help them create basic power point presentation. Topic covered includes :- PPT Orientation, Slide Layouts, Inserting Text, Word Art, Formatting Text, Bullets and Numbering, Auto Shapes, Lines and Arrows

Task 2 :This session helps students in making their presentations interactive. Topics covered includes: Hyperlinks, Inserting –Images, Clip Art, Audio, Video, Objects, Tables and Charts

Task 3 :Concentrating on the in and out of Microsoft power point. Helps them learn best practices in designing and preparing power point presentation. Topics covered includes :- Master Layouts (slide, template, and notes), Types of views (basic, presentation, slide slotter, notes etc), Inserting – Background, textures, Design Templates, Hidden slides. Auto content wizard, Slide Transition, Custom Animation, Auto Rehearsing

Extended Professional	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others					
Component	to be solved (To be discussed during the Tutorial hour)					
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,					
from the	Professional Communication and Transferrable Skill					
course						
1. Comdex Infor	mation Technology course tool kit Vikas Gupta, WILEY Dreamtech,2005 2.					
The Complete C	omputer upgrade and repair book, 3rd edition Cheryl A Schmidt, WILEY					
Dreamtech						
. Introduction to In	nformation Technology, ITL Education Solutions limited, Pearson Education.					
4. PC Hardware and A + Handbook – Kate J. Chas PHI (Microsoft)						

	FIRST YEAR – SEMESTER – II										
			SEC	- 2 A	CCOUNT	TING WI	TH TA	LLY			
								Mar	ks		
Subject Code	L	Т	Р	S	Credits	Inst. Hours	CIA	External	Total		
U23CCPE	2		2		2	2	40	60	100		
					Learning	Objectiv	ves				
L01	To ex	plain t	he gol	den ru	les of acc	ountancy	and Des	cribe the led	ger entries		
LO2	To su	nmari	ze the	tradir	ng and prot	fit and los	ss accour	nt and Balance	ce sheet		
LO3	To ex creation	plain (on, alte	the Co eratior	ompar	y Creation	n, alterat	ion and	deletion aDe	escribe the group		
LO4	To cre	eate the	e Rece	ipt an	d Paymen	t Vouche	r and Cr	eate journal v	voucher		
LO5	To ex	<u>plain b</u>	ackup	\rightarrow and r	estore and	create sp	olit comp	bany			
Prerequisi	tes: Sh	ould h	lave s	tudie	d Comme	rce in XI	I Std		NI CII		
Unit	Intro	Justia	n to A		Conter	nts			No. of Hours		
Ι	Mean of acc	ing of ounts	accour - Jour	ntancy nal en	y - Golden tries - Led	rules of a ger entrie	accounta es	ncy - Types	6		
II	Final Subsid Tradin	Accou liary b ng and	i nts ooks - Profit	- Type and I	es of Cash Loss accou	book - Ti ints - Bala	rial Bala ance She	nce - et	6		
III	Introd Introd alterat - Ledg	luction uction ion an ger Cre	n to T to Ta d dele eation,	ally ally - ` tion - altera	Versions o Group Creation and d	of Tally - eation, alt leletion	Compar teration a	ny Creation, and deletion	6		
IV	Introduction to Voucher - Receipt and Payment Voucher - 6 IV Contra Voucher - Journal Voucher - Purchase and Sales Voucher - Debit and Credit notes 6							6			
V	Repo Final Comp	r t Accou any - (nts - I Group	Day Bo Com	ook - Back pany	cup and R	lestore -	Split	6		
					TOTA	L	4		30		
CO	Evola	in tha	basia		Co	ourse Out	tcomes	unting			
CO1								unting.			
CO2	Expla	in the	Dasic (conce	pls of Subs	sidiary bo	DOKS				
CO3	Create	e a con	npany	and p	reparation	of final a	accounts				

CO4	Construct types of voucher							
CO5	Describe the various reports of tally							
Textbooks								
1	Business Computing, Published by Department of Commerce, Revised Edition							
	Reference Books							
1	Tally Solution Materials							
2	Genesis Tally Academy Material							
3	Parag Joshi(2017), Tally ERP 9 with GST, DnyansankulPrakashan							
4	Sanjay Satapathy (2018), Tally. ERP 9 book, Advanced usages, Tally ERP 9 book.							
5	Tally Education Private Limited, 2018, Office Guide to Financial Accounting Using Tally ERP 9, 4 th Edition, BPB Publication, New Delhi.							
NOTE: La	atest Edition of Textbooks May be Used							
	Web Resources							
1	https://gstcentre.in/gst-in-tally-erp-9.php#collapseOne							
2	http://www.tallysolutions.com							

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	3	2			3	2	2	2		1		2
CO2	2	3		2	3	3		2				3
CO3		3	2		3	3	1	2	3			2
CO4		3	2	2	3	3		2	3	2		3
CO5		3	3	1	3	3	2	3	3	2		3
CO6		3	3	1	3	3	2	3	3	1		3

3 - Strong, 2 - Medium , 1- Low

				FI	RST	YEAR – SE	MESTER	– II			
	SEC-III INTERNET AND WEB DESIGNING										
C	hi o o t						Inst		Marks		
Su C	ode	L	Т	Р	S	Credits	Hours	CIA	External	Total	
U23	CCPS 3	PS 5 2 2 40 60						100			
					L	earning Ob	jectives				
L 01	Explain	ning t	he coi	ncept	of W	eb design an	d its applie	cations.			
L 02	Detaile	d des	criptio	on for	Inter	rnet Domain	s and estab	lishing (Connectivity In	nternet.	
L 03	Structu	ring t	he H	ΓML	tags,	Lists, Tables	s, Frames, I	Forms ar	nd Forms elem	ents	
L	Empha	sizing	g the	DHT	ML	Style Sheets	s, linking	a Style	Sheet and We	eb page	
04 L	O4 designing L Elaborating the concept of JavaScript Document Object Model and Cookies								es		
05		~				1					
Prer	equisite	s: Sh	ould	have	studi	ed Commer	<u>ce in XII S</u>	Std		No	
Un it						Content	5			of Hour s	
Ι	Interne – Intern	t: Bas net Se	sic Co erver I	ncept denti	s – Co ties –	ommunicatir Establishing	ng on Interr g Connecti	net – Inte vity on tl	ernet Domains he Internet	15	
II	Introdu – Head Lists –	iction ling - Table	to HT Horiz es – Fr	TML - ontal rames	Anch Rule s - Fo	or Tag – Hy r – Paragrap rms and forr	rperlink - H hs – Tags - ns element	lead and · Images s.	Body Section and Picture –	15	
III	DHTM style sl Multip	IL and heet t le sty	d Style to a h les- W	e shee tml d /eb pa	ets - E ocum age de	Defining style nents - Inlin esigning.	es - Elemei e style - E	nts of sty External	le - Linking a style sheets -	15	
IV	Introduction to Java script - Advantage of JavaScript - Data type - Variable - Array - Operator and Expression - Control and looping Constructs - Functions - Dialog Boxes.										
V	JavaSc Built in	ript I 1 Obje	Docum ect - U	nent (Jser E	Objec Define	t Model - E ed Object-Co	Event Hand ookies	lling - F	orm Object -	15	
						TOTAL				75	
THE	CORY 2	0% 8	k PR(OBLE	EMS	80%					

С	Course Outcomes
0	
C 01	Demonstrate Internet Basic concepts and Internet Domains
C O2	Impart Lists, Frames and Table to the Forms and Forms Elements
C 03	Elaborate DHTML Style Sheets and Element of the Style
C 04	Representation of JavaScript Data types, Control and Looping and Functions.
C 05	Pointing out Form object, User Defined Object and Cookies
	Textbooks
1	Ivan Bayross, "Web Enabled Commercial Application Development using HTML, JavaScript, DHTML and PHP", Fourth Edition, 2010, BPB Publications
2	Harvey M. Deitel, Paul J. Deitel, Tem R. Nieto, "Internet & World Wide Web – How to program", Third Edition, 2002, Prentice Hall
3	Using HTML 4, XML & JAVA by Eric Ladd & Jim O'Donell (Platinum Edition) (PHI)
	Reference Books
1	Hirdesh Bharadwaj, Web designing, Paper Back, 2016
2	Brain D Miller, Principles of web design, Allworth Publications, 2022
NOT	E: Latest Edition of Textbooks May be Used
	Web Resources
1	http://books.google.co.in/books?id=BrASwbtAGGUC&pg=PA69&source=gbs_s elected_pages&cad=2#v =onepage&q&f=false
2	https://www.google.co.in/books/edition/Principles of Web Design/qFk1EAAA QBAJ?hl=en& gbpv=1&dq=web%20design&pg=PA1977&printsec=frontcover

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	2	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	2	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3

TOTAL	15	12	12	10	13	10	13	13	14	10	12
AVERAGE	3	2.4	2.4	2	2.6	2	2.6	2.6	2.8	2	2.4

3 - Strong, 2 - Medium , 1- Low

	SECOND YEAR – SEMESTER - III										
		C	ORE -	- V: C	ORPORATE A	ACCOUNTIN	GI				
Subject	Subject		Inst.		Marks						
Code	L	T	P	S	Credits	Hours	CIA	External	Tota 1		
U23CC305	5				5	5	25	75	100		
	Learning Objectives										
LO1	To und	erstan	d aboi	ut the	pro-rata allot	mentand U	nderwriti	ing of Share	8		
LO2	To know the provisions of companies Act regarding Issue and Redemption of Preference shares and debentures										
LO3	To lear Compa	n the nies A	form a ct 20	and co 13	ontents of fin	ancial state	ments as	per Schedu	le III of		
LO4	To exa	mine t	he vai	tious 1	nethods of va	aluation of (Goodwill	and shares			
LO5	To ide (IFRS)	ntify	the S	ignific	cance of Inte	ernational f	ïnancial	reporting s	tandard		
Prerequisit	e: Shoul	d hav	e stud	lied F	inancial Acc	ounting in	I Year				
Unit					Contents			No. Hou	of 1rs		
Ι	Issue o	f Sha	res						15		
	Issue o	f Shar	es – P	remiu	m - Discoun	t - Forfeitur	e - Reiss	ue –			

	TOTAL	75
V	Indian Accounting Standards International Financial Reporting Standard (IFRS)–Meaning and its Applicability in India - Indian Accounting Standards – Meaning – Objectives – Significance – Procedures for Formulation of Standards – Ind AS – 1 Presentation of Financial Statement, Ind AS – 2 Valuation of Inventories, Ind AS – 7 Cash Flow Statement, Ind AS – 8 Accounting Policies, Changes in Accounting Estimate and Errors, Ind AS – 16 – Property, Plant & Equipment, Ind AS 38 – Intangible Assets Ind AS – 103, Business Combinations Ind AS 110, Consolidated Financial Statement. (Theory Only)	15
IV	Valuation of Goodwill & Shares Valuation of Goodwill – Meaning – Need for Valuation of Goodwill – Methods of Valuing Goodwill – Average Profit – Super Profit – Annuity and Capitalisation Method. Valuation of Shares – Need for Valuation of Shares – Methods of Valuation of Shares – Net Assets Method – Yield and Fair Value Methods.	15
III	Final Accounts Introduction – Final Accounts – Form and Contents of Financial Statements as Per Schedule III of Companies Act 2013 – Part I Form of Balance Sheet – Part II Form of Statement of Profit and Loss – Ascertaining Profit for Managerial Remuneration	15
Π	 Issue & Redemption of Preference Shares & Debentures Redemption of Preference Shares–Provisions of Companies Act– Capital Redemption Reserve – Minimum Fresh Issue – Redemption at Par, Premium and Discount. Debentures: Issue and Redemption – Meaning – Methods – In- One lot–in Instalment – Purchase in the Open Market includes Ex Interest and Cum Interest - Sinking Fund Investment Method. 	15
	Pro-rata Allotment Issue of Rights and Bonus Shares - Underwriting of Shares and Debentures – Underwriting Commission - Types of Underwriting.	
	Pro-rate Allotment Issue of Dights and Ponus Charge	

THEORY	20% & PROBLEMS 80%
	Course Outcomes
CO1	Prepare and account for various entries to be passed in case of issue, forfeiture and reissue of shares and compute the liability of underwrites
CO2	Asses the accounting treatment of issue and redemption of preference shares and debentures
CO3	Construct Financial Statements applying relevant accounting treatments
CO4	Compute the value of goodwill and shares under different methods and assess its applicability
CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS
	Textbooks
1	S.P. Jain and N.L. Narang, Advanced Accounting Vol I, Kalyani Publication, New Delhi.
2	R.L. Gupta and M. Radha swamy, Advanced Accounts Vol I, Sultan Chand, New Delhi.
3	Broman, Corporate Accounting, Taxmann, New Delhi.
4	Shukla, Grewal and Gupta- Advanced Accounts VolI,S.Chand, New Delhi.
5	M.C.Shukla, Advanced accounting Vol I, S.Chand, New Delhi.
	Reference Books
1	T.S. Reddy, A. Murthy – Corporate Accounting- Margham Publication, Chennai.
2	D.S.Rawat&NozerShroff,Students Guide To Accounting Standards ,Taxmann, New Delhi
3	Prof. Mukeshbramhbutt, Devi,Corporate Accounting I, Ahilya Publication, Madhya Pradesh
4	Anil Kumar, Rajesh kumar, Corporate accounting I, Himalaya Publishing house, Mumbai.
5	PrasanthAthma, Corporate Accounting I, Himalaya Publishing house, Mumbai.
NOTE: La	test Edition of Textbooks May be Used
	Web Resources

1	https://www.tickertape.in/blog/issue-of-shares/
1	https://www.inekertupe.in/0105/155de of shares/
	https://www.townong.com/hoclestors/hoclestors/hoclefiles/chorter12websticg.foc
2	https://www.taxmann.com/bookstore/booksnop/bookmes/chapter12valuationorgo
2	
	odwillandshares.pdf
	https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accounting-
3	https://www.ineu.gov.in/content/ineu/giobal/en/acts/fales/coooks/accounting
5	standards html
	standards.ntm

MAPPING WITH PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	2	2	2	3	2	2
CO2	3	2	3	2	2	2	2	2	3	2	2
CO3	3	2	3	2	3	2	2	2	3	2	2
CO4	3	1	3	2	3	2	2	2	3	2	2
CO5	3	3	3	2	3	2	2	2	3	2	2
TOTAL	15	11	15	10	13	10	10	10	15	10	10
AVERAGE	3	2.2	3	2	2.6	2	2	2	3	2	2

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER - III											
CORE – VI: BUSINESS MATHEMATICS & STATISTICS											
Subject	t z m z a z Inst. Marks										
Code	L	Т	Р	S	Credits	Hours	CIA External T			Total	
U23CC30	5 5				5	5	25	7	5	100	
Learning Objectives											
LO1	To impart knowledge on the basics of ratio, proportion, indices and proportions										
LO2	To lear	To learn about simple and compound interest and arithmetic, geometric and									
	harmo	nic pro	gressio	ons.							
LO3	To fan	niliarise	e with	the me	asures of cen	ntral tenden	су				
LO4	To con	iceptua	lise wi	th corr	elation co-e	tficient					
LU5 Proroquisi	10 gan	n know uld ha	ve stu	died C	ommerce in	VII Std					
Unit	ie. 5110		ve stu		Contents	AII Stu			No.	of	
emt					contents				Hou	irs	
Т	Ratio									15	
1	Ratio,	Propor	tion ar	nd Vari	ations, Indic	es and Loga	arithms.			15	
	Intere	st and	Annu	ity	1 10	1 7				15	
II	Arithm	r's Dise	count -	- Simp	le and Comp	Progression	est -				
	Annuit	v - Me	aning	- Type	s of Annuity		s. ns				
	Busine	ess Sta	tistics	Measu	ires of Cent	ral Tenden	cv			15	
	Arithm	netic M	lean, C	leomet	ric Mean - F	Iarmonic M	ean - Moc	le and			
III	Media	n – Qu	artiles	– Deci	les - Percent	tiles. Measu	res of Var	iation			
	– Rang	ge - Qu	artile	Deviati	ion and Mea	n Deviation	- Varianc	e and			
	Standa	rd Dev	nation	& Co-	efficient.					15	
	Correl	ation	Korl D	egressi	iun 'a Coofficier	t of Corrole	tion			15	
IV	Correla	ation -	$\mathbf{K}an \mathbf{F}$				uloli —				
	Spearn										
	Coemi	cients.		•						1 -	
	Time S	Series .	Analy	sis and	Index Num	ibers				15	
	Time S	Series A	Analys	is : Sec	ular Trend -	- Seasonal V	/ariation –	-			
V	Cyclic	al varia	tions -	- Index	Numbers –	Aggregative	e and Rela	tive			
	Index -										
	Living	Index.									
				~	TOTAL					75	
				C	ourse Outco	omes					
CO1	Learn	the bas	ics of	ratio, p	proportion, in	dices and lo	ogarithm			<u> </u>	
CO2	Familia geome	arise w tric and	1th cal d harm	culatio onic pi	ns of simple rogressions.	and compo	und intere	st and a	arithn	ietic,	
CO3	Detern	nine the	e vario	us mea	sures of cen	tral tendenc	y				
CO4	Calcul	ate the	correl	ation a	nd regression	n co-efficier	nt.				
CO5	Assess	ssess problems on time series analysis									

	Textbooks
1	Dr. B.N. Gupta, Business Mathematics & Statistics, Shashibhawan publishing house, Chennai
2	Asim Kumar Manna, Business Mathematics & Statistics, McGraw hill education, Noida
3	A.V. Rayarikar and Dr. P.G. Dixit, Business Mathematics & Statistics, Nirali Prakashan Publishing, Pune
4	Dr.S. Sachdeva, Business Mathematics & Statistics, Lakshmi NarainAgarwal, Agra
5	P.R. Vittal, Business Mathematics & Statistics, Margham Publications, Chennai
	Reference Books
1	J.K. Sharma, Fundamentals of business statistics, Vikas publishing, Noida
2	Peter Waxman, Business Mathematics & Statistics, Prentice Hall, New York
3	Andre Francis, Business Mathematics & Statistics, Cengage Learning EMEA, Andover
4	Aggarwal B M, Business Mathematics & Statistics, Ane Book Pvt. Ltd., New Delhi
5	R.S. Bhardwaj, Business Mathematics & Statistics, Excel Books Publisher, New Delhi
NOTE: La	atest Edition of Textbooks May be Used
	Web Resources
1	https://www.britannica.com/biography/Henry-Briggs
2	https://corporatefinanceinstitute.com/resources/data-science/central-tendency/
3	https://www.expressanalytics.com/blog/time-series-analysis/

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	2	2	3	2	3	2	2
CO2	3	2	3	2	3	2	3	2	3	2	2
CO3	3	2	3	2	3	2	3	2	3	2	2
CO4	3	2	3	2	2	2	3	2	3	2	2
CO5	3	2	3	2	2	2	3	2	3	2	2
TOTAL	15	10	15	10	12	10	15	10	15	10	10
AVERAG E	3	2	3	2	2.4	2	3	2	3	2	2

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER – III											
ELECTIVE - III: PROGRAMMING IN JAVA AND LAB											
Subject	T	т	D	c	Credita	Inst.	Μ		ks		
Code	L	1	ſ	3	Creans	Hours	CIA	Exte	rnal	Total	
U23CCI E	?: 2		2		3	4	40	6	60 100		
Learning Objectives											
LO1	To pro	ovide fu	Indame	ental kr	owledge of	object-orie	nted progra	ummin	g.		
LO2	2 To equip the student with programming knowledge in Core Java from the basics up.										
LO3	To ena GUI.	able the	studer	nts to u	se AWT con	trols, Even	t Handling	and S	wing	for	
Prerequ	isite: S	hould l	nave st	udied	Commerce i	in XII Std					
Unit					Contents				No. Hou	of rs	
I	Introd buzzw archite Conso Variat Buffer Metho	uction: ords (l ecture - le outp bles - red inpu	Revi Platforn Java F ut(Syst type co it - ope ng and	ew of m inde Progran tem.ou onversi rators - String	Display the structure of the structure o	viented co vortability, –Java mai ava progran ting- Java ements - St ses	ncepts - Threads)- n method - m - Data ty Console i atic Data -	Java JVM Java /pes - input: Static			
Ш	Method - String and String Buffer ClassesJava user defined Classes and Objects – Arrays – constructors - Inheritance: Basic concepts - Types of inheritance - MemberIIaccess rules - Usage of this and Super key word - Method Overloading - Method overriding - Abstract classes - Dynamic method dispatch - Usage of final keyword										
III	Packag Interfa Interfa finally garbag	Packages: Definition - Access Protection - Importing Packages - Interfaces: Definition – Implementation – Extending InterfacesException Handling: try – catch - throw - throws –- finally – Built-in exceptions - Creating own Exception classes - garbage collection, finalise -									
IV	Multit Synch synch	hreaded ronizat ronized	d Progi ion – statem	ammir Usin 1 - In	ng: Thread C g synchror nterthread Co	lass - Runi ized met	hable interf hods – 1 ion – Dead	ace – Using llock.			
V	Adapt Frame Arrayl	er class work:C List- Vo	ses - In Collecti ector-	nner cl on & It Compa	asses -Java terator Interf trator	Util Packa ace- Enum	ge / Collec eration- Lis	ctions st and			

	TOTAL							
	Course Outcomes							
CO1	Understand the basic Object-oriented concepts.Implement the basic of Core Java	constructs						
CO2	Implement inheritance, packages, interfaces and exception handling Java.	g of Core						
CO3	Implement multi-threading and I/O Streams of Core Java							
Textbooks								
1	Herbert Schildt, The Complete Reference, Tata McGraw Hill, New Edition, 2010.	Delhi, 7th						
2	Gary Cornell, Core Java 2 Volume I – Fundamentals, Addison Wes	ley, 1999.						
Reference Books								
1	Head First Java, O'Rielly Publications, Y. Daniel Liang, Introduction Programming, 7th Edition, Pearson Education India, 2010.	on to Java						

Java Programming Lab	Core -S2EC1L
Learning Objectives: (for teachers: what they have to do in the class/la	b/field)
• To gain practical expertise in coding Core Java programs	
• To become proficient in the use of AWT, Event Handling and	Swing.
Course Outcomes: (for students: To know what they are going to learn	
CO1: Code, debug and execute Java programs to solve the given probl	ems
CO2: Implement multi-threading and exception-handling	
CO3: Implement functionality using String and StringBuffer classes	

List of Programs

- 1. Write a Java program that prompts the user for an integer and then prints out all the prime numbers up to that Integer?
- 2. Write a Java program to multiply two given matrices.
- 3. Write a Java program that displays the number of characters, lines and words in a text?
- 4. Generate random numbers between two given limits using Random class and print messages according to the range of the value generated.
- 5. Write a program to do String Manipulation using Character Array and perform the following string operations:

- a) String length
- b) Finding a character at a particular position
- c) Concatenating two strings
- 6. Write a program to perform the following string operations using String class:
 - a) String Concatenation
 - b) Search a substring
 - c) To extract substring from given string
 - Write a program to perform string operations using StringBuffer class:
 - a) Length of a string
 - b) Reverse a string

7.

c) Delete a substring from the given string

8. Write a java program that implements a multi-thread application that has three threads. First thread generates random integer every 1 second and if the value is even, second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of cube of the number.

9. Write a threading program which uses the same method asynchronously to print the numbers 1 to 10 using Thread1 and to print 90 to 100 using Thread2.

- 10. Write a program to demonstrate the use of following exceptions.
 - a) Arithmetic Exception
 - b) Number Format Exception
 - c) Array Index Out of Bound Exception
 - d) Negative Array Size Exception

Extended	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
Skills acquired from the course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

Learning Resources:

Recommended Texts

Herbert Schildt, The Complete Reference, Tata McGraw Hill, New Delhi, 7th Edition, 2010. Gary Cornell, Core Java 2 Volume I – Fundamentals, Addison Wesley, 1999.

Reference Books

Head First Java, O'Rielly Publications, Y. Daniel Liang, Introduction to Java Programming, 7th Edition, Pearson Education India, 2010.

Web resources: Web resources from NDL Library, E-content from open-source libraries

SECOND YEAR – SEMESTER - III										
ELECTIVE III :Web Technology(PHP) and Lab										
Subjec	et	т	т	D	c	Credita	Inst.		Marks	
Code		L	1	r	5	Creans	Hours	CIA	Externa	l Total
U23CC F	P:	2		2		3	4	40	60	100
Learning Objectives										
LO1	То	use I	PHP a	nd M	ySQL	to develop d	namic web	sites for	user on the	e Internet
LO2	LO2 To develop web sites ranging from simple online information forms to complex e-commerce sites with MySQL database, building, connectivity, and maintenance									
Prerequ	isite	: Sho	ould h	ave s	tudie	d Commerce	in XII Std			
Unit						Contents				No. of Hours
Ι	I Introducing PHP – Basic development Concepts – Creating first PHP Scripts – Using Variableand Operators – Storing Data in variable – Understanding Data types – Setting and Checkingvariables Data types – Using Constants – Manipulating									
II	II Controlling Program Flow: Writing Simple Conditional Statements - Writing More ComplexConditional Statements - Repeating Action with Loops - Working with String and NumericFunctions.									
III	We wit wit	orking th Lo th Ari	g with ops a ray Fu	Arra nd Ite	ys: St ratior ns – V	oring Data in ns –Using Arr Vorking with	Arrays – Pr ays with Fo Dates and T	ocessing orms - W imes.	Arrays	
IV	Us Cre	ing F eating	unctio g Clas	ons ar ses –	d Cla Using	asses: Creating Advanced OC	g User-Defi DP Concept	ned Func s.	tions -	
V	Working with Database and SQL : Introducing Database and SQL- Using MySQL-Adding andmodifying Data-Handling Errors – Using SQLite Extension and PDO Extension. IntroductionXML - Simple XML and DOM Extension.									
						TOTAL				
СО	<u> </u>					Course (Outcomes		I	

CO1	Understand the general concepts of PHP scripting language for the development of
COI	Internetwebsites.
000	
CO2	Understand the basic functions of MySQL database program and XML concepts
CO3	Learn the relationship between the client side and the server side scripts.
	Textbooks
1	VikramVaswani, "PHP A Beginner's Guide", Tata McGraw Hill 2008.
	Reference Books
	Stavan Halznar "The DUD Complete Deference" Tete McGreeve
1	Steven Holzher, The FHF Complete Reference, Tata McGraw
	Hill, 2007.
2	Steven Holzer, "Spring into PHP", Tata McGraw Hill 2011, 5thEdition.
NOTI	E: Latest Edition of Textbooks May be Used
	Web Resources
1	https://www.w3schools.com/php/
2	
2	nups://www.pnpipoint.com/pnp-tutoriai-pai/
3	http://www.xmlsoftware.com/

<u>SECOND YEAR – SEMESTER – III</u>

WEB TECHNOLOGY LAB

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

- The objectives of this course are to have a practical understanding about how to writePHP code to solve problems.
- Display and insert data using PHP and MySQL.
- Test, debug, and deploy web pages containing PHP and MySQL.
- It also aims to introduce practical session to develop simple applications using PHP andMySQL.

Course Outcomes: (for students: To know what they are going to learn)

- 1. On the completion of this laboratory course the students ought to
- 2. Obtain knowledge and develop application programs using Python.
- 3. Create dynamic Web applications such as content management, user registration, and ecommerce using PHP and to understand the ability to post and publish a PHP website.
- 4. Develop a MySQL database and establish connectivity using MySQL.

LIST OF PRACTICALS

- 1. Write a PHP program which adds up columns and rows of given table
- 2. Write a PHP program to compute the sum of first n given prime numbers
- 3. Write a PHP program to find valid an email address
- 4. Write a PHP program to convert a number written in words to digit.
- 5. Write a PHP script to delay the program execution for the given number of seconds.
- 6. Write a PHP script, which changes the colour of the first character of a word
- 7. Write a PHP program to find multiplication table of a number.
- 8. Write a PHP program to calculate Factorial of a number.

9. Write a PHP code to create a student mark sheet table. Insert, delete and modify records.

10. From a XML document (email.xml), write a program to retrieve and print all the emailaddresses from the document using XML

11. From a XML document (tree.xml), suggest three different ways to retrieve the text value'John' using the DOM:

12. Write a program that connects to a MySQL database and retrieves the contents of any one of its tables as an XML file. Use the DOM.

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
<u>Skills acquired</u> from the <u>Course</u>	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

SECOND YEAR – SEMESTER - III													
	SEC	– IV	EN'	TRE	PRENURIA	L SKILL DI	EVELOP	MENT					
Subject	т	т	р	S	Credita	Inst.		Mar	ks				
Code	L	1	Г	3	Creans	Hours	CIA	Exter	mal	Total			
U23CC3S4					1	1	25	75	5	100			
					Learning O	bjectives							
LO1	Intro	oduct	tion t	o ent	repreneurial of	levelopement	t						
LO2	To l	Γο learn about the skills relevant to business development											
LO3	Lear	Learn about various financing schemes available to entreprenur											
LO4	Und	ersta	nd va	ariou	s sources of f	inance							
LO5	Intro	oduct	tion to	o var	rious business	organisation	types						
Prerequisite	s: Sh	ould	have	e stu	died Comme	rce in XII St	d		NT	6			
Unit					Conte	ents			No.	0I rs			
I	Intr Defi Diff Entr Intra gene Entr Help Entr Busi skill	oduc initio erence apren eratic repren epren repren repren s, Cc	etion n- neur neurs ons neurs Grou neurs eneurs eneurs	Conc etwe an -T o hip ups-H hip-Y rship agem	cept -Chara en Entrepre d Manager, Types of f entrepr –Edupreneu Health Ent Women Entre Developmen nent skills, Tea tion and liste	cteristics -I neur and E Entrepreneur reneurship: urship-Ecopre repreneurship preneurship nt Skills amwork and I ning, Custom	Functions- Enterprise, eeur and cs- New Social eneur-Self p-Tourism leadership			3			
П	skills, Communication and listening, Customer service skills, Financial skills, Analytical and problem-solving skills, Critical thinking skills, Strategic thinking and planning skills, Technical skills. Classroom Activity: 1. Shift the Paradigm from Individual to Team 2. Build a Creative Atmosphere 3. Healthy Communication Fosters Collaboration 4. Work Together, Celebrate Together 5. Keep your Employees Stress-Free												
III	Fina DIC SFC Clas	ancia SIP -IDE sroo 1 2	Il ass COT BI-IC m Ac . Inv for . Ide the	istan -TIIC ICI-I ctivity vite e inte entify em in	Ice and servi C-NSIC-SIDC FCI y: entrepreneurs, raction y your hobbie ito business ic	ces D-SIDC-KVI industry offi s and interest leas	C-SIDBI-	EDII- kers ert		3			

	Textbook	
CO5	Identify the relevant business organisation to their business	
CO4	Understand various sources of finance	
CO3	Learn about various financing schemes available to entreprene	ur
CO2	Learn about various skills required to be successful	
CO1	Developing entrepreneurship development	
	Course Outcomes	
	Total	15
V	 Sole proprietorship, partnership, corporations, Limited Liability company- mission, vision and strategy formulation Field Activity 1. Develop awareness about entrepreneurship and successful entrepreneurs 2. Develop an entrepreneurial mind-set by learning key skills such as design, personal selling, and communication 3. Understand the entrepreneur and assess their strengths and weaknesses from an entrepreneurial perspective. 4. Assignments and Projects; and Practical Experiences including challenges, internships and apprenticeships. 	3
IV	 Sources of Finance Venture capital- Venture capital process- Business angles- Commercial banks- Government Grants and Schemes. Field Activity Coir mattress cushions and matting Hand gloves of all types Lamp holders, letter boxes Paper conversion products like ice cream cup, paper cup, saucers and paper plates, paper bags, envelops. Pickles, pap pads ,beauty parlors Servicing of gardening equipment's, internet browsing 	3
	 Select any product and prepare its cost sheet Open a saving account and built your own capital Engaging in marketing of products Select a social cause, set objectives, plan and work for its accomplishments 	

1	Dr. Gordan and Natarajan, Entrepreneurial Development, HPH, Mumbai 2018							
2	Khanka S.S., Entrepreneurial Development, S.Chand& Co. Ltd., New Delhi, 2020							
3	S.AnilkumarEntrepreneurial development, new age international, new delhi							
Reference Books								
1	Jaysree Suresh, entrepreneurial development Margham publication, Chennai 2019							
2	RajShanker, entrepreneurial development, vijay Nicole imprints pvt ltd, Chennai 2018.							
NOTE: Late	est Edition of Textbooks May be Used							
	Web Resources							
1	www.entrepreneur.com							
2	http://inventors.about.com/od/entrepreneur/							

				SECON	D YEAR – S	SEMESTEI	R – III						
				SEC –	V PROGRA	AMMING I	IN R						
Subject Code	T.	Т	Р	S	Credits	Cradita Inst. Mark							
						al Total							
U23CCPS5			2		2	2	40	40 60					
	1		•		Learning O	bjectives							
LO1 Identify the basic concepts and skills in the R packages													
LO2	Creat	te the d	lifferent	t data typ	bes and data	structures in	R						
LO3	Deve	lop R f	function	ıs									
LO4	Evalu	iate me	easures	of dispe	rsion using R	R programmi	ng						
LO5	Asses	ss corr	elation	and regr	ession using	R							
Prerequisites	s: Shou	uld hav	ve stud	ied Con	merce in X	II Std							
Unit	DAG		I D		Conten	its			No. of Hours				
Ι	Intro	ductior	n K 1 - How	to run F	R - R Session	s and Functi	ions - Basic	Math	6				
II	MEA Math metho	SURE ematic od, St Corr tiles, D	ESOF al aver ep Dev rected M Deciles.	CENTR cages - viation Mean, Co Perce	AL TENDE Arithmetic method, Geo ombined Me entiles - Mod	NCY Mean, Dire ometric Me an - Positio le	ect method, an, Harmor nal averages	Short-cut nic Mean, 5, Median,	6				
III	MEA Rang Mear	SURE e - Qua meth	ES OF lartile D od, Ass	DISPER eviation sumed N	SION - Mean Devi Mean Methodon - Coeffici	iation - Stand d, Combined	dard Deviation	on, Actual Deviation,	6				
IV	GRA Introd Grap	PH ductior hs- Cu	n to Gr stomizi	aphs - (ng Grap	Creating Gra hs - Saving	phs - The 'Graphs to I	Workhorse of Files - Analy	of R Base yzing data	6				
V	COR Meas Corre	RELA sures of elation	TION of skew - Findin	AND R mess - (ng Regre	EGRESSIO Calculation ession lines	N of correlation	on coefficier	nt - Rank	6				
					Total				30				
PRACTICA	LS 10	0%											
CO					Cou	urse Outcon	nes						
CO1	Sum	narize	R func	tions									

CO2	Identify arithmetic mean using R in different methods								
CO3	Calculate Standard deviation in different methods using R								
CO4	Construct various graphs in R								
CO5	Evaluate correlation and regression using R programming								
Textbooks									
1	The Art of R Programming, Norman Matloff, Cengage Learning								
2	R for Everyone, Lander, Pearson								
Reference Books									
1	R Cookbook, PaulTeetor, Oreilly.								
2	R in Action, RobKabacoff, Manning								
NOTE: Late	st Edition of Textbooks May be Used								
Web Resources									
1	https://www.datamentor.io/r-programming								
2	https://www.rexamples.com/								

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	1	2	-	3	3
CO2	3	-	3	2	3	2	-	2	-	3	3
CO3	3	-	3	2	3	2	-	2	-	3	3
CO4	3	-	3	2	3	2	-	2	-	3	3
CO5	3	-	3	2	3	2	-	2	-	3	3
TOTAL	15	2	15	10	15	10	1	10	-	15	15
AVERAGE	3	0.4	3	2	3	2	0.2	2	-	3	3

3 - Strong, 2 - Medium , 1- Low

	SECOND YEAR – SEMESTER - IV										
			COR	E-VII	: COI	RPORATE .	ACCOUN	TING -II			
							T (Marks		
	Subject Code	L	Т	Р	S	Credits	Inst. Hours	CIA	Externa l	Total	
ι	J23CC407	5				5	5	25	75	100	
			<u> </u>	I	I	Α		<u> </u>			
	LO1	To kn	ow the	types	of Am	algamation,	Internal an	d external	Reconstru	ction	
	LO2	To kn	ow Fir	al stat	ements	of banking	companies				
	LO3	To un	derstar	nd the	accoun	ting treatme	nt of Insura	ance compa	any accour	nts	
	LO4	To un	derstar	nd thep	orocedu	re for prepa	ration of co	onsolidated	Balance s	heet	
	LO5	To ha	ve an i	nsight	on mo	des of windi	ng up of a	company			
Prerequisite: Should have studied Financial Accounting in I Year											
Contents								No. of			
	Umt									Hours	
		Amal	gamat	ion, In	ternal	& Externa	l Reconstr	uction			
	Ι	Amal Metho Metho The Meth	gamati od, Net od - Ty Pooli od(Exc	on – N Assets pes of ng o cluding	feanin s Meth f Meth of In g Inter-	g - Purchase od, Net Payr ods of Acco terest Me Company H	e Consider nent Metho ounting for thod - oldings).	ation - Lur od, Intrinsio rAmalgam The Pu	np sum c Value ation - r chase	15	
		Inter	nal & I	Extern	al Rec	construction	l				
		Intern Decre Treat	nal Re ease o ment o	constr of Ca of Exte	uction pital ernal F	– Conversi – Reserve Reconstructi	on of Stoc Liability ion	ek – Increa y - Acco	se and ounting		
		Acco	unting	of Bai	nking	Companies					
	Π	Final Non-I Loss a	Statem Perform a/c - Ba	ents of ning A alance	f Bank ssets - Sheet a	ing Compan - Rebate on as Per Banki	ies (As Pe Bills Disc ng Regulat	r New Prov counted- P cion Act 19	visions) - rofit and 49.	15	
	Ш	Insur	ance (Compa	ny Ac	counts:				15	
		Mean Accou	ing of unts of	Insurat Insura	nce – I ance C	Principles – ' ompanies –	Гуреs – Pr Accounts	reparation of Life Ins	of Final surance	10	

Business – Accounts of General Insurance Companies -New Format.						
Consolidated Financial Statements						
IV Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparationof Accounts -Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).	15					
Liquidation of Companies						
V Meaning-Modes of Winding Up – Preparation of Statement of Affairs and Statement of Deficiency or Surplus (List H) Order of Payment – Liquidators Remuneration- Liquidator's Final Statement of Accounts.	15					
TOTAL						
THEORY 20% & PROBLEMS 80%						
Course Outcomes						
CO1 Understand the accounting treatment of amalgamation, Internal and expression reconstruction						
CO2 Construct Profit and Loss account and Balance Sheet of Banking Comp in accordance in the prescribed format.	panies					
CO3 Synthesize and prepare final accounts of Insurance companies in the prescribed format						
CO4 Give the consolidated accounts of holding companies						
CO5 Preparation of liquidator's final statement of account						
Textbooks						
1 S.P. Jain and K.L Narang. Advanced Accountancy, Kalyani Publishers, New	Delhi.					
2 Dr.K.S .Raman and Dr. M.A. Arulanandam , Advanced Accountancy, Vol. I Himalaya Publishing House, Mumbai.	II,					
3 R.L. Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, New I	Delhi.					
4 M.C. Shukla and T.S. Grewal, Advanced Accounts Vol.II, S Chand & Sons, Delhi.	, New					
5 T.S. Reddy and A.Murthy, Corporate Accounting II, Margham Publishers, C	Chennai					
Reference Books						

1	B.Raman, Corporate Accounting, Taxmann, New Delhi
2	M.C.Shukla, Advanced Accounting, S.Chand, New Delhi
3	Prof. MukeshBramhbutt, Devi Ahilya publication, Madhya Pradesh
4	Anil kumar, Rajesh kumar, Advanced Corporate Accounting, Himalaya Publishing house, Mumbai.
5	PrasanthAthma, Corporate Accounting, Himalaya Publishing house, Mumbai.
NOT	E: Latest Edition of Textbooks May be Used
	Web Resources
1	https://www.accountingnotes.net/amalgamation/amalgamation-absorption-and-reconstruction-accounting/126
2	https://www.slideshare.net/debchat123/accounts-of-banking-companies

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	2	3	2	3	2	2
CO2	3	2	3	2	3	2	3	2	3	2	2
CO3	3	2	3	2	3	2	3	2	3	2	2
CO4	3	2	3	2	2	2	3	2	3	2	2
CO5	3	2	3	2	2	2	3	2	3	2	2
TOTAL	15	10	15	10	12	10	15	10	15	10	10
AVERAGE	3	2	3	2	2.4	2	3	2	3	2	2

3 – Strong, 2- Medium, 1- Low

SECOND YEAR- SEMESTER- IV											
CORE VIII –COMPANY LAW											
Subject	L	Т	Р	S	Credits	Inst.	СІА	Ma	rks	Total	
	8 5				5		25	EXI	ernai 75	10tai 100	
0230040	0 3			Lea	arning Obie	ctives	23		13	100	
LO1 To know Company Law 1056 and Companies Act 2012											
	To kno	1000000000000000000000000000000000000	npany . ndorsto	Law I	on the forme	tion of a co	2013				
		derstan	d the re	nunig	es of meeting	and resolu	ition				
L03 L04	To un To gai	n know	vledge	on the	procedure to	appoint an	d remove F	Direct	ors		
LO4	To gan	niliariz	e with	the var	ious modes o	of winding			.015		
Prerequis	ite: Sho	ould ha	ve stu	died C	ommerce in	XII Std	" p				
Unit					Contents				No. of	f	
									Hour	S	
	Introd	luction	to Co	mpany	y law				15		
	Compa	anies A	ct 201	3 – De	finition of a	Company,	Characteris	stics			
Т	of Cor	npany -	– Liftir	ng or P	ercing the C	Corporate V	eil – Comp	any			
1	Disting	ties									
	Partne	rships	- Cl		ation of C	ompanies	– Based	on			
	Incorp	oration	, Liabi	lity, N	umber of Me	embers, Col	ntrol.				
	Forma	ation of	I Com	pany	Dromotor	Incornerati	on Dooum	anto			
	ronna e-filin	$a = Me^{2}$	a Coll moran	ipany - ium of	= FIOIIIOLEI $=$	- Contents	$\Delta = \Delta teratic$	n -		15	
П	Legal	Effect	ts –	Article	s of Asso	ciation -	Certificate	of	-		
	Legal Effects – Articles of Association - Certificate of Incorporation – Prospectus – Contents - Kinds – Liabilities –									15	
	Share	Capita	ul – K	Linds -	– Issue – A	Alteration	– Dividen	d –			
	Deben	tures.									
	Meeti	ng									
	Meetin	ng and	Resolu	tion –	Types – Rec	juisites – V	oting & Po	oll –			
III	Quoru	m - Pr	oxy -	Resolu	tion – Ordir	nary & Spe	cial - Audi	it &]	15	
	Audito	ors –	Qualifi	cation,	, Disqualific	cation, App	pointment	and			
	Remo	val of a	n Audi	tor -	.						
	Mana	gemen		lminist	tration Dir	ators Ia	ant Docitio	n			
	Board	of Dire	& Au	Appo	intment/Per	noval Die	gai Positio	- III 			
	Direct	or Iden	tificati	- Appo on Nur	nber – Direct	orshins – P	owers – Du	n –			
	- Boar	rd Com	mittee	$s - Re^{1}$	lated Party T	ransactions	-Contract	t hv			
IV	One P	erson (Compa	nv - I	nsider Tradi	ng- Manag	ing Directo	r - r	15		
	Manag	ger –	Secreta	arial A	Audit – Adı	ninistrative	Aspects	and			
	Windi	ng Up	ig Up – National Company Law Tribunal (NCLT) –								
	Nation	al Con	npany	Law A	ppellate Tril	ounal (NCL	LAT) – Spe	cial			
	Courts	5.									
	Wind	ing up	_	_							
V	Meani	ng _]	Modes	– Co	ompulsory W	/inding Up	o – Volun	tary		15	
	Windi	ng Up	– Cons	sequen	ces of Windi	ng Up Ord	er – Power	s of		-	
	Tribur	nal – Pe	etition f	or Wi	$\frac{1}{1} \frac{1}{1} \frac{1}$	Company Li	quidator.			7.5	
1	1				IUIAL					13	
	Course Outcomes										
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CO1	Understand the classification of companies under the act										
CO2	Examine the contents of the Memorandum of Association & Articles of Association										
CO3	Know the qualification and disqualification of Auditors										
CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)										
CO5	Analyse the modes of winding up										
	Textbooks										
1	N.D. Kapoor, Business Laws, Sultan Chand and Sons, Chennai										
2	R.S.N. Pillai – Business Law, S.Chand, New Delhi.										
3	M.V. Dhandapani, Business Laws Sultan Chand and Sons, Chennai										
4	Shusma Aurora, Business Law, Taxmann, New Delhi										
5	M.C.Kuchal, Business Law, VikasPublication, Noida										
	Reference Books										
1	Gaffoor&Thothadri, Company Law, Vijay Nichole Imprints Limited, Chennai										
2	M.R. Sreenivasan, Business Laws, Margham Publications, Chennai										
3	KavyaAndVidhyasagar, Business Law, Nithya Publication, Bhopal										
4	S.D.Geet, Business Law Nirali Prakashan Publication, Pune										
5	PreethiAgarwal, Business Law, CA foundation study material										
NOTE: L	atest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.mca.gov.in/content/mca/global/en/acts-rules/companies- act/companies-act-2013.html										
2	https://vakilsearch.com/blog/explain-procedure-formation-company/										
3	https://www.investopedia.com/terms/w/windingup.asp										

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	3	3	2	3	3	2	2
CO2	3	2	3	2	3	3	2	3	3	2	2
CO3	3	2	3	2	3	3	2	3	3	2	2
CO4	3	2	3	2	3	3	2	3	3	2	2
CO5	3	2	3	2	3	3	2	3	3	2	2
TOTAL	15	10	15	10	15	15	10	15	15	10	10
AVERAG E	3	2	3	2	3	3	2	3	3	2	2

SECOND YEAR – SEMESTER – IV												
E	ELECTIVE IV -RELATIONAL DATABASE MANAGEMENT SYSTEM											
Subjec	t	т	т	р	C	Creadita	Inst.		Marks			
Code		L	1	r	3	Creans	Hours	CIA	Externa	l Total		
U23CC	P:	3				3	3	40	60	100		
G												
]	Learning Obj	jectives					
LO1	Gain Mar	n a g	ood u	nders	tandi	ng of the archi	tecture and	functioni	ng of Data	abase		
LO2	Und	lersta	and th	e use	of St	ructured Quer	y Language	(SQL) ar	nd its synt	ax.		
LO3	Ann	olv N	orma	lizatio	on tec	hniques to no	rmalize a da	itabase				
	Und	lersta	and th	e nee	d of t	ransaction pro	cessing and	learn tec	hniques fo	or		
LO4	cont	trolli	ng the	econs	equen	ces of concur	rent data ac	cess.				
Prerequ	isite:	Sho	ould h	ave s	tudie	d Commerce	in XII Std					
Unit						Contents				No. of		
Umt												
I	Intro	Database										
	Arc	hitec	ture.	ER M	lodel:	Building bloc	ks of ER D	iagram –	onents -			
	Rela	es – ISA										
II	Adv	Advantages										
	Data											
	Ano – Fu	omaly uncti	y Ional I	Deper	ndenc	y - Normaliza	ation – 1NI	F - 2NF	– 3NF –			
	BCI	NF. T	Fransa	action	Proc	essing – Datal	base Securit	y.				
	Intro	oduc	tion	to S	SQL:	Data Defin	nition Con	nmands	– Data			
IV	Mar Defi	initic	ation on Co	mma	mand nds –	- SELECT - Additional S	SELECT Q	uery Key	words –			
	Join UN	ing l ION	Datab – UN	ase T ION	ables. ALL	Advanced SQ – INTERSEC	L:Relation T - MINUS	al SET Oj	perators:			
	SQI	L Joi	n Ope	rators	s: Cro – Out	ss Join – Natu ter Join	ral Join – Jo	oin USINO	G Clause			
V	Sub	Que	eries a	and C	orrela	ited Queries:	WHERE -	IN – HA	VING –			
	AN Nun	Y an neric	d ALl <u>F</u> unc	_ – Fl : <u>ti</u> on -	xOM. – Strii	SQL Function –	ns: Date and Conversion	a Time Fu	Inction –			
						TOTAL						

	Course Outcomes
CO1	Describe basic concepts of database system
CO2	Design a Data model and Schemas in RDBMS
CO3	Competent in use of SQL
CO4	Analyse functional dependencies for designing robust Database
	Textbooks
1	S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Management System", Springer International Edition 2007.
	Reference Books
1	Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition.
2	Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole Publications 2014, 2 nd Edition.
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1	https://nptel.ac.in/courses/106106093/
2	https://nptel.ac.in/courses/106106095/
3	NPTEL & MOOC courses titled Relational Database Management Systems

SECOND YEAR – SEMESTER - IV										
	ELECTIVE - IV: INTRODUCTION TO DATA SCIENCE									
Subjec	et	т	т	р	S	Credits	Inst.		Marks	
Code	:	L	1	1	5	Creatis	Hours	CIA	External	Total
U23CC H	CP: 3 3 3 40 60 10								100	
				I]	Learning Obj	jectives	1		
LO1	LO1 To introduce the concepts, techniques and tools in Data Science									
LO2	LO2To understand the various facets of data science practice, including data collection and integration, exploratory data analysis, predictive modelling, descriptive modelling and effective communication.									
Prerequ	isite	: Sho	ould h	ave s	tudie	d Commerce	in XII Std			
Unit						Contents	5]	No. of Hours
Ι	Ir B da	ntrod enefit ata ec	uction is and osyste	n: uses em an	– Faco d data	ets of data – I a science	Data science	process -	- Big	
II	T O E	he Da vervie xplora	ata sc ew – 1 atory 1	ience resear Data	proc ch go Analy	e ss: als - retrieving sis – Model b	g data - tran uilding - Da	sformatio ata Visual	n – ization	
III	A M Su	lgori t Iachir uperv	t hms: ne lear ised –	rning Unst	algori 1pervi	thms – Mode sed - Semi-su	lling proces pervised	s – Types	_	
IV	Ir H A	n trod adooj CID -	uction o fram – CAI	n to H newor P – BA	ladoo k – S _l ASE –	p: park – replacin - types	ng MapRed	uce– NoS	QL –	
V	C Pr pr at	ase S redict repara itoma	tudy: ion of ition - tion	Dise explo	ase - S pratio	Setting researd n - Disease pr	ch goals - D ofiling - pre	eata retrieves	val – and	
						TOTAL				
	1					Course Out	comes			
CO1	To dis	descri tributi	ibe wh ons, fi	at Da t a mo	ta Scie odel to	ence is, what St data and use to	atistical Infer ools for basic	rence mear analysis a	ns, identify p nd commun	probability ication

CO2	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
CO3	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
CO4	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
CO5	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
	Textbooks
1	Davy Cielen, Arno D. B. Meysman, Mohamed Ali, "Introducing Data Science", manning publications 2016
	Roger Peng, "The Art of Data Science", lulu.com 2016.
	MurtazaHaider, "Getting Started with Data Science – Making Sense of Data with Analytics", IBM press, E-book.
	Reference Books
1	Davy Cielen, Arno D.B. Meysman, Mohamed Ali, "Introducing Data Science: Big Data, Machine Learning, and More, Using Python Tools", Dreamtech Press 2016.
2	Annalyn Ng, Kenneth Soo, "Numsense! Data Science for the Layman: No Math Added", 2015,1st Edition.
3	Cathy O'Neil, Rachel Schutt, "Doing Data Science Straight Talk from the Frontline", O'Reilly Media 2013.
4	Lillian Pierson, "Data Science for Dummies", 2015 II Edition
NOTE:	Latest Edition of Textbooks May be Used

SECOND YEAR – SEMESTER - IV									
SKILL ENHANCEMENT COURSE- 6: INTRODUCTION TO LIFE SKILLS									
Subject	т	т	р	S	Crodits	Inst.	Marks		
Code	L	I	I	3	Creans	Hours	CIA	External	Total
U23CC4S6	2				2	2	40	60	100
Learning Objectives									

LO1	To impart the knowledge wellness and mental health	
LO2	To understand the interpersonal skills	
	To gain knowledge on employability skills	
L04	To enable the students to acquire knowledge numerical skills	
LU5 Proroqui	isite: Should have studied Commerce in XII Std	
Unit	Contents	No. of Hours
	PERSONAL SKILLS	nouis
	1. Wellness and Mental Health Skills -Conving with	
	Emotions	
	a. Managing emotions (Mindfulness/ Managing& Controlling	
	anger stress anxiety Peer pressure/ Depression & Suicidal	
	tendencies – signs & prevention) – Resilience/ Coping strategies	
Ι	h Emotional Quotient	6
	2. Health and Hygiene/ Self Care	
	a. Food and Nutrition/ Dietary guidance and lifestyle/ Calories	
	count/Healthy weight range/ Simple Recipes	
	b Staving healthy and fit –Importance of Sleep/ Health risk /	
	Basic First Aid	
	SOCIAL AND INTERPERSONAL SKILLS	
	1 Effective communication – barriers to communication –	
	oratorical skills- need for listening skill	
	2 Building Relationship skills	
	a Healthy Relationship - Parents siblings (sibling rivalry)	
	friends (peer pressure), in place of study and work	
II	3 Media Influence -Issue and concerns	6
	4 Basic Etiquette	
	a Phone Etiquette / Table Manners / Giving and accepting	
	Compliments	
	5 Leadership skills / Conflict management / Team work /	
	Empathy	
	EMPLOYABILITY SKILLS	
	1. Study skills and memory technique / Examinations	
	preparation	
	2. Priorities & Goal setting	
	3. Time management – Time Log	
III	4. Career planning, importance, and steps	6
	5. Interview – types of Interviews (face to face, online,	
	telephonic etc. preparation (FAO in interviews. Attire &	
	Accessories etc), dos and don'ts	
	6. Job application and resume	
	NUMERICAL SKILLS	
IV	1. Creative and critical thinking / Lateral thinking & Problem	6
1 *	solving	v

	2. Aptitude and Numerical Ability							
	3. Need and ways to save money – Budgeting, Investment							
	4. Calculating discount percentages and promotional offers							
	5. Tax calculation							
	ACTIVITIES AND OUT BOUND TRAINING							
	a Case study							
	h Role play							
	c Sharing experience							
	d Audio – Visual models							
	e. Connect to your community							
V	f Contributing to your community	6						
	g Puzzles and teasers							
	h Self-assessment Questionnaires							
	i Me charts							
	i. Field trips and report							
	J. There is the report							
l	2 Work Book							
	TOTAL	30						
CO	Course Outcomes							
CO1	Acquire knowledge on managing mental and personal fitness.							
CO2	Build social and interpersonal skills							
CO3	Relate the skills required for employability.							
CO4	Appraise the nuances required for developing numerical skills							
CO5	Demonstrate various activities that enhance life skills.							
	Textbooks							
1	Sophrosyne (A Primer on Life Skills for Undergraduate Students))						
2	Work Book							
	Reference Books							

SECOND YEAR – SEMESTER – IV										
SEC – 7 MARKETING to SHGs										
Subject Code			Marks							
	L	Т	Р	S	Credits	Inst. Hours	CIA	Externa	al Total	
U23CC 4S7	2				2	2	25	75	100	
	Learning Objectives									
LO1	LO1 To comprehend the key concepts of S-L and differentiate the community service and Service- Learning									
LO2	To Discuss the core concepts in Marketing and gain knowledge in consumer behaviour.									
LO3	To De	emonstra	te the Pro	oduct Lif	e Cycle and o	capture insig	ghts about str	ategies in p	backaging.	
LO4	То Ар	ply on tl	he effecti	veness o	of advertising	and the Phy	vsical Distrib	ution Strate	egies	
LO5	To An	alyze the	e marketi	ing resea	rch in depth	and also rec	ent developn	nents in Ma	rketing.	
Prerequi	sites: S	should h	ave stud	ied Con	nmerce in XI	II Std				
Unit					Contents				No. of Hours	
Ι	ContentsNot of HoursIService-Learning – Definition, difference between community service and service-learning, Principles; Whole Person Education. Identifying Community Needs, Community Partners, Reflection, Reciprocity. Public Dissemination; Understanding of community dynamics. Project Planning Stages and report6						6			
Π	Introd concep compo positio	luction : pts and onents ar oning; Co	Nature, its evol nd their in onsumer	scope a ution; npact on Behavio	nd importan Marketing e marketing do r; Consumer	ce of marke environment ecisions; Ma decision ma	eting; Marke – macro a arket segmen aking proces	eting core and micro tation and s.	6	
III	Produ Classi Cycle	ict Dec fications and Mar	isions: 1 , Produc keting M	Meaning t Strateg lix Strate	– Product gies, New Pro egy,	Planning oduct Devel	– Policies lopment, Pro	, Product oduct Life	6	

	Branding, Labeling and Packaging Strategies, Price: Pricing Objectives – Factors, Methods and Procedure Pricing Methods and Strategy.	
IV	Promotion : Promotion Mix – Advertisement ,kinds of advertisement, Message , Copy ,Advertisement Budgeting , Measuring Advertisement Effectiveness , Media Strategy , SalesPromotion, Personal Selling and Publicity.	6
	Physical Distribution : Distribution Mix – Managing Channel – ntermediaries – Transport and Warehousing.	
	Marketing Research: Meaning and scope of marketing research; Marketing research process. Issues of Marketing : Social, ethical and legal aspects of marketing;	
V	Contemporary topics in Marketing in Practice : Marketing of services; International marketing; Green marketing; Cyber marketing; Customer Relationship marketing, Rural Marketing, Digital Marketing and other developments of marketing.	6
	Total	30
Theory 1	100%	
СО	Course Outcomes	
CO1	Understanding the difference between S-L and other community services	
CO2	Identify the components of Marketing environment	
CO3	Describe the Product Classifications.	
CO4	Summarize the Channels of Intermediaries	
CO5	Describe the importance of Digital Marketing.	
	Textbooks	
\mathbf{A}	Principles of Marketing - Philip Kotler, Gary Armstrong, Published January 1st Pearson College Div 12th edition,.	2007 by
\checkmark	Principles of Marketing - Kavita Sharma, Swati Aggarwal Published July, 2021 b nd edition.	y Taxmann , 2
	Reference Books	
1.	Marketing Management, R.S.N.Pillai & Bagavathi, 2010, S. Chand & Sons, Fou Edition.	rth Reprint
2.	Sales and Distribution Management, Richard R. Still, Edward W. Cundiff, et al. Pearson publications	26 July 2017
NOTE: 1	Latest Edition of Textbooks May be Used	
	Web Resources	
1.	https://nwdistrict.ifas.ufl.edu/4hn/2021/06/16/the-difference-between-service-lea	rning-and-

	https://www.interaction-design.org/literature/article/how-to-use-the-product-life-
2.	cycle#:~:text=The%20product%20life%2Dcycle%20is,the%20product%20in%20the%20mark
	etplace.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	-	-	-	-	2	3	2	3	3
CO2	3	2	3	2	3	3	3	-	-	3	3
CO3	3	3	-	-	3	-	-	3	-	-	3
CO4	3	-	3	2	3	-	-	3	3	3	3
CO5	3	-	2	-	-	2	-	2	-	-	3
TOTAL	15	8	8	4	9	5	5	11	5	9	15
AVERAGE	3	1.6	1.6	7.8	1.8	1	1	2.2	5.8	1.8	3

			TH	IRD Y	TEAR – SEN	AESTER -	V						
	CORE – IX: COST ACCOUNTING – I Subject m p q m Marks												
Subjec	bject L T P S Credits Inst. Marks Gode												
Code		T	Р	S	Credits	Hours	CIA	Externa	l Total				
U23CC5	09 5				4	5	25	75	100				
				Lea	arning Obje	ectives			l				
L01	To unc	lerstan	d the v	arious	concepts of	cost accoun	ting.						
LO2 To prepare and reconcile Cost accounts.													
LO3 To gain knowledge regarding valuation methods of material.													
LO4	To fan	niliarizo	e with	the dif	ferent method	ods of calcu	lating labo	ur cost.					
LO5	To kno	ow the	apporti	ionmen	t of Overhea	ads.							
Prerequi	site: Sho	ould ha	ve stu	died C	ommerce in	XII Std							
Unit					Contents				No. of				
					contents				Hours				
	Introdu	iction of	of Cost	t Accou	unting			~					
T	Definiti	on-Nat	ure an	d Scop	e – Principl	es of Cost	Accounting	g – Cost					
l	Accoun	ting a	nd Fi	nancia	l Accountin	ng - Cost	t Account	ing Vs	15				
	Management Accounting –Installation of Costing System –												
	Classifi	cation (DI COSI	ts - Cos	st Centre– Pi	ofit Centre.	•						
	Cost Sheet and Methods of Costing												
II	Prepara		Cost S	sheet -	Tenders & C	Luotations	- Reconcili	ation of	15				
	Cost and	d Finar	ICIAI A	ccount	s –Unit Cost	ing-Job Co	sung.						
	Materia	al Cost	ing										
	Materia	I Contr	ol – M	leaning	; and Object	ives – Purcl	hase of Ma	terials –					
III	EOQ –	Stores	Record	ls – Re	eorder Level	s - ABC A	Analysis - 1	Issue of	15				
	Materia	ls –Me	thods	of Issu	e – FIFO –	LIFO – Ba	se Stock M	ethod –					
	Specific	Price	Metho	d – Sin	nple and We	ighted Aver	rage Metho	d.					
	Labour	· Costii	ng										
	Direct 1	Labour	and I	ndirect	Labour – T	ime Keepi	ng – Meth	ods and					
IV	Calcula	tion of	Wage	e Payn	nents – Tin	ne Wages	- Piece W	/ages –	15				
1,	Incentiv	ves – L	Differei	nt Met	hods of Inco	entive Payr	nents - Idl	e time-	10				
	Overtin	ne – La	bour T	urnove	r - Meaning	, Causes and	d Measurer	nent.					
	Overbe	ade Co	sting										
	Overhe	aus cu ads —	Defi	nition	– Classif	rication -	Allocatio	n and					
	Apporti	onmen	t of Ov	rhead	s – Basis of	Apportion	nent – Prim	ary and					
V	Second	arv Di	stributi	on -	Absorption	of Overhea	nds – Met	hods of	15				
	absorpti	ion Prei	oaratio	n of Ov	verheads Dis	tribution St	atement – N	<i>Machine</i>					
	Hour Ra	ate $-C$	omputa	ation of	f Machine H	our Rate.							
	TOTAL 75												
THEOR	THEORY 20% & PROBLEMS 80%												
	Course Outcomes												
CO1	Remem	ber and	l recall	the va	rious concer	ots of cost a	ccounting						
CO2	Demons	strate th	ne prep	aration	and reconci	liation of c	ost sheet.						
CO3	Analyse	the va	rious v	aluatic	on methods of	of issue of n	naterials.						
CO4	Examin	e the di	ifferen	t metho	ods of calcul	ating labour	r cost.						
CO5	Critical	ly evalu	ate the	e appoi	tionment of	Overheads.							

	Textbooks
1	Jain S.P. and Narang K.L, Cost Accounting. Kalyani Publishers, New Delhi
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S.
2	Chand & Co, New Delhi,
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand Publications,
5	New Delhi
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications,
т	Chennai
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi
	Reference Books
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision
1	Making, 1991, McGraw–Hill, New York.
2	Jain S.P. and Narang K.L. Cost Accounting, Latest Edition.2013, Kalyani
2	Publishers, New Delhi,
3	V.K.Saxena and C.D.Vashist, Cost Accounting, Sultan Chand publications, New
5	Delhi
4	Murthy A &GurusamyS,CostAccounting,Vijay Nicole Imprints Pvt. Ltd.
4	Chennai
5	Prasad.N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Kolkata
NOTE:]	Latest Edition of Textbooks May be Used
	Web Resources
1	https://study.com/learn/lesson/cost-accounting-principles-examples-what-is-cost-
1	accounting.html
2	https://www.accountingtools.com/articles/what-is-material-costing.html
3	https://www.freshbooks.com/hub/accounting/overhead-cost

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	2	2	2	2	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	2
CO3	3	2	3	2	2	2	2	2	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	2	3	2	2	2	2	2	3	2	2
TOTAL	15	10	13	10	10	10	10	10	15	10	10
AVERAGE	3	2	2.6	2	2	2	2	2	3	2	2

			TH	IRD Y	YEAR – SEN	IESTER -	V					
CORE – X: BANKING LAW AND PRACTICE Subject I I I Marks												
Subject	т	Т	D	S	Credite	Inst.		Marks				
Code	L	L	1	B	Cleuits	Hours	CIA	External	Total			
U23CC51	0 5				4	5	25	75	100			
				Lea	arning Obje	ectives						
LO1	To he	lp the s	student	s unde	rstand vario	us provisio	on of Bank	ing Regulat	ion Act			
	1949 a	applical	ble to b	anking	g companies	including c	ooperative	banks				
LO2	To tra	ce the e	evolutio	on of c	entral bank c	concept and	prevalent	central bank	ing			
	system	n aroun	d the w	vorld a	nd their roles	and functi	ion					
LO3	To th	row lig	ght on	Cent	ral Bank in	India, its	formation	n, nationaliz	ing its			
	and industry, role in financial inclusion											
	anu m	and industry, role in financial inclusion										
L04	To understand how capital fund of commercial banks, objectives and process											
201	Asset securitization etc.											
LO5	To explore practical banking systems relationship of bankers and customers,											
	crossi	crossing of cheques, endorsement etc.										
Unit					Content	ts			No. of			
									Hours			
Ι	Introd Histor Compo Develo Privato Financo Univer	luction y of B onents opment e Bank ce Bank rsal Ba	to Ba anking of Ind - Ban s, Fore s, Fore s - Ba nking-	nking - Prov lian Ba nking ign Ba nking Financ	visions of Ba anking - Ind Structure in nks, RRB, U System – Br vial Inclusion	anking Reg lian Bankin India – H JCB, Paym anch Bank	gulations Ang System Public Sec aent Banks ing - Unit	Act 1949 - -Phases of tor Banks, and Small Banking -	15			
Π	Centra Centra Comm Comm Corpo Role o	Universal Banking- Financial Inclusion Central Bank and Commercial Bank Central Banking: Definition –Need - Principles- Central Banking Vs Commercial Banking - Functions of Central Bank – Credit Creation. Commercial Banking: Definition - Functions – Personal Banking – Corporate Banking – Digital banking – Core Banking System (CBS) - Pale of Banking in Economic Devalorment										
III	Banki Types Accou e-state Custor Loans (NPA) influer	ng Pra of Ac ont- Jan ement mers –H & Ad - class) – Reponcing b	ctice Counts Dhan - Banl XYC no vances ificatio o Rate ank ler	CAS. Yojana ker Cu orms. –Lena on of a & Reva ading.	A – Types a - Account S ustomer Rel ding Source ssets and ind erse Repo Ra	s of Depos Statement v ationship s- Lending come recog ate - securit	sits - Ope rs Passbook - Special g Principles gnition / pries of lendi	ning Bank vs Types of s-Types of ovisioning ng-Factors	15			

	Negotiable Instruments Act Negotiable Instruments – Meaning & Definition – Characteristics -Types of negotiable instruments.	
	Crossing of Cheques– Concept - Objectives – Types of Crossing Consequences of Non-Crossing	
	Endorsement - Meaning-Components-Kinds of Endorsements-Cheques	
	payable to fictitious person Endorsement by legal representative –	
IV	Negotiation bank-Effect of endorsement-Rules regarding Endorsement.	15
	Paying banker - Banker's duty - Dishonouring of Cheques- Discharge	
	by paying banks - Payments of a crossed cheque - Refusal of cheques	
	Payment. Duties of Collecting Banker-Statutory protection under	
	section 131-Collecting bankers' duty –RBI instruction –Paying Banker	
	Ranking Ombudsman	
	Digital Banking	
	Meaning- Services - e-banking and financial services- Initiatives-	
	Opportunities - Internet banking Vs Traditional Banking	
17	Mobile banking–Anywhere Banking-Any Time Banking- Electronic	1 7
v	Mobile Wallets. ATM - Concept - Features - Types Electronic money-	15
	Meaning-Categories-Merits of e-money - National Electronic Funds	
	Transfer (NEFT), RTGS, IMPS, UPI and Digital currency – Differences	
	- Safety and Security in Digital Banking.	
	TOTAL	75
	Lourse Outcomes	a to
CO1	hanking companies including cooperative banks	
	Analyse the evolution of Central Banking concept and prevalent Central	
CO2	Banking system in India and their roles and function	
	Gain knowledge about the Central Bank in India, its formation, nationalized	zing its
CO3	organization structure, role of bank to government, role in promoting	
	agriculture and industry, role in financial inclusion	
CO4	Evaluate the role of capital fund of commercial banks, objectives and pro	ocess of
	Asset securitization etc	
CO5	Define the practical banking systems relationship of bankers and custom	lers,
	crossing of cheques, endorsement etc.	
	Curusamy S. Banking Theory: Law and Practice, Vijey Nicola Publ	iontion
1	Chennai	ication,
2	Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall Ind	lia
	Learning Private Ltd, New Delhi	
3	Gupta P.K. Gordon E.Banking and Insurance, Himalaya publication, Kol	lkata
4	Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication	n, Delhi
5	K P Kandasami, S Natarajan & Parameswaran, Banking Law and Practic Chand publication, New Delhi	e, S
	Reference Books	
1	B. Santhanam, Banking & Financial System, Margam Publication, Chem	nai
2	KataitSanjay, Banking Theory and Practice, Lambert Academic Publishi	ng,
3	Henry Dunning Macleod, The Theory And Practice Of Banking, Hard Pr Publishing, Old New Zealand	ess

4	William Amasa Scott, Money And Banking: An Introduction To The Study Of Modern Currencies, Kesinger publication, USA							
5	NektariosMichail, Money, Credit, and Crises: Understanding the Modern Banking System Palgrave Macmillan London							
NOTE: L	NOTE: Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://www.rbi.org.in/							
2	https://businessjargons.com/e-banking.html							
3	https://www.wallstreetmojo.com/endorsement/							

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	3	2	2	2	3	3	2
CO2	3	2	2	2	3	2	2	2	3	3	2
CO3	3	2	3	2	3	2	2	2	3	3	2
CO4	3	2	2	2	3	2	2	2	3	3	2
CO5	3	2	3	2	3	2	2	2	3	3	2
TOTAL	15	10	13	10	15	10	10	10	15	15	10
AVERAG E	3	2	2.6	2	3	2	2	2	3	3	2

			TH	IRD Y	YEAR – SEN	IESTER -	V				
		Сон	RE – XI	I: INCO	OME TAX LA	W AND PRA	ACTICE- I				
Subject	-	T	р	G	Cara dita	Inst.		Ma	rks		
Code	L	I	P	3	Credits	Hours	CIA	Ext	ernal	Total	
U23CC51	1 5				4	5	40		60	100	
				Lea	arning Obje	ctives					
L01	To und	derstan	d the b	asic co	ncepts & def	initions un	der the Inc	ome '	Гах Ас	t,1961.	
LO2	To cor	npute t	he resi	dential	status of an	assessee ar	nd the incid	lence	of tax.		
LO3	To cor	npute i	ncome	under	the head sala	aries.	1 1	1	1 1	1	
LO4	To lea	rn the c	m Lou	ts of A	nnual value,	associated	deductions	and	the calc	culation	
1.05	To compute the income from Business & Profession considering its basic										
100	principles & specific disallowances.										
Prerequisit	e: Shou										
Unit	it Contents). of	
	Introd	luction		H(JUIS						
Ι	Introduction to Income Tax – History – Objectives of Taxation - Features of Income Tax – Meaning of Income – Types – Important Definitions Under the Income Tax Act –Types of Assessee – Income exempted under Section 10										
Ш	Reside Reside Compa Incider Reside	ential S ential S any – H nce of ential S	Status Status HUF – E Tax tatus a	 Res Basic and nd Inci 	sidential Sta Conditions – Residential dence of Tax	tus of an - Additiona Status –	Individua Il Condition Problems	ul – ns – on		15	
III	Incom Salary Perqui Gratui Salary	e from Incon sites – ty – Pe - Profi	Salar me - Kinds ension ts in Li	y Defin of Pe – Con ieu of S	ition – Al rquisites – Ty nmutation of Salary - Com	lowances ypes of Pro Pension – putation of	–Taxabilit ovident Fui - Deduction Salary Inco	y - nd - n of ome		15	
IV	Incom Incom Gross be let o Incom	e from e from Annua out Self e from	House House Value Occuj House	e Proper Proper e, Net A pied Pr Prope	erty rty –Basis of Annual Value operty – Dec rty.	Charge – A e - Let-out luctions – C	Annual Valu t vs Deeme Computatio	ue – d to n of		15	
V	Profits Incom Expen Undisc (Sec 6 of Acc Provis Incom	s and (e from ses Disclosed 9A, 69P counts ions for e) - C	Gains f Busin sallowe Incom B, 69C – Aud r Com omput	From B less or ed - C e & In , 69D) it of A puting ation o	Profession Profession General Dedu nvestments, – Compulso accounts of C Incomes on I f Income fro TOTAL	Profession – Allowab actions – I Unexplaine ory Mainter Certain Per Estimated I m Business	ble Expense Depreciatio ed expendi- nance of Bo sons – Spe Basis (Deen s or Profess	es – n – ture poks ecial med ion.		15	

	Course Outcomes
THEORY	20% & PROBLEMS 80%
CO1	Demonstrate the understanding of the basic concepts and definitions under the
COI	Income Tax Act.
CO2	Assess the residential status of an assessee & the incidence of tax.
CO3	Compute income of an individual under the head salaries.
CO4	Ability to compute income from house property.
CO5	Evaluate income from a business carried on or from the practice of a Profession.
	Textbooks
1	V.P. Gaur, Narang, Puja Gaur and Rajeev Puri - Income Tax Law and Practice, Kalyani Publishers, New Delhi.
2	T.S. Reddy and Hariprasad Reddy, Income Tax Law and Practice, Margham Publications, Chennai.
3	DinkarPagare, Income Tax Law and Practice, Sultan & Chand Sons, New Delhi.
4	H.C. Mehrotra, Dr.Goyal S.P, Income Tax Law and Accounts, Sahitya Bhavan Publications, Agra.
5	T. Srinivasan – Income Tax & Practice –Vijay Nicole Imprints Private Limited, Chennai.
	Reference Books
1	Hariharan N, Income Tax Law & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai
2	Bhagwati Prasad, Income Tax Law and Practice, Vishwa Prakasan. New Delhi.
3	Vinod K. Singhania, Students Guide to Income Tax., U.K.Bharghava Taxman.
4	Dr.Vinod K Singhania, Dr. Monica Singhania, Taxmann's Students' Guide to Income Tax, New Delhi.
5	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Practice, Sultan & Chand Sons, New Delhi.
NOTE: La	atest Edition of Textbooks May be Used
	Web Resources
1	https://cleartax.in/s/residential-status/
2	https://www.legalraasta.com/itr/income-from-salary/
3	https://taxguru.in/income-tax/income-house-properties.html

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	3	2	2	2	3	3	2
CO2	3	2	2	2	2	2	2	2	3	2	2
CO3	3	3	3	2	3	2	2	2	3	3	2
CO4	3	2	2	2	2	2	2	2	3	3	2
CO5	3	3	3	2	3	2	2	2	3	2	2
TOTAL	15	12	13	10	13	10	10	10	15	13	10
AVERAG E	3	2.2	2.6	2	2.6	2	2	2	3	2.6	2

			TH	IIRD	YEAR – SEI	MESTER	- V					
		CORE -	-XII : /	AUDIT	ING AND CO	ORPORATE	Governan	ICE				
Subie	ct _		-	a	~	Inst.		Marl	ks			
Code		Т	P	S	Credits	Hours	CIA	Exte	rnal	Total		
U23CC	5 5				4	5	25	7	5	100		
				L	arning Obj	ectives				L		
LO1	To ena	able stu	idents t	o unde	rstand proce	ss of auditi	ng and its c	lassifi	cation	1.		
LO2	Toimp	oart kno	owledge	e on in	ternal check	and interna	al control.					
LO3	To illu	istrate (the role	e of auc	litors in com	pany.						
LO4	To he	lp stud	ents un	Idersta	nd the frame	work, theo	ories and m	odels	of Co	rporate		
	Gover											
LO5	To pro	ovide in	isights	into th	e concept of	Corporate	Social Resp	onsibi	llity			
Prereq	uisite: S	isite: Should have studied Commerce in XII Std										
Unit Contents No												
	Introdu	iction	to And	liting					11	ours		
	Meanin	iting										
Ι	and Acc	Audit		15								
	– Scope	Profit		15								
	enterpri	ises and	l Non–	profit	Organization	S						
	Audit l	Proced	ures ai	nd Doo	cumentation		.					
т	Audit P	lanning	g - Au	dit Pro	gramme – Pi	ocedures -	Internal Au	1d1t -		15		
11	Internal Trade 1	l Contr	01 – In ctions	ternal Vorifi	Check Syste	m – Vouci sets and I	11ng – Casr	and its		15		
	Valuati	on		V CI III	cation of As	sets and L	launnies an	iu its				
	Compa	nv Au	ditor									
	Appoin	tment	and R	emova	l of Audito	ors – Rigl	nts, Duties	and				
III	Liabilit	ies of A	Auditor	-Aud	it Report - R	ecent Tren	ds in Audit	ing -		15		
	Informa	ation Sy	ystems	Audit	(ISA) – Audi	ting aroun	d the compu	iter –				
	Auditin	g throu	igh the	compu	iter - e-audit	tools.						
	Introdu	uction	to Cor	porate	Governanc	e	· · · ·	0				
	Concep	tual F	ramew	ork ol	Corporate	Governand	ce: Theorie	s &				
IV	Major	, Broa	ia Con rate S	limitee Scandal	es - Corpor ls in India	and Ab	nance Reic	orms.		15		
1 V	Govern	ance F	Problen	ns No	ticed in va	rious Cor	porate Fail	ures		13		
	Introdu	ction to	o Envir	onmen	it. Social and	Governan	ce (ESG -)	Code				
	of Conc	luct – I	Directo	rs and	Auditors	- /	· -	-				
	Corpor	rate So	cial Re	espons	ibility							
	Concep	t of CS	SR, Cor	porate	Philanthrop	y, Strategic	Relationsh	ip of		. –		
V	CSR wi	th Cor	porate S	Sustain	ability - CSF	and Busir	ness Ethics,	CSR		15		
	and Co	rporate	Gover	nance	- USK Provis	Sions under	r the Compa	anies				
	Act, 20	13 (380			$\frac{\mathbf{TOTAI}}{\mathbf{TOTAI}}$	- CSK FÜL	icy Kults			75		

	Course Outcomes										
CO1	Define auditing and its process.										
CO2	Compare and contrast essence of internal check and internal control.										
CO3	Identify the role of auditors in companies.										
CO4	Define the concept of Corporate Governance.										
CO5	Appraise the implications of Corporate Social Responsibility										
Textbooks											
1	Dinkar Pagare, Principles and Practice of Auditing, Sultan Chand & Sons, New Delhi										
2	B. N. Tandon, S. Sudharsanam&S.Sundharabahu, Practical Auditing, S.Chand& Sons New Delhi.										
3	Dr.T.R. Sharma, Dr. Gaurav Sankalp, Auditing & Corporate Governance, Sahithya Bhawan Publications, Agra										
4	ArunaJha, Auditing & Corporate Governance, Taxmann Publication Pvt. Ltd, New Delhi.										
	Reference Books										
1	Kevin Keasey, Steve Thompson & Mike wright, Governance & Auditing, Emerald Group Publishing Limited, Bingley										
2	Dr.T.R. Sharma, Auditing, Sahithya Bhawan Publications, Agra										
3	C.B.Gupta, NehaSinghal, Auditing & Corporate Governance, Scholar Tech Press, New Delhi.										
4	Shri. Vengadamani, Practical Auditing, Margham Publication, Chennai.										
NOTE	: Latest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.wallstreetmojo.com/audit-procedures/										
2	https://theinvestorsbook.com/company-auditor.html										
3	https://www.investopedia.com/terms/c/corp-social-responsibility.asp										

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	3	2	3	3	3	3	2
CO2	3	2	2	2	2	2	2	2	3	2	2
CO3	3	3	3	2	3	2	3	3	3	3	2
CO4	3	2	2	2	2	2	2	2	3	3	2
CO5	3	3	3	2	3	2	3	3	3	2	2
TOTAL	15	12	13	10	13	10	13	13	15	13	10
AVERAG E	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2.6	2

THIRD YEAR – SEMESTER – V											
ELECTIVE V- FINANCIAL MANAGEMENT											
Subject	t	L	Т	Р	S	Credits	Inst.		Mark	S	
Code	•	4	-	-	2	2	Hours	CIA	Extern	al T	<u>'otal</u>
023005:	A	4			T	3 oorning Ohi	4	25	/5		100
LO1	Та		d	h a aa	L.			_			
		Intro learn	the c	ne co anital	struc	01 Illiancial f	nanagement	•			
IO2 To rear the capital structure meeters.											
L03	To	learn	abou	t divid	lend 1	payment mod	els.	agoting			
LOI	То	unde	rstand	the r	leeds	and calculation	on of workin	g capital	in an org	anizati	on.
Prerequisi	ites:	Shou	ıld ha	ve st	udied	Commerce	in XII Std	<u>8 - F</u>			
TI						Contents				No. o	f
Unit										Hour	'S
Ι	Introduction Introduction I Meaning and Objectives of Financial Management – Functions of Financial Management. Finance - Sources of Finance-Role of Financial Manager - Financial Goals- Profit maximization Vs. 12 Wealth Maximization – Concept of Time Value Money –Risk and								2		
Π	Financial DecisionCapital Structure – Definition - Meaning- Theories- Factors determining Capital Structure – Various approaches of Capital structureIICost of Capital – Meaning – Factors determining cost of capital - Methods - Cost of Equity Capital – Cost of Preference Capital – Cost of Debt – Cost of Retained Earnings – Weighted Average (or) Composite Cost of Capital (WACC) Leverage – Concept –								2		
III	Investment Decision Capital Budgeting - Meaning - Process - Cash Flow Estimation Capital Budgeting Appraisal Methods: Traditional Methods - Payback Period - Accounting Rate of Return (ARR). Discounted Cash-flow Methods: Net Present Value (NPV) - Internal Rate of Return - Profitability Index										
IV	Div Mea – P Mo	iden aning rovis dels -	d Dec g – Div ions o - Walt	viden viden on Di ter's M	d Poli viden Model	cies – Factors d Payment ir l - Gordon's M	Affecting D Company Aodel – M&	Dividend I Law – E 2 <u>M Mode</u>	Payment Dividend	12	2
V	Working Capital Decision V Working Capital Cycle - Factors Influencing Working Capital - 12 Determining Working Capital - Management of Current Assets: Inventories, Accounts Receivables and Cash.										
						TOTAL				6	0
THEORY	′ 40 %	6 &]	PROI	BLEN	AS 60	%					
						Course Outc	omes				

C01	Recall the concepts in financial management.										
CO2	Apply the various capital structure theories.										
CO3	Apply capital budgeting techniques to evaluate investment proposals.										
CO4	Determine dividend pay-outs.										
CO5	CO5 Estimate the working capital of an organization.										
	Textbooks										
1 R.K. Sharma, Shashi K Gupta, Financial Management, Kalyani Publications, New Delhi.											
2	M.Y. Khan and P.K.Jain, Financial Management, McGraw Hill Education, Noida.										
3	I.M. Pandey, Financial Management, Vikas Publications, Noida.										
4	Dr.S.N. Maheshwari, Elements of Financial Management, Sultan Chand & Sons, New Delhi.										
5	Dr.Kulkarni and Dr. Sathya Prasad, Financial Management, Himalaya Publishing House, Mumbai.										
Reference Books											
1	Prasana Chandra, Financial Management, Tata McGraw Hill, NewDelhi.										
2	I.M. Pandey, Financial Management, Vikas Publishing, Noida.										
3	Khan & Jain, Financial Management, Sultan Chand &Sons, New Delhi.										
4.	A.Murthy, Financial Management, ,Margham Publications, Chennai.										
5.	J. Srinivasan and P. Periyasamy, Financial Management, Vijay Nicole Publishers, Chennai.										
NOTE: L	atest Edition of Textbooks May be Used										
	Web Resources										
1	https://efinancemanagement.com/financial-management/types-of-financial- decisions										
2	https://efinancemanagement.com/dividend-decisions										
3	https://www.investopedia.com/terms/w/workingcapital.asp										

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	3	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	3	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	2
TOTAL	15	12	13	10	15	10	13	13	15	10	11
AVERAG E	3	2.2	2.6	2	3	2	2.6	2.6	3	2	2.1

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V										
(ELECTIVE V): INDIRECT TAXATION										
Subject Co	de L	Т	Р	S	Credits	Inst. Hours	СІА	Marl Extern	ks nal	Total
U23CC5:I	B 4				3	4	25	75	Iui	100an
	ł			L	earning Obje	ectives		1		
LO1 To get introduced to indirect taxes										
LO2 To have an overview of Indirect taxes										
LO3	To be fa	amilia	the (CGST	and IGST A	ct				
LO4	To lear	n proc	edure	s unde	er GST					
LO5	To gain	know	ledge	abou	t Customs Du	ty.				
Prerequisit	e: Shoul	d have	e stud	lied (Commerce in	XII Std			I	
Unit					Contents				No Ho	. of urs
Ι	Introduction to Indirect TaxConcept and Features of Indirect Taxes - Difference betweenDirect and Indirect Taxes - Special Feature of Indirect Tax LeviesI- Contribution to Government Revenues - Role of IndirectTaxation - Merits and Demerits of Indirect Taxation - Reforms inIndirect Taxation - Introduction to Foreign Trade Policy (FTP)2023									
II	An Overview of Goods & Service Tax (GST) Introduction of Goods and Service Tax in India— Kelkar Committee - Constitutional Amendment - Goods and Service Tax: Concepts, Meaning, Significance, Features and Benefits - Important GST Common Portals – Taxes and Duties not Subsumed in GST – Rates of GST in India - Role of GSTN in Leader of GST – Glutier in Leader of GSTN in									
III	Implementation of GST - Challenges in Implementation of GST.CGST & IGST Act 2017Supply – Meaning – Classification – Time of Supply – Valuation –Voluntary – Compulsory – Input Tax Credit – Eligibility – Reversal – Reverse charge Mechanism – E–Way Bill - Various Provisions Regarding E-way Bill in GST – IGST Act - Export and Import of Goods and Services– Inter State Vs Intra State Supply – Place of Supply.– Anti Profiteering Rules – Doctrine of Unjust12									
IV	EndemindentProcedures under GSTRegistration under GST Law, Tax Invoice Credit and Debit Notes, Different GST Returns, Electronic Liability Ledger, Electronic Credit Ledger, Electronic Cash Ledger, Different Assessment under GST, Interest Penalty under GST, Mechanism of Tax Deducted at Source (TDS) and Tax Collected at Source (TCS), Audit under GST12									
V	Custom Custom Rules &	ns Act Duty: s Dut Exem	1962 Con y, Ty ption	cepts; pes o s.	Territorial W f Custom Du	Vaters - Higl ties – Valu	h Seas - I ation - B	Levy of aggage		12
					TOTAL					60

	Course Outcomes									
CO1	Acquaintance with Indirect tax laws									
CO2	Exposed to the overview of GST.									
CO3	Apply provisions of CGST and IGST									
CO4	Summarise procedures of GST									
CO5	Discuss aspects of Customs Duty in India									
	Textbooks									
1	Vinod K Singhania, Indirect Taxes, Taxman's Publications, New Delhi.									
2	Dr. H.C. Mehrotra & Prof .V.P Agarwal, Goods and Services Tax (GST),									
2	Sahitya Bhawan Publications, Agra.									
3	Rajat Mohan, Goods & Services Tax, Bharat Law Publications House, New									
5	Delhi.									
4	CA. Pushpendra Sisodia, Indirect Tax Laws, Bharat Publications, New Delhi.									
	Reference Books									
1	V.S.Datey, All About GST, Taxmann Publications, New Delhi.									
2	T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications,									
Z	Chennai.									

3	Study Material on GST - The Institute of Chartered Accountants of India /The								
5	Institute of Cost Accountants of India, Chennai.								
4	Guidance material on GST issued by CBIC, Government of India.								
NOTE:	NOTE: Latest Edition of Textbooks May be Used								
Web Resources									
	https://iimskills.com/goods-and-services-tax/#:~:text=GST-								
1	%20an%20acronym%20for%20Goods%20and%20Services%20Tax-								
	,etc.%2C%20to%20stand%20as%20a%20unified%20tax%20regime.								
2	https://tax2win.in/guide/gst-procedure								
3	https://www.cbic.gov.in/htdocs-cbec/customs/cs-act/cs-act-ch9								

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAG E	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.4

THIRD YEAR – SEMESTER - V											
ELECTIVE – VI :SOFTWARE ENGINEERING AND UML LAB											
Subject Co	ode	L	Т	Р	S	Credits	Inst.				
			-	-	2		Hours	CIA	External	Total	
U23CCP:	:K	2		2		3	4	40	60	100	
Learning Objectives											
LO1 To introduce the software development life cycles											
LO2	To introduce concepts related to structured and objected oriented analysis &										
LO3	To	sign c prov	co vide a	n insi	ght in	to UML and s	oftware test	ing techn	iques		
Prerequisi	te: Sh	nould	l hav	e stuc	lied (Commerce in	XII Std				
Unit	Unit Contonts N										
Cint						Content				Hours	
Ι	I Introduction – Evolution – Software Development projects – Emergence of Software Engineering.Software Life cycle models – Waterfall model – Rapid Application Development – Agile Model – SpiralModel										
II	Requ SRS	iirem – Fo	nent A	Analy: Syste	sis an m Spe	d Specification	on – Gather	ring and	Analysis –		
III	Softy – Lay Func	ware yerec tion	Desig d desi Orier Detai	gn – (gn – 2 nted I	Overv Appro Design	iew – Charact aches 1 – Structureo	eristics – C 1 Analysis -	ohesion a	& Coupling Structured		
IV	Obje case, State	ct M Clas	odelins, Int	ng usi ceracti	ing U ion, A ript	ML – OO con ctivity,	cepts – UM	L – Diag	rams – Use		
V	Codi Blac	ng & k-bo Testi	k Tes x, Wł ng, Si	ting - nite-bo moke	– cod ox, In testin	ing – Review tegration, g.	v – Docume	entation -	- Testing –		
			<u> </u>			TOTAI	_				
I					(Course Outco	omes				
CO1	The soft	e stuc tware	lents e usin	shoul g tool	d be a s	ble to specify	software re	quiremen	ts, design the	e	
CO2	То	write	e test	cases	using	different testi	ing techniqu	es.			
	<u> </u>					Textbook	5				
1	Raj	ib M	all, "I	Funda	iment	als of Softwar	e Engineeri	ng", PHI	2018, 5th Ec	lition.	

2	Roger S. Pressman, "Software Engineering - A Practitioner's Approach", McGraw Hill 2010, 7thEdition.										
	Reference Books										
1	Pankaj Jalote, "An Integrated Approach to Software Engineering", Narosa Publishing House 2011,3rd Edition.										
NOTE: Lat	est Edition of Textbooks May be Used										
	Web Resources										
1	NPTELonlinecourse–SoftwareEngineering–https://nptel.ac.in/courses/106105182/										

UML Lab Common for both Electives in semester V	Core - Core -S5EC1/2L							
Credits 4	Lecture Hours:5 per week							
 Learning Objectives: (for teachers: what they have to do in To get familiarized to the usage of UML tool kit. To understand the requirements of the software and subsequent phases of the software development To develop the ability to verify and validate their de 	n the class/lab/field) to map them appropriately to signs							
Course Outcomes: (for students: To know what they are going to learn)								

CO1: Students must be able to analyse and design the problem at hand.

CO2: Students should be able to use UML tools for the designing the software and test thecorrectness and soundness of their software through testing tools.

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

- a. Library Management System
- b. Automatic Teller Machine
- c. Student Information Management
- d. Matrimony Service
- e. Stock Management System

Extended	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –
Component	CSIR / GATE / TNPSC / others to be solved (To be discussed during
	the Tutorial hour)

Skills acquired	Knowledge,	Problem	Solving,	Analytical	ability,	Professional
from the	Competency,	Profession	al Commu	nication and	Transferra	able Skill
Course						

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from	Knowledge, Problem Solving, Analytical ability, Professional
the	Competency, Professional Communication and Transferrable
Course	Skill

Learning Resources:

Recommended Texts

- 1. Roger D. Peng," R Programming for Data Science ", 2012
- Norman Matloff, "The Art of R Programming- A Tour of Statistical Software Design", 2011

Reference Books

- Garrett Grolemund, Hadley Wickham, "Hands-On Programming with R: Write Your Own Functions and Simulations", 1st Edition, 2014
- 2. Venables , W.N., and Ripley, "S programming", Springer, 2000.

THIRD YEAR – SEMESTER – V											
(ELECI	(ELECTIVE – VI):OBJECT ORIENTED ANALYSIS AND DESIGN AND UML LAB										
Subjec	et	LT		Р	S	Credits	Inst.		Marks		
Code	:						nours	CIA	External	Total	
U23CCI	P:L 2 2 3 4 40 60					60	100				
					I	earning Obj	ectives				
LO1 To make aware of the software requirements, design the software using to											
LO2	LO2 To be acquainted with the writing of test cases using different testing										
Prerequi	site: S	Shou	ld ha	ve stı	ıdied	Commerce in	n XII Std				
Unit						Content	s			No. of Hours	
I Object Orientation – System development – Review of objects - inheritance - Object relationship – Dynamic binding – OOSD life cycle – Process – Analysis – Design – prototyping – Implementation – Testing- Overview of Methodologies											
II	Ram meth Dyna	baug odol amic	h m logy – mode	ethod - patte elling.	ology erns –	, OMT – 1 Unified appr	Booch meth oach – UMI	nodology, L – Class	Jacobson diagram –		
III	Intro infor Deve cons use c	oduct mati elopn truct cases	ion - on. O nent I ion-	UMI utline Proces refact	L – I ss: Ov oringj	Meta model erview of the patternstransn	- Analysis process-Inco nission-itera	and desi eption - E tive deve	gn - more laboration- elopment -		
IV	OO Acce	Desig ess la	gn ax yer –	ioms OOD	– Cla BMS	ss visibility – – Table – cla	refining att ss mapping	ributes – view laye	Methods – er		
V	Inter deple diag	actio oyme ram -	on dia ent · UMl	igram	-packa	age diagram- amming	state diagra	m-activit	y diagram-		
						TOTAI	1				
I						Course Outo	omes				
CO1	The soft	e stuc tware	lents e usin	shoul g tool	d be a s	ble to specify	software re	quiremen	ts, design the	e	
CO2	То	write	e test	cases	using	different test	ng techniqu	les.			
						Textbool	KS				

1	Ali Bahrami, "Object Oriented System Development", McGraw-Hill International Edition 2017.							
2	Martin Fowler, Kendall Scott, "UML Distilled", Addision Wesley							
3	Eriksson, "UML Tool Kit", Addison Wesley							
	Reference Books							
1	Booch G., "Object oriented analysis and design", Addison- Wesley Publishing Company 3 rd edition.							
2	Rambaugh J, Blaha.M. Premeriani, W., Eddy F and Loresen W., "ObjectOrientedModeling and Design", PHI							
NOTE: Latest Edition of Textbooks May be Used								

UML Lab Common for both Electives in semester V	Core - Core -S5EC1/2L
Credits 4	Lecture Hours:5 per week
 Learning Objectives: (for teachers: what they have to To get familiarized to the usage of UML tool k To understand the requirements of the software subsequent phases of the software development To develop the ability to verify and validate the 	o do in the class/lab/field) it. e and to map them appropriately to t eir designs
Course Outcomes: (for students: To know what they a CO1: Students must be able to analyse and design the p	are going to learn)

CO2: Students should be able to use UML tools for the designing the software and test thecorrectness and soundness of their software through testing tools.

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

- a. Library Management System
- b. Automatic Teller Machine
- c. Student Information Management
- d. Matrimony Service
- e. Stock Management System

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)							
Skills acquired from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill							

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from	Knowledge, Problem Solving, Analytical ability, Professional
the	Competency, Professional Communication and Transferrable
Course	Skill

Learning Resources:

Recommended Texts

- 3. Roger D. Peng," R Programming for Data Science ", 2012
- 4. Norman Matloff,"The Art of R Programming- A Tour of Statistical Software Design", 2011

Reference Books

- 3. Garrett Grolemund, Hadley Wickham,"Hands-On Programming with R: Write Your Own Functions and Simulations", 1st Edition, 2014
- 4. Venables , W.N., and Ripley, "S programming", Springer, 2000.

THIRD YEAR – SEMESTER - VI												
	CORE –XIII: COST ACCOUNTING – II											
Subject	T	Т	D	G	Cara dita	Inst.		Marks				
Code	L	I	P	Ъ	Credits	Hours	CIA	Exte	rnal	Total		
U23CC61	3 6				4	6	25	7:	5	100		
				Lea	arning Obje	ctives						
L01	To unc	lerstand	the st	andard	ls in Cost Ac	counting						
LO2	O2 To know the concepts of contract costing.											
L03	To be	familia	r with	the cor	ncept of proc	ess costing	•					
LO4	To lear	rn abou	t opera	ation c	osting.							
LO5	To gai	n insigl	nts into	stand	ard costing.							
Prerequis	ite: Sho	ould ha	ve stu	died C	ost Account	ing in V S	Sem					
Unit					Contents				No Ho). of Durs		
Ι	I Cost Accounting Standards An Introduction to CAS – Purpose of CAS – Advantages of CAS – Difference between CAS and FAR Regulations – Different Degrees of CAS Coverage – Cost Accounting Standards – Responsibility Accounting and Divisional Performance									18		
II	Job Co Definit Contra	osting, tions - acts – C	Batch Featur ost Plu	Costi es - A is Con	ng and Cont Comparison tract - Prepa	ract Costi - Calculat ration of C	ng ion of Prof ontract A/c	ït on	-	18		
III	Process Process Applic Process Treatm Abnor	s Cost s Costi ation o s Cost nent of mal Ga cts and	ing – N ng – N f Proc ting – Loss a in - C By Pro	Aeanin ess Co Prep and Ga oncept	g – Features sting – Fund paration of in : Normal t of Equivale	of Process amental Pr Process A and Abnor ent Product	Costing – cinciples of Accounts – mal Loss – cion – Joint			18		
IV	IV Operation Costing – Meaning – Preparation of Operating Cost Sheet – Transport Costing – Power Supply Costing–Hospital							Cost spital		18		
V	Standa Definit Estima Varian Varian	Standard Costing and Variance Analysis Definition – Objectives – Advantages – Standard Cost and Estimated Cost – Installation of Standard Costing System – Variance Analysis – Material, Labour, Overhead, and Sales								18		
	ΤΟΤΑ	L								90		
THEORY	20% 8	k PRO	BLEM	IS 80%	6							
				C	ourse Outco	mes						
CO1	Remem	ber and	l recall	standa	ards in cost a	ccounting						
CO2	Apply t	he know	wledge	in cor	ntract costing							
CO3	Analyze	e and as	ssimila	te con	cepts in proc	ess costing						
CO4	Underst stateme	and vand van	rious b	ases of	f classificatio	on cost and	prepare op	erating	cost			
CO5	Set up s	standard	ds and	analys	e variances.							

Textbooks								
1	Jain S.P. and Narang K.L. Cost Accounting. Kalyani Publishers. New Delhi.							
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S							
	Chand & CO, New Delin.							
3	New Delhi.							
1	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications,							
4	Chennai.							
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi.							
	Reference Books							
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision							
1	Making, New York, McGraw–Hill, Noida.							
2	Jain S.P. and Narang K.L. Cost Accounting, Kalyani Publishers, New Delhi.							
3	V.K.Saxena and C.D. Vashist, Cost Accounting, Sultan Chand publications, New							
5	Delhi.							
4	Murthy A & Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pvt. Ltd.							
4	Chennai.							
5	Prasad. N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Bangladesh.							
NOTE: I	NOTE: Latest Edition of Textbooks May be Used							
Web Resources								
1	https://www.economicsdiscussion.net/cost-accounting/contract-costing/32597							
2	https://www.wallstreetmojo.com/process-costing/							
3	https://www.accountingnotes.net/cost-accounting/operating-costing/17755							

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	3	3	2	3	3	3	3	3	2	2
CO2	3	3	3	2	2	3	2	2	3	2	3
CO3	3	3	3	2	3	3	3	3	3	2	2
CO4	3	3	3	2	2	3	2	2	3	2	2
CO5	3	3	3	2	3	3	3	3	3	2	3
TOTAL	15	15	15	10	13	15	13	13	15	10	12
AVERAG E	3	3	3	2	2.6	3	2.6	2.6	3	2	2.4

THIRD YEAR – SEMESTER – VI													
		С	ORE –	XIV: N	ANAGEMEN	T ACCOUN	NTING						
Subject	-		D		<i>a</i>	Inst.		Mar	KS				
Code	L	Т	Р	8	Credits	Hours	CIA	Exte	rnal	Total			
U23CC614	6				4	6	25	7	5	100			
				Lea	rning Ohiec	tives	1						
L01	Toun	derstan	d basic	s mana	gement acco	unting							
	To kn	ow the	aspects	of Fin	ancial State	nent Δnalv	reie						
	LO3 To familiarize with fund flow and cash flow analysis												
L03	LO3 To failinatize with future flow and cash flow analysis LO4 To learn about budgetary control												
L04 L05	To rea	n insig	hts into	maroi	inal costing								
Prereguisi	te· Shor	ld hav	e studi	ed Fin	ancial Acco	unting in]	[Semester						
Trerequisi		nu nu v	<u>e stuu</u>		Contents		<u>beinester</u>	•	N	o, of			
Unit					contents				H	ours			
	Introdu	iction	to Mar	agem	ent Account	ing							
	Manage	ement	Accou	nting	– Meaning	– Scope	– Import	ance-					
	Limitat	ions -	Manag	gement	Accounting	g Vs Cost	Accounti	ng –					
т	Manage	ement A	Accoun	ting V	s Financial A	ccounting.		U		10			
1	Analysi	e and	18										
	Signific	/sis –											
	Compar	rative	Statem	ents –	- Common	Size State	ement – 7	Frend					
	Analysi	s.											
	Ratio A	Analysi	S										
	Ratio A	nalysis	s: Mea	ning –	Advantages	– Limitati	ions – Typ	es of		10			
11	Ratios -	– Liqui	dity Ra	ttios –	Profitability	Ratios - Tu	irnover Rat	t105 –		18			
	Solven	cy Ra	tios —	Levera	age Ratios -	Preparati	on of Fina	incial					
	Stateme	Flow 8	m Kall	DS.	Analysis								
	Fullus	ction N	<i>L</i> Casin	riuw. g. of Fi	Anarysis unde Flow S	totomont A	scortainme	ont of					
	Flow of	f Funds	- Sche	dule of	f Changes in	Working (Scentalline Sanital-Adi	usted					
Ш	Profit a	nd Los	s Accou	unt - P	reparation of	Funds Flo	w Statemer	nt		18			
	Cash H	Flow S	tateme	nt: M	eaning – Ac	lvantages	– Limitatio	ons –		10			
	Preparation of Cash Flow Statement as per AS 3 –Cash Flow from												
	Operati												
	Budget	and B	udgeta	ry Co	ntrol								
IV/	Meanin	g – Pre	paratio	n of V	arious Budge	ets – Cash	Budget -			10			
1 V	Flexible	e Budg	et– Pro	duction	n Budget – S	ales Budge	et – Master			10			
	Budget – Budgetary Control – Benefits												
	Margir	nal Co	sting:	Meani	ng - Feature	es – Marg	inal Costir	ng vs					
	Absorp	tion Co	osting -	Fixed	Cost, Variab	ole Cost and	d Semi Va	riable					
	Cost- C	Contrib	ution-	Margir	nal Cost Equ	ation- P/V	⁷ Ratio - I	Break					
V	Even Po	IS.	18										
	Decisio	n Mak	ing: So	electio	n of a Prod	uct Mix -	- Make or	Buy					
	Decisio	n – Dis	continu	lance (of a product l	ıne – Chan	ge or Statu	s quo					
	– Limit	ing Fac	tor or l	хеу Ра	TOTAT					00			
THEODV	200/ P-	ρρηρ	TEME	900/	IUIAL					90			
	40 /0 X			0070	Course	Jutcomes							
C01	Remem	ber and	l recall	basics	in manager	ent accour	nting						
~ ~ •													
---	--	--	--	--	--	--	--	--	--	--			
CO2	Apply the knowledge of preparation of Financial Statements												
CO3	Analyse the concepts relating to fund flow and cash flow												
CO4	Evaluate techniques of budgetary control												
CO5	Formulate criteria for decision making using principles of marginal costing.												
	Textbooks												
1	Jain S.P. & Narang K.L. (2018) Cost and Management Accounting, Kalyani Publications,												
2	Rds. Maheswari, Cost and Management Accounting, Sultan Chand Sons Publications, New Delhi.												
3	Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publishers, Chennai.												
4	Jenitra L Mervin ,Daslton L Cecil, Management Accounting, Lerantec Press, Chennai.												
5	T.S.Reddy& Y. Hari Prasad Reddy, Management Accounting, MarghamPublications, Chennai.												
	Reference Books												
1	Chadwick – The Essence of Management Accounting, Financial Times Publications, England.												
2	Charles T.Horngren and Gary N. Sundem–Introduction to Management												
	Accounting, Pearson, Chennai.												
3	Accounting, Pearson, Chennai. Murthy A and GurusamyS, Management Accounting- Theory & Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai.												
3	Accounting, Pearson, Chennai. Murthy A and GurusamyS ,Management Accounting- Theory &Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India.												
3 4 5	Accounting, Pearson, Chennai. Murthy A and GurusamyS ,Management Accounting- Theory &Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai.												
3 4 5 NOTE: L a	Accounting, Pearson, Chennai. Murthy A and GurusamyS ,Management Accounting- Theory &Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai. atest Edition of Textbooks May be Used												
3 4 5 NOTE: La	Accounting, Pearson, Chennai. Murthy A and GurusamyS ,Management Accounting- Theory &Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai. atest Edition of Textbooks May be Used Web Resources												
3 4 5 NOTE: L 3	Accounting, Pearson, Chennai. Murthy A and GurusamyS ,Management Accounting- Theory &Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai. atest Edition of Textbooks May be Used Web Resources https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flow- analysis-accounting/13300												
3 4 5 NOTE: L 1 2	Accounting, Pearson, Chennai. Murthy A and GurusamyS ,Management Accounting- Theory &Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai. atest Edition of Textbooks May be Used Web Resources https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flow- analysis-accounting/13300 https://accountingshare.com/budgetary-control/												

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	3	2	2	2	3	2	3
CO3	3	2	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	3	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	11	13	10	15	10	13	13	15	10	12
AVERAG E	3	2.1	2.6	2	2	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - VI													
		COR	E – XV	: INCO	ME TAX LAV	w and Pra	CTICE – II						
Subjec	t I	Т	р	S	Credits	Inst.		Ma	rks				
Code			-	5	creates	Hours	CIA	Ext	ernal	Total			
U23CC6	15 6					6	25		75	100			
1.01	Toun	doraton	d provi	Lea	arning Obje	ctives							
	To kn	ow the	u provisi	ons for	r computation	pital gaills	e from othe	r sou	rces				
	To far	niliariz	e law r	elating	to set off an	d carry for	ward of los		nd ded	uctions			
LO3	from (Tross T	otal In	come.		la carry 101	ward of ios		inu ucu	uctions			
LO4	To lea	rn abou	it asses	sment	of individua	ls							
LO5	To gai	in know	vledge	about a	assessment p	rocedures.							
Prerequi	site: Sho	ould ha	ve stu	died F	inancial Acc	counting in	n I stSem						
- Unit	Unit Contents No. of												
Umt									Hours	8			
	Capita	l Gains	5 _		~	_							
Ι	Capital	Assets	– Tran	sfer –	Short term v	s Long tern	n capital ass	sets	1	18			
	- Comp	outation	of Ca	pital G	ains – Exen	nption unde	er Section 5	54,					
	J4D, J4D, J4EU, J4F, J4UA.												
	Charge	- FIUIII ability	- Com	nutatio	n of Incon	ng or meo e from Ot	her Source	S -					
II	Deduct	ions Al	lowed	– Club	bing of Incon	me – Conc	ept	.5]	18			
					0		- I -						
	Set Of	f and C	Carry	Forwa	rd of Losse	s and Ded	uctions Fr	om					
	Gross 7	Fotal II	ncome	-									
	Gross Total Income vs Total Income - Provisions for Set-off and									10			
111	Carry Forward of Losses (Simple Problems). Deductions U/S 80C,									lð			
	SUCC, SUCCE, SUCCE, SUCCE, SUD, SUDD, SUDDE,												
	80L, 8 80TTB	. and 80)U only	, 00L	LD, 000, 0		JUA, 0011	г <i>п</i> ,					
	Compu	itation	of Tot	al Inco	ome – Indivi	dual							
IV	Compu	tation of	of Tota	al Inco	me - Tax L	iability of	an Individu	als	1	18			
1.4	(Old re	gime vs	s New 1	regime		-			1	10			
	Incom	Tor A	uthor	ities									
	Admini	stration	n of In	come '	Tax Act – I	ncome Tax	Authoritie	s _					
	Powers	of CBI	DT - P	owers	of Income Ta	ax Officer -	· Procedure	for					
T 7	Assessi	nent –	Filing	of Retu	ırn – Due Da	ates of Filin	ng – Volunt	ary					
V	Filing -	- Retur	n of L	oss –	Belated Retu	ırn – Defe	ctive Retur	n –]	18			
	Signing	g of Ret	urn – I	Permar	nent Account	Number (l	PAN), e-P	AN					
	– Tax c	redit sta	atemen	t (26 A	(AS) and Annu	al Informa	tion Statem	ent					
	(AIS).												
	X7 A 064		DI	FCL 0.00	TOTAL				9) 0			
THEOR	Y 20% &	x PRO	BLEN	15 80%	6								

	Course Outcomes									
CO1	Remember and recall provisions on capital gains									
CO2	Apply the knowledge about income from other sources									
CO3	Analyse the set off and carry forward of losses provisions									
CO4	Learn about assessment of individuals									
CO5	Apply procedures learnt about assessment procedures.									
	Textbooks									
1	V.P.Gaur, Narang, Puja Gaur and Rajeev Puri- Income Tax Law and Practice, Kalyani Publishers, New Delhi.									
2	T.S. Reddy and Hariprasad Reddy, Income Tax Law and Practice, Margham Publications, Chennai.									
3	Dinkar Pagare, Income Tax Law and Practice, Sultan & Chand Sons, New Delhi.									
4	Mehrotra H.C, Dr.Goyal S.P, Income Tax Law and Accounts, Sahitya Bhavan Publications, Agra.									
5	T. Srinivasan – Income Tax & Practice –Vijay Nicole Imprints Private Limited, Chennai.									
Reference Books										
1	Hariharan N, Income Tax Law & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai.									
2	Bhagwati Prasad, Income Tax Law and Practice, Vishwa Prakasan, New Delhi.									
3	Vinod K. Singhania, Students Guide to Income Tax., U.K. Bharghava Taxman, New Delhi.									
4	Dr.Vinod K Singhania, Dr. Monica Singhania, Taxmann's Students' Guide to Income Tax, New Delhi.									
5	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Practice, Sultan & Chand Sons, New Delhi.									
NOTE	: Latest Edition of Textbooks May be Used									
	Web Resources									
1	https://www.investopedia.com/terms/c/capitalgain.asp									
2	https://www.incometaxmanagement.com/Direct-Taxes/AY-2021-									
2	22/assessment/1-assessment-of-an-individual.html									
3	https://www.incometax.gov.in/iec/foportal/									

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAG E	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.2

3 – Strong, 2- Medium, 1- Low

				THI	RD Y	EAR – SEM	IESTER – V	VI				
		E	LECT	IVE –	VII:	HUMAN RES	OURCE MAN	NAGEMEN	ЛТ			
Subject Co	ode	L	Т	Р	S	Credits	Inst.		Marks	1		
	•	5	-	-		2	Hours	CIA 25	External	Total		
023000:	A	3			L	s Parning Ohie	S	25	75	100		
01	m			.1								
		xplo	ore to	the as	· ·	relating of H	uman resou	rce mana	gement			
C2	Toeq	Juip	with	the va	arious	processes of	Recruitmen	t and Sel	ection			
C3	To b	be a	icqua	inted	with	Training me	ethods and	the cond	cept of Per	formance		
Appraisal												
C4 To learn about Industrial Relations												
C5	C5 To assimilate knowledge on employee welfare.											
Prerequisi	te: Sho	ould	have	e stud	ied C	commerce in	XII Std					
Unit		Contents N										
Ι	 Definition of HRM, Objectives – Importance – Nature- Scope, Role and Qualities of a HR Manager - Human Resource Planning - Meaning, Definition, Importance, Factors Affecting HRP, Process Involved in Human Resource Planning. Human Resource Information System (HRIS) - Job Analysis, Need for Job Analysis, Steps in Job Analysis, Job Description and Specification 											
II	Steps in 300 Analysis, 300 Description and Specification. RECRUITMENT AND SELECTION Definition – Objectives – Factors affecting recruitment – internal and external source of recruitment – Selection Process – Curriculum Vitae –Test- types– Kinds of employment interview – Medical Screening – Appointment Order									12		
III	Screening – Appointment Order. TRAINING AND DEVELOPMENT Induction – Training – Methods – Techniques – Identification of the training needs – Training and Development – Performance appraisal – Transfer – Promotion and termination of services – Career Development.								tion of rmance vices –	12		
IV	Indus Indus Settle of co Type	stria stria eme ollec es ar	al Dis al Dis entLat etive l ad eff	putes sputes oour I oargai ective	and s in Relationing- ness.	Settlements (India – Arb on – Functior Workers' par	Laws Exclu hitration – hs of Trade t ticipation in	ided) – S Adjudica Unions – i manage	Settling ttion – Forms ment –	12		

V	EMPLOYEE WELFARE Employee Welfare: Meaning, Objectives, Philosophy, Scope, Limitations, Types of Employee Welfare, Statutory and Non- Statutory Welfare Measures, and Labour Welfare Theories- Social	12
	Security, Health, Retirement & Other Benefits- Remuneration – Components of remuneration – Incentives – Benefits	
	TOTAL	60
CO	Course Outcomes	
CO1	Examine the role of HRM in the new ageorganisation and plan man p requirements and implement techniques of job design.	ower
CO2	Formulate action plans for employee Recruitment and Selection.	
CO3	Choose appropriate methods of Trainning	
CO4	Estimate, defend and handle legal compliance in HRM involving trade union disputes and employee retention.	
CO5	Formulate strategies for employee welfare.	
	Textbooks	
1	Ashwathappa, Human Resource Management, Tata McGraw-Hill Edu Noida.	ucation,
2	Mamoria, C.B. and Gaonkar, S.V, Personnel Management, Himalaya Publishing House, Mumbai.	
3	Sunil Lalla and Neha Shukla, Human Resource Management, Nirali F Publishers, Pune.	Prakashan
4	P.Subba Rao, Personnel and Human Resource Management, Himalay Publishing House, Mumbai.	a
	Reference Books	
1	L.M. Prasad, Human Resource Management, Sultan and Chand sons Publications, New Delhi.	
2	DeCenzo, D.A. and Robbins, S.P Human Resource Management, Wil	ey, India.
3	Dr.K.Sundar and Dr.J Srinivasan, Human Resource Development, Ma Publications, Chennai.	argham
4	Jane Weightman, Human Resource Management, VMP Publishers, M	Iumbai.
NOTE: La	test Edition of Textbooks May be Used	
	Web Resources	
1	https://hr.university/shrm/strategic-human-resource-management/	
2	https://www.investopedia.com/terms/c/collective-bargaining.asp	
3	https://www.yourarticlelibrary.com/human-resource-management-2/e welfare/employee-welfare/99778	employee-

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
C01	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.2

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER – VI												
		(ELE	CTIV	e VII) ENTREPRE	NEURIAL DI	EVELOPN	IENT				
Subject			_	~	~	Inst.		Marks				
Code	L	Т	Р	S	Credits	Hours	CIA	Externa	l Total			
U23CC6:E	B 5				3	5	25	75	100			
				L	earning Obj	ectives						
LO1	To kno	w the	mean	ing ar	nd characteris	stics of entre	epreneurs	ship				
LO2	To ider	ntify tl	ne var	ious t	ousiness oppo	ortunities	1	I				
LO3	To und	erstan	d the	Proce	ess of setting	up an enterp	orise					
LO4	To gai	n kno	wledg	e in	the aspects of	of legal Con	mpliance	of setting	g up of an			
	enterpr	ise										
LO5 To develop an understanding of the role of MSME in economic growth												
Prerequisit	e: Shou	ıld ha	ve sti	ıdied	Commerce i	in XII Std			NJ A			
Unit					Content	S			No. of			
	Introd		Hours									
Ι	Meaning of Entrepreneurship – Characteristics of Entrepreneurship – Types of Entrepreneurship – Self Employment – Difference between Entrepreneurship and Employment – Meaning o Entrepreneur – Traits – Classification – Functions – Entrepreneurial Scenario in India.											
Π	Design Idea G Design Differe Technic Opport	nities – vation – ools and Business	15									
III	Setting Process Sole Pr Firm – Form o Financi	g up o s of S copriet Joint of an E ial, Co	f an F etting orship Stock interpro- omme	Up a Up a p – Pa Com rise – rcial a	prise in Enterprise artnership – I pany – One I Feasibility St and Economic	– Forms of Limited Lial Man partner udy – Mark cal.	f an Ente bility Par ship – Cl teting, Te	erprise – tnership hoice of chnical,	15			
IV	Busine Introdu Market setting Modern	ss Mo iction Surv Up o n Soui	odel C – Cor rey – f an F rces o	Canva itents Func Enterp f Func	s and Formu of Project Re l Requireme orise – Regist ls.	ilation of P eport – Proj nt – Legal tration – Sc	Project R ect Descr Compli ource of I	eport iption – ance of Funds –	15			
V	MSMH Govern of MSM Govern MSME NSIC - Estates Genera	E's an ME fo ME fo Iment DI – NAI – Go tion P	d Sup Scher r Eco Orga DIC BARD overni rogra	port nes ai nomic nizati – Kh O, SIC ment mme	Institutions and Women E c Growth – N ons in Entre adi and Villa CVI, SFC, SI Schemes – 1 – Women En	ntrepreneur ASME – De preneurship age Industri DC, EDII, E Prime Mini trepreneurs	ship – Im efinition - p Develo ies Comm EPCCB. I ister Emp hip in Inc	portance - Role of pment – nission – ndustrial ployment lia.	15			
				(Course Outc	omes						

CO1	Identify the various traits of an entrepreneur							
CO2	Turn ideas into business opportunities							
CO3	Do feasibility study before starting a project							
CO4	Identify the sources of funds for funding a project							
CO5	Develop an understanding about the Government schemes available for women entrepreneurs							
Textbooks								
1	Jayashree Suresh, (Reprint 2017) Entrepreneurial Development, Margham Publications. Chennai.							
2	Dr. C.B. Gupta &Dr. S.S. Khanka (Reprint 2014).Entrepreneurship And Small Business Management, Sultan Chand & Sons, New Delhi.							
3	Charantimath Poornima, (Reprint 2014.), Entrepreneurship development-Small, Pearson Education, India.							
4	RajShankar,(Reprint2016),EntrepreneurshipTheoryandPractice,VijayNicoleand Imprints Pvt. Ltd, Chennai.							
5	Vasant Desai, (Reprint 2017).Dynamics of Entrepreneurial Development & Management Twenty Fourth Edition. Himalaya Publishing House. Mumbai.							

	Reference Books
1	Anil kumar, Poornima, Principles of Entrepreneurial development, Newage publication, Chennai.
2	Dr.A.K.singh, Entreprenuerial development and management, Laxmi publications, Chennai.
3	Dr. R.K. Singal, Entreprenuerial development and management, S.K.Kataria publishers, New Delhi.
4	Dr. M.C. Garg, Entrepreneurial Development, New Delhi.
5	E.Gordon, K.Natrajan, Entreprenuerial development, Himalaya publishing, Mumbai.
NOTE	: Latest Edition of Textbooks May be Used
Web F	Resources
1.	https://www.interaction-design.org/literature/topics/design-thinking
2.	https://www.bms.co.in/steps-involved-in-setting-up-of-an-enterprise/
3.	http://www.msme.gov.in/

	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
C01	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAG E	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

				TH	IRD Y	YEAR – SEN	AESTER -	VI			
(ELECTIVE – VIII): TALLY (PRACTICAL)											
Subject	Т		Т	Р	G	Cradita	Inst.	Marks			
Code		-	1	•	D	creatis	Hours	CIA	External	Total	
U23CCP:N	M		2	3		3	5	40	60	100	
					L	earning Obj	ectives	1			
LO1	Examination of general accounting applications as they apply to computerized financial records for eachstep of the accounting cycle to the completion of financial statements, as well as managementaccounting applications.										
Prerequisi	te: Sh	ou	ld ha	ve stı	ıdied	Commerce i	in XII Std				
						List of Exer	cises				
	1	•	Prepa	ratior	n of Ti	rial Balance -	preparation	of profit	t and loss		
	2		accou Intere	ints, E	Balanc mple	e sheet	interest ca	lculation	Setting		
	2. Interest simple, compound interest calculation. Setting ledger master.Interest report.										
	3. Receivable and payable management, meaning activating										
	bill wise details, alltypes of entries										
	4. Cost Centres and Category summary, cost centre breakup ledgers and group breakup outstanding receivable and										
			navah	ole in	u gre terest	receivable a	d navable.s	g receivant	cash and		
		-	fund	flov	w d	aybook lis	t of ac	count :	reversing		
			journa	als,op	tional	vouchers.					
	5	•	Budg	et Bu	dgetai	ry control cre	ation of bud	lget, grou	ip budget		
			Budg	etary	ledge	rcreation alto	eration of b	udget de	eletion of		
	6		Introc	a. luctio	n to	GST. G	etting star	ted wit	h GST.		
	_	,	Trans	ferrin	g Inp	out tax to G	ST,Interest	supply o	of goods,		
		0	GST	report	S						
	7	•	Record	rding	adva	nce entries,	Exports, In	nports, E	Exempted		
	8		Good Electi	s, Au ronic	Corr	merce Intro	duction T	i tax pay 'ax Coll	ected at		
	0	•	Sourc	e (TC	CS), P	roceduresfor	E-commerc	ce Operat	tor, Input		
		,	Tax C	Credit	: - Int	roduction, Ir	nportant Po	ints, Inp	utService		
	<u>^</u>		Distri	butor	S . C T			COURT	2 01		
	9	• •	Matel Taxab	ning (nle Pa	ot Inp ersons	out Tax Cree AnnualRet	11t, Keturns	, GSTR- iew of t	-2, Other he IGST		
			Act, (Overv	iew, (Other Provisi	ons.	iew UI l			
	1	0.	GST Provi	Porta der (C	l, Intr GSP),	oduction, GS UploadingIn	T Eco-syste voices	em, GST	Suvidha		

	TOTAL
	Course Outcomes
CO1	input journal entries, adjust entries and prepare financial statements for cash and accrual-based businesses
CO2	record vendor, customer, and inventory transactions essential for maintaining accounts payable, accounts receivable, and inventory subsidiary ledgers

				TH	IRD Y	YEAR – SEN	AESTER -	VI			
(ELECTIVE –VIII): R LANGUAGE											
Subject	Subject I		т	Р	s	Credits	Inst.	Marks			
Code			-			Cicuits	Hours	CIA	External	Total	
U23CCP:	N		2	3		3	5	40	60	100	
					L	earning Obj	ectives		I		
LO1	Aco	quire	e prog	ramm	ning sl	kills in core I	R Programm	ning			
LO2	Aco	quire	e Obje	ect-ori	iented	programmin	g skills in F	R Program	nming.		
LO3	Develop the skill of designing graphical-user interfaces (GUI) in R Programming										
LO4	Acquire R Programming skills to move into specific branches										
Prerequisi	te: S	Shou	ld ha	ve stu	ıdied	Commerce i	in XII Std				
	List of Exercises										

	1. Data In R								
	2. Reading And Writing Data								
	3. R And Databases								
	4. Dates								
	5. Factors								
	6. Subscribing								
	7. Character Manipulation								
	8. Data Aggregation								
	9. Reshaping DataBasics								
	10. The R Environment								
	11. Probability And Distributions								
	12. Descriptive Statistics and Graphics								
	13. One- And Two-Sample Tests								
	14. Regression And Correlation								
	15. Analysis Of Variance And The Kruskal–Wallis Test								
	16. Tabular Data								
	17. Power And The Computation Of Sample Size								
18. Advanced Data Handling									
19. Multiple Regression									
	20. Linear Models								
	21. Logistic Regression								
	22. Survival Analysis								
	23. Rates And Poisson Regression								
	24. Nonlinear Curve Fitting								
	TOTAL								
	Course Outcomes								
CO1	CO1 To understand the problem solving approaches								
CO2	CO2 To learn the basic programming constructs in R Programming								
001	To four the busic programming constructs in refrogramming								
CO3	To practice various computing strategies for R Programming -based solutions t								
	real world problems								
CO4	To use R Programming data structures - lists, tuples, dictionaries.								

CO5 To do input/output with files in R Programming

THIRD YEAR – SEMESTER - VI															
PCS- GENERAL AWARENESS FOR COMPETITIVE EXAMINATION															
Subj	ect I T P S Credits Inst. Marks														
Cod	e	L	L	1	3	Creatis	Hours	CIA	External	Total					
U23C0	C6G	2				2	2	25	75	100					
1		-				-	_			100					
Learning Ubjectives									d huilda						
LOI	experience for students as they grow into lifelong learners								a builds						
LO2	To build experiences for students as they grow into lifelong learners														
L02 L03	To k	now	the ba	sic co	oncept	ts of various of	liscipline	interioring i	currens.						
Prerea	uisite	s: Sh	ould	have	studi	ed Commerc	e in XII Std	1							
UNIT			0 4 2 4 7			Details		-		No. of					
										Hours					
	Indi	an Po	olity												
	Basi	cs co	oncep	ts- T	hree	organs of I	ndian gove	rnment (Executives,						
	Legi	slatur	e, Ju	dicia	ry), Ii	ntroduction to	o Indian Co	onstitutio	n – Salient						
Т	featu	ires o	of co	nstitu	tion,	Preamble, Fu	ındamental	rights, F	undamental	6					
1	dutie	es, D)irecti	ve F	Princip	oles of Stat	e policy,	Types of	f Majority,	U					
	Amendments to the Constitution, Basic structure Doctrine, Division of														
	subje	subjects between the union and the states local Governance, Elections in													
	India	a and	Elect	ion C	ommı	ssion, CAG.									
	Geo	grapi	1y	ftha .	would	Immontant C	anala Cult	fa Stuait	and massage						
	Majo	or oce dian I	ans o	I the v	ite Tr	-Important C	anais – Gui limatology	IS – Strait	s and passes						
	- III syste	me (s anu	ns II	World climat	ic classifica	– Aunosp tion – Ind	lian climate						
II	- In	dian	Mons	-3 - 3 - 3 - 3	– Indi	an's physical	features I	ndian Soi	1 types and	6					
	Dist	- mutan monstoon – mutan's physical leatures, mutan son types and Distribution – Importance Trade routes and projects. Indian naturals													
	vege	tatior	n – In	dian a	agricu	lture- Major	crops and it	ts distribu	tion, Indian						
	Industries and its Distribution.														
	Economy														
National Income – Inflation – Money and Ba						nd Banking	- Agricult	ure in India	ia						
III	– Union Budget – Planning in India – Poverty – Unemployment –									6					
	Inclusive Development and Development issues – Industrial polices –														
	Fina	ncial	Mark	ets.											
	Hist	ory	ndia	form	nation	of Indian Ma	tional Cono	TAGE M	orlay Minta						
	Nodern India – formation of Indian National Congress – Morley Minto Reforms, Revolutionary activities – World War Land India's Response														
	Hor	ne Rul	le lea		Mont	ague Chelmst	ord reforms	= Rowlet	t Act – Non						
IV	-Coe	opera	tion N	Jover Aover	nent -	- Simon com	nission and	Nehru Re	port – Civil	6					
	Disobedience Movement and Round Table conferences – Ouit India														
	Movement and Demand for Pakistan – Cabinet Mission – Formation of														
Constituents Assembly and partition of India.															
	Envi	ironn	nent a	and E	colog	y									
	Basic concepts – Ecology, Biodiversity- Food chain and food web – Bio														
V	Geo	Che	mical	Сус	eles –	Internationa	l Bio Div	ersity or	ganisations-	nisations- 6					
	International Conventions – Conferences and Protocol – Indian														
	Envi	ronm	ental	laws	and E	nvironment R	lelated organ	nisation		20					
	TOT	AL				<u>()</u>				30					
						Course Out	comes								

CO1	Develop board knowledge of the different components in polity
CO2	Understand the Geographical features across countries and in India
CO3	Acquire knowledge on the aspects of Indian Economy
CO4	Understand the significance of India's Freedom Struggle
CO5	Gain knowledge on Ecology and Environment

	Textbooks							
1	Class XI and XII NCERT Geography							
2	History – Old NCERT'S Class XI and XII							
	Reference Books							
1	M. Laxmi Kant (2019), Indian polity, McGraw-Hill							
2	Ramesh Singh (2022), Indian Economy, McGraw - Hill							
3	G.C Leong, Physical and Human Geography, Oxford University Press							
4	Majid Hussain- India Map Entries in Geography, GK Publications Pvt, Ltd.							
NOTE:	Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://www.freebookkeepingaccounting.com/using-excel-in-accounts							
2	https://courses.corporatefinanceinstitute.com/courses/free-excel-crash-course- for-finance							
3	https://www.youtube.com/watch?v=Nv_Nnw01FaU							