DHANRAJ BAID JAIN COLLEGE

(Autonomous)

(Owned & Managed Tamil Nadu Educational and Medical Foundation)

Rajiv Gandhi Salai, Jyothi Nagar, IT Corridor, Thoraipakkam, Chennai – 600097

Approved by the Government of Tamilnadu

Affiliated to the University of Madras

Co-Education

Re-Accredited with 'B+' Grade by NAAC

DEPARTMENT OF COMMERCE B.COM – COMPUTER APPLICATIONS



SYLLABUS WITH EFFECT FROM 2023-2024

Choice Based Credit System

Total No. of Semesters: 6

Total No. of Credits: 140

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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 B.Com. 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 GUIDELINES BASED REGULATIONS FOR UNDER GRADUATE PROGRAMME					
Programme:	B.COM., COMPUTER APPLICATION					
Programme Code:						
Duration:	UG - 3 years					
Programme Outcomes:	PO1: Disciplinary knowledge: Capable of demonstrating 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 herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise 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. PO4: Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of nonfamiliar 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 them with evidence and examples, and addressing opposing viewpoints.

PO6: Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict 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 to effectively engage in a multicultural society and interact respectfully 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 Specific Outcomes:

PSO1 - Placement:

To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply diverse frames of 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

Credit Distribution for UG Programmes

Sem I	Cre dit	Н	Sem II	Cre dit	Н	Sem III	Cre dit	Н	Sem IV	Cre dit	Н	Sem V	Cre dit	Н	Sem VI	Cre dit	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/ Disciplin e Specific	3	5
1.5 Elective I Generic/ Disciplin e Specific	3	4	2.5 Elective II Generic/ Disciplin e Specific	3	4	3.5 Elective III Generic/ Discipline Specific	3	4	4.5 Elective IV Generic/ Disciplin e Specific	3	3	5.5 Electiv e V Generi c/ Discipl ine Specifi c	3	4	6.5 Elective VIII Generic/ Disciplin e Specific	3	5
1.6 Skill Enhance ment Course SEC-1	2	2	2.6 Skill Enhance ment Course SEC-2	2	2	3.6 Skill Enhanceme nt Course SEC-4, (Entreprene urial Skill)	1	1	4.6 Skill Enhance ment Course SEC-6	2	2	5.6 Electiv e VI Generi c/ Discipl ine Specifi c	3	4	6.6 Extensio n Activity	1	-
1.7 Skill Enhance ment - (Foundati on Course)	2	2	2.7 Skill Enhance ment Course – SEC-3	2	2	3.7 Skill Enhanceme nt Course SEC-5	2	2	4.7 Skill Enhance ment Course SEC-7	2	2	5.7 Value Educat ion	2	2	6.7 Professio nal Compete ncy Skill	2	2
)						3.8 E.V.S.	-	1	4.8 E.V.S	2	1	5.8 Summ er Interns hip /Indust rial Trainin g	2				
	23	3		23	3		22	3		25	3		26	3		21	3 0

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

First Year – Semester-I

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	4
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

Semester-II

Part	List of Courses	Credit	No. of
			Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	4
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
		23	30

Second Year - Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	4
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	4
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	Semester	Semester	Semester	Semester	Semester	Semester	Total
	ı	II	III	IV	v	VI	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 Attendance and Class Participation	25 Marks				
External Evaluation	End Semester Examination	75 Marks				
	Total	100 Marks				
	METHODS OF ASSESSMENT					
Remembering (K1)	 The lowest level of questions require stude information from the course content Knowledge questions usually require identify information in the text book. 					
Understanding (K2)	•	olating and				
Application (K3)	 Students have to solve problems by using a concept learned in the classroom. Students must use their knowledge to exact response. 					
Analyze (K4)	 Analyzing the question is one that asks to break down something into its components. Analyzing requires students to identical causes or motives and reach configurations. 	ent parts. fy reasons				
Evaluate (K5)	 Evaluation requires an individual to make something. Questions to be asked to judge the value character, a work of art, or a solution to a Students are engaged in decision-making – solving. Evaluation questions do not have single right. 	of an idea, a problem. and problem				
Create (K6)	 The questions of this category challenge get engaged in creative and original thinking. Developing original ideas and problem solving. 	ng.				

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.

Value additions in the Revamped Curriculum:

Semester	Newly introduced Components	Outcome / Benefits
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.	 Instill confidence among students Create interest for the subject
I, II, III, IV	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 tools
III, IV, V & VI	Elective papers- An open choice of topics categorized under Generic and Discipline Centric	 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
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	Knowledge, Problem Solving, Analytical ability, Professional
the Courses	Competency, Professional Communication and Transferrable Skill

B.COM COMPUTER APPLICATION

Part	Course Code	Title of the Course	Credits	Hours								
	FIRST YEAR											
		FIRST SEMESTER										
Part I		Language – Tamil	3	6								
Part II		English	3	4								
Part III		Core Paper I -Financial Accounting I	5	5								
Part III		Core Paper II - Principles of Management	5	5								
		Elective I - Programming in C and Lab										
Part III		Elective I - Computer Fundamentals	3	6								
		Basic Tamil-I/NME -HTML	2	2								
Part IV		Foundation Course FC Office Automation Lab	2	2								
		TOTAL	23	30								
		SECOND SEMESTER										
Part I		Language – Tamil	3	6								
Part II		English	3	4								
Part III		Core Paper III – Financial Accounting II	5	5								
Part III		Core Paper IV-Business Law	5	5								
		Elective II - Digital marketing										
Part III		Elective II - Programming in C++ and Lab	3	6								
		Basic Tamil-II/NME –HTML Lab	2	2								
Part IV		NAAN MUDHALVAN- Language Proficiency for Employability- Effective English	2	2								
		TOTAL	23	30								

	SECOND YEAR		
	THIRD SEMESTER		
Part I	Language – Tamil	3	6
Part II	English	3	4
Part III	Core Paper V- Corporate Accounting I	5	5
Part III	Core Paper VI – Business Mathematics and Statistics	5	5
	Elective III – Programming in JAVA and Lab	3	6
Part IV	Elective III – Web Technology and Lab		
	Skill Enhance Course Quantitative Aptitude	1	1
Part IV	Skill Enhancement Course – Python Programming	2	2
	Environmental Studies		1
	TOTAL	23	30
1	FOURTH SEMESTER	!	1
Part I	Language – Tamil	3	6
Part II	English	3	4
Part III	Core Paper VII—Corporate Accounting II	5	5
Part III	Core Paper VIII-Company Law	5	5
	Elective IV– Relational Database		
Part III	Management System		5
	Elective IV– Introduction to Data Science	3	3
	Skill Enhance Course Python Programming Lab	2	2
Part IV	NAAN MUDHALVAN -Digital Skills for Employability- Office Fundamentals	2	2
	Environmental Studies	2	1
	TOTAL	25	30

	THIRD YEAR					
	FIFTH SEMESTER	ı				
Part III	Core Paper IX –Cost Accounting I	4	5			
Part III	1 0					
	Practice	4	5			
Part III	Core Paper XI – Income Tax Law and	4	5			
	Practice I	7	`			
Part III	Core Paper XII – Project Viva vive	4	5			
	Auditing and Corporate Governance	-	`			
Part III	Discipline Specific Elective 1/2 -	_				
	Financial Management / 2/2 - Indirect	3	4			
	Taxation					
	Discipline Specific Elective 3/4 – Software					
	Engineering+(UML Lab)/4/4Object	3	4			
D 4 IV	oriented Analysis and Design+(UML Lab)	2				
Part IV	Value Education	2	2			
	Summer Internship / Industrial Training	2				
	TOTAL	26	30			
	SIXTH SEMESTER					
Part III	Core Paper XIII -Cost Accounting - II	4	6			
Part III	Core Paper XIV-Management	4	6			
D . III	Accounting					
Part III	Core Paper XV- Income Tax Law and Practice II	4	6			
	Discipline Specific Elective 5%-					
	Entrepreneurial Development / 6/6-Human	3	5			
Part III	Resource Management					
	Discipline Specific Elective 7/8- R	3	5			
	Language/ 8/8 –Practical Tally					
	General awareness for Competitive					
	Examination/ NAAN MUDHALVAN -	2	2			
	Digital Banking, Logistics and Audit					
Do at V	Essentials Extension Activity	1				
Part V	Extension Activity	1	-			
	TOTAL	21	30			
l	GRAND TOTAL	140	180			

<u>FIRST YEAR – SEMESTER – I</u>

CORE – I: FINANCIAL ACCOUNTING I

Subject			_		E - 1, FINAL	Inst.	001111101	Marks		
Code	L	T	P	S	Credits	Hours	CIA	External	Total	
	5				5	5	25	75	100	
					Learning C	bjectives				
LO1	LO1 To understand the basic accounting concepts and standards.									
LO2										
LO3	To fan	niliariz	e with	the acc	ounting treat	ment of de	preciation.			
LO4	To lea	rn the 1	nethod	s of ca	lculating pro	fit for singl	le entry sys	tem.		
LO5	To gai	n know	ledge	on the	accounting to	reatment of	insurance	claims.		
Prerequi	sites: S	Should	have s	tudied	l Accountan	cy in XII S	Std			
Unit					Conte	nte			No. of	
Onit					Conte	THUS			Hours	
I			E.,	ndom	entals of Fin	anaial Aaa	ounting		15	
1	Financ	rial Acc						sic Accounting	13	
				_	•			osidiary Books		
					•	_		n of Errors –		
	Prepar	ation o	f Susp	ense A	ccount - Ba	nk Reconci	liation Stat	ement - Need		
	and Pr	eparati	on							
II					Final Ac				15	
								ie Expenditure		
						ing, Profit	and Loss	Account and		
III	Balanc	ce Shee			ments. ciation and I	Pills of Evo	hanga		15	
1111	Denre	ciation						ents - Types -	13	
	_			_	_		_	Conversion		
	metho					.8 2	11101110			
	Units	of Prod	uction	Metho	d – Cost Mo	del vs Reva	aluation			
	Bills o	of Exc	hange	- Def	inition – Sp	ecimens -	Discounti	ng of Bills -		
			of Bil	l – Col	lection – No	ting – Ren	ewal – Reti	irement of Bill		
***	under								4 =	
IV					complete R				15	
								S - Difference		
								- Methods of aration of final		
					method.	mans ivicui	iou – riepa	nation of final		
V	Statem	iciics oy	Conv		alty and Insi	ırance Cla	ims		15	
,	Meani	ng –]	Minim	•	· ·			ment of Short		
	Meaning – Minimum Rent – Short Working – Recoupment of Short Working – Lessor and Lessee – Sublease – Accounting Treatment.									
		_						lause (Loss of		
	Stock	only)								
					TOTAL				75	
THEOR	V 200/	& DD	ORIE	M Qno	/_					
THEOR	1 40 70	w r K	ODLE	TAT ON 2	ν υ					

CO	Course Outcomes
CO1	Remember the concept of rectification of errors and Bank reconciliation statements
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

	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	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
AVERAG E	3	2	3	3	2.6	2.2	2	2	3	2	2

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – I CORE – II: PRINCIPLES OF MANAGEMENT

Subject	T	T		S	Cuadita	Inst.		Marks		
Code	L	1	P	3	Credits	Hours	CIA	External	Total	
	5 4 5 25 75									
Learning Objectives										
LO1	LO1 To understand the basic management concepts and functions									
LO2					iques of plan			king		
LO3	To fan	niliariz	e with	the co	ncepts of orga	anisation st	tructure			
LO4	To gai	n know	ledge	about	the various co	omponents	of staffing			
LO5	To ena	ible the	studer	nts in u	ınderstanding	the contro	ol technique	s of manag	gement	
	isites: S	Should	have s	tudie	d Commerce	in XII Sto	ł			
Unit					Contents	5			No. of	
									Hours	
I	Meani Import Science Henry Peter I	tance e or A Fayol, F. Drud	finition - Mar rt –Eve cker, E es of M	ns – N nagemo olution	ature and Sco ent Vs. Ad of Managen Mayo - Funct ement. Manag	ministrationent Thoug	n – Manghts – F. W	agement: Taylor, Trends	15	
II	Import Tools (MBO	ng – Mance a and Tolering). Deci	nd Ele echniq sion M	ments lues o laking:	finitions – N of Planning of Planning Meaning – Gecasting.	Types –Manage	Planning l ment by (Process - Objective	15	
III	in Decision Making – Forecasting. Organizing Meaning - 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	Source Proced Manag Metho	uction es of R lure – gement ds – 30	ecruitr Test- I Game 60 deg	ment – intervices – ree Pe	Staffing- Sta Modern Recew— Training Performance rformance A me [WFH].	cruitment I g: Need - T e Appraisa	Methods - S Types— Prod al - Mean	Selection motion – ning and	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].						
	Total	75					
	Course Outcomes						
CO1	Demonstrate the importance of principles of management.						
CO2	Paraphrase the importance of planning and decision making in an organ	ization.					
CO3	Comprehend the concept of various authorizes and responsibilities organization.	es of an					
CO4	Enumerate the various methods of Performance appraisal						
CO5	Demonstrate the notion of directing, co-coordination and control management.	l in the					
	Textbooks						
1	Gupta.C.B, -Principles of Management-L.M. Prasad, S.Chand& Sons New Delhi.						
2	DinkarPagare, Principles of Management, Sultan Chand & Sons Publinew Delhi.						
3	P.C.Tripathi& P.N Reddy, Principles of Management. Tata McGraNoida.	ıw, Hill,					
4	L.M. Prasad, Principles of Management, S.Chand&Sons Co. Ltd, New						
5	R.K. Sharma, Shashi K. Gupta, Rahul Sharma, Business Management, Publications, New Delhi.	Kalyani					
	Reference Books						
1	K Sundhar, Principles Of Management, Vijay Nichole Imprints Chennai	Limited,					
2	Harold Koontz, Heinz Weirich, Essentials of Management, McGr Sultan Chand and Sons, New Delhi.	aw Hill,					
3	Grifffin, Management principles and applications, Cengage learning, In	dia.					
4	H.Mintzberg - The Nature of Managerial Work, Harper & Row, New Y	ork.					
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 Re	esources						
1	http://www.universityofcalicut.info/sy1/management						

2	https://www.managementstudyguide.com/manpower-planning.htm
3	https://www.businessmanagementideas.com/notes/management-notes/coordination/coordination/21392

	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	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

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – I

ELECTIVE - I: PROGRAMMING IN C AND LAB

Subject	t L	Т	P	S	Credits	Inst.		Marks			
Code		_	1		Creates	Hours	CIA	External	Total		
	3		3		3	4	25	75	100		
	Learning Objectives										
LO1	LO1 Describe the core syntax and semantics of C programming language.										
LO2	Discov	er the	need fo	or worl	king with the	strings and	d functions.				
LO3	Illustra	ate the	process	s of str	ucturing the	data using	matrix, stru	ict.			
Prerequ	isites: S	Should	have s	tudied	l Commerce	in XII Sto	l				
Unit					Contents	S			No. of Hours		
I	Langua	age-Be m-Firs	nefits	of C	ge: C Langua over other in C Pre-p	languages	-Compilati	on of C	9		
II					Operators: Ves in C-Oper		-		9		
III	Statem Contin	ent in ue Sta	C-C Lotement	oops & , Break	Decision Ma Control Stru Statement n C:Arrays in	icture Prac	tice Proble	1	9		
IV	Multid proble Function	Array & String Handling in C:Arrays in C-Strings in C Multidimensional Arrays in C-String functions in C- Practice problems Functions in C:Function Prototype-Parameter Passing Techniques in C-Storage Classes in C-Recursion Concept -Functions in C Practice									
V	Pointers, Structures, and Unions: Pointers in C-Structures- Union - Enumeration (or enum) in C- Pointer vs Array in C – C application programs (Sorting, Matrix manipulations, student's mark list preparation)								9		
					Total				45		

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. Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6. 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. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing		Course Outcomes
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. 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. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	CO1	Apply the concept of Control Structures to solve any given problem.
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. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	CO2	
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. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	CO3	Apply the concept of Strings for writing programs related to character array.
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. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	CO4	Write programs using concept of user defined and recursive functions.
E. Balaguruswamy, "Programming in ANSI C", 8th Edition, 2019, McGraw Hill Education, ISBN:978-93-5316-513-0. Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6. 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. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	CO5	Apply concept of structures to write programs.
Hill Education, ISBN:978-93-5316-513-0. Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6. 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. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing		Textbooks
2 University Press, ISBN: 978-01-9949-147-6. 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. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	1	
Bedition, 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. Jacqueline A Jones and Keith Harrow, "Problem Solving with C", Pearson Education. ISBN: 978-93-325-3800-9. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	2	University
Yashavant P. Kanetkar, "Let Us C", 16th Edition, 2019, BPB Publications, ISBN: 978- 93-8728-449-4. Jacqueline A Jones and Keith Harrow, "Problem Solving with C", Pearson Education. ISBN: 978-93-325-3800-9. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	3	Edition,
ISBN: 978- 93-8728-449-4. Jacqueline A Jones and Keith Harrow, "Problem Solving with C", Pearson Education. ISBN: 978-93-325-3800-9. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing		Reference Books
2 Education. ISBN: 978-93-325-3800-9. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing	1	
3 Publishing	2	Education.
House. ISBN-9/8-93-5299-361-1.	3	
NOTE: Latest Edition of Textbooks May be Used	NOTE:	Latest Edition of Textbooks May be Used
Web Resources		Web Resources
1 http://elearning.vtu.ac.in/econtent/courses/video/BS/14CPL16.html	1	http://elearning.vtu.ac.in/econtent/courses/video/BS/14CPL16.html
2 https://nptel.ac.in/courses/106/105/106105171/	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)

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.

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 $S=1 x + (x^2/2!) (x^3/3!) + ---- (x^n/n!)$
- 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 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

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

Elective I - Computer Fundamentals

ategor y	L	Т	P	S	Credits	Inst.		Marks	
Ca						Hours		External	Total
	6				3	4	25	75	100

Learning Objectives

- **LO1** To Impart the Knowledge of Fundamentals of Computers.
- LO2 To discover the Knowledge of newly invented devices and Units
- LO3 To compute with the interconnected networks for the linkage of Worldwide Networks.
- **LO4** To apply the software and understand the system software
- **LO5** | To given more information on the Internet

Prerequisite: Should have studied Commerce in XII Std

Unit	Contents	No. of Hours
I	Evolution of Computers - Generations, Types of computers, Computer system characteristics, Basic components of a Digital Computer - Control unit, ALU, Input/output functions and memory, Memory addressing capability of a CPU, Word length of a computer, processing speed of a computer, Computer Classification.	15
II	Input/output Units-: Keyboard, Mouse, Trackball, Joystick, Digitizing tablet, Scanners, Digital Camera, MICR, OCR, OMR, Bar-code Reader, Voice Recognition, Light pen, Touch Screen, Monitors and types of monitor -Digital, Analog, Size, Resolution, Refresh Rate, Dot Pitch, Video Standard - VGA, SVGA, XGA etc., Printers & types - Daisy wheel, Dot Matrix, Inkjet, Laser, Line Printer, Plotter, Sound Card and Speakers.	15
III	Memory - RAM, ROM, EPROM, PROM and other types of memory, Storage fundamentals - Primary Vs Secondary Data Storage, Various Storage Devices - Magnetic Tape, Magnetic Disks, Cartridge Tape, Hard Disk Drives, Floppy Disks (Winchester Disk), Optical Disks, CD, VCD, CDR, CD-RW, Zip Drive, flash drives Video Disk, Blue Ray Disc, SD/MMC Memory cards, Physical structure of floppy & hard disk, drive naming conventions in PC. DVD, DVD-RW, USB Pen drive.	15
IV	Software and its Need, Types of Software - System software, Application software, System Software - Operating System, Utility Program, Algorithms, Flow Charts - Symbols, Rules for making Flow chart, Programming languages, Assemblers, Compilers and Interpreter, Computer Applications in Business.	15
V	Introduction to Internet, connecting to the Internet Hardware, Software & ISPs, Search Engines, Web Portals, Online Shopping, Email – Types of email, Compose and send a message. Reply to a message, Working with emails.	15
	TOTAL	75

CO	Course Outcomes
CO1	Illustrate the different types of computers
CO2	Extracting the nature of Input and Output Devices
CO3	Differentiate the types of Memory
CO4	Determine system software and Explain the Structure of Algorithms, Programs and Flowcharts
CO5	Scholastic Representation of Web Portals, Search Engines
	Textbooks
1	B. Ram, "Computer Fundamentals, Architecture and Organization", New Age International Publishers
2	S.K.Basandra, "Computers Today", Galgotia Publications.
3	P.K. Sinha, "Computer Fundamentals – P. K. Sinha – BPB Publication
	Reference Books
1	T. C.Bartee, "Digital Computer Fundamentals", Sixth Edition, 1991,TMH.
2	Anita Goel, Computer Fundamentals, Pearson Publications,
3	Ramesh Bangia, Computer Fundamentals and information technology, Firewall Media Publications
NOTI	E: Latest Edition of Textbooks May be Used
	Web Resources
1	https://books.google.co.in/books?id=ICjqr6V9S6UC&printsec=frontcover#v=onepage&q&f=false
2	https://www.google.co.in/books/edition/COMPUTER_FUNDAMENTALS_SEMESTER_1/sb f0wQEACAAJ?hl=en
3	https://www.google.co.in/books/edition/Computer_Fundamentals/zyOYs2EqZDgC?hl=en&gbpv=1&dq=computer%20fundamentals&pg=PR6&printsec=frontcover

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

3 - Strong, 2 - Medium, 1- Low

$\underline{FIRST\ YEAR-SEMESTER-I}$

Introduction to HTML

Categor y		L	T	P	s	Credits	Inst.		Marks	
Cat		L	-	1	S	Credits	Hours	CIA	External	Total
		2				2	2	25	75	100
					Le	arning Obj	ectives			
LO1	Ins	sert a gr	aphic wi	thin a we	eb page.					
LO2			ink withi							
LO3	_		able with							
LO4 LO5			ding leve			page. vithin a web	naga Craa	to a xyoh r	2000	
						nerce in XII		ie a web p	age.	
	1415		, care 1100 y	studio			200			
Unit						Contents				No. of
	т.	. 1	337 1	D	XX71	T 4 4 XX	1 1	XX/1	XX7 1	Hours
т						Internet-We	eb browsers	–What is	webpage –	
I	П	I MIL B	asics: Un	aerstana	ıng-tags	•				6
	Ta	agsforDa	ocuments	structure	HTMI.	Head Body	Tag) Block	leveltexte	lements:Headi	
$_{\rm II}$		_			`	elements: (t	٠,			6
11	_	rike, big		<i>(ug)</i> 10	ine sey ic	Cicinonis. (C	ora, marro,	ioni, sina	i, suong,	
				s: Order	ed .Unoı	rdered– Nes	ting Lists-C	Other tags	Marquee.	
III		• •				yperlinks.		outer tags	i iviai quee,	6
IV			_		-	lements,Cap	tion–Tablea	andcellali	gnment–	6
1 4			Colspan-							•
T 7			Frameset	–Targete	d Links	–No frame–	Forms: Inpi	ıt, Text ar	ea, Select,	
V	U	ption.								6
									тоты	30
									TOTAL	
CO						Course C	Outcomes			
cof			e basic co	-						
			of resource		ΓML					
CO2			esign con of Meta D	-						
COZ		-	nd the cor		save the	files				
002			id the ear			11100.				
CO3		oncept o								
CO4		eating I								
					ng link t	to email add	ress			
CO5			of adding							
	Ur	nderstan	nd the tab	ie creati	on.					

	Textbooks								
1	"Mastering HTML5 and CSS3 Made Easy", TeachUComp Inc., 2014.								
2	Thomas Michaud, "Foundations of Web Design: Introduction to HTML & CSS"								
	Reference Books								
1	E Stephen Mack, Janan Platt, "HTML".								
2	Laura Lemay ,"Teach Yourself Web Publishing with HTML 3.2 in 14 Days", Techmedia								
NOTE	: Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://www.teachucomp.com/samples/html/5/manuals/Mastering-HTML5-CSS3.pdf								
2	https://www.w3schools.com/html/default.asp								

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

^{3 -} Strong, 2 - Medium, 1- Low

FIRST YEAR – SEMESTER - I

Foundation Course FC Office Automation and Lab

$\mid \mathbf{L} \mid$	T	P	S	Credits	Inst.	Marks		
					Hours -	CIA	External	Total
		2		3	4	25	75	100
			Le	earning Obj	ectives			
traini	ing for	studen	ts in M	licrosoft Off	ice which h			
The	course	is high	ly prac	ctice oriented	rather than	regular c	lass room tea	ching.
To ac	equire !	knowle	edge or	editor, spre	ad sheet and	d presenta	tion software	.
	The training MS V	The major of training for MS Word, I	The major objective training for student MS Word, MS Ex	The major objective in in training for students in M MS Word, MS Excel and The course is highly practice.	The major objective in introducing the training for students in Microsoft Off MS Word, MS Excel and Power point. The course is highly practice oriented.	Learning Objectives The major objective in introducing the Computer training for students in Microsoft Office which h MS Word, MS Excel and Power point. The course is highly practice oriented rather than	Hours CIA 2 3 4 25 Learning Objectives The major objective in introducing the Computer Skills co training for students in Microsoft Office which has different MS Word, MS Excel and Power point. The course is highly practice oriented rather than regular contents and the course is highly practice oriented rather than regular contents.	Hours CIA External 2 3 4 25 75 Learning Objectives The major objective in introducing the Computer Skills course is to impute training for students in Microsoft Office which has different components.

Prerequisites: Should have studied Commerce in XII Std

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 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

- 1. Comdex Information Technology course tool kit Vikas Gupta, WILEY Dreamtech, 2005 2. The Complete Computer upgrade and repair book, 3rd edition Cheryl A Schmidt, WILEY Dreamtech
- 3 Introduction to Information Technology, ITL Education Solutions limited, Pearson Education.
 - 4. PC Hardware and A + Handbook Kate J. Chas PHI (Microsoft)

FIRST YEAR – SEMESTER - II

CORE - III: FINANCIAL ACCOUNTING-II

Subjec	t L	Т	P	S	Credits	Inst.		Marks	
Code	L	1	Г	3	Credits	Hours	CIA	External	Total
	5				4	5	25	75	100
					Learning C	Objectives			
LO1				_	pare differer nents Systen		accounts su	ch	
LO2							artmental a	accounts	
LO3	To understand the allocation of expenses under departmental accounts To gain an understanding about partnership accounts relating to Admission an retirement Provides knowledge to the learners regarding Partnership Accounts relating to dissolution of firm								
LO4	to disso	olution	of firm	l		C	•		
LO5	To kno	w the r	equire	nents (of internation	nal account	ing standard	ds	
Prerequ	uisites: S	Should	have s	tudied	l Accountan	cy in XII S	Std		
LO5 To know the requirements of international accounting standards Prerequisites: Should have studied Accountancy in XII Std Unit Contents									No. of Hours
I	Hire Purchase and Instalment System Hire Purchase System – Accounting Treatment – Calculation of Interest - Default and Repossession - Hire Purchase Trading Account - Instalment System - Calculation of Profit								15
П	Branch and Departmental Accounts Branch – Dependent Branches: Accounting Aspects - Debtors system - Stock and Debtors system – Distinction between Wholesale Profit and Retail Profit – Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses – Inter- Departmental Transfer at Cost or Selling Price.							15	
Ш	Partner Calcula	ship A	ccount	Pa s: –Ad		a Partner –	Treatment	of Goodwill - – Death of a	15
IV	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.								15
V	Objecti Standar Role o	Accour ives and rds -	d Uses Dev S- IFR	of Fir elopm S Ado	ent of A	ments for U Accounting onvergence	Users-Role Standard Implemen	of Accounting is in India tation Plan in	15
					TOTA	AL			75
THEOI	 RY 20%	& PR	OBLE	MS 80	1%				

	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:	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									
	and party and a state of the st									
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	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
AVERAGE	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

$\underline{FIRST\ YEAR-SEMESTER-II}$

Core – IV: Business law

Subject	L	LT		S	Cuadita	Inst.		Marks					
Code	L	1	P	3	Credits	Hours	CIA	External	Total				
	5				4	5	25	75	100				
	•				Learning O	bjectives							
LO1	To know the nature and objectives of Mercantile lawand the essentials o contract												
LO2	To gain knowledge on performance contracts												
LO3	To be acquainted with the rules of Indemnity and Guarantee												
LO4	To make aware of the essentials of Bailment and pledge												
LO5	To understand the provisions relating to sale of goods												
Prerequis	sites: S	Should	have s	studied	l Commerce	e in XII Std	l .						
Unit					Conte	nts			No. of				
									Hours				
I				I	Elements of	Contract			15				
	Indiar	n Conti	ract Ac	et 1872	2: Definition	of Contra	ct, Essenti	als of Valid					
	Contr	act, C	Classifi	cation	of Contra	act, Offer	and Ac	ceptance -					
	Consi	deratio	n – C	apacit	y to Contra	ct – Free (Consent -	Legality of					
	Objec	t – Cor	ntingen	t Cont	racts - Void	Contract							
II	Performance of Contract												
	Meaning of Performance, Offer to Perform, Devolution of Joint												
	liabili	ties &	Righ	ts, Ti	me and Pla	ace of Per	formance,	Reciprocal					
	Promi	ises, As	ssignm	ent of	Contracts - I	Remedies fo	or Breach	of contract -					
	Termination and Discharge of Contract - Quasi Contract												
III	Contract of Indemnity and Guarantee												
	Contr	act of	Indemi	nity an	d Contract								
	Liability, Kinds of Guarantee, Rights of Surety, Discharge of Surety –												
IV]	Bailment an	d Pledge			15				
	Bailment and Pledge – Bailment – Concept – Essentials - Classification												
	of Bailments, Duties and Rights of Bailor and Bailee – Law of Pledge –												
	Meaning - Essentials of Valid Pledge, Pledge and Lien, Rights of												
	Pawner and Pawnee.												
V	Sale of Goods Act 1930:												
	Definition of Contract of Sale – Formation - Essentials of Contract of												
	Sale -	- Cond	itions	and W	arranties -	Transfer of	Property	- Contracts					
	involving Sea Routes - Sale by Non-owners - Rights and duties of buyer												
	- Righ	nts of a	n Unpa	aid Sel	ler	_		-					
					TOTA	L			75				

Course Outcome									
CO1	Explain the Objectives and significance of Mercantile law								
CO2	Understand the clauses and exceptions of Indian Contract Act.								
CO3	Outline the contract of indemnity 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: 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								

	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
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 ELECTIVE II – DIGITAL MARKETING

				1	ELEC	TIVE II – D	IGHAL MA	KKEIING		
Catego	rv	L	T	P	S	Credits	Inst.		Marks	
	- <i>J</i>					9100105	Hours	CIA	External	Total
Elective	e II	6				3	4	25	25 75	
					L	earning Obj	jectives		1	
LO1	Тоз	underst	tand the	e signi	ficance	e of web mar	keting			
LO2						dents on the		vorks		
LO3						ocial media a				
LO4 LO5	_					nail marketir e marketing	ıg			
						mmerce in 2	XII Std.			
Unit						Contents	3			No. of Hours
I	Maı Maı	rketing rketing	, Interr Tools	ial Me	asures	eting and S for SEO, Li	nk Building	, Introduc	tion to Web	15
II	Dis ₁ Mo	play N bile Ac	letwork lvertisi	ng, Vi	deo Ac	g on Display lvertising, Y	ouTube Adv	ertising		15
III	Soc	ial Me	dia, An	alysin	g Targ	eating Effec et Audience				15
IV		Iail Mark		g Cre	ating I	E-mail Camp	oaigns, Effe	ctive strate	egies for E-	15
V	Mol SM	bile M S Strat	larketin egy, M	ig - K obile A	ey M Advert	obile Marke ising, Mobile	ting Conce Apps	pts, Mobi	le Devices,	15
						TOTAL				75
CO						Course	Outcomes			
CO1	Para	aphrase	e the sig	gnifica	nce of	web marketi	ing			
CO2	List	out th	e differ	ent ad	vertise	ments.				
CO3	Det	ermine	the pro	os and	cons o	f social med	ia advertisir	ng		
CO4	Ana	lyze th	ne creat	ion of	email	marketing ar	nd effective	strategies	of it	
CO5	Des	cribe t	he new	trends	in mo	bile marketi	ng			
						Textboo	ks			
1	1		•		_	Digital Markge; 3 edition,	_	ceting Stra	tegies for Eng	aging the
2	STe	panie 1	Diamoi	nd , Di	gital M	larketing, W	iley Publica	tion,		
3.	Van	ndhana	Ahuja,	Digita	l Mark	eting, Oxfor	d Press, 201	.5		
4.	Rya	n Deis	s, Russ	Henn	esberry	y, Digital Ma	rketing			
5.	Pun	eet Bh	atia, Fu	ındam	entals (Of Digital M	arketing, Pe	earson Pub	lication, 2018	

	Reference Books							
1.	Seema Gupta, Digital Marketing, Tata McGrawHill, 2018							
2.	Blogging: A Practical Guide to Plan Your Blog: Start Your Profitable Home-Based Business with a Successful Blog, Jo and Dale Reardon							
3.	Simon Kingsnorth, Digital Marketing Strategy, Kogan Page, 2016							
NOT	E: Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://www.google.co.in/books/edition/Digital_Marketing_All_in_One_For_Dummies/n POODwAAQBAJ?hl=en&gbpv=1&dq=digital%20marketing&pg=PP1&printsec=frontcover							
2	https://www.google.co.in/books/edition/Digital_Marketing/PHSgjgEACAAJ?hl=en							
3	https://www.google.co.in/books/edition/Digital_Marketing/PHSgjgEACAAJ?hl=en							

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	2	2	3	2	3	3
CO2	3	2	2	3	3	2	3	3	2	3	3
CO3	3	2	3	3	3	2	3	3	2	3	3
CO4	3	2	3	3	3	2	2	3	2	3	3
CO5	3	2	3	3	3	2	3	3	3	3	3
TOTAL	15	10	14	15	15	10	13	15	11	15	15
AVERAGE	3	2	2.8	3	3	2	2.6	3	2.2	3	3

^{3 -} Strong, 2 - Medium, 1- Low

FIRST YEAR – SEMESTER - II ELECTIVE - II: PROGRAMMING IN C++ AND LAB

Culsia -	4					Inc4	Marl					
Subject Code	L	L T P S Credit		Credits	Inst. Hours	CIA Extern al		Total				
	2		2		3	4	25	75	100			
	•		•	Lo	earning Obj	ectives						
LO1	To end	render	an ann	reciatio	on for the ne	ed and char	racteristics	of Object-				
LOI	To engender an appreciation for the need and characteristics of Object-orientation.											
LO2		To impart knowledge of the C++ language grammar in order to design a										
202	-		_		olutions to si	~ ~		•				
	oriente	_	_	8		1 1	7 11	<i>J</i> & J				
Prerequ				studied	l Commerce	in XII Sto	d.					
Unit					Content	S			No. of			
									Hours			
I	The n Modul Basic member	Object Oriented Programming Concepts: Complexity in software - The need for object-orientation – Abstraction – Encapsulation – Modularity – Hierarchy. Basic Elements of C++: Classes – Objects – Data members and member functions – private and public access specifiers - Static members - Constructors – Singleton class - Destructors										
II	Friend objects Names Function Overloo Operate	Functs - this spaces. on Over oading tor Over	ions ar s pointe erloadir Constr erloadir	nd Frie er – Ro ng: Ov uctors. ng: Ov	end Classes - eferences – erloading a	Array of Dynamic runction - I operator as	objects – P nemory all Default arg	ocation - uments –	6			
III	Overlo Conve access	oading rsion I specif	the cunction	peratons. Infirtual	ors [], (), oneritance: Ty Base Class - lymorphism:	-> and copes of inhome Base clas	eritance – j	protected	6			
IV	Templ	ates: F	unction		virtual funci lates – Over				6			
V	Class templates. 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.								6			
					Total				30			

	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, 1999.
2	Grady Booch, Object Oriented Analysis and Design, 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 to Programming and Object-Oriented Design, Second Edition, McGraw Hill, 1999.
3	C. J. Lippman, <i>C++ Primer</i> , Third Edition, Addison Wesley, 2000.
NOTE:	Latest Edition of Textbooks May be Used

Object Oriented Programming with C++ Lab

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

- Design classes for the given problems.
- Write programs in C++.
- Code, debug and execute a C++ program to solve the given problems 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 Programs

- 1. Write a class to represent a complex number which has member functions to do the following
 - a. Set and show the value of the complex number
 - a. Add, subtract and multiply two complex numbers
 - a. 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
 - a. Find the distance between two points
 - a. Check whether two points are equal or not
- 4. Design and implement a class to represent a Solid object.
 - a. Apart from data members to represent dimensions, use a data member to specify the type of solid.
 - a. Use functions to calculate volume and surface area for different solids.
- 5. Design a class representing time in hh:mm:ss. Write functions to
 - a. Set and show the time
 - a. Find the difference between two time objects
 - a. Adding a given duration to a time
 - a. Conversion of the time object to seconds
- 6. Design a 3x3 matrix class and demonstrate the following:
 - a. Addition and multiplication of two matrices using operator overloading
 - a. Maintaining a count of the number of matrix object created
- 7. Design a class called cString to represent a string data type. Create a data member in the class to represent a string using an array of size 100. Write the following functionality as member functions:
 - a. Copy Constructor
 - a. Concatenate two strings
 - a. Find the length of the string
 - a. Reversing a string
 - a. 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
 - a. Destructor
 - a. Concatenate two strings
 - a. Find the length of the string
 - a. Reversing a string
 - a. Comparing two strings

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

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 NME: HTML Lab

LIST OF EXERCISES:

- 1. Write a script to create an array of 10 elements and display its contents.
- 2. Create a simple calculator using form fields. Have two fields for number entry and one field for the result. Allow the user to be able to use plus, minus, multiply and divide.
- 3. Create a document and add a link to it. When the user moves the mouse over the link, it should load the linked document on its own. (user is not required to click on the link)
- 4. Create a document which opens a new window without a toolbar, address bar or a status bar that unloads itself after one minute.
- 5. Design an HTML page that includes document structure tags, title, line break, multiple headings and link to e-mail address.
- 6. Create an HTML file which is the main page with an image and some text messages along with hyperlinks which is linked to various pages. The navigation should be such that the links take you to the appropriate page and then back to the main page.
- 7. Create a HTML page to demonstrate the usage of Frames. Choose the content of the page on your own.
- 8. Design an application for pay slip through HTML forms.

$\underline{FIRST\ YEAR-SEMESTER-II}$

NAAN MUDHALVAN- Language Proficiency for Employability- Effective English Common syllabus for all UG courses

SECOND YEAR – SEMESTER - III CORE – V: CORPORATE ACCOUNTING I

Subject	L	T	P	S	Credits	Inst. Hours	Marks				
Code		1	r	3	Credits	inst. Hours	CIA	Total			
	5				4	5	25	75	100		
					Learn	ning Objectives					
LO1	Τοι	under	stand	abou	it the pro-rata	allotmentand U	nderwritin	ng of Shares			
LO2			_		ions of compand debentures	anies Act regards	ing Issue	and Redemption	n of		
LO3	Act	o learn the form and contents of financial statements as per Schedule III of Companies ct 2013									
LO4	То	exam	ine th	e var	ious methods	of valuation of C	Goodwill	and shares			
LO5	To i	denti	fy the	e Sigi	nificance of Ir	nternational finar	ncial repo	rting standard (IFRS)		
Prerequisi	te: Sh	ould	have	stud	ied Financial	l Accounting in	I Year				
Unit					(Contents			No. of Hours		
I	Issu Allo	otmen	Share it Issi	es – P ue of	Rights and B	scount - Forfeitur Bonus Shares - U Commission - Ty	Inderwriti	ng of Shares	15		
II	Red Cap Par, Deb in I	and Debentures – Underwriting Commission - Types of Underwriting. 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									
III	Cum Interest - Sinking Fund Investment Method. 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		
IV	Ascertaining Profit for Managerial Remuneration 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			

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)						
	TOTAL	75					
THE	ORY 20% & PROBLEMS 80%						
	Course Outcomes						
CO 1	Prepare and account for various entries to be passed in case of issue, forfeiture and shares and compute the liability of underwrites	d reissue of					
CO 2	Asses the accounting treatment of issue and redemption of preference shares and	debentures					
CO 3	Construct Financial Statements applying relevant accounting treatments						
CO 4	Compute the value of goodwill and shares under different methods and assess its applicability						
CO 5	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	v 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, N	ew Delhi					
3	Prof. Mukeshbramhbutt, Devi, Corporate Accounting I, Ahilya Publication, Madh	ya Pradesh					
4	Anil Kumar, Rajesh kumar, Corporate accounting I, Himalaya Publishing house,	Mumbai.					

5	PrasanthAthma, Corporate Accounting I, Himalaya Publishing house, Mumbai.
NOTI	E: Latest Edition of Textbooks May be Used

	Web Resources
1	https://www.tickertape.in/blog/issue-of-shares/
2	https://www.taxmann.com/bookstore/bookshop/bookfiles/chapter12valuationofgoodwillandshares.pdf
3	https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accounting-standards.html

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	, т	Т	P	S	Credits	Inst.		Marks				
Code	$oxed{\mathbf{L}}$	1	r	3	Credits	Hours	CIA	External	l Total			
	5				4	5	25	75	100			
				L	earning Obj	ectives			•			
LO1	To im	part kn	owledg	ge on tl	ne basics of r	atio, propo	rtion, indic	es and pro	portions			
LO2		To learn about simple and compound interest and arithmetic, geometric and										
	harmo	nic pro	gressic	ns.	_			_				
LO3	To fan	niliaris	e with	the me	asures of cen	tral tenden	ıcy					
LO4	To cor	o conceptualise with correlation co-efficient										
LO5					e series analy							
	isite: Sl	hould l	have st	udied	Commerce		•					
Unit					Contents	S			No. of Hours			
I	Ratio,	Propor	tion an	ıd Vari	ations, Indic	es and Log	arithms.		15			
II	Intere Banke Geome	Ratio, Proportion and Variations, Indices and Logarithms. Interest and Annuity Banker's Discount – Simple and Compound Interest - Arithmetic, Geometric and Harmonic Progressions. Annuity - Meaning - Types of Annuity Applications.										
III	Busine Arithm Media Range	ess Sta netic M n – Qu - Qua	tistics Iean, (artiles artile I	Measu Geome – Dec Deviat	res of Centratric Mean - ciles - Percention and Mean efficient.	ral Tender Harmonic tiles. Meas	ncy Mean - M sures of Va	ariation –	15			
IV	Corre Correl	lation ation -	and Ro Karl P	e gress i earson			-	earman's	15			
V	Time S Time S variati	Series A Series A ons -	Analys Analys Index	sis and is : Sec Numb	I Index Num cular Trend – pers – Aggre /holesale Ind	bers Seasonal egative and ex – Cost of	Variation – d Relative	Index –	15			
					TOTAL				75			
				(Course Outc	omes						
CO1	Learn	the bas	sics of 1	ratio, p	proportion, in	dices and 1	ogarithm					
CO2					ons of simple rogressions.	and com	pound inter	rest and ar	ithmetic,			
CO3	Determ	nine th	e vario	us mea	asures of cent	tral tenden	ey					
CO4	Calcul	ate the	correla	ation a	nd regression	co-efficie	nt.					
CO5	Assess	s proble	ems on	time s	eries analysis	S						

	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:	Latest 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

	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

<u>SECOND YEAR – SEMESTER – III</u>

ELECTIVE - III: PROGRAMMING IN JAVA AND LAB

Subject	t				I. I KOGKA	Inst.		Mar						
Code		T	P	S	Credits	Hours	CIA	Exte	rnal	Total				
	3		3		3	4	25	7	5	100				
	Learning Objectives													
LO1	To pro	To provide fundamental knowledge of object-oriented programming.												
LO2	To equ	o equip the student with programming knowledge in Core Java from the												
	basics	up.												
LO3	To ena	able the	e studer	its to u	ise AWT con	trols, Ever	nt Handling	and S	wing	for				
	GUI.													
	isite: S	hould l	have st	udied	Commerce	in XII Std	•		1					
Unit					Contents				No.					
	¥ . 1	.•			0. 011 . 0	• . •		•	Hou	irs				
					f Object-Or ependence, F		-							
		`			n structure -	•	,							
I				_	t) - simple ja					9				
	Variables - type conversion and casting- Java Console input:													
	Buffered input - operators - control statements - Static Data - Static Method - String and String Buffer Classes													
							o o m o tempo o t	-049		9				
	Java user defined Classes and Objects – Arrays – constructors - Inheritance: Basic concepts - Types of inheritance - Member									9				
II	access rules - Usage of this and Super key word - Method													
	Overloading - Method overriding - Abstract classes - Dynamic													
	metho	d dispa	itch - U	sage o	of final keywo	ord								
	Packas	ges: De	efinition	n - Ac	cess Protecti	on - Impo	rting Packa	ges -		9				
	Interfa	-	Defini			nentation	-	_						
III					lling: try – o	eatch - thr	ow - throw							
					ons - Creatin	g own Exc	ception clas	ses -						
	garbag	ge colle	ection, 1	inalise	-									
	Multit	hreade	d Progr	ammii	ng: Thread C	lass - Rum	nable interf	ace –		9				
IV	Synch	ronizat	ion –	Usir	ng synchron	nized met	hods – U	Jsing						
	synchi	onized	statem	ent - I	nterthread Co	ommunicat	tion – Dead	lock.						
_					lasses -Java		_							
V					Iterator Int	erface- En	umeration-	List		9				
	and Ai	rrayLıs	t- Vect	or- Co	omparator									
					TOTAL					45				

	Course Outcomes								
CO1	Understand the basic Object-oriented concepts.Implement the basic constructs								
COI	of Core Java								
CO2	Implement inheritance, packages, interfaces and exception handling of Core								
CO2	Java.								
CO3	Implement multi-threading and I/O Streams of Core Java								
	m a 1								

Textbooks

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.

Java Programming Lab

Core -S2EC1L

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

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
- 7. Write a program to perform string operations using StringBuffer class:
 - a) Length of a string
 - b) Reverse a string
 - 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.
- 8. 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.
- 8. 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 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

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

<u>SECOND YEAR – SEMESTER - III</u> <u>ELECTIVE III: WEB</u> Technology(PHP) and Lab

Sub	ject	L	Т	P	S	Credits	Inst.		Mark	s	
Co	de	L	1	1	3	Creuits	Hours	CIA	Externa	al Total	
		3		3		3	4	25	75	100	
]	Learning Ob	jectives				
LO1	To	use I	PHP a	nd M	ySQL	to develop d	ynamic web	sites for	user on th	ne Internet	
						iging from sin	=				
LO2	e-0	comm	erce s	sites v	vith N	IySQL databa	ise, building	, connect	ivity, and		
	ma	ainten	ance								
Prere	quisite	e: Sho	uld h	ave s	tudie	d Commerce	in XII Std				
TT •4						Contents				No. of	
Unit	;									Hours	
	In	troduc	ing P	HP _	Raci	c developmer	nt Concents	_ Creatir	na first		
			_			ariable and C	1				
I			_		_	ng Data type	_	_		9	
						sing Constan	_		-		
		th Op				C	-	C			
	Co	ontroll	ing	Prog	ram	Flow: Wri	ting Simpl	le Cond	litional		
II	St	Statements - Writing More Complex Conditional Statements -									
11		Repeating Action with Loops - Working with String and									
	Νι	ımerio									
			_		•	s: Storing Dat	_		_		
III		•		•		l Iterations –U				9	
						nctions – Wor					
IV		_				asses: Creatin – Using Adva	_			9	
						se and SQL:					
			_			Adding and n	_				
V				-		Lite Extension			-	9	
		Introduction XML - Simple XML and DOM Extension.									
						TOTAL				45	
CO						Course (Outcomes		ļ.		
	Unde	erstand	1 the c	reners	al con	cepts of PHP	scripting lar	ngnage fo	r the deve	elonment of	
CO1		netwe			11 0011	cepts of 1111	sempung iai	iguage io	i the deve	oropinem or	
CO2	Unde	erstanc	the b	pasic 1	functi	ons of MySQ	L database p	orogram a	and XML	concepts	
CO3	Learn	n the r	elatio	nship	betw	een the client	side and the	server si	de scripts	S.	
				1							

	Textbooks									
1	1 VikramVaswani, "PHP A Beginner's Guide", Tata McGraw Hill 2008.									
	Reference Books									
Steven Holzner, "The PHP Complete Reference", Tata McGraw										
	Hill, 2007.									
2	Steven Holzer, "Spring into PHP", Tata McGraw Hill 2011, 5thEdition.									
NOT	E: Latest Edition of Textbooks May be Used									
	Web Resources									
1	https://www.w3schools.com/php/									
2	https://www.phptpoint.com/php-tutorial-pdf/									
3	http://www.xmlsoftware.com/									

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 write PHP 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 and MySQL.

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)
Skills acquired from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

<u>SECOND YEAR – SEMESTER – III</u> <u>Skill Enhance Course Quantitative Aptitude</u>

Subj	ect L T P S Credits Inst. Marks											
Co	de	L	1	P	3	Credits	Hours	CIA	External	Total		
		1				1	1	25	75	100		
		•]	Learning Ob	jectives					
LO1	То	under	stand	the ba	sic co	ncepts of numl	pers					
LO2						concept of perc		t & loss				
LO3						s of time and w						
LO4	To learn the concepts of permutation, probability, discounts											
LO5	· · · · · · · · · · · · · · · · · · ·											
Prerequisite: Should have studied Commerce in XII Std												
Unit						Conten	ts			No. of Hours		
I	Siı	Numbers-HCF and LCM of numbers-Decimal fractions- Simplification-Square root and cube roots - Average-problems on Numbers.										
II		Problems on Ages - Surds and Indices - percentage - profits and loss - ratio and proportion-partnership-Chain rule.										
III	pro	Time and work - pipes and cisterns - Time and Distance - problems on trains -Boats and streams - simple interest - compound interest - Logarithms - Area-Volume and surface area - races and Games of skill.										
IV	I					ination-proba Distances-O	-			3		
V	l l					tocks and slas- Pie charts			entation -	3		
						TOTA	L			15		
CO	On co	mple	tion o	f this	cours	se, students w	ill					
CO1						plication and		ns of num	bers			
CO2	To ha				dge a	nd understand	ling about p	ercentage	, profit & lo	OSS		
CO3	To un	dersta	and th	e con	cepts	of time and w	ork					
CO4	Speal	ks abo	out the	conc	epts	of probability	, discount					
CO5	Unde	rstanc	ding th	ne coi	ncept	of problem so	olving invol	ved in sto	cks & shares	s, graphs		

	Textbooks									
1	"QuantitativeAptitude",R.S.AGGARWAL.,S.Chand&CompanyLtd., Reference Books									
	ACICI CHCC DOURS									
1										
NOT	E: Latest Edition of Textbooks May be Used									
	Web Resources									
1	https://www.javatpoint.com/aptitude/quantitative									
2	https://www.toppr.com/guides/quantitative-aptitude/									

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 - III

Skill Enhancement Course – Python Programming

Subject	$t \mid_{\mathbf{L}}$	Т	P	S	Credits	Inst.		Mar	ks				
Code		1	1	3	Credits	Hours	CIA	Exte	ernal	Total			
	2				3	4	25	7	5	100			
				L	earning Obj	ectives							
LO1	Descri	be the	core sy	ntax a	nd semantics	of Python	programmi	ing lar	nguage	e.			
LO2	Discov	Discover the need for working with the strings and functions.											
LO3	Illustra	ite the	process	s of str	ucturing the	data using	lists, diction	naries	, tuple	s and			
	sets.												
LO4	Understand the usage of packages and Dictionaries												
Prerequisites: Should have studied Commerce in XII Std.													
Unit					Contents				No.				
	T . 1				1 1.1	<u> </u>	TT 1		Hou	rs			
_	Introdu Compu			nputer -Pytho	algorithn n programn	ns-Comput ing langu				_			
I					- Operators					6			
	types,					_							
					an Expressio in Python-								
				_									
II	Iterative Control- While Statement- Infinite loops- Definite vs. Indefinite Loops- Boolean Flag. String, List and Dictionary,								6				
	Manip	ulation	s Bu	uilding	blocks	of pyth		-					
	Unders					: F4	·						
					tines- Defin								
III	Functions: Calling Value-Returning Functions- Calling Non-Value-Returning Functions- Parameter Passing - Keyword							6					
	Arguments in Python - Default Arguments in Python-Variable												
					ve Functions		1. 7	2 41					
IV					ware Objects n: Modules		-			6			
		ı Modu		Dosig	11. 1410dules	10p-D	own Desig	p., _		•			
					tionary type	-		- 1					
V)pening	g, read	ing and writ	ing text fi	les – Exce	ption		6			
	Handli	ng			Total					30			
					Course Outc	omes				50			
						UIIICS							
CO1	Develo	p and e	xecute	simple	Python progra	ms							
CO2	Write s	imple P	ython p	orogran	ns using condi	tionals and	looping for s	solving	g probl	ems			
CO3	Decom	pose a l	Python	prograi	n into function	ns							
CO4	Represe	ent com	pound	data us	ing Python lis	ts, tuples, di	ctionaries et	cc.					

	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:	Latest Edition of Textbooks May be Used							
Web Resources								
1	https://onlinecourses.swayam2.ac.in/cec22_cs20/preview							

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

<u>SECOND YEAR – SEMESTER – III</u> <u>Environmental Studies</u>

Syllabus as per Madras University – Common for All

$\underline{SECOND\ YEAR-SEMESTER-IV}$

CORE – VII: CORPORATE ACCOUNTING - II

Subject Code	L	T	P	S	Credits	Inst.					
			1	3		Hours	CIA	Externa l	Total		
	5				4	5	25	75	100		
				Lea	rning Obje	ctives					
LO1	To knov	v the ty	pes of	Amalg	gamation, In	ternal and	external Re	econstruction	on		
					f banking co						
					g treatment		ce compan	y accounts			
	To understand the procedure for preparation of consolidated Balance s										
					s of winding						
					inancial Ac						
Unit					Contents				No. of		
									Hours		
I	Amalga	matio	n, Inte	rnal &	External R	Reconstruc	ction				
	Amalgamation – Meaning - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method - Types of Methods of Accounting for Amalgamation - The Pooling of Interest Method - The Purchase Method(Excluding Inter-Company Holdings). Internal & External Reconstruction Internal Reconstruction – Conversion of Stock – Increase and Decrease of Capital – Reserve Liability - Accounting Treatment of External Reconstruction										
II	Final St Non-Pe	tatemei rformii	nts of l	Bankin ets - Ro	ompanies ag Companie ebate on Bill Banking Reg	s Discoun	ted- Profit		15		
III	Accoun	g of In ts of I s – A	suranc nsuran	e – Pr ce Co	unts: inciples – T mpanies – A General Ins	Accounts	of Life Ins		15		
			Finan	cial St	atements						
IV	Consolidated Financial Statements Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparation of Accounts -Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).										
	Liquida	ation o	f Com	panies							
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.										
					TOTAL				75		

		Course Outcomes										
C	O 1	Understand the accounting treatment of amalgamation, Internal and external reconstruction										
C	O2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.										
C	О3	Synthesize and prepare final accounts of Insurance companies in the prescribed format										
C	O4	Give the consolidated accounts of holding companies										
C	O 5	Preparation of liquidator's final statement of account										
		Textbooks										
1	S.P.	Jain and K.L Narang. Advanced Accountancy, Kalyani Publishers, New Delhi.										
2		L.S .Raman and Dr. M.A. Arulanandam , Advanced Accountancy, Vol. II, alaya Publishing House, Mumbai.										
3	R.L.	Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, New Delhi.										
4	M.C Dell	. Shukla and T.S. Grewal, Advanced Accounts Vol.II, S Chand & Sons, New ni.										
5	T.S.	Reddy and A.Murthy, Corporate Accounting II, Margham Publishers, Chennai										
		Reference Books										
1	B.Ra	aman, Corporate Accounting, Taxmann, New Delhi										
2	M.C	.Shukla, Advanced Accounting, S.Chand, New Delhi										
3	Prof	. MukeshBramhbutt, Devi Ahilya publication, Madhya Pradesh										
4		kumar, Rajesh kumar, Advanced Corporate Accounting, Himalaya Publishing se, Mumbai.										
5	Pras	anthAthma, Corporate Accounting, Himalaya Publishing house, Mumbai.										
NO	TE: I	Latest Edition of Textbooks May be Used										
		Web Resources										
1		s://www.accountingnotes.net/amalgamation/amalgamation-absorption-and- nstruction-accounting/126										
2	https	s://www.slideshare.net/debchat123/accounts-of-banking-companies										
3	https 1286	s://www.accountingnotes.net/liquidation/liquidation-of-companies-accounting/										

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 COREPAPERVIII - COMPANY LAW

Subject		Т	P	S	Credits	Inst.	Marks						
Code	L	1	r	3	Credits	Hours	CIA	Externa	l Total				
	5				4	5	25	75	100				
	·			Lo	earning Obj	ectives							
LO1	To kno	ow Cor	npany l	Law 1	956 and Com	panies Act	t 2013						
LO2					on the forma	=							
LO3	To understand the requisites of meeting and resolution												
LO4	To gain knowledge on the procedure to appoint and remove Directors												
LO5	To fan	niliariz	e with	the var	ious modes o	of winding	up						
Prerequ	LO5 To familiarize with the various modes of winding up Prerequisite: Should have studied Commerce in XII Std												
Unit					Contents	S			No. of				
									Hours				
			to Co						15				
					efinition of a								
I					Piercing the rship and Lir								
					nies – Basec								
			lember				iporamon,	Liuoiiiej,					
			f Com						15				
					- Promoter								
II					Association –								
					sociation - (inds – Liabil								
					end – Debent		re Capitar –	Killus					
	Meetin								15				
					- Types - F								
III					olution – Or								
		ors – Qi Auditor		ition, I	Disqualificati	on, Appoir	itment and	Kemovai					
				lminis	tration				15				
					ration – Direc	ctors – Leg	gal Position	– Board					
	of Dir	ectors	– Appo	ointme	ent/ Removal	- Disqual	lification -	Director					
17.7					Directorships								
IV					rty Transactio		•						
	-	•			ding- Mana			_					
	Secretarial Audit – Administrative Aspects and Winding Up – National Company Law Tribunal (NCLT) – National Company Law												
					AT) – Special	,							
	Winding up												
V		_			pulsory Win		•	_					
	Up – Consequences of Winding Up Order – Powers of Tribunal – Petition for Winding Up – Company Liquidator.												
	TOTA		v manil	3 Op –	Company Li	quiuator.			75				
	1011								10				

	Course Outcomes
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:	Latest 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

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	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
AVERAGE	3	2	3	2	3	3	2	3	3	2	2

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER – IV ELECTIVE IV –RELATIONAL DATABASE MANAGEMENT SYSTEM

Subjec	et L	T	P	S	Credits	Inst.		Marks			
Code		1	1	3	Cicuits	Hours	CIA	Externa	l Total		
	3				3	3	25	75	100		
					Learning Ob	jectives					
LO1	Gain a Manag				ng of the arch	itecture and	functioni	ng of Data	abase		
LO2	Understand the use of Structured Query Language (SQL) and its syntax.										
LO3	3 Apply Normalization techniques to normalize a database.										
LO4 Understand the need of transaction processing and learn techniques controlling the consequences of concurrent data access.									or		
Prerequ	isite: Sh	ould h	ave s	tudie	d Commerce	in XII Std.					
Unit					Contents	S			No. of Hours		
Introduction to DBMS— Data and Information - Database - Database Management System — Objectives- Advantages - Components - Architecture. ER Model: Building blocks of ER Diagram —								tages –	9		
II	Relationship Degree – Classification – ER diagram to Tables – ISA relationship – Constraints –Aggregation and Composition –								9		
III		tional			y - Normaliz essing – Data			- 3NF -	9		
IV	Introduction to SQL: Data Definition Commands – Data Manipulation Commands – SELECT Queries – Additional Data Definition Commands – Additional SELECT Query Keywords – Joining Database Tables. Advanced SQL: Relational SET Operators: UNION – UNION ALL – INTERSECT - MINUS.								9		
V	SQL Jo Clause Sub Qu ANY a	SQL Join Operators: Cross Join – Natural Join – Join USING Clause – JOIN ON Clause – Outer Join. Sub Queries and Correlated Queries: WHERE – IN – HAVING – ANY and ALL – FROM. SQL Functions: Date and Time Function – Numeric Function – String Function – Conversion Function									
					TOTAL	ı			45		

	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

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	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
AVERAGE	3	2	3	2	3	3	2	3	3	2	2

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER - IV ELECTIVE - IV: INTRODUCTION TO DATA SCIENCE

Subjec	t L	Т	P	S	Credits	Inst.		Marks	,			
Code	L	1	1	3	Creuits	Hours	CIA	Externa	l Total			
	3				3	3	25	75	100			
]	Learning Ob	jectives						
LO1	To intro	duce 1	the co	ncept	s, techniques	and tools in	Data Scie	ence				
	To unde	rstanc	the	vario	ous facets of d	ata science p	oractice, i	ncluding	data			
LO2			_		n, exploratory	=	_	tive mode	lling,			
	descriptive modelling and effective communication. Provequisites Should have studied Communication.											
Prerequ	Prerequisite: Should have studied Commerce in XII Std											
Unit					Contents	5			No. of			
					T 4 1 4'				Hours			
Ι.	Donofi	ta and	11000	Eas	Introduction Introduction		****	Dia	9			
1 •					ets of data – I a science	Jata science	process -	- Big				
		object	, , , , , , , , , , , , , , , , , , ,		Data science	process:			9			
II •	Overvi	ew – 1	resear	ch go	als - retrievin	g data - tran	sformatio	n –				
	Explor	atory :	Data .	Analy	sis – Model b		ıta Visual	ization				
TIT	3.6.1.				Algorithm		,		9			
III •			_	_	orithms – Mo ised - Semi-su		ocess –	Types –				
	Superv	1500	Clist	_	oduction to	•			9			
IV •	Hadoo	p fram	newor		park – replaci	-	uce– NoS	QL –				
	ACID	– CAI	$P - B_{\lambda}$	ASE -				_				
	5 11 .		c D :		Case Stud		ъ.		9			
V •					Setting reseon - Disease							
	automa		- ехр	101a11	on - Disease	proming -	presenta	non and				
					TOTAL				45			
					Course Out	comes						
CO1					ence is, what St			•	•			
					data and use to							
CO2					ence is, what State data and use to			•	•			
					Science is, w							
CO3					, fit a model							
	and com	•			, iii a iiiodei	to data and	use took	3 101 Ousi	c analysis			
CO.1					ence is, what St	tatistical Infer	rence mean	ns, identify	probability			
CO4					data and use to			•	_			
CO5					ence is, what St				•			
	distribut	ions, fi	t a mo	odel to	data and use to	ools for basic	analysis a	nd commu	inication			

	Textbooks							
1	Davy Cielen, Arno D. B. Meysman, Mohamed Ali, "Introducing Data Science", manning publications 2016							
2	Roger Peng, "The Art of Data Science", lulu.com 2016.							
3	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							
OTE	Latest Edition of Textbooks May be Used							

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	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
AVERAGE	3	2	3	2	3	3	2	3	3	2	2

3 – Strong, 2- Medium, 1- Low

<u>SECOND YEAR – SEMESTER - IV</u>

Skill Enhance Course Lab

Python Programming Lab

Learning 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 branches

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

CO1: To understand the problem solving approaches

CO2: To learn the basic programming constructs in Python

CO3: To practice various computing strategies for Python-based solutions to real world problems

CO4: 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

**

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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.

SECOND YEAR - SEMESTER - IV

NAAN MUDHALVAN -Digital Skills for Employability- Office Fundamentals

Common Syllabus for All UG students <u>THIRD YEAR – SEMESTER - V</u>

CORE - IX: COST ACCOUNTING - I

N11h100	CORE – IX: COST ACCOUNTING - I ct Marks								
Subject Code	L	T	P	S	Credits	Hours	CIA	External	Total
Code	5				4	5	25	75	100
				I	Learning Obje	ectives		, ,	
LO1	To une	lerstan	d the v	arious	concepts of o	eost accour	ntino		
LO2					Cost account		itilig.		
LO3	_				ing valuation		of material.		
LO4					fferent metho			ur cost.	
LO5					nt of Overhea				
Prerequi					ommerce in 2				
Unit					Contents				No. of Hours
I	Accoun Manage	on-Nat ting a ement	ture and ind Fi	d Scop nancia inting	nting pe – Principle Accountir —Installatio st Centre– Pr	ng - Cos on of Co	t Account osting Sys		15
II	Prepara	ation iliatior	of C	Cost	Costing Sheet - T d Financial		_		15
III	Material Costing Material Control – Meaning and Objectives – Purchase of Materials – EOQ –Stores Records – Reorder Levels – ABC Analysis - Issue of Materials –Methods of Issue – FIFO – LIFO – Base Stock Method –						Issue of ethod –	15	
IV	Specific Price Method – Simple and Weighted Average Method. Labour Costing Direct Labour and Indirect Labour – Time Keeping – Methods and Calculation of Wage Payments – Time Wages – Piece Wages – Incentives – Different Methods of Incentive Payments - Idle time—Overtime – Labour Turnover - Meaning, Causes and Measurement.							ods and Vages – e time–	15
	Overhea	ads Cos	sting						
V	Apporti and Sec	Overheads – Definition – Classification – Allocation and Apportionment of Overheads – Basis of Apportionment – Primary and Secondary Distribution - Absorption of Overheads – Methods of absorption Preparation of Overheads Distribution Statement – Machine Hour Rate – Computation of Machine Hour Rate.							
	-		-			s Distribu		ment –	

	Course Outcomes								
CO1	Remember and recall the various concepts of cost accounting								
CO2	Demonstrate the preparation and reconciliation of cost sheet.								
CO3	Analyse the various valuation methods of issue of materials.								
CO4	Examine the different methods of calculating labour cost.								
CO5	Critically evaluate the apportionment 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.								
	Chand & Co, New Delhi,								
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand Publications,								
	New Delhi								
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications,								
	Chennai								
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi								
	Reference Books								
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision								
	Making, 1991, McGraw–Hill, New York.								
2	Jain S.P. and Narang K.L. Cost Accounting, Latest Edition.2013, Kalyani								
	Publishers, New Delhi,								
3	V.K.Saxena and C.D.Vashist, Cost Accounting, Sultan Chand publications, New								
	Delhi								
4	Murthy A &GurusamyS,CostAccounting,Vijay Nicole Imprints Pvt. Ltd.								
	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-								
	accounting.html								
2	https://www.accountingtools.com/articles/what-is-material-costing.html								
3	https://www.freshbooks.com/hub/accounting/overhead-cost								

	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	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

3 – Strong, 2- Medium, 1- Low

$\underline{THIRD\ YEAR-SEMESTER-V}$

CORE - X: BANKING LAW AND PRACTICE

Subject	t L	Т	P	S	Credits	Inst.					
Code		1	r	3	Credits	Hours	CIA	External	Total		
	5				4	5	25	75	100		
					Learning C	bjectives					
LO1	To hel	p the s	student	s unde	rstand vario	us provisio	n of Banki	ng Regulation	Act 1949		
	applica	able to	bankin	g com	panies includ	ling cooper	ative banks	!			
LO2	To trac	ce the e	volutio	on of co	entral bank c	oncept and	prevalent o	central banking	system		
					roles and fur						
LO3		To throw light on Central Bank in India, its formation, nationalizing its organization									
					overnment, 1	role in pror	noting agric	culture and indu	stry, role		
	in fina	ncial ir	clusio	n							
1.04	Т	14	11	1	£1 . £		1	1			
LO4				capital	iund of com	imercial ba	nks, objecti	ves and process	s of Asset		
LO5	securit To evr			hanki	na exetame r	elationshin	of hankers	and customers.	crossing		
	-	-				cianonsinp	of ballkers	and customers,	, crossing		
	of cheques, endorsement etc. Contents No. of										
Unit									Hours		
	Introd	luction	to Ba	nking							
	Histor	y of l	Bankin	g- Pro	visions of	Banking 1	Regulations	Act 1949 -			
	Compo	onents	of In	dian 1	Banking - 1	Indian Ba	nking Syst	em-Phases of			
I		•		_				Banks, Private	15		
			_			•		Small Finance			
						anking - I	Jnit Bankii	ng - Universal			
	Bankir										
					ercial Bank		as Control	Ranking Va			
II					nctions of Ce			Banking Vs reation.	15		
II	Comm	ercial	Banki	ng: D	efinition -	Functions	- Persona	al Banking –	15		
	_		_	_	_	Core Banl	king System	n (CBS) - Role			
	of Ban Banki			nc Dev	elopment.						
		0		CASA	– Types of	Denosits -	Onening F	Bank Account-			
	• -				it Statement	-		Jann 11000ant			
		-						of Customers			
III	-KYC					1 P) F 32		15		
	Loans	& Adv	ances	–Lend	ing Sources-	Lending I	Principles-T	ypes of Loans			
	- class	ificatio	on of a	issets a	and income	recognition	ı / provisio	ning (NPA) –			
	Repo I	Rate &	Rever	se Rep	o Rate - secu	irities of le	nding-Facto	ors influencing			
	bank le	ending.	•								

IV	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 – Negotiation bank-Effect of endorsement-Rules regarding Endorsement. 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 Vs Collecting Banker- Customer Grievances-Grievance Redressal –Banking	15
V	Ombudsman. Digital Banking Meaning- Services - e-banking and financial services- Initiatives- Opportunities - Internet banking Vs Traditional Banking Mobile banking-Anywhere Banking-Any Time Banking- Electronic Mobile Wallets. ATM - Concept - Features - Types Electronic money- Meaning-Categories-Merits of e-money - National Electronic Funds Transfer (NEFT), RTGS, IMPS, UPI and Digital currency - Differences - Safety and Security in Digital Banking.	15
	TOTAL	75
	Course Outcomes	
CO1	Aware of vvarious provision of Banking Regulation Act 1949 applicable to banking companies including cooperative banks	
CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function	nking
CO3	Gain knowledge about the Central Bank in India, its formation, nationalizing organization structure, role of bank to government, role in promoting agricu and industry, role in financial inclusion	_
CO4	Evaluate the role of capital fund of commercial banks, objectives and process Asset securitization etc	ss of
CO5	Define the practical banking systems relationship of bankers and customers crossing of cheques, endorsement etc.	,
	Textbooks	
1	Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Pub Chennai	lication,
2	Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall India Learning Private Ltd, New Delhi	
3	Gupta P.K. Gordon E.Banking and Insurance, Himalaya publication, Kolkat	a
4	Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication, D	
5	K P Kandasami, S Natarajan & Parameswaran, Banking Law and Practice, S publication, New Delhi	

Reference Books								
1	B. Santhanam, Banking & Financial System, Margam Publication, Chennai							
2	KataitSanjay, Banking Theory and Practice, Lambert Academic Publishing,							
3	Henry Dunning Macleod, The Theory And Practice Of Banking, Hard Press Publishing, Old New Zealand							
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:	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/							

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
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
AVERAGE	3	2	2.6	2	3	2	2	2	3	3	2

Strong, 2- Medium, 1- Low

3 -

$\underline{THIRD\ YEAR-SEMESTER-V}$

CORE - XI: INCOME TAX LAW AND PRACTICE- I

Cubicat	L					Inst.		Marks		
Subject Code	L	T	P	S	Credits	Hours	CIA	Externa l]	Γotal
	5				4	5	25	75		100
					Learning C	Objectives				
LO1	To uno	derstan	d the b	asic co	ncepts & de	finitions un	der the Inc	ome Tax Ac	t,196	1.
LO2					status of an					
LO3					the head sala					
LO4	To lea	rn the	concep	ots of A	Annual value	e, associate	d deductio	ns and the c	alcul	ation of
	incom	e from	House	proper	ty.					
LO5	То сог	npute	the inc	ome fi	om Business	s & Profess	sion consid	dering its bas	ic pr	rinciples
	& spec	cific di	sallowa	ances.						
Prerequis	site: Sho	ould ha	ve stud	died Co	ommerce in 2	XII Std				
Unit					Conte	ents				No. of
Unit										Hours
	Introd			-						
т	Introduction to Income Tax – History – Objectives of Taxation - Features of Income Tax – Meaning of Income – Types – Important Definitions									
I										15
	Under the Income Tax Act –Types of Assessee – Income exempted under Section 10.									
	Reside		tatus							
II				Resid	ential Status	of an Indiv	vidual – Co	ompany – HU	JF	15
11	- Bas	ic Cor	ndition	s – A	dditional Co	onditions -	- Incidenc	e of Tax a	nd	13
					ems on Resid	lential Statu	is and Inci	dence of Tax		
	Incom			•	A 11	or 1 €	'1', D	, 17.	,	
III							•	uisites – Kin – Pension		15
111								Lieu of Salar		13
		utation				or Surary .	i ionis mi	21ca or Salar	,	
	Incom	e fron	1 Hous	e Prop	erty					
				-	-	_		Value – Gro		
IV								be let out Se		15
	Occup Proper		operty	– Dec	luctions – C	omputation	of Incon	ne from Hou	ise	
			Gains f	rom B	Susiness or P	Profession				
							ole Expens	ses – Expens	ses	
							-	osed Income		
V								69C, 69D)		15
Ť	-	•						of Accounts		10
				-		-	-	es on Estimat		
	Profes		icu inc	ome)	– Compu	ıanon 01 11	ncome iro	m Business	OI	
	1 10108	51UII.						TOTA	L	75
	THEC)RY 20)% &	PROR	LEMS 80%	<u> </u>			+	
						•				

	Course Outcomes								
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.								
	Chemiai.								
	Reference Books								
1	Hariharan N, Income Tax Law & Practice, Vijay Nicole Imprints Pvt. Ltd.								
1	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								
4	Income Tax, New Delhi.								
	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Practice, Sultan								
5	& Chand Sons, New Delhi.								
NOTE:	Latest 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								

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
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
AVERAGE	3	2.2	2.6	2	2.6	2	2	2	3	2.6	2

3 – STRONG, 2- MEDIUM, 1- LOW

THIRD YEAR – SEMESTER – V

CORE -XII: AUDITING & CORPORATE GOVERNANCE

Subje	ct _T	Т	D	C	Cuadita	Inst.		Mark	KS					
Code		T	P	S	Credits	Hours	CIA	Exte	rnal	Total				
	5				4	5	25	75	5	100				
					earning Obj									
LO1					rstand proce			lassific	cation	1.				
LO2					ternal check		ıl control.							
LO3					litors in com									
LO4	I	lp stud rnance.	ents un	idersta	nd the frame	work, theo	ries and m	odels o	of Co	rporate				
LO5			siohts	into th	e concept of	Corporate	Social Rest	onsihi	lity					
					Commerce			70115101	iity					
		iloulu i	ina ve se	uuicu	Contents	in this stud	•		N	o. of				
Unit										ours				
			I	ntrod	uction to Au	diting								
	Meanii	ng and			of Auditir	_	nction bety	ween						
I	Auditii	ng and	Acco	ounting	g – Object	ives – A	dvantages	and		15				
	Limita	tions of	Audit	– Scop	e of Audit –	Classificat	ions of Auc	lits –		13				
	Audit of For Profit enterprises and Non-profit Organizations													
	Audit Procedures and Documentation													
	l		_		gramme – Pr									
II	l				Check Syste		_			15				
			tions -	Veriti	cation of As	sets and L	iabilities an	d its						
	Valuat	ion		Cor	many Audi	tom								
	Annoir	ntment	and R		npany Audi d of Audito		nte Duties	and						
III					it Report - R					15				
111					(ISA) – Aud					13				
	l		•		puter - e-auc	_	ia the com							
					o Corporate		nce							
	Conce				Corporate			es &						
					es - Corpora									
IV	Major	Corpo	rate S	candal	s in India	and Abı	road: Com	mon		15				
	Govern	nance I	Problen	ns No	ticed in va	rious Corp	porate Fail	ures.						
	l				t, Social and	Governan	ce (ESG - 0	Code						
	of Con	duct – I			Auditors									
		a = -			Social Resp		.							
				-	Philanthropy			-	15					
\mathbf{V}					inability - (
					ernance - C									
	_	inies Ac	et, 2013	s (Sect	ion 135 sche	auie – VII). – CSK P	oncy						
	Rules				TOTAL					75				
					IUIAL					13				

	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 1.	Dinkar Pagare, Principles and Practice of Auditing, <u>Sultan Chand & Sons</u> , New Delhi								
2 1.	B. N. Tandon, S. Sudharsanam&S.Sundharabahu, Practical Auditing, S.Chand& Sons New Delhi.								
3 2.	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 3.	Dr.T.R. Sharma, Auditing, Sahithya Bhawan Publications, Agra								
3	C.B.Gupta, NehaSinghal, Auditing & Corporate Governance, Scholar Tech Press, New Delhi.								
4 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								

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
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
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2.6	2

3 – Strong, 2- Medium, 1- Low

<u>THIRD YEAR – SEMESTER – V</u> <u>DISCIPLINE SPECIFIC ELECTIVE – 1 / 2 : FINANCIAL MANAGEMENT</u>

Subjec	ıt					IFIC ELECTIV	Inst.	INANCIA	<u>Mark</u>		IEIVI
Code		L	T	P	S	Credits	Hours	CIA	Extern		Total
		4				3	4	25	75		100
					-	Learning Ob	iectives	1	'		
LO1	То	intro	duce 1	he co		of financial i		 			
LO2						ture theories.					
LO3						t techniques i	n capital bu	dgeting			
LO4						payment mod		<u> </u>			
LO5						and calculation		ng capital	in an org	aniz	ation.
						ed Commerc				,	
					~ ~ ~ ~ ~ ~	Contents				No	. of
Unit							•				urs
	Int	rodu	ction								
					ctives	of Financial	Manageme	nt – Func	tions of		
I	l .	_				Finance - S	_				
1	Fin	ancia	ıl Ma	nager	- F	inancial Goa	ls- Profit n	naximizat	ion Vs.		12
	Wealth Maximization – Concept of Time Value Money –Risk and										
						Financial Ma	inagement.				
				cision		ofinition N	Acomina T	haamiaa	Eastons		
	Capital Structure – Definition - Meaning- Theories- Factors determining Capital Structure – Various approaches of Capital structure										
II	l .			al – N	A eani	ng – Factors	determining	cost of	capital -		12
						ty Capital – (
						etained Earni					
	ı	-				apital (WAC	C) Leverag	ge – Cor	ncept –		
	_		_			Leverage					
				ecisio		eaning - Proc	ogg Cogh	Flow Est	imation		
		•	_	_		oraisal Metho					
III	Pay	back	Perio	od – A	ccou	nting Rate of	Return (AR	R).	unous		12
						Methods: No			NPV) –		
						- Profitability	Index.				
				cision		- ·					
13.7						Policies – I					10
IV						n Dividend I					12
	Dividend Models - Walter's Model - Gordon's Model - M&M Model.										
			g Car	oital l	Decisi	ion					
						aning and In	nportance –	Classific	cation -		
V	ı	_	- 1			- Factors Inf	-				12
	l .		_		_	Capital - Mar	_	Current	Assets:		
	Inv	entor	ies, A	ccou	nts Re	eceivables and					
	TOTAL										60
				THE	ORY	40% & PRO	DBLEMS 60	0%			

		Course Outcomes								
CO	l	Recall the concepts in financial management.								
CO2	2	Apply the various capital structure theories.								
CO	3	Apply capital budgeting techniques to evaluate investment proposals.								
CO ₂	1	Determine dividend pay-outs.								
CO:	5	Estimate the working capital of an organization.								
Textbooks										
1	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	1.	Prasana Chandra, Financial Management, Tata McGraw Hill, NewDelhi.								
2	2.	I.M. Pandey, Financial Management, Vikas Publishing, Noida.								
3	3.	Khan & Jain, Financial Management, Sultan Chand &Sons, New Delhi.								
4.		A.Murthy, Financial Management, ,Margham Publications, Chennai.								
5.	4.	J. Srinivasan and P. Periyasamy, Financial Management, Vijay Nicole Publishers, Chennai.								
NOT	E:	Latest 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								

	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	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
AVERAGE	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

<u>DISCIPLINE SPECIFIC ELECTIVE – 2 /2 : INDIRECT TAXATION</u>

Subjec	et	L	Т	P	S	Credits	Inst.		Marks	
Code			1	Г	3		Hours	CIA	External	Total
		4				3	4	25	75	100
]	Learning Ob	jectives			
LO1	Тоя	get in	ıtrodu	iced to	o indi	rect taxes				
LO2	_	_				Indirect taxes				
LO3	To l	be fa	miliar	the (CGST	and IGST Ac	et			
LO4	To 1	learn	proce	edure	s unde	er GST				
LO5 To gain knowledge about Customs Duty.										
Prerequisite: Should have studied Commerce in XII Std										
Unit						Conten	ts			No. of Hours
I	Introduction to Indirect Tax Concept and Features of Indirect Taxes - Difference between Direct and Indirect Taxes - Special Feature of Indirect Tax Levies - Contribution to Government Revenues - Role of Indirect Taxation - Merits and Demerits of Indirect Taxation - Reforms in Indirect Taxation - Introduction to Foreign Trade Policy (FTP) 2023									12
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 Implementation of GST -									
III	Challenges in Implementation of GST. CGST & IGST Act 2017 Supply - 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-Profitoering Pules - Doctring of Univer Engishment								12	
IV	Supply.— Anti Profiteering Rules — Doctrine of Unjust Enrichment Procedures under GST Registration 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 GST.									12
V	Cus	Customs Act 1962 Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules &Exemptions.								
						TOTA	Ĺ			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							
	<u>TEXTBOOKS</u>							
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), SAHITYA BHAWAN PUBLICATIONS, AGRA.							
3	RAJAT MOHAN, GOODS & SERVICES TAX, BHARAT LAW PUBLICATIONS HOUSE, NEW 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.							
<u>2</u>	T.S. REDDY&Y.HARIPRASAD REDDY, BUSINESS TAXATION, MARGHAM PUBLICATIONS, CHENNAI.							
3	STUDY MATERIAL ON GST - THE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA /THE INSTITUTE OF COST ACCOUNTANTS OF INDIA, CHENNAI.							
4	GUIDANCE MATERIAL ON GST ISSUED BY CBIC, GOVERNMENT OF INDIA.							
NOTE:	LATEST EDITION OF TEXTBOOKS MAY BE USED							
	WEB RESOURCES							
	HTTPS://IIMSKILLS.COM/GOODS-AND-SERVICES-TAX/#:~:TEXT=GST-%20AN							
1	%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							

	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	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	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

<u>DISCIPLINE SPECIFIC ELECTIVE - 3 /4: SOFTWARE</u> ENGINEERING AND UML LAB

Subje		\mathbf{L}	T	P	S	Credits	Inst.		Marks	
Cod	e						Hours	CIA	External	Total
		2		2		3	4	25	75	100
						Learning Ob	jectives			
LO1	To i	ntro	duce	the so	oftwa	re developme	nt life cycle	s		
LO2		ntro gn c		conce	epts re	elated to struc	ctured and ol	ojected or	riented analy	sis &
LO3	Top	orov	ide a	n insi	ght in	to UML and	software tes	ting techn	iques	
Prereq	uisite:	Sho	uld ł	nave s	tudie	d Commerce	e in XII Std			
Unit						Conten	ts			No. of Hours
Ι	Introduction – Evolution – Software Development projects –									
II		Requirement Analysis and Specification – Gathering and Analysis – 6 SRS – Formal System Specification								
III	Software Design – Overview – Characteristics – Cohesion & Coupling – Layered design – Approaches Function Oriented Design – Structured Analysis – DFD – Structured Design – Detailed design									
IV		Clas	ss, Int	teracti	on, A	ML – OO con	ncepts – UM	IL – Diag	rams – Use	6
V		-box	x, Wł	nite-bo	ox, In			entation -	- Testing –	6
						TOTA				30
	- T-1		1 .	1 .	1.1	Course Out		•	. 1	
CO1	1			shoul g tool		ble to specify	software re	quiremen	its, design th	e
CO ₂	To v	vrite	test	cases	using	different test		ies.		
	1					Textboo			2016 7 7 7	
1						als of Softwa				
2	_				-	tware Engine Edition.		actitioner	's Approach	• • •
	1					Reference				
1		•			_	rated Approa	ch to Softwa	re Engin	eering", Nar	osa
NOTE:						Brd Edition.	Head			
NUIE	Lates	t LC	uuon	1 01 1	extD0	oks May be				
1	Web Resources NPTEL online course – Software Engineering - 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 the class/lab/field)

- To get familiarized to the usage of UML tool kit.
- To understand the requirements of the software and to map them appropriately to subsequent phases of the software development
- To develop the ability to verify and validate their designs

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 the correctness 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 Futorial hour)							
Skills acquired from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill							

Learning Resources:

Recommended Texts

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

Reference Books

- 1. 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

<u>DISCIPLINE SPECIFIC ELECTIVE – 4 /4</u>: OBJECT ORIENTED ANALYSIS AND DESIGN AND UML LAB

Subje		L	Т	P	S	Credits	Inst.		Marks	
Cod	e						Hours	CIA	External	Total
		2		2		3	4	25	75	100
						Learning O	bjectives			
LO1	_							•	ftware using to	
LO2									ent testing tech	miques.
Prereq	uisite	: Sho	ould l	nave s	tudie	ed Commerce	in XII Std.			
Unit						Conter	nts			No. of Hours
I	Object Orientation – System development – Review of objects - inheritance - Object I relationship – Dynamic binding – OOSD life cycle – Process – Analysis – Design – prototyping – Implementation – Testing- Overview of Methodologies									
II	Rambaugh methodology, OMT – Booch methodology, Jacobson methodology – patterns – Unified approach – UML – Class diagram – 6 Dynamic modelling.									
III	Introduction - UML - Meta model - Analysis and design - more information. Outline									
IV			_			ass visibility - Table – cla	_			6
V				_	-	каде diagram /IL and progra	mming	ram-activ	ity diagram-	6
						TOTA				30
CO1		stude g too		nould	be ab	Course Outle to specify s		uirements	, design the so	ftware
CO2	To v	vrite	test ca	ases u	sing o	different testin		S		
						Textbo				
1		Bahra ion 2		Objec	t Orio	ented System	Developmen	ıt", McGı	aw-Hill Intern	ational
2	Mar	tin Fo	wler,	, Kend	dall S	cott, "UML D	istilled", Ad	dision W	esley	
3	Erik	sson,	"UM	L Too	ol Kit	", Addison W	esley			
						Reference	Books			
1	Rooch G. "Object oriented analysis and design" Addison, Wesley Publishing									ing
2	Rambaugh J, Blaha.M. Premeriani, W., Eddy F and Loresen W., "ObjectOrientedModeling and Design", PHI									
NOTE						oks May be l				

UML Lab	Core - Core -S5EC1/2L
Common for both Electives in semester V	
Credits 4	Lecture Hours:5 per week

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

- To get familiarized to the usage of UML tool kit.
- To understand the requirements of the software and to map them appropriately to subsequent phases of the software development
- To develop the ability to verify and validate their designs

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 the correctness 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

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)
	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable 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 – V VALUE EDUCATION

Common Syllabus for All UG course

THIRD YEAR – SEMESTER – V Summer Internship / Industrial Training

COURSE CODE: SI/IT		Year and S III year/V		Pre-Requisite:	l	tal urs / eek 2			
Lead to other courses	Project Preparat	Project Preparation							
Theory & Problems	Marks: 7	5	Cr	0	0	0			

Note: Students to go for internship and submit a report.

THIRD YEAR – SEMESTER - VI

<u>CORE –XIII: COST ACCOUNTING – II</u>

Code L T P S Credits Hours CIA External Total	Subje	ect	_	Т	ъ		C 1'4	Inst.		Marks		
Loarning Objectives	•		L	T	P	S	Credits	Hours	CIA	External	Total	
LO1			6				4	6	25	75	100	
LO1]	Learning Ob	jectives				
LO2 To know the concepts of contract costing.	LO1	To u	nde	rstand	the sta			•				
LO3		t										
LO4 To learn about operation costing.								•				
To gain insights into standard costing.								<u> </u>				
Prerequisite: Should have studied Cost Accounting in V Semester Unit					_							
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 Measurement. Job Costing, Batch Costing and Contract Costing Definitions - Features - A Comparison - Calculation of Profit on Contracts – Cost Plus Contract - Preparation of Contract A/c. Process Costing Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Preparation of Process Accounts - Treatment of Loss and Gain :Normal and Abnormal Loss -Abnormal Gain - Concept of Equivalent Production - Joint Products and By Products. Operation Costing Operation Costing – Meaning – Preparation of Operating Cost Sheet – Transport Costing – Power Supply Costing–Hospital Costing–Simple Problems. 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 Variances – Calculation of Variances. TOTAL 90 THEORY 20% & PROBLEMS 80% Course Outcomes Col Remember and recall standards in cost accounting Co2 Apply the knowledge in contract costing Understand various bases of classification cost and prepare operating cost statement.											No. of Hours	
II Definitions - Features - A Comparison - Calculation of Profit on Contracts - Cost Plus Contract - Preparation of Contract A/c. Process Costing Process Costing - Meaning - Features of Process Costing - Application of Process Costing - Fundamental Principles of Process Costing - Preparation of Process Accounts - Treatment of Loss and Gain :Normal and Abnormal Loss - Abnormal Gain - Concept of Equivalent Production - Joint Products and By Products. IV Operation Costing - Preparation of Operating Cost Sheet - Transport Costing - Power Supply Costing-Hospital Costing-Simple Problems. 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 Variances - Calculation of Variances. TOTAL 90 THEORY 20% & PROBLEMS 80% Course Outcomes CO1 Remember and recall standards in cost accounting CO2 Apply the knowledge in contract costing Understand various bases of classification cost and prepare operating cost statement.	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								18			
Process Costing Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Preparation of Process Accounts - Treatment of Loss and Gain :Normal and Abnormal Loss -Abnormal Gain - Concept of Equivalent Production - Joint Products and By Products. IV Operation Costing	II	II Definitions - Features - A Comparison - Calculation of Profit on							18			
IV Operation Costing – Meaning – Preparation of Operating Cost Sheet – Transport Costing – Power Supply Costing–Hospital Costing–Simple Problems. 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 Variances – Calculation of Variances. TOTAL 90 THEORY 20% & PROBLEMS 80% Course Outcomes CO1 Remember and recall standards in cost accounting CO2 Apply the knowledge in contract costing CO3 Analyze and assimilate concepts in process costing Understand various bases of classification cost and prepare operating cost statement.	III	Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Preparation of Process Accounts - Treatment of Loss and Gain :Normal and Abnormal Loss -Abnormal Gain - Concept of Equivalent Production - Joint Products and By								18		
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 Variances – Calculation of Variances. TOTAL 90 THEORY 20% & PROBLEMS 80% Course Outcomes CO1 Remember and recall standards in cost accounting CO2 Apply the knowledge in contract costing CO3 Analyze and assimilate concepts in process costing Understand various bases of classification cost and prepare operating cost statement.	IV	Oper Tran	ratio spo	on Cos rt Cos	ting –						18	
THEORY 20% & PROBLEMS 80% Course Outcomes CO1 Remember and recall standards in cost accounting CO2 Apply the knowledge in contract costing CO3 Analyze and assimilate concepts in process costing Understand various bases of classification cost and prepare operating cost statement.	V	Stan Defin Cost Mate	dar nitio – l erial	rd Cos on – C Installa , Labo	Objectivition o	ves – A f Stanc	Advantages lard Costing	– Standard System –	Variance	Analysis –	18	
THEORY 20% & PROBLEMS 80% Course Outcomes CO1 Remember and recall standards in cost accounting CO2 Apply the knowledge in contract costing CO3 Analyze and assimilate concepts in process costing Understand various bases of classification cost and prepare operating cost statement.										TOTAL	90	
CO1 Remember and recall standards in cost accounting CO2 Apply the knowledge in contract costing CO3 Analyze and assimilate concepts in process costing CO4 Understand various bases of classification cost and prepare operating cost statement.	THEO	RY 20	0%	& PR	OBLE	MS 80)%					
CO2 Apply the knowledge in contract costing CO3 Analyze and assimilate concepts in process costing CO4 Understand various bases of classification cost and prepare operating cost statement.								tcomes				
CO3 Analyze and assimilate concepts in process costing CO4 Understand various bases of classification cost and prepare operating cost statement.	CO1	Rem	nem	ber and	d recal	l standa	ards in cost a	ccounting				
CO3 Analyze and assimilate concepts in process costing CO4 Understand various bases of classification cost and prepare operating cost statement.	CO ₂	App	ly tl	he kno	wledge	e in cor	ntract costing	,				
statement.	CO ₃											
CO5 Set up standards and analyse variances.	CO4				rious t	pases of	f classification	on cost and	prepare op	perating cost		
	CO5	Set ı	up s	tandar	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 Delhi.								
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand publications, New Delhi.								
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications, 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 Delhi.								
4	Murthy A &Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pvt. Ltd.								
	Chennai.								
5	Prasad. N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Bangladesh.								
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								

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
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
AVERAGE	3	3	3	2	2.6	3	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER – VI

CORE – XIV: MANAGEMENT ACCOUNTING

Subjec	t -				- AIV, MAN	Inst.		Marks		
Code	L	T	P	S	Credits	Hours	CIA	Extern	al Total	
	6				4	6	25	75	100	
		-1		L	earning Obj	ectives		•	<u> </u>	
LO1	To un	derstan	d basic		agement acco					
LO2					nancial Stater		vsis			
LO3					low and cash					
LO4		rn abou								
LO5					inal costing.					
Prerequ	isite: S	hould l	nave st	udied	Financial A	ccounting	in I Semes	ter.		
Unit					Contents				No. of Hours	
	Introd	uction 1	to Man	agem	ent Account	ing			110415	
I	Limitat Manage Analys Signific Compa Analys	ions - ement A is and I cance — rative is.	Manag Accoun Interpre Types Statem	gemen ting V etation of Fi	 Meaning Accounting Financial A of Financial nancial Analy Common 	g Vs Cost accounting. I Statemen ysis – Too	t Accounting ts – Nature ls of Analy	ng – e and esis –	18	
II	Ratio Analysis Ratio Analysis: Meaning – Advantages – Limitations – Types of Ratios – Liquidity Ratios – Profitability Ratios - Turnover Ratios – Solvency Ratios – Leverage Ratios - Preparation of Financial Statements from Ratios.								18	
III	Introdu Flow of Adjuste Statem Cash l Prepara	ction, Moreof Fundation States	Meaninds - Sit and tateme	g of F Schedu Loss Int: M Flow S	Analysis unds Flow S ale of Chang Account - P Icaning – Account as pressing active	ges in W reparation dvantages per AS 3 —	orking Cap of Funds : – Limitation	pital- Flow ons –	18	
IV	Budge t Meanir Flexibl	t and B ag – Pre e Budge	udgeta paratio et– Pro	ory Co on of V ductio	ntrol 7arious Budge n Budget – S	ets – Cash l			18	
V	Flexible Budget – Production Budget – Sales Budget – Master Budget – Budgetary Control – Benefits Marginal Costing: Meaning - Features – Marginal Costing vs Absorption Costing - Fixed Cost, Variable Cost and Semi Variable Cost- Contribution- Marginal Cost Equation- P/V Ratio - Break Even Point - Margin of Safety – Cost- Volume Profits Analysis. Decision Making: Selection of a Product Mix – Make or Buy Decision – Discontinuance of a product line – Change or Status quo – Limiting Factor or Key Factor.									
					TOTAL				90	
THEOR	RY 20%	& PR	OBLE	MS 80	0%					

 CO1 Remember and recall basics in management accounting 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 costi 	ng.										
CO3 Analyse the concepts relating to fund flow and cash flow CO4 Evaluate techniques of budgetary control	ng.										
CO4 Evaluate techniques of budgetary control	ng.										
1 6 7	ng.										
CO5 Formulate criteria for decision making using principles of marginal costi	ng.										
Textbooks											
Jain S.P. & Narang K.L. (2018) Cost and Management Accounting, Kaly	yani										
Publications,											
Rds. Maheswari, Cost and Management Accounting, Sultan Chand Sons	S										
Publications, New Delhi.											
Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publish	iers,										
Chennai.											
Jenitra L Mervin ,Daslton L Cecil, Management Accounting, Lerantec P.	ress,										
Chennai.											
T.S.Reddy& Y. Hari Prasad Reddy, Management Accounting,											
MarghamPublications,Chennai.											
Reference Books											
Chadwick – The Essence of Management Accounting, Financial Times											
Publications, England.											
Charles T.Horngren and Gary N. Sundem–Introduction to Management											
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 We	stern										
College, India.											
5 N.P. Srinivasan, Management Accounting, New Age publishers, Chenna	i.										
NOTE: Latest Edition of Textbooks May be Used											
Web Resources											
https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flo	<u>ow-</u>										
analysis-accounting/13300											
2 https://accountingshare.com/budgetary-control/											
3 <u>https://www.investopedia.com/terms/m/marginalcostofproduction.asp</u>											

	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	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
AVERAGE	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

CORE - XV: INCOME TAX LAW AND PRACTICE - II

LO1 To understand provisions relating to capital gains LO2 To know the provisions for computation of income from other sources. LO3 To familiarize law relating to set off and carry forward of losses and deduction from Gross Total Income. LO4 To learn about assessment of individuals LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem Capital Gains Capital Assets - Transfer - Short term vs Long term capital assets -	. of urs
LO1 To understand provisions relating to capital gains LO2 To know the provisions for computation of income from other sources. LO3 To familiarize law relating to set off and carry forward of losses and deduction from Gross Total Income. LO4 To learn about assessment of individuals LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem Unit Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	octions of urs
LO1 To understand provisions relating to capital gains LO2 To know the provisions for computation of income from other sources. LO3 To familiarize law relating to set off and carry forward of losses and deduction from Gross Total Income. LO4 To learn about assessment of individuals LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem Contents Capital Gains Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	. of urs
LO2 To know the provisions for computation of income from other sources. LO3 To familiarize law relating to set off and carry forward of losses and deduction from Gross Total Income. LO4 To learn about assessment of individuals LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem Contents Capital Gains Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	. of urs
LO3 To familiarize law relating to set off and carry forward of losses and deduct from Gross Total Income. LO4 To learn about assessment of individuals LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem Contents Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	. of urs
from Gross Total Income. LO4 To learn about assessment of individuals LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem Unit Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	. of urs
LO4 To learn about assessment of individuals LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem Contents Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	urs
LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem Contents Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	urs
Prerequisite: Should have studied Financial Accounting in I stSem Contents Contents No. Hou Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	urs
Unit Contents No. Hou Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets – Computation of Capital Gains – Exemption under Section 54, 54B,	urs
Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets - Computation of Capital Gains – Exemption under Section 54, 54B,	urs
Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets - Computation of Capital Gains – Exemption under Section 54, 54B,	
I Capital Assets – Transfer – Short term vs Long term capital assets - Computation of Capital Gains – Exemption under Section 54, 54B,	10
Computation of Capital Gains – Exemption under Section 54, 54B,	10
	18
1 0 12 1 0 12 0 0 12 10 0 10 12 10 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	
Income From Other Sources & Clubbing of Income	
Chargeability - Computation of Income from Other Sources -	18
Deductions Allowed – Clubbing of Income – Concept	10
Set Off and Carry Forward of Losses and Deductions From	
Gross Total Income Gross Total Income vs Total Income - Provisions for Set-off and	
	18
80CC, 80CCB, 80CCC, 80CCD, 80 CCE, 80D, 80DD, 80DDB, 80E,	10
80EE, 80EEA, 80EEB, 80G, 80GG, 80GGA, 80TTA, 80TTB, and	
80U only.	
Computation of Total Income – Individual	
Computation of Total Income. Toy Lightlife of an Individuals (Old	18
regime vs New regime	10
Income Toy Authorities	
Income Tax Authorities Administration of Income Tax Act – Income Tax Authorities –	ļ
Powers of CBDT – Powers of Income Tax Officer - Procedure for	
Assessment - Filing of Return - Due Dates of Filing - Voluntary	
V Filing – Return of Loss – Belated Return – Defective Return –	18
Signing of Return – Permanent Account Number (PAN), e-PAN –	
Tax credit statement (26 AS) and Annual Information Statement	
(AIS).	
TOTAL 9	90
THEORY 20% & PROBLEMS 80%	

	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-2021-22/assessment/1-assessment-of-an-individual.html									
3	https://www.incometax.gov.in/iec/foportal/									

	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	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

DISCIPLINE SPECIFIC ELECTIVE 5/6 ENTREPRENEURIAL DEVELOPMENT

Subject			р	S	Credits			Marks				
Code		-		5		Hours	CIA	Externa				
	5				3	5	25	75	100			
				L	earning Obj	ectives						
LO1	To kno	w the	mean	ing aı	nd characteris	tics of entre	epreneurs	hip				
LO2	To ider	ntify tl	ne var	ious l	ousiness oppo	rtunities						
LO3					ess of setting	<u> </u>						
LO4	To gain enterpr		wledg	ge in	the aspects of	of legal Con	npliance	of setting	g up of an			
LO5	To dev	elop a	n und	erstar	nding of the re	ole of MSM	E in eco	nomic gro	wth			
Prerequisite: Should have studied Commerce in XII Std												
Unit					Content	S			No. of Hours			
I	– Diff	ics of bloyment ment — netions —	15									
II	Design Thinking Idea Generation – Identification of Business Opportunities – Design Thinking Process – Creativity – Invention – Innovation – Differences – Value Addition – Concept and Types – Tools and Techniques of Generating an Idea – Turning Idea into Business											
III	Opportunity. Setting up of an Enterprise Process of Setting Up an Enterprise – Forms of an Enterprise – Sole Proprietorship – Partnership – Limited Liability Partnership Firm – Joint Stock Company – One Man partnership – Choice of Form of an Enterprise – Feasibility Study – Marketing, Technical, Financial, Commercial and Economical.											
IV	Busine Introdu Market setting Modern	ss Mo ction Surv Up on Sour	del C – Correy – f an I	canvantents Funce Enterp	s and Formu of Project Red Requirement orise — Regist ds.	llation of P port – Proje nt – Legal	roject Re ect Descr Compli	iption – ance of	15			
V	Govern Importa Definit Entrepo Village SDC, H	ance ion eneur Indus EDII, I Minis	Schof M - I ship I stries EPCC ter E	nemes MSME Role Devel Comr B. In	E for Econo of Gover opment – MS nission – NSI dustrial Estat yment Gener	omic Grow comment O SME DI – I CC – NABA es – Govern	rganizati DIC – K RD, SIC nment Sc	ISME – ons in hadi and VI, SFC, themes –	15			
				T	OTAL				75			

	Course Outcomes
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,VijayNicoleandImprints 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 I	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/

	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	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	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER – VI

DISCIPLINE SPECIFIC ELECTIVE – 6 /6: HUMAN RESOURCE MANAGEMENT

Subjec	et	т	Т	Ъ	C	C 1:4	Inst.		Marks					
Code		L	T	P	S	Credits	Hours	CIA	External	Total				
		5				3	5	25	75	100				
	Learning Objectives													
C1	То	explo	ore to	the as	spects	relating of H	uman resou	rce manag	gement					
C2	Toequip with the various processes of Recruitment and Selection													
C3	1	To be acquainted with Training methods and the concept of Performance												
		praisa												
C4	<u> </u>					Relations	10							
C5						on employee								
Prerequ	isite	: Sno	outa n	iave s	tuaie	d Commerce	ın XII Sta.			No. of				
Unit						Contents	S			Hours				
	Int	rodu	ction	to H	RM					liours				
						ectives – Impo	ortance – Na	ture- Sco	pe. Role					
					, ,	Manager - 1			1 1					
I	Me	aning	g, Def	finitio	n, Im	portance, Fac	ctors Affect	ing HRP,	Process	12				
	Inv	olved	l in	Huı	nan	Resource P	lanning. F	Iuman F	Resource					
				•		IS) - Job Ana	•		Analysis,					
						b Description		cation.						
						SELECTIO		-:4						
II						 Factors aff of recruitme 				12				
11						types— Kind				12				
	1					pointment Ord		mont mic	31 110 11					
						ELOPMENT								
	Ind	uctio	n – T	rainir	ng – N	Methods – Teo	chniques – l	dentificat	ion of					
III						aining and D				12				
						Promotion and	d terminatio	n of serv	ices –					
			Develo			TONC								
						TONS Settlements (Lawe Evalu	ided) S	ettling					
	1			-		India – Arb			_					
IV						on – Function				12				
						Workers' par			1					
	Types and effectiveness.													
			YEE				54.1							
						eaning, Obje			- 1					
V	V Limitations, Types of Employee Welfare, Statutory and Non-Statutory Welfare Measures, and Labour Welfare Theories-Social							12						
						ement &Othe								
	1	•				on – Incentives		Kennunci	uuon –					
						TOTAL				60				

CO	Course Outcomes
CO1	Examine the role of HRM in the new ageorganisation and plan man power
COI	requirements and implement techniques of job design.
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 Education, Noida.
2	Mamoria, C.B. and Gaonkar, S.V, Personnel Management, Himalaya Publishing House, Mumbai.
3	Sunil Lalla and Neha Shukla, Human Resource Management, Nirali Prakashan Publishers, Pune.
4	P.Subba Rao, Personnel and Human Resource Management, Himalaya Publishing House, Mumbai.
	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, Wiley, India.
3	Dr.K.Sundar and Dr.J Srinivasan, Human Resource Development, Margham Publications, Chennai.
4	Jane Weightman, Human Resource Management, VMP Publishers, Mumbai.
NOTE:	Latest 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/employee-welfare/employee-welfare/99778

	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	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 DISCIPLINE SPECIFIC ELECTIVE – 7 / 8: R LANGUAGE

Subject		T	P	S	Cwadita	Inst.		Marks			
Code	L	1	P	3	Credits	Hours	CIA	External	Total		
			5		3	5	25	75	100		
				L	earning Obje	ectives					
LO1	Acquir	e prog	ramn	ning s	kills in core F	R Programm	ing				
LO2	Acquire Object-oriented programming skills in R Programming.										
LO3	Develo	Develop the skill of designing graphical-user interfaces (GUI) in R									
	Programming										
LO4					g skills to mo		cific bran	ches			
Prerequis	ite: Shou	ıld ha	ve sti		Commerce i						
					List of Exer	cises					
		Data		1 777	· · · · · · · · · · · · · · · · · · ·						
			_		iting Data						
		R and		bases							
		Dates Facto									
		Subsc		OT.							
				_	oulation						
		Data .		-							
					Basics						
		The F									
					Distributions						
			•		stics and Gra	phics					
			-		Sample Tests	•					
	14.	Regre	ession	And	Correlation						
					iance And Th	e Kruskal-	Wallis Te	est			
		Tabul									
					Computation (Of Sample S	Size				
					Handling						
		Multi	1	_	sion						
		Linea									
		Logis		_							
		Survi		•							
					n Regression						
	<i>∠</i> 4.	тиопп	near (Fitting OTAL				75		
					Course Outc	omes			13		
CO1	To under	stand	the pr		n solving app						
CO2	To learn	the ba	sic pr	ogran	nming constru	icts in R Pro	ogrammi	ng			
	To praction			ompu	iting strategie	s for R Prog	grammin	g -based sol	utions to		
				ng da	ta structures ·	lists, tuple	s, diction	aries.			
					les in R Progi		-				

THIRD YEAR – SEMESTER - VI DISCIPLINE SPECIFIC ELECTIVE – 8 / 8: PRACTICAL TALLY

0.11			DISCII	<u> LINE</u>	SPEC	<u> EIFIC ELECTI</u>		<u>FRACII</u>		<u> </u>	
Subje		L	T	P	S	Credits	Inst.		Marks	-	
Code	2						Hours	CIA	External	Total	
	2 3 3 5 25 75									100	
	Learning Objectives										
LO1	Examination of general accounting applications as they apply to										
LOI	- 1				_	records for e					
	- 1	_				al statements	_				
	- 1	-	itions.		ianon	ii statements	, as wen	us mune	igement acc	Jounning	
Preregu					ıdied	Commerce	in XII Std				
2202040		21101				List of Exer					
		1.	Prepa	ration		Trial Balance		ion of p	rofit and		
			_			alance sheet	1 1	1			
		2.	Intere	est si	mple,	compound	interest ca	lculation.	Setting		
					_	terest report.					
		3.	Rece	ivable	and	payable man	agement, m	neaning a	ctivating		
						all types of e					
		4.				d Category si	• .		*		
			_		_	oup breakup		_			
						t receivable					
						aybook list o	f account r	eversing .	journals,		
		_		nal vo			,•	C 1 1			
		3.	_		_	ary control		_			
			_		_	ry ledger cı	eation afte	ration of	buagei		
		6		on of	_	ei. GST, Ge	atting stor	ted with	GST		
		0.				out tax to GS	_				
				repor		ut tax to GS	1, microsi	suppry 0	1 goods,		
		7.		1		nce entries,	Exports In	nnorts E	xempted		
		, .		_		ent and Retur	-	-	- 1		
		8.				merce Intro					
						Procedures					
						t: - Introduc					
	Service Distributors										
		9.	Matc	hing	of In	out Tax Cred	lit, Returns	, GSTR-	2, Other		
			Taxa	ble Pe	ersons	, Annual Re	turn, Overv	view of the	he IGST		
	Act, Overview, Other Provisions.										
	10. GST Portal, Introduction, GST Eco-system, GST Suvidha										
			Provi	der (C	GSP),	Uploading In	voices				
						OTAL					
						Course Outc					
CO1	_	-			-	st entries and	prepare fina	ancial sta	tements for o	eash	
			ıal-ba					.•	1.0		
CO2						and inventory				ınıng	
_	acco	ounts	payat	ie, ac	count	s receivable,	and invento	ry subsid	ary ledgers		

THIRD YEAR – SEMESTER - VI

PROFESSIONAL COMPETENCY SKILL

GENERAL AWARENESS FOR COMPETITIVE EXAMINATION

Subje	ect	_	T			G 114	Inst.		Marks	
Cod		L	T	P	S	Credits	Hours	CIA	External	Total
		2				2	2	25	75	100
]	Learning Ob	jectives			
LO1						y for learning			sciplines an	d builds
	experience for students as they grow into lifelong learners.									
LO2	To build experiences for students as they grow into lifelong learners.									
LO3						ts of various of				
	uisite	s: Sh	ould	have	studi	ed Commerc]		T
UNIT						Details	S			No. of Hours
I	Basi Legi featu dutie Ame subje	slaturares (es, Eendmeets b	oncepone, June of confirments to the true of true	dicianstitute of the control of the	ry), Intion, Princip Cons cunion	organs of I ntroduction to Preamble, Fu oles of Stat titution, Basic in and the state ission, CAG.	o Indian Coundamental e policy, of structure I	onstitutio rights, F Types of Doctrine,	n – Salient undamental f Majority, Division of	6
II	India and Election Commission, CAG. Geography Major oceans of the world –Important Canals – Gulfs – Straits and passes – Indian Rivers and its Tributaries – Climatology – Atmosphere, Wind systems, Clouds systems, World climatic classification – Indian climate – Indian Monsoon – Indian's physical features, Indian Soil types and Distribution – Importance Trade routes and projects, Indian naturals vegetation – Indian agriculture- Major crops and its distribution, Indian								6	
III	Industries and its Distribution. Economy National Income – Inflation – Money and Banking - Agriculture in India – Union Budget – Planning in India – Poverty – Unemployment – Inclusive Development and Development issues – Industrial polices – Einangiel Markets								6	
IV	Financial Markets. History Modern India – formation of Indian National Congress – Morley Minto Reforms, Revolutionary activities – World War I and India's Response – Home Rule league – Montague Chelmsford reforms – Rowlett Act – Non –Cooperation Movement – Simon commission and Nehru Report – Civil Disobedience Movement and Round Table conferences – Quit India Movement and Demand for Pakistan – Cabinet Mission – Formation of Constituents Assembly and partition of India.								6	
V	Env Basi Geo Inter	Environment and Ecology Basic concepts – Ecology, Biodiversity- Food chain and food web – Bio Geo Chemical Cycles – International Bio Diversity organisations- International Conventions – Conferences and Protocol – Indian Environmental laws and Environment Related organisation								
									TOTAL	30

	Course Outcomes							
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							

THIRD YEAR – SEMESTER - VI PROFESSIONAL COMPETENCY SKILL

NAAN MUDHALVAN -DIGITAL BANKING, LOGISTICS AND AUDIT ESSENTIALS