

THIRUVALLUVAR UNIVERSITY

SERKKADU, VELLORE-632115

B.Com. COMPUTER APPLICATION

SYLLABUS

FROM THE ACADEMIC YEAR
2023 - 2024

Contents

- i. PO and PSO Description
- ii. UG Template
- iii. Methods of Evaluation & Methods of Assessment
- iv. Semester Index.
- v. Subjects Core, Elective, Nonmajor, Skill Enhanced, Ability Enhanced, Extension Activity, Environment, Professional Competency
 - 1) Course Lesson Box
 - 2) Course Objectives
 - 3) Units
 - 4) Learning Outcome
 - 5) Reference and Text Books
 - 6) Web Sources
 - 7) PO & PSO Mapping tables

B.COM., COMPUTER APPLICATION

PROGRAMME OBJECTIVE:

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

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

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

TANSCHE RI	TANSCHE REGULATIONS ON LEARNING OUTCOMES-BASED CURRICULUM					
FRAMEWOR	K GUIDELINES BASED REGULATIONS FOR UNDER GRADUATE					
	PROGRAMME					
Programme:	B.COM., COMPUTER APPLICATION					
Programme						
Code:						
Duration:	UG - 3 years					
Programme	PO1: Disciplinary knowledge: Capable of demonstrating					
Outcomes:	comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express 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 Programme

Sem I	Credit	Sem II	Credit	Sem III	Credit	Sem IV	Credit	Sem V	Credit	Sem VI	Credit
1.1. Language - Tamil	3	2.1. Language - Tamil	3	3.1. Language - Tamil	3	4.1. Language - Tamil	3	5.1 Core Course – \CC IX –Theory	4	6.1 Core Course – CC XIII–Theory	4
1.2 English	3	2.2 English	3	3.2 English	3	4.2 English	3	5.2 Core Course – CC X–Theory	4	6.2 Core Course – CC XIV–Theory	4
1.3 Core Course – CC I (Theory)	5	2.3 Core Course – CC III (Theory)	5	3.3 Core Course – CC V (Theory)	5	4.3 Core Course – CC VII –Theory/ Core Industry Module	5	5. 3.Core Course CC -XI–Theory	4	6.3 Core Course – CC XV–Practicals	4
1.4 Core Course – CC II (Practical)	5	2.4 Core Course – CC IV (Practicals)	5	3.4 Core Course – CC VI (Practicals)	5	4.4 Core Course – CC VIII (Practicals)	5	5. 3.Core Course – Practicals / Project with viva- voce CC -XII	4	6.4 Elective -VII Generic/ Discipline Specific	3
1.5 Elective I Generic/ Discipline Specific (Allied Course I)	5	2.5 Elective II Generic/ Discipline Specific (Allied Course II)	6	3.5 Elective III Generic/ Discipline Specific (Allied Course III)	5	4.5 Elective IV Generic/ Discipline Specific (Allied Course IV)	6	5.4 Elective V Generic/ Discipline Specific	3	6.5 Elective VIII Generic/ Discipline Specific	3
1.6 Skill Enhancement Course SEC-1 (NME)	2	2.6 Skill Enhancement Course SEC-2 (NME)	2	3.6 Skill Enhancement Course SEC-4, (Entrepreneurial Skill)-(Naan Mudhalvan/NME)	1	4.6 Skill Enhancement Course SEC-6 – (Naan Mudhalvan/Discipline Specific)	2	5.5 Elective VI Generic/ Discipline Specific	3	6.6 Extension Activity	1
1.7 Skill Enhancement - (Foundation Course)	2	2.7 Skill Enhancement Course –SEC- 3(Discipline Specific)	2	3.7 Skill Enhancement Course SEC-5- (Discipline Specific)	2	4.7 Skill Enhancement Course SEC-7- (Discipline Specific)	2	5.6 Value Education	2	6.7 Professional Competency Skill	2
				3.8 E.V.S	2			5.5 Summer Internship /Industrial Training	2		
	23		23		24		23		26		21
	Total CreditPoints 140							140			

First Year – Semester-I

Part	List of Courses	Credit	No. of
			Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	16
	Skill Enhancement Course SEC-1	2	2
Part-4	Foundation Course	2	2
		23	32

Semester-II

Part	List of Courses	Credit	No. of
			Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	16
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
		23	32

Second Year - Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	15
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	2	2
		24	32

Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	16
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
		23	32

Third Year

Semester-V

Part	List of Courses	Credit	No. of
			Hours
Part-3	Core Courses including Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
		26	30

Semester-VI

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

Consolidated Semester wise and Component wise Credit distribution

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

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

	METHODS OF EVALUATION					
Internal Evaluation	Continuous Internal Assessment Test Assignments / Snap Test / Quiz Seminars 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 textbook. 					
Understanding (K2)	 Understanding of facts and ideas by com- organizing, comparing, translating, interp- interpreting in their own words. 	The questions go beyond simple recall and require				
Application (K3)	• Students have to solve problems by using a concept learned in the classroom.	Students must use their knowledge to determine a				
Analyze (K4)	 Analyzing the question is one that asks to break down somethinginto its compone Analyzing requires students to identicauses or motives and reach concepted and reach concepted areas as a second concepted as a second concepted area as a second concepted as a second concepted area as a second concepted as a second	nt 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 judge the value character. 	of an idea, a problem.				
Create (K6)	 The questions of this category challenge get engaged in creative andoriginal thinking. Developing original ideas and problem solving. 	students to				

CREDIT DISTRIBUTION FOR B.COM., COMPUTER APPLICATION

3 – Year UG Programme (B.COM., COMPUTER APPLICATION) Credits Distribution					
	02 00200 2220	No. of Papers	Credits		
Part I	Tamil(3 Credits)	4	12		
Part II	English(3 Credits)	12			
Part III	Core Courses (4 Credits)	15	60		
	Elective Courses :Generic / Discipline Specific (3 Credits)	8	24		
	-	Total	108		
Part IV	NME (2 Credits)	2	4		
	Ability Enhancement Compulsory	4	8		
	Courses Soft Skill(2 Credits)				
	Skill Enhancement Courses (7				
	courses)		13		
	Entrepreneurial Skill -1				
	Professional Competency Skill				
	Enhancement Course	1	2		
	EVS (2 Credits)	1	2		
	Value Education (2 Credits)	1	2		
	1	31			
Part V	Extension Activity (NSS / NCC / Ph Education)	nysical	1		
	Total Credits for the U	140			

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	Outcome / Benefits
	Components	
I	Foundation Course	 Instil confidence among students
	To ease the transition of	Create interest for the subject
	learning from higher	
	secondary to higher	
	education, providing an	
	overview of the	
	pedagogy of learning	
	abstract Statistics and	
	simulating mathematical	
	concepts to real world.	
I, II, III,	Skill Enhancement	Industry ready graduates
IV	papers (Discipline	Skilled human resource
	centric / Generic /	• Students are equipped with essential skills to make
	Entrepreneurial)	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	Elective papers-	Strengthening the domain knowledge
& VI	An open choice of topics	• Introducing the stakeholders to the State-of Art
	categorized under	techniques from the streams of multi-disciplinary,
	Generic and Discipline	cross disciplinary and inter disciplinary nature
	Centric	• 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
	<u> </u>	

	T	1	
			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	Internship / Industrial	•	Practical training at the Industry/ Banking Sector /
Vacation	Training		Private/ Public sector organizations / Educational
activity			institutions, enable the students gain professional experience and also become responsible citizens.
V	Project with Viva – voce	•	Self-learning is enhanced
Semester		•	Application of the concept to real situation is conceived resulting in tangible outcome
VI	Introduction of	•	Curriculum design accommodates all category of
Semester	Professional Competency component	•	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 Cred	lits:	•	To cater to the needs of peer learners / research
For Advardegree	nced Learners / Honors		aspirants

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

B.COM COMPUTER APPLICATION

Part	Course Code	Title of the Course	Credits	Hours
		FIRST YEAR		
		FIRST SEMESTER	1 2 1	
Part I		Language – Tamil	3	6
Part II		English	3	6
Part III		Core Paper I – Financial Accounting I	5	6
Part III		Core Paper II - Principles of Management	5	5
		Elective I - Programming in C and Lab		
Part III		Elective I - Python Programming and Lab	3	5
Part IV		Skill Enhancement Course SEC – 1	2	2
Part IV		Foundation Course FC	2	2
		TOTAL	23	32
		SECOND SEMESTER		
Part I		Language – Tamil	3	6
Part II		English	3	6
Part III		Core Paper III –Financial Accounting II	5	5
Part III		Core Paper IV-Business Law	5	5
		Elective II - Office Automation and Lab		
Part III		Elective II - Programming in C++ and Lab	3	6
		Skill Enhance Course SEC – 2	2	2
Part IV		Skill Enhancement Course – SEC 3	2	2
		TOTAL	23	32
		SECOND YEAR		
		THIRD SEMESTER		
Part I		Language – Tamil	3	6
Part II		English	3	6
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		
Part IV		Elective III – Web Technology(PHP) and Lab	3	5
Dort IV		Skill Enhance Course SEC – 4	1	1
Part IV		Skill Enhancement Course – SEC 5	2	2

	Environmental Studies	2	2
	TOTAL	24	32
·	FOURTH SEMESTER		
Part I	Language – Tamil	3	6
Part II	English	3	6
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	3	6
	Elective IV– Introduction to Data Science	3	
Part IV	Skill Enhance Course SEC – 6	2	2
rait iv	Skill Enhancement Course – SEC 7	2	2
	TOTAL	23	32
<u>.</u>	THIRD YEAR		
	FIFTH SEMESTER		
Part III	Core Paper IX –Cost Accounting I	4	5
Part III	Core Paper X - Banking Law and Practice	4	5
Part III	Core Paper XI – Income Tax Law and Practice I	4	5
Part III	Core Paper XII – Auditing and Corporate Governance	4	5
Part III	Discipline Specific Elective 1/2 - Financial Management / 2/2 - Indirect Taxation	3	4
	Discipline Specific Elective 3/4 – Software Engineering+(UML Lab)/4/4Object oriented Analysis and Design+(UML Lab)	3	4
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 Accounting	4	6
Part III	Core Paper XV- Income Tax Law and Practice II	4	6
Part III	Discipline Specific Elective % - Entrepreneurial Development / 6/6-Human Resource Management	3	5

	Discipline Specific Elective 7/8- R Language/ 8/8 –Practical Tally	3	5
	General awareness for Competitive Examination	2	2
Part V	Extension Activity	1	-
	TOTAL	21	30
	GRAND TOTAL	140	180

Remarks: English Soft Skill Two Hours Will be handled by English Teachers (4+2=6 hours for English).

<u>FIRST YEAR – SEMESTER – I</u>

CORE - I: FINANCIAL ACCOUNTING I

Subject		T	Ъ	G	G 114	Inst.		Marl	KS				
Code	L	T	P	S	Credits	Hours	CIA	Exte	rnal	Total			
	5				4	5	25	75	5	100			
				L	earning Obj	ectives							
LO1	To uno	derstan	d the ba	asic ac	counting con	cepts and	standards.						
LO2					ulating busin								
LO3					counting treat								
LO4	To lea	o learn the methods of calculating profit for single entry system.											
LO5	To gai	n know	ledge (on the	accounting to	reatment of	f insurance	claims					
Prerequi	sites: S	Should	have s	tudie	d Accountan	cy in XII S	Std						
Unit					Contents				No. Hot				
I	Finance Account Account Errors	cial Ac nting nts– Su – Re	countir Conce ubsidia ectificat	ng – l pts a ry Bootion o	ial Accounting Meaning, Deand Conventor Oks — Trial Of Errors — Station Statemen	efinition, C tions - J Balance - Preparation	Journal, L Classificati on of Sus	edger on of pense		15			
П	Account – Bank Reconciliation Statement - Need and Preparation Final Accounts Final Accounts of Sole Trading Concern- Capital and Revenue Expenditure and Receipts – Preparation of Trading, Profit and Loss Account and Balance Sheet with Adjustments.									15			
III	Deprecent Types Converted Units of Bills of Bill	ciation - Straintraintraintraintraintraintraintrain	- Meaning the first of the firs	ning – ne Metho – Det t of E	Exchange Objectives ethod — Dimi od — Cost Mo finition — Sp Bill — Collect ebate	inishing Bardel vs Revocimens –	alance methaluation - Discounti	nod –		15			
IV	Retirement of Bill under rebate Accounting from Incomplete Records – Single Entry System Incomplete Records - Meaning and Features - Limitations - Difference between Incomplete Records and Double Entry System - Methods of Calculation of Profit - Statement of Affairs Method - Preparation of final statements by Conversion method.									15			
V	Meani Short Treatm Insura	Royalty and Insurance Claims Meaning – Minimum Rent – Short Working – Recoupment of Short Working – Lessor and Lessee – Sublease – Accounting Treatment. Insurance Claims – Calculation of Claim Amount-Average clause (Loss of Stock only)											
				T	OTAL					75			
THEOR	Y 20%	& PR	OBLE	M 80°	%								

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

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – I

CORE - II: PRINCIPLES OF MANAGEMENT

Subjec	t L	Т	P	S	Cuadita	Inst.		Mark	S		
Code	L	1	P	3	Credits	Hours	CIA	Exter	nal	Total	
	5				4	5	25	75	;	100	
	Learning Objectives										
LO1	LO1 To understand the basic management concepts and functions										
LO2	To kno	ow the	various	s techn	iques of plan	ning and d	ecision ma	king			
LO3	To fan	niliariz	e with	the cor	ncepts of org	anisation st	ructure				
LO4	To gai	n know	vledge	about t	he various co	omponents	of staffing				
LO5	To ena	ble the	studer	nts in u	nderstanding	g the contro	l technique	es of ma	anage	ement	
Prerequ	isites: S	Should	have s	tudied	Commerce	in XII Sto	l				
Unit					Contents				No. of		
									Hou	rs	
I	Meani Manag Manag Thoug Peter Trends	ng- D gement gement hts – F F. Dru s and C	ImpScieW. Taucker,	ons — ortance nce of aylor, I Elton ges of	Nature a e - Manager or Art –Ev Henry Fayol, Mayo - Fur Management	ment Vs. A volution of	dministrati f Manage Manageme	ion – ment ent -		15	

	The state of the s	
II	Planning Planning – Meaning – Definitions – Nature – Scope and Functions – Importance and Elements of Planning – Types – Planning Process - Tools and Techniques of Planning – Management by Objective (MBO). Decision Making: Meaning – Characteristics – Types - Steps in Decision Making – Forecasting.	15
III	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	Staffing Introduction - Concept of Staffing- Staffing Process - Recruitment - Sources of Recruitment - Modern Recruitment Methods - Selection Procedure - Test- Interview- Training: Need - Types- Promotion -Management Games - Performance Appraisal - Meaning and Methods - 360 degree Performance Appraisal - Work from Home - Managing Work from Home [WFH].	15
V	Motivation –Meaning - Theories – Communication – Types - Barriers to Communications – Measures to Overcome the Barriers. Leadership – Nature - Types and Theories of Leadership – Styles of Leadership - Qualities of a Good Leader – Successful Women Leaders – Challenges faced by women in workforce - Supervision. Co-ordination and Control Co-ordination – Meaning - Techniques of Co-ordination. Control - Characteristics - Importance – Stages in the Control Process - Requisites of Effective Control and Controlling Techniques – Management by Exception [MBE].	15
	Total	75
	Course Outcomes	-
CO1	Demonstrate the importance of principles of management.	
CO2	Paraphrase the importance of planning and decision making in an o	<u> </u>
CO3	Comprehend the concept of various authorizes and responsibilities organization.	of an
CO4	Enumerate the various methods of Performance appraisal	
CO5	Demonstrate the notion of directing, co-coordination and control in management.	the
	Textbooks	
1	Gupta.C.B, -Principles of Management-L.M. Prasad, S.Chand& So New Delhi.	ns Co. Ltd,

2	DinkarPagare, Principles of Management, Sultan Chand & Sons Publications, New Delhi.
3	P.C.Tripathi& P.N Reddy, Principles of Management. Tata McGraw, Hill, Noida.
4	L.M. Prasad, Principles of Management, S.Chand&Sons Co. Ltd, New Delhi.
5	R.K. Sharma, Shashi K. Gupta, Rahul Sharma, Business Management, Kalyani Publications, New Delhi.
	Reference Books
1	K Sundhar, Principles Of Management, Vijay Nichole Imprints Limited, Chennai
2	Harold Koontz, Heinz Weirich, Essentials of Management, McGraw Hill, Sultan Chand and Sons, New Delhi.
3	Grifffin, Management principles and applications, Cengage learning, India.
4	H.Mintzberg - The Nature of Managerial Work, Harper & Row, New York.
5	Eccles, R. G. & Nohria, N. Beyond the Hype: Rediscovering the Essence of Management. Boston The Harvard Business School Press, India.
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1	http://www.universityofcalicut.info/sy1/management
2	https://www.managementstudyguide.com/manpower-planning.htm
3	https://www.businessmanagementideas.com/notes/management-notes/coordination/coordination/21392

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – I

ELECTIVE - I: PROGRAMMING IN C AND LAB

Subjec	t L	Т	P	S	Credits	Inst.		Mar	ks				
Code		•			Cicuits	Hours	CIA	Exte	rnal	Total			
	2		2		3	4	25	7	5	100			
	Learning Objectives												
LO1	Descri	be the	core sy	ntax a	nd semantics	of C progr	amming la	ınguag	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	matrix, str	uct.					
Prerequ	isites: S	hould	have s	tudied	l Commerce	in XII Sto	ì						
Unit			No. of Hours										
I	Introduction to C Language: C Language Introduction-Features of C Language-Benefits of C over other languages-Compilation of C Program-First Program in CPre-processor directives												
II	Variables, Data Types & Operators:Variables and Keywords in C-Scope rules in C-Data Types in C-Operators & Its Types-Typecasting in C												
III	Control Flow Statements:Decision Making Statements-Switch Statement in C-C Loops & Control Structure Practice problems- Continue Statement, Break Statement Array & String Handling in C:Arrays in C-Strings in C												
IV	Multid probles	imensi ms ons in	C:Funce Class	Arrays	in C-String rototype-Par C-Recursio	functions ameter Pass	in C- Prosing Techn	iques					

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

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

FIRST YEAR – SEMESTER – I

C Programming Lab

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

- Understand problem statements and identify appropriate solutions.
- Demonstrate the use of IDE and C Compiler.
- Develop programs using C Programming Language.

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

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: PYTHON PROGRAMMING AND LAB

Subject													
Code			_	5		Hours	CIA	Exter	rnal	Total			
	2		2		3	4	25	75	5	100			
	Learning Objectives												
LO1	Descri	be the	core sy	ntax a	nd semantics	of Python	programm	ing lang	guage	<i>.</i>			
LO2	Discover the need for working with the strings and functions.												
LO3	Illustrate the process of structuring the data using lists, dictionaries, tuples and sets.												
LO4	Unders	tand the	e usage	of pack	cages and Dic	tionaries							
Prerequ	isites: S	Should	have s	tudied	l Commerce	in XII Sto	i						
Unit					Contents				No. o				
I	Introduction: Computer algorithms-Computer Hardware- Computer Software-Python programming language - Literals - Variables and Identifiers - Operators - Expressions and Data												
П	Control Structures: Boolean Expressions - Selection Control - If Statement- Indentation in Python- Multi-Way Selection Iterative Control- While Statement- Infinite loops- Definite vs. Indefinite Loops- Boolean Flag. String, List and Dictionary, Manipulations Building blocks of python programs, Understanding and using ranges.												
III	Functions: Program Routines- Defining Functions- More on Functions: Calling Value-Returning Functions- Calling Non-Value-Returning Functions- Parameter Passing - Keyword Arguments in Python - Default Arguments in Python-Variable Scope. Recursion: Recursive Functions												
IV	attribu		dular		ware Objects n: Modules								
V		Files: C			tionary type ing and writ	•							

	Total								
	Course Outcomes								
GO1									
CO1	Develop and execute simple Python programs								
CO2	Write simple Python programs using conditionals and looping for solving problems								
CO3	Decompose a Python program into functions								
CO4	Represent compound data using Python lists, tuples, dictionaries etc.								
	Textbooks								
1	Charles Dierbach, "Introduction to Computer Science using Python - A computational Problem-solving Focus", Wiley India Edition, 2015.								
2	Wesley J. Chun, "Core Python Applications Programming", 3rd Edition, Pearson Education, 2016								
3	Mark Lutz, "Learning Python Powerful Object Oriented Programming", O'reilly Media 2018, 5th Edition.								
	Reference Books								
1	Timothy A. Budd, "Exploring Python", Tata MCGraw Hill Education Private Limited 2011, 1 st Edition.								
2	John Zelle, "Python Programming: An Introduction to Computer Science", Second edition, Course Technology Cengage Learning Publications, 2013, ISBN 978-1590282410								
3	Michel Dawson, "Python Programming for Absolute Beginers", Third Edition, Course Technology Cengage Learning Publications, 2013, ISBN 978- 1435455009								
NOTE:	Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://onlinecourses.swayam2.ac.in/cec22_cs20/preview								

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

**

**

3. Program to calculate total marks, percentage and grade of a student. Marks obtained in each of the five subjects are to be input by user. Assign grades according to the following criteria:

Grade A: Percentage >=80 Grade B: Percentage >=70 and 80

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

Grade E: Percentage < 40

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

Extended 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

- 1. Charles Dierbach, "Introduction to Computer Science using Python A computational Problem-solving Focus", Wiley India Edition, 2015.
- 2. Wesley J. Chun, "Core Python Applications Programming", 3rd Edition , Pearson Education, 2016

• Reference Books

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

FIRST YEAR – SEMESTER - II

CORE - III: FINANCIAL ACCOUNTING-II

Subjec	et r	L T P S Credits Inst. Ma			rks								
Code	L	1	r	3		Hours	CIA		ernal	Total			
	5				4	5	25		75	100			
				Le	earning Obj	ectives							
LO1	The stu	idents a	re able	to pre	pare differen	t kinds of	accounts su	ich					
LOI		-			ments Systen								
LO2		To understand the allocation of expenses under departmental accounts											
LO3	_	To gain an understanding about partnership accounts relating to Admission and retirement											
1.04	Provide	es knov	vledge	to the	learners rega	rding Partr	nership Acc	ounts	relatir	ng			
LO4	to disso	olution	of firm	1									
LO5	To kno	To know the requirements of international accounting standards											
Prerequ	uisites: S	Should	have s	tudied	l Accountan	cy in XII S	Std						
Unit					Contents				No. of				
									Hour	S			
I	Hire P Hire P Interes Accoun		1	15									
	Branch and Departmental Accounts												
	Branch - Dependent Branches: Accounting Aspects - Debtors												
	system -Stock and Debtors system - Distinction between												
II	Wholesale Profit and Retail Profit - Independent Branches								1	15			
	(Foreign Branches excluded) - Departmental Accounts: Basis of												
	Allocation of Expenses – Inter- Departmental Transfer at Cost or												
	Selling	Selling Price.											
	Partne	_				_	_						
III		-			dmission of				1	15			
	Goodw Partner				Hidden Go	odwill –R	etirement (of a					
	Partne												
		_			- Methods -	- Settleme	nt of Acco	unts					
				_	ets – Realiza								
	_	•			n of Balanc								
IV			-		Partners ins				1	15			
					Accounting								
			•	•	Capital Met	_							
	Method		201	r `	p 1,100			_000					

V	Accounting Standards for financial reporting (Theory only) Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in India Role of IFRS- IFRS Adoption vs Convergence Implementation Plan in India- Ind AS- An Introduction - Difference between Ind AS and IFRS.	15					
	TOTAL	75					
THEO	RY 20% & PROBLEMS 80% 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 retireme partnership	nt in					
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	d, New Delhi.					
2	M.C. Shukla T.S. Grewal & S.C. Gupta, Advance Accounts, S Cha Publishing, New Delhi.	nd					
3							
4	S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publis Delhi.	hers, New					
5	T.S. Reddy& A. Murthy, Financial Accounting, Margam Publishers	s, Chennai.					
	Reference Books						
1	Dr. S.N. Maheswari: Financial Accounting, Vikas Publications, No	ida.					
2	Dr. Venkataraman& others (7 lecturers): Financial Accounting, VB	H, Chennai.					
3	Dr. Arulanandan and Raman: Advanced Accountancy, Himalaya pu Mumbai.	blications,					
4	Tulsian, Advanced Accounting, Tata MC. Graw hills, India.						
5	Charumathi and Vinayagam, Financial Accounting, S.Chand and so Delhi.	ons, New					
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	ng					
3	https://www.accountingtools.com/articles/what-is-a-single-entry-sy	stem.html					

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – II

CORE - IV: BUSINESS LAW

Subject	т	Т	n	C	C 1:4-	Inst.						
Code	L	1	P	S	Credits	Hours	CIA	External	Total			
	5				4	5	25	75	100			
	Learning Objectives											
LO1	To know the nature and objectives of Mercantile lawand the essentials of v											
201	contract											
LO2	To ga	To gain knowledge on performance contracts										
LO3	To be	To be acquainted with the rules of Indemnity and Guarantee										
LO4	To make aware of the essentials of Bailment and pledge											
LO5	To un	derstar	nd the p	provisi	ons relating t	to sale of go	oods					
Prerequi	sites: S	Should	have s	tudied	l Commerce	in XII Sto	l					
Unit					Contents			No. of	Hours			
I	India of V Accep	n Con alid Cotance ent - L	Contrac – Con	Act 18 7 t, Cla sidera	72: Definition ssification Capa bject – Cont	of Contrac city to Co	et, Offer a ontract – F	and ree	15			

II	Performance of Contract Meaning of Performance, Offer to Perform, Devolution of Joint liabilities & Rights, Time and Place of Performance, Reciprocal Promises, Assignment of Contracts - Remedies for Breach of contract - Termination and Discharge of Contract - Quasi Contract	15				
III	Contract of Indemnity and Guarantee Contract of Indemnity and Contract of Guarantee - Extent of Surety's Liability, Kinds of Guarantee, Rights of Surety, Discharge of Surety -	15				
IV	Bailment and Pledge 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.	15				
V	Sale of Goods Act 1930: Definition of Contract of Sale – Formation - Essentials of Contract of Sale - Conditions and Warranties - Transfer of Property – Contracts involving Sea Routes - Sale by Nonowners - Rights and duties of buyer - Rights of an Unpaid Seller	15				
	TOTAL	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 Del	hi.				
2	R.S.N. Pillai – Business Law, S.Chand, New Delhi.					
3	M C Kuchhal& Vivek Kuchhal, Business law, S Chand Publishin	•				
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, C					
2	Business Law by Saravanavel, Sumathi, Anu, Himalaya Publicat					
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, Cher	inai.				
NOTE: I	Latest Edition of Textbooks May be Used					
1	Web Resources					
$\frac{1}{2}$	www.cramerz.comwww.digitalbusinesslawgroup.com					
	http://swcu.libguides.com/buslaw					
3	http://libguides.slu.edu/businesslaw					

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low FIRST YEAR – SEMESTER – II

ELECTIVE-II: OFFICE AUTOMATION AND LAB

Subjec	t L	Т	ТР	S	Credits	Inst.	Marks		
Code					Hours		CIA	External	Total
	2		2		3	4	25	75	100
	Learning Objectives								
LO1	The major objective in introducing the Computer Skills course is to impart training for students in Microsoft Office which has different components like MS Word, MS Excel and Power point.								
LO2	The course is highly practice oriented rather than regular class room teaching.								
LO3	To acquire knowledge on editor, spread sheet and presentation software.								
Prerequisites: Should have studied Commerce in XII Std									

Unit	Contents	No. of Hours					
I	Introductory concepts: Hardware and Software - Memory unit – CPU-Input Devices: Key board, Mouse and Scanner. Output devices: Monitor, Printer. Introduction to Operating systems - Introduction to Programming Languages.						
II	Word Processing: File menu operations - Editing text - tools, formatting, bullets and numbering - Spell Checker - Document formatting - Paragraph alignment, indentation, headers and footers, printing - Preview, options, merge.						
III	Spreadsheets: Excel – opening, entering text and data, formatting, navigating; Formulas – entering, handling and copying						
IV	Charts – creating, formatting and printing, analysis tables, preparation of financial statements, introduction to data analytics.						
V	Power point: Introduction to Power point - Features - Understanding slide typecasting & viewing slides - creating slide shows. Applying special object - including objects & pictures - Slide transition - Animation effects, audio inclusion, timers.						
	Total						
	Course Outcomes						
CO1	Understand the basics of computer systems and its components.						
CO2	Understand and apply the basic concepts of a word processing package.						
CO3	Understand and apply the basic concepts of electronic spreadsheet software.						
CO4	Understand and apply the basic concepts of database management system.						
CO5	Understand and create a presentation using PowerPoint tool.						
Textbooks							
1	Peter Norton, "Introduction to Computers" –Tata McGraw-Hill.						
Reference Books							
1	Jennifer Ackerman Kettel, Guy Hat-Davis, Curt Simmons, "Micros Tata McGraw- Hill.	oft 2003",					
NOTE: Latest Edition of Textbooks May be Used							

	Web Resources
1	Web content from NDL / SWAYAM or opensource web resources

Office Automation Lab

Learning Objectives: (for teachers: what they have to do in the class/lab/field)
Office tools course would enable the students in crafting professional word documents, excel spread sheets, power point presentations using the Microsoft suite of office tools.
To familiarize the students in preparation of documents and presentations with office automation tools.

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

CO1: to perform documentation
CO2: to perform accounting operations
CO3: to perform presentation skills

List of Programs

Word

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

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

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

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

Excel

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

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

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

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

MS Power Point

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

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

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

Extended Professional 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

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

ELECTIVE - II: PROGRAMMING IN C++ AND LAB

Subject	L	Т	P	S	Credits	Inst.						
Code			•	5		Hours	CIA	Exte	rnal	Total		
	2		2		3	4	25	75	5	100		
				Le	earning Obj	ectives						
LO1	To eng		an appı	reciatio	on for the nec	ed and char	racteristics	of Obje	ect-			
LO2	To impart knowledge of the C++ language grammar in order to design and implement programming solutions to simple problems by applying Object-oriented thinking. requisites: Should have studied Commerce in XII Std											
Prerequ	isites: S	Should	have s	tudied	l Commerce	in XII Sto	1					
Unit												
I	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											
II	Friend to obj allocat Functi argum Opera	Function - Non Orents - Over Over Over Over Over Over Over Over	this this samesp tamesp verload Overload erloadi	d Friend pointend aces. ling: ading (ng: O	nd Classes - r – Referen Overloading Constructors verloading	Array of oces – Dy a funct	bjects – Ponamic me ion - Do	emory efault				
III	Overlo Conve protec	oading rsion ted acc d clas	hted Programming Concepts: Complexity in software for object-orientation – Abstraction – Encapsulation – Hierarchy. ents of C++: Classes – Objects – Data members and									
IV	Templ		unction		virtual funct lates – Overl							

V	Exception Handling: Exceptions – try, catch, throw – Rethrowing an exception – Restricting exceptions - Handling exceptions in derived classes - terminate(), abort(), unexpected(), set_terminate(). I/O Streams: Formatted I/O with ios class functions - Manipulators – Creating own manipulator – Overloading << and >> operators.	
	Total	
	Course Outcomes	
CO1	Explain the various basic concepts of Object-orientation.	
CO2	Write programs to implement static binding	
CO3	Write programs to implement inheritance and dynamic binding	
CO4	Write programs to implement templates and exception handling and to use STL class library.	d learn how
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 Educ (For Unit I)	ation, 2008.
	Reference Books	
1	Bjarne Strousstrup, <i>The C++ Programming Language</i> , Addison Wesley, 2	000.
2	J. P. Cohoon and J. W. Davidson, <i>C++ Program Design – An Introduction of Programming and Object-Oriented Design</i> , Second Edition, McGraw Hill,	
3	C. J. Lippman, C++ Primer, Third Edition, Addison Wesley, 2000.	
NOTE:	Latest Edition of Textbooks May be Used	

FIRST YEAR - SEMESTER - II

Object Oriented Programming with C++

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
 - b. Add, subtract and multiply two complex numbers
 - c. Multiplying the complex number with a scalar value
- 2. Write a Point class that represents a 2-d point in a plane. Write member functions to
 - a. Set and show the value of a point
 - b. Find the distance between two points
 - c. Check whether two points are equal or not
- 4. 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.
 - b. 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
 - b. Find the difference between two time objects
 - c. Adding a given duration to a time
 - d. Conversion of the time object to seconds
- 6. Design a 3x3 matrix class and demonstrate the following:
 - a. Addition and multiplication of two matrices using operator overloading
 - b. Maintaining a count of the number of matrix object created
- 7. 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
 - b. Concatenate two strings
 - c. Find the length of the string
 - d. Reversing a string
 - e. Comparing two strings
- 8. Design a class called cString to represent a string data type. Create a data member in

the class to represent a string whose size is dynamically allocated. Write the following as member functions:

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

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

Learning Resources:

Learning Resources:

Recommended Texts

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

Reference Books

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

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

Subjec	L	Т	P	S	Credits	Inst.		Mar	arks			
t Code		_	_		or care	Hours	CIA	Exter	rnal	Total		
	5				4	5	25	75	5	100		
			l		Learning Ob	jectives						
LO1	To un	derstan	d abou	it the p	oro-rata allotn	nentand Unde	erwriting	of Share	es			
LO2			_		f companies A pentures	Act regarding	Issue an	d Reden	nption	of		
LO3		arn the			contents of fi	nancial state	ments as	per Scl	hedule	e III of		
LO4	To exa	o examine the various methods of valuation of Goodwill and shares										
LO5	To ide	To identify the Significance of International financial reporting standard (IFRS)										
Prerequ	isite: S	hould	have s	studie	d Financial A	Accounting in	n I Year					
Unit	Contents									No. of Hours		
I	Issue Pro-ra Under	ta All	res – i lotmen g of	t Iss	um - Discour ue of Right es and Deb Inderwriting.	s and Bon	us Shar	es -		15		
II	Reden Capita Reden Deben One le	nption al Reconption atures: ot—in I	of Preflemption of Par, at Par, Issue and Issu	ference on R Premark and R ent —	Preference Since Shares—Provesserve — Mand Discondium and Discondium — Purchase in rest - Sinking	visions of Co linimum Front. Meaning – Mathe Open Ma	mpanies esh Issu Methods - arket incl	e – – In- ludes		15		
III	Introd Staten	nents a	– Fina s Per S	chedu	ounts – Form a le III of Com Part II Form o	panies Act 20)13 – Par	t I		15		

	Loss – Ascertaining Profit for Managerial Remuneration	
IV	Valuation of Goodwill & Shares Valuation of Goodwill – Meaning – Need for Valuation of Goodwill – Methods of Valuing Goodwill – Average Profit – Super Profit – Annuity and Capitalisation Method. Valuation of Shares – Need for Valuation of Shares – Methods of Valuation of Shares – Net Assets Method – Yield and Fair Value Methods.	15
	Indian Accounting Standards	
V	International Financial Reporting Standard (IFRS)–Meaning and its Applicability in India - Indian Accounting Standards – Meaning – Objectives – Significance – Procedures for Formulation of Standards – Ind AS – 1 Presentation of Financial Statement, Ind AS – 2 Valuation of Inventories, Ind AS – 7 Cash Flow Statement, Ind AS – 8 Accounting Policies, Changes in Accounting Estimate and Errors, Ind AS – 16 – Property, Plant & Equipment, Ind AS 38 – Intangible Assets Ind AS – 103, Business Combinations Ind AS 110, Consolidated Financial Statement. (Theory Only)	15
	TOTAL	75
THEO	RY 20% & PROBLEMS 80%	
	Course Outcomes	
CO1	Prepare and account for various entries to be passed in case of issue, and reissue of shares and compute the liability of underwrites	forfeiture
CO2	Asses the accounting treatment of issue and redemption of preference debentures	e shares and
CO3	Construct Financial Statements applying relevant accounting treatme	ents
CO4	Compute the value of goodwill and shares under different methods a applicability	nd assess its
CO5	Integrate theoretical knowledge on all accounting in par with IFRS a	nd IND AS
	Textbooks	

2	R.L. Gupta and M. Radha swamy, Advanced Accounts Vol I, Sultan Chand, New									
	Delhi.									
3	Broman, Corporate Accounting, Taxmann, New Delhi.									
4	Chalds Coursel and Courts Advanced Accounts Vall Colored New Dalls'									
4	Shukla, Grewal and Gupta- Advanced Accounts VolI,S.Chand, New Delhi.									
5	M.C.Shukla, Advanced accounting Vol I, S.Chand, New Delhi.									
	Reference Books									
1	T.S. Reddy, A. Murthy – Corporate Accounting- Margham Publication, Chennai.									
2	D.S.Rawat&NozerShroff,Students Guide To Accounting Standards ,Taxmann,									
	New Delhi									
3	Prof. Mukeshbramhbutt, Devi, Corporate Accounting I, Ahilya Publication,									
3	Madhya Pradesh									
4	Anil Kumar, Rajesh kumar, Corporate accounting I, Himalaya Publishing house,									
4	Mumbai.									
5	PrasanthAthma, Corporate Accounting I, Himalaya Publishing house, Mumbai.									
NOTE	: Latest Edition of Textbooks May be Used									
	W.I. D									
	Web Resources									
1	https://www.tickertape.in/blog/issue-of-shares/									
2	https://www.taxmann.com/bookstore/bookshop/bookfiles/chapter12valuationofgo									
_	odwillandshares.pdf									
3	https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accounting-									
	standards.html									

	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	L	Т	P	S	Credits	Inst.		Mark	KS			
Code		1	.	В		Hours	CIA	Exte		Total		
	5				4	5	25	75	5	100		
				Le	earning Obj	ectives						
LO1	To im	part kn	owledg	ge on th	ne basics of r	atio, propo	rtion, indic	es and	propo	ortions		
LO2					compound ir	nterest and	arithmetic,	geome	etric a	nd		
		nic pro										
LO3					asures of cen		су					
LO4					elation co-ef							
LO5					e series analy							
Unit	rerequisite: Should have studied Commerce in XII Std Contents											
Omi					Contents				No. o			
-	Ratio											
I		Propor			15							
		est and			15							
II	Banke											
	Arithr											
					s of Annuity Ires of Centi					15		
					ric Mean - H		-	e and		13		
III	Media											
	– Ran											
					efficient.							
	Corre	lation	and Ro	egressi	ion					15		
IV	Correl	lation -	Karl P	earson	's Coefficien	t of Correla	ation –					
1 V	Speam	man's F	Rank C	orrelat	ion – Regres	sion Lines	and					
	Coeffi	cients.										
	Time	Series	Analys	sis and	Index Num	bers				15		
	Time	Series A	Analysi	is : Sec	cular Trend –	Seasonal V	Variation –					
V	Cyclic	al varia	ations -	Index	Numbers –	Aggregativ	e and Relat	tive				
	Index	– Chair	n and F	ixed I	ndex –Whole	sale Index	– Cost of					
	Living	g Index.										
		-			TOTAL					75		
				(Course Outc	omes		·				
CO1	Learn	the bas	ics of 1	ratio, p	roportion, in	dices and l	ogarithm					

CO2	Familiarise with calculations of simple and compound interest and arithmetic, geometric and harmonic progressions.							
CO3	Determine the various measures of central tendency							
CO4	Calculate the correlation and regression co-efficient.							
CO5	Assess problems on time series analysis							
Textbooks								
1	Dr. B.N. Gupta, Business Mathematics & Statistics, Shashibhawan publishing house, Chennai							
2	Asim Kumar Manna, Business Mathematics & Statistics, McGraw hill education, Noida							
3	A.V. Rayarikar and Dr. P.G. Dixit, Business Mathematics & Statistics, Nirali Prakashan Publishing, Pune							
4	Dr.S. Sachdeva, Business Mathematics & Statistics, Lakshmi NarainAgarwal, Agra							
5	P.R. Vittal, Business Mathematics & Statistics, Margham Publications, Chennai							
	Reference Books							
1	J.K. Sharma, Fundamentals of business statistics, Vikas publishing, Noida							
2	Peter Waxman, Business Mathematics & Statistics, Prentice Hall, New York							
3	Andre Francis, Business Mathematics & Statistics, Cengage Learning EMEA, Andover							
4	Aggarwal B M, Business Mathematics & Statistics, Ane Book Pvt. Ltd., New Delhi							
5	R.S. Bhardwaj, Business Mathematics & Statistics, Excel Books Publisher, New Delhi							
NOTE:	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/							

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	3	2	2	2	3	2	3	2	2
CO2	3	2	3	2	3	2	3	2	3	2	2

CO3	3	2	3	2	3	2	3	2	3	2	2
CO4	3	2	3	2	2	2	3	2	3	2	2
CO5	3	2	3	2	2	2	3	2	3	2	2
TOTAL	15	10	15	10	12	10	15	10	15	10	10
AVERAG E	3	2	3	2	2.4	2	3	2	3	2	2

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER – III

ELECTIVE - III: PROGRAMMING IN JAVA AND LAB

Subject								ks			
Code				S	Creatis	Hours	CIA	Exte	rnal	Total	
	2		2		3	4	25	7.	5	100	
Learning Objectives											
LO1	To provide fundamental knowledge of object-oriented programming.										
LO2	To equip the student with programming knowledge in Core Java from the basics up.										
LO3	To enable the students to use AWT controls, Event Handling and Swing for GUI.										
Prerequ	isite: S	hould l	have st	udied	Commerce	in XII Std					
Unit					Contents				No. of Hours		
I	Introduction: Review of Object-Oriented concepts - Java buzzwords (Platform independence, Portability, Threads)- JVM architecture –Java Program structure - Java main method - Java Console output(System.out) - simple java program - Data types - Variables - type conversion and casting- Java Console input: Buffered input - operators - control statements - Static Data -										
II	Static Method - String and String Buffer Classes Java user defined Classes and Objects - Arrays - constructors - Inheritance: Basic concepts - Types of inheritance - Member access rules - Usage of this and Super key word - Method Overloading - Method overriding - Abstract classes - Dynamic method dispatch - Usage of final keyword										
III	Packages: Definition - Access Protection - Importing Packages - Interfaces: Definition - Implementation - Extending InterfacesException Handling: try - catch - throw - throws finally - Built-in exceptions - Creating own Exception classes - garbage collection, finalise -										
IV	Synch synchi	ronizat onized	ion – statem	Usin ent - I	ng: Thread C ng synchron nterthread C	nized met ommunicat	hods – I ion – Dead	Jsing lock.			
V	Frame	work:C	Collecti	on &	lasses -Java Iterator Int omparator		-				

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

Java Programming Lab

Core -S2EC1L

Learning Objectives: (for teachers: what they have to do in the class/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.
- 9. Write a threading program which uses the same method asynchronously to print the numbers 1 to 10 using Thread1 and to print 90 to 100 using Thread2.
- 10. Write a program to demonstrate the use of following exceptions.
 - a) Arithmetic Exception
 - b) Number Format Exception
 - c) Array Index Out of Bound Exception
 - d) Negative Array Size Exception

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

Learning Resources:

Recommended Texts

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

Reference Books

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

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

SECOND YEAR - SEMESTER - III

ELECTIVE III: Web Technology(PHP) and Lab

Subjec	et	\mathbf{L}	T P S Credits				Inst.	Marks				
Code		L	1	1	S Credits		Hours	CIA	External	Total		
	2 2 3 4 25 75							75	100			
Learning Objectives												
LO1	To use PHP and MySQL to develop dynamic web sites for user on the Internet											
LO2	maintenance											
Prerequ	isite: ,	5110	uia ii	ave s	luare	d Commerce	III AII Stu			AT C		
Unit						Contents				No. of Hours		
I	Introducing PHP – Basic development Concepts – Creating first PHP Scripts – Using Variableand Operators – Storing Data in variable – Understanding Data types – Setting and Checkingvariables Data types – Using Constants – Manipulating Variables with Operators.											
II	Cont State Repe	trolli emer eatin	ing nts - ng A	Progr Writi	ram ing N	Flow: Writh More Comple Loops – V	xConditiona	al Statem	ents –			

III	Working with Arrays: Storing Data in Arrays – Processing Arrays with Loops and Iterations –Using Arrays with Forms - Working with Array Functions – Working with Dates and Times.										
IV	Using Functions and Classes: Creating User-Defined Functions - Creating Classes – UsingAdvanced OOP Concepts.										
V	Working with Database and SQL: Introducing Database and SQL- Using MySQL-Adding andmodifying Data-Handling Errors – Using SQLite Extension and PDO Extension. IntroductionXML - Simple XML and DOM Extension.										
	TOTAL										
CO	Course Outcomes										
CO1	Understand the general concepts of PHP scripting language for the development of Internetwebsites.										
CO2	Understand the basic functions of MySQL database program and XML concepts										
CO3	3 Learn the relationship between the client side and the server side scripts.										
	Textbooks										
1	VikramVaswani, "PHP A Beginner's Guide", Tata McGraw Hill 2008.										
	Reference Books										
1	Steven Holzner, "The PHP Complete Reference", Tata McGraw Hill, 2007.										
2	Steven Holzer, "Spring into PHP", Tata McGraw Hill 2011, 5thEdition.										
NOTI	E: Latest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.w3schools.com/php/										
2	https://www.phptpoint.com/php-tutorial-pdf/										
3	http://www.xmlsoftware.com/										

SECOND YEAR – SEMESTER – III

WEB TECHNOLOGY LAB

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

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

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

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

LIST OF PRACTICALS

- 1. Write a PHP program which adds up columns and rows of given table
- 2. Write a PHP program to compute the sum of first n given prime numbers
- 3. Write a PHP program to find valid an email address
- 4. Write a PHP program to convert a number written in words to digit.
- 5. Write a PHP script to delay the program execution for the given number of seconds.
- 6. Write a PHP script, which changes the colour of the first character of a word
- 7. Write a PHP program to find multiplication table of a number.
- 8. Write a PHP program to calculate Factorial of a number.
- 9. Write a PHP code to create a student mark sheet table. Insert, delete and modify records.
- 10. From a XML document (email.xml), write a program to retrieve and print all the emailaddresses from the document using XML
- 11. From a XML document (tree.xml), suggest three different ways to retrieve the text value'John' using the DOM:
- 12. Write a program that connects to a MySQL database and retrieves the contents of any one of its tables as an XML file. Use the DOM.

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)
-	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

SECOND YEAR – SEMESTER – IV

CORE - VII: CORPORATE ACCOUNTING - II

Subject						Inst.		Marks				
Code	L	Т	P	S	Credits	Hours	CIA	Externa l	Total			
	5				4	5	25	75	100			
	A											
LO1	To know the types of Amalgamation, Internal and external Reconstru											
LO2	To know Final statements of banking companies											
LO3	To un	To understand the accounting treatment of Insurance company accounts										
LO4	To un	To understand the procedure for preparation of consolidated Balance sheet										
LO5	To ha	To have an insight on modes of winding up of a company										
Prerequ	Prerequisite: Should have studied Financial Accounting in I Year											
Unit	Contents											
I	Amalgamation, Internal & External Reconstruction 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	Accounting of Banking Companies Final Statements of Banking Companies (As Per New Provisions) - Non-Performing Assets - Rebate on Bills Discounted- Profit and Loss a/c - Balance Sheet as Per Banking Regulation Act 1949.											
***	Insur	ance (Compa	ny Ac	counts:							
III	Accou	ints of	Insura	ance C	Principles – ' ompanies – General In	Accounts	of Life In		15			

		Format.							
I	Consolidated Financial Statements IV Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparation of Accounts -Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).								
	V	Liquidation of Companies 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								
TH	EOR	Y 20% & PROBLEMS 80%							
		Course Outcomes							
C	CO1 Understand the accounting treatment of amalgamation, Internal and external reconstruction								
C	O2	Construct Profit and Loss account and Balance Sheet of Banking Con in accordance in the prescribed format.	mpanies						
C	О3	Synthesize and prepare final accounts of Insurance companies in the prescribed format							
C	O4	Give the consolidated accounts of holding companies							
C	O5	Preparation of liquidator's final statement of account							
		Textbooks							
1	S.P. Dell	Jain and K.L Narang. Advanced Accountancy, Kalyani Publisheni.	rs, New						
2		K.S. Raman and Dr. M.A. Arulanandam, Advanced Accountancy, Vol.	. II,						
3	R.L.	Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, New	Delhi.						
4	M.C Dell	C. Shukla and T.S. Grewal, Advanced Accounts Vol.II, S Chand & Sonni.	s, New						
5	T.S.	Reddy and A.Murthy, Corporate Accounting II, Margham Pu	blishers,						

	Chennai										
	Reference Books										
1	B.Raman, Corporate Accounting, Taxmann, New Delhi										
2	M.C.Shukla, Advanced Accounting, S.Chand, New Delhi										
3	Prof. MukeshBramhbutt, Devi Ahilya publication, Madhya Pradesh										
4	Anil kumar, Rajesh kumar, Advanced Corporate Accounting, Himalaya Publishing house, Mumbai.										
5	PrasanthAthma, Corporate Accounting, Himalaya Publishing house, Mumbai.										
NOT	E: Latest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.accountingnotes.net/amalgamation/amalgamation-absorption-and-reconstruction-accounting/126										
2	https://www.slideshare.net/debchat123/accounts-of-banking-companies										
3	https://www.accountingnotes.net/liquidation/liquidation-of-companies-accounting/12862										

	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	L	Т	P	S	Credits	Inst.		Ma	rks						
Code		1	P	3		Hours	CIA	Ext	ternal	Total					
	5				4	5	25		75	100					
				L	earning Obj	ectives									
LO1	To kno	ow Cor	npany l	Law 1	956 and Com	panies Act	t 2013								
LO2	To hav	e an ui	ndersta	nding	on the forma	tion of a co	ompany								
LO3					es of meeting										
LO4	To gai	n know	ledge	on the	procedure to	appoint an	d remove I	Direc	tors						
LO5	To fan	niliariz	e with	the vai	rious modes o	of winding	up								
Prerequisite: Should have studied Commerce in XII Std															
Unit					Contents				No. of	f					
									Hour	S					
		luction		_	•		GI :		15						
					efinition of a	1 .									
I					Piercing the Cartnership a		eil – Comp ed Liabil								
	•	_			eation of C										
		-			umber of Me	-		011							
		ation o													
					– Promoter –										
		e-filing – Memorandum of Association – Contents – Alteration – Legal Effects – Articles of Association - Certificate of													
II	_									15					
	-			-	ıs – Content – Issue – A										
	Deben	-		ands	15540 1	inciation	Dividen	·u							
	Meetin	ng													
	Meeting and Resolution – Types – Requisites – Voting & Poll –														
III	_		•		ition – Ordin	•] 1	15					
		ors — (val of a	-		, Disqualific	ation, Ap	pointment	and							
					tration										
		_			ration – Dire	ectors – Le	egal Positio	on –							
	_				ointment/ Re		-								
	- Dire	ector Id	dentific	ation	Number – I	Directorship	os – Powe	rs –							
IV					tees – Relat	•			1	15					
1,		•			Company – In										
			_		Secretarial										
	-				o — National any Law App										
		ial Cou		Comp	шту пам трр	,c11ate 1110	unui (i v CL	.)							
	Windi														
V	Meani	ng - 1			mpulsory W				1	15					
•		-		-	ces of Windi			rs of		IJ					
	Tribun	ıal – Pe	tition f	or Wi	nding Up – C	Company L	iquidator.			7.5					
					TOTAL				1 7	75					

	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							

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

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER – IV

ELECTIVE IV -RELATIONAL DATABASE MANAGEMENT SYSTEM

Subje	et L	Т	P	S	Credits	Inst.		Marks				
Code					Credits	Hours	CIA	External	Total			
	3				3	3	25	75	100			
		1	ı]	Learning Ob	jectives	1					
LO1		Gain a good understanding of the architecture and functioning of Database Management Systems										
LO2	Unders	tand th	ie use	of St	ructured Quei	y Language	(SQL) a	nd its syntax	•			
LO3	Apply I	Norma	lizati	on tec	hniques to no	rmalize a da	atabase.					
LO4 Understand the need of transaction processing and learn techniques for controlling theconsequences of concurrent data access.												
Prerequ	isite: Sh	ould h	ave s	tudie	d Commerce	in XII Std						

Introduction to DBMS- Data and Information - Database — Database Management System — Objectives- Advantages — Components - Architecture. ER Model: Building blocks of ER Diagram — Relationship Degree — Classification — ER diagram to Tables — ISA relationship — Constraints — Aggregation and Composition — If Advantages Structure of Relational Database. Introduction to Relational Database Design - Objectives — Tools — Redundancy and Data Anomaly — Functional Dependency - Normalization — INF — 2NF — 3NF — BCNF. Transaction Processing — Database Security. Introduction to SQL: Data Definition Commands — Data Manipulation Commands — SELECT Queries — Additional Data Definition Commands — SELECT Query Keywords — Joining Database Tables. Advanced SQL: Relational SET Operators: UNION — UNION ALL — INTERSECT - MINUS. 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 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 Managen System", Springer International Edition 2007. Reference Books 1 S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	Unit	Contents	No. of Hours
relationship – Constraints –Aggregation and Composition – Advantages Structure of Relational Database. Introduction to Relational Database Design - Objectives – Tools –Redundancy and Data Anomaly - Functional Dependency - Normalization – 1NF – 2NF – 3NF – BCNF. Transaction Processing – Database Security. 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. 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 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 Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon "Fundamentals of DBMS" Viiav Nicole	I	Database Management System – Objectives- Advantages – Components - Architecture. ER Model: Building blocks of ER	
Introduction to SQL: Data Definition Commands – Data Manipulation Commands – SELECT Queries – Additional Data Definition Commands – SELECT Query Keywords – Joining Database Tables. Advanced SQL: Relational SET Operators: UNION – UNION ALL – INTERSECT - MINUS. 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 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 Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon "Fundamentals of DRMS" Vijay Nicole	II	relationship – Constraints –Aggregation and Composition – Advantages Structure of Relational Database. Introduction to Relational Database Design - Objectives – Tools –Redundancy and Data Anomaly	
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. 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 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 Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	III		
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 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 Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	IV	Manipulation Commands – SELECT Queries – Additional Data Definition Commands – Additional SELECT Query Keywords – Joining Database Tables.Advanced SQL:Relational SET Operators:	
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 Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	V	Clause – JOIN ON Clause – Outer Join. Sub Queries and Correlated Queries: WHERE – IN – HAVING – ANY and ALL – FROM. SQL Functions: Date and Time Function	
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 Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole			
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 Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole		Course Outcomes	
CO3 Competent in use of SQL CO4 Analyse functional dependencies for designing robust Database Textbooks 1 S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	CO1	Describe basic concepts of database system	
CO4 Analyse functional dependencies for designing robust Database Textbooks 1 S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	CO2	Design a Data model and Schemas in RDBMS	
Textbooks 1 S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	CO3	Competent in use of SQL	
S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Managen System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	CO4	Analyse functional dependencies for designing robust Database	
System", Springer International Edition 2007. Reference Books 1 Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole		Textbooks	
Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon "Fundamentals of DBMS" Vijay Nicole	1	System", Springer International Edition 2007.	anagement
Concepts", McGrawHill2019, 7th Edition. Alexis Leon & Mathews Leon "Fundamentals of DBMS" Vijay Nicole		Reference Books	
Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole	1	Concepts", McGrawHill2019, 7th Edition.	
Publications 2014, 2 nd Edition.	2	Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nic Publications 2014, 2 nd Edition.	cole

NOTE:	NOTE: Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://nptel.ac.in/courses/106106093/								
2	https://nptel.ac.in/courses/106106095/								
3	NPTEL & MOOC courses titled Relational Database Management Systems								

SECOND YEAR – SEMESTER - IV

ELECTIVE - IV: INTRODUCTION TO DATA SCIENCE

Subjec		L	Т	P	S	Credits	Inst.	Marks				
Code			_			0 - 0 - 0 - 0 - 0 - 0	Hours	CIA	External	Total		
		3				3	3	25	75	100		
]	Learning Ob	jectives					
LO1	То	intro	duce 1	the co	ncept	s, techniques	and tools in	Data Sci	ence			
LO2	LO2 To understand the various facets of data science practice, including data collection and integration, exploratory data analysis, predictive modelling, descriptive modelling and effective communication.											
Prerequ	isite	e: Sho	uld h	ave s	tudie	d Commerce	in XII Std					
Unit						Content	S			lo. of Iours		
I	В		s and	uses		ets of data – I	Data science	e process -	- Big			
II	О		ew – 1	resear	ch go	ess: als - retrievin sis – Model t	_					
III	N	Algorithms: Machine learning algorithms – Modelling process – Types – Supervised – Unsupervised - Semi-supervised										
IV	Introduction to Hadoop: Hadoop framework – Spark – replacing MapReduce– NoSQL – ACID – CAP – BASE – types											

	Case Study:
V	Prediction of Disease - Setting research goals - Data retrieval – preparation - exploration - Disease profiling - presentation and
	automation
	TOTAL
	Course Outcomes
CO1	To describe what Data Science is, what Statistical Inference means, identify probability
COI	distributions, fit a model to data and use tools for basic analysis and communication
CO2	To describe what Data Science is, what Statistical Inference means, identify probability
	distributions, fit a model to data and use tools for basic analysis and communication
CO3	To describe what Data Science is, what Statistical Inference means, identify
	probability distributions, fit a model to data and use tools for basic analysis
	and communication To describe what Data Science is, what Statistical Inference means, identify probability
CO4	distributions, fit a model to data and use tools for basic analysis and communication
~ -	To describe what Data Science is, what Statistical Inference means, identify probability
CO5	distributions, fit a model to data and use tools for basic analysis and communication
	Textbooks
1	Davy Cielen, Arno D. B. Meysman, Mohamed Ali, "Introducing Data Science",
1	manning publications 2016
	Roger Peng, "The Art of Data Science", lulu.com 2016.
	MurtazaHaider, "Getting Started with Data Science – Making Sense of Data
	with Analytics", IBM press, E-book.
	Reference Books
	Davy Cielen, Arno D.B. Meysman, Mohamed Ali, "Introducing Data Science:
1	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
2	Added", 2015,1st Edition.
2	Cathy O'Neil, Rachel Schutt, "Doing Data Science Straight Talk from the
3	Frontline", O'Reilly Media 2013.
4	Lillian Pierson, "Data Science for Dummies", 2015 II Edition
NOTE:	Latest Edition of Textbooks May be Used

THIRD YEAR – SEMESTER - V

CORE - IX: COST ACCOUNTING - I

Subje	ct _T	L	Т	P	S	Credits	Inst.		Marks	
Code	•		1	r	3	Creatis	Hours	CIA	External	Total
	5	5				4	5	25	75	100
					L	earning Obj	ectives			
LO1	To u	ınd	erstand	d the va	arious	concepts of c	ost accoun	iting.		
LO2	_					Cost accounts				
LO3	То д	gain	know	ledge 1	egardi	ing valuation	methods o	f material.		
LO4						fferent metho			ur cost.	
LO5	To k	cno	w the a	apporti	onmer	nt of Overhea	ds.			
Prereq	uisite:	Sh	ould l	nave st	udied	Commerce i	n XII Std			
Unit						Contents				No. of Hours
I	Introduction of Cost Accounting Definition-Nature and Scope – Principles of Cost Accounting – Cost Accounting and Financial Accounting - Cost Accounting Vs Management Accounting –Installation of Costing System – Classification of Costs– Cost Centre– Profit Centre.								ing Vs	15
II	Cost Sheet and Methods of Costing Preparation of Cost Sheet - Tenders & Quotations - Reconciliation of Cost and Financial Accounts –Unit Costing-Job Costing.								ation of	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 lethod –	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.						Vages – e time–	15		
V	Overheads Costing 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.							Primary thods of	15	
								DTAL		75
THEO	RY 20	%	& PR	OBLE	MS 80)%				
						Course Outc	omes			
CO1	Reme	emb	er and	recall	the va	rious concep	ts of cost a	ccounting		
CO2	Demo	onsi	trate th	e prep	aratior	and reconci	liation of c	ost sheet.		
CO3						on methods o				

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
1	Making, 1991, McGraw–Hill, New York.
2	Jain S.P. and Narang K.L. Cost Accounting, Latest Edition.2013, Kalyani
2	Publishers, New Delhi,
3	V.K.Saxena and C.D.Vashist, Cost Accounting, Sultan Chand publications, New
3	Delhi
4	Murthy A &GurusamyS,CostAccounting,Vijay Nicole Imprints Pvt. Ltd.
4	Chennai
5	Prasad.N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Kolkata
NOTE	: Latest Edition of Textbooks May be Used
	Web Resources
1	https://study.com/learn/lesson/cost-accounting-principles-examples-what-is-cost-accounting.html
2	https://www.accountingtools.com/articles/what-is-material-costing.html
3	https://www.freshbooks.com/hub/accounting/overhead-cost

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - X: BANKING LAW AND PRACTICE

Subjec	L	T	P	S	Credits	Inst.		Marks					
Code		1	1	S	Credits	Hours	CIA	External	Total				
	5				4	5	25	75	100				
				L	earning Obj	ectives							
LO1	To he	elp the	student	s unde	erstand vario	us provisio	on of Banki	ng Regulat	ion Act				
	1949	applical	ble to b	anking	g companies	including c	cooperative	banks					
LO2					entral bank c		_	central bank	ing				
7.00					nd their roles								
LO3					ral Bank in								
	_				ole of bank	_		ole in pro	omoting				
	agrici	alture ar	nd indu	stry, ro	ole in financi	al inclusion	1						
1.04	Толг	danata :-	d harr	000:4-1	fund of oc		mlra alaia-4	:vaa aad = ::	20000 24				
LO4		o understand how capital fund of commercial banks, objectives and process of asset securitization etc.											
1.05					cing systems	rolotional	in of hort	ore and are	tomara				
LO5					rsement etc.	retationsn	тр от банк	ers and cus	stomers,				
	CIOSS	ilig of ci	neques,	, endor	Content	· c			No. of				
Unit					Content	S			Hours				
	Intro	duction	to Ba	nking									
	History of Banking- Provisions of Banking Regulations Act 1949 -												
	Components of Indian Banking - Indian Banking System-Phases of												
I	Development - Banking Structure in India - Public Sector Banks,												
	Private Banks, Foreign Banks, RRB, UCB, Payment Banks and Small												
	Finance Banks - Banking System – Branch Banking - Unit Banking - Universal Banking- Financial Inclusion												
					ercial Bank								
					on –Need -		Central Ba	anking Vs					
П				_	nctions of Ce				15				
111				_	efinition - Fu			_	13				
	Corporate Banking – Digital banking – Core Banking System (CBS) -												
				onomi	c Developme	ent.							
		ing Pra		CAS	A – Types	of Donor	nita Onar	ing Donle					
	• •				A – Types a - Account S	-	-	_					
				•	ustomer Rel								
III		mers –l				anonomp	Special	1 JP 65 01	15				
					ding Sources	s- Lending	Principles	-Types of					
					ssets and inc	_	_						
	,		-		Reverse Repo	Rate - s	ecurities o	f lending-					
	Facto	rs influ	encing	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 Ombudsman.	15
V	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 banking companies including cooperative banks	e to
CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function	
CO3	Gain knowledge about the Central Bank in India, its formation, nationali organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion	zing its
CO4	Evaluate the role of capital fund of commercial banks, objectives and pro- Asset securitization etc	ocess of
CO5	Define the practical banking systems relationship of bankers and custom crossing of cheques, endorsement etc.	ners,
	Textbooks	
1	Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publ Chennai	lication,
2	Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall Inc Learning Private Ltd, New Delhi	lia
3	Gupta P.K. Gordon E.Banking and Insurance, Himalaya publication, Kol	lkata
4	Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication	
5	K P Kandasami, S Natarajan & Parameswaran, Banking Law and Practic Chand publication, New Delhi	ee, S
	Reference Books	
1	B. Santhanam, Banking & Financial System, Margam Publication, Chem	nai
2	KataitSanjay, Banking Theory and Practice, Lambert Academic Publishi	ng,

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

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - XI: INCOME TAX LAW AND PRACTICE- I

Subjec	t L	Т	Р	S	Credits	Inst.		Ma	arks			
Code		<u> </u>	r	3		Hours	CIA	Ext	xternal Tota			
	5				4	5	25	,	75	100		
				Le	earning Obj	ectives						
LO1	To understand the basic concepts & definitions under the Income Tax Act,1961.											
LO2	To compute the residential status of an assessee and the incidence of tax.											
LO3	To compute income under the head salaries.											
LO4	To learn the concepts of Annual value, associated deductions and the											
	calculation of income from House property. To compute the income from Business & Profession considering its basic											
LO5						ess & Pro	fession con	nside	ring it	s basic		
		•	-		owances.	777 G . 1						
Prerequi	site: Sh	ould ha	ve stuc	ned Co	ommerce in X	XII Std			•			
Unit					Contents					o. of		
	Intuc	duction	to Inc	omo T	lov.				H(ours		
I	Introduction to Income Tax – History – Objectives of Taxation - Features of Income Tax – Meaning of Income – Types – Important Definitions Under the Income Tax Act –Types of Assessee – Income exempted under Section 10.											
П	Residential Status Residential Status – Residential Status of an Individual – Company – HUF – Basic Conditions – Additional Conditions – Incidence of Tax and Residential Status – Problems on Residential Status and Incidence of Tax.								1	15		
	Incon	ne from	Salar	y								
III	Salary Income - Definition - Allowances -Taxability - Perquisites - Kinds of Perquisites -Types of Provident Fund - Gratuity - Pension - Commutation of Pension - Deduction of Salary - Profits in Lieu of Salary - Computation of Salary Income .									15		
IV	Incom — Gro to be	ss Annı e let	House al Val out S	Prope ue, Ne elf-Oc	perty arty –Basis of the Annual Va cupied Proport om House Pr	lue - Let-c perty –	out vs Deen	ned	1	15		

	Profits and Gains from Business or Profession									
	Income from Business or Profession – Allowable Expenses –									
	Expenses Disallowed - General Deductions - Depreciation -									
V	Undisclosed Income & Investments, Unexplained expenditure									
'	(Sec 69A, 69B, 69C, 69D) – Compulsory Maintenance of									
	Books of Accounts – Audit of Accounts of Certain Persons – Special Provisions for Computing Incomes on Estimated Basis									
	Special Provisions for Computing Incomes on Estimated Basis									
	(Deemed Income) – Computation of Income from Business or Profession.									
	TOTAL	75								
	Course Outcomes	7.5								
THEOF	RY 20% & PROBLEMS 80%									
CO1	Demonstrate the understanding of the basic concepts and definition	ns 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	f 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, Sa Publications, Agra.	hitya Bhavan								
5	T. Srinivasan – Income Tax & Practice –Vijay Nicole Imprints Pr Chennai.	ivate Limited,								
	Cilciniai.									
	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 Prakasar	n. New Delhi.								
3	Vinod K. Singhania, Students Guide to Income Tax., U.K. Bhargha	ıva Taxman.								
4	Dr. Vinod K Singhania, Dr. Monica Singhania, Taxmann's Studen	ts' Guide to								
	Income Tax, New Delhi.									
5	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Pra	ectice, Sultan								
3	& 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									

3 – Strong, 2- Medium, 1- Low

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

THIRD YEAR – SEMESTER – V

CORE -XII: AUDITING & CORPORATE GOVERNANCE

Subje	et	L	Т	P	S	Credits	Inst.		Marks					
Code	:		1	Г	3	Credits	Hours	CIA	Exte	rnal	Total			
		5 4 5 25 7						7.	5	100				
					L	earning Obje	ectives							
LO1	_					rstand proces		•	lassifi	cation	١.			
LO2	Toimpart knowledge on internal check and internal control.													
LO3	To illustrate the role of auditors in company. To help students understand the framework, theories and models of Corporate													
LO4	To help students understand the framework, theories and models of Corpor Governance.													
	Governance. To provide insights into the concept of Corporate Social Responsi													
LO5	O5 To provide insights into the concept of Corporate Social Responsibility erequisite: Should have studied Commerce in XII Std													
Prereq	uisite	: Sh	ould h	iave st	udied		in XII Std			.				
Unit						Contents					o. of			
	Tradra				:4: ~					H	ours			
				to Aud	_	of Auditin	a Dietir	action bot	woon					
I		_					-							
1	Auditing and Accounting – Objectives – Advantages and Limitations of Audit – Scope of Audit – Classifications of Audits –										15			
						ses and Non-								
						cumentation	<u> </u>							
	Audi	it Pl	anning	g – Auc	lit Pro	gramme – Pr	ocedures -	Internal Au	ıdit -					
II	Audit Planning – Audit Programme – Procedures - Internal Audit - Internal Control – Internal Check System – Vouching – Cash and									15				
	Trade Transactions - Verification of Assets and Liabilities and its								d its					
	Valu													
		_	ıy Aud											
	Appointment and Removal of Auditors - Rights, Duties and													
III	Liabilities of Auditor – Audit Report - Recent Trends in Auditing -										15			
	Information Systems Audit (ISA) – Auditing around the computer – Auditing through the computer - e-audit tools.													
				_	•	Governance Corporate		re: Theorie	S &					
		-				-		rnance Reforms.						
IV						s in India					15			
						ticed in var								
								-						
	Introduction to Environment, Social and Governance (ESG - Code of Conduct – Directors and Auditors													
	_	_		cial Re	_	•								
		-				Philanthropy			-					
V						inability - C					15			
•	CSR					ernance - C				15				
		-	ies Ac	t, 2013	(Sect	ion 135 sche	dule – VII). – CSR P	olicy					
	Rule	es				ТОТАТ					75			
						TOTAL					75			

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

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	3	2	3	2	3	3	3	3	2

CO2	3	2	2	2	2	2	2	2	3	2	2
CO3	3	3	3	2	3	2	3	3	3	3	2
CO4	3	2	2	2	2	2	2	2	3	3	2
CO5	3	3	3	2	3	2	3	3	3	2	2
TOTAL	15	12	13	10	13	10	13	13	15	13	10
AVERAG E	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2.6	2

3 – Strong, 2- Medium, 1- Low

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

Subjec	et	т	Т	D	C	Cua dita	Inst.		Mark	S		
Code	:	L	1	P	S	Credits	Hours	CIA	Externa	al To	otal	
		4				3	4	25	75	1	.00	
	Learning Objectives											
LO1		To introduce the concept of financial management.										
LO2	To learn the capital structure theories.											
LO3		To gain knowledge about techniques in capital budgeting										
LO4		To learn about dividend payment models.										
LO5		To understand the needs and calculation of working capital in an organization.										
Prerequ	isite	s: Sh	ould	have	studi	ed Commerc		<u>d</u>		•	•	
Unit	nit									No. of Hours		
	Int	nadu	otion							nour	8	
	Introduction											
	Meaning and Objectives of Financial Management – Functions of											
I	Financial Management. Finance - Sources of Finance-Role of									1.0		
	Financial Manager - Financial Goals- Profit maximization Vs.									12	2	
	Wealth Maximization – Concept of Time Value Money –Risk and											
	Return – Components of Financial Management.											
	Fin	ancia	al De	cision	l							
	Cap	oital	Struc	ture	– D	efinition - N	Meaning- T	heories-	Factors			
	dete	ermir	ning (Capita	al Str	ucture – Va	rious appro	aches of	Capital			
	stru	icture	;									
II	Cos	st of	Capit	al – N	M eani	ng – Factors	determining	g cost of o	capital -	12	2	
	Methods - Cost of Equity Capital - Cost of Preference Capital -											
	Cost of Debt – Cost of Retained Earnings – Weighted Average (or)											
	Composite Cost of Capital (WACC) Leverage – Concept –											
		-				Leverage	, .	•	•			

	1
Capital Budgeting - Meaning - Process - Cash Flow Estimation Capital Budgeting Appraisal Methods: Traditional Methods - Payback Period - Accounting Rate of Return (ARR). Discounted Cash-flow Methods: Net Present Value (NPV) - Internal Rate of Return - Profitability Index.	12
Dividend Decision Meaning – Dividend Policies – Factors Affecting Dividend Payment – Provisions on Dividend Payment in Company Law – Dividend Models - Walter's Model - Gordon's Model – M&M Model.	12
Working Capital Decision Working Capital - Meaning and Importance - Classification - Working Capital Cycle - Factors Influencing Working Capital - Determining Working Capital - Management of Current Assets: Inventories, Accounts Receivables and Cash.	12
TOTAL	60
XY 40% & PROBLEMS 60%	
Course Outcomes	
Recall the concepts in financial management.	
Apply the various capital structure theories.	
Apply capital budgeting techniques to evaluate investment proposals	
Determine dividend pay-outs.	
Estimate the working capital of an organization.	
Textbooks	
R.K. Sharma, Shashi K Gupta, Financial Management, Kalyani Publi New Delhi.	cations,
M.Y. Khan and P.K.Jain, Financial Management, McGraw Hill Educ Noida.	ation,
I.M. Pandey, Financial Management, Vikas Publications, Noida.	
Dr.S.N. Maheshwari, Elements of Financial Management, Sultan Cha Sons, New Delhi.	and &
Dr.Kulkarni and Dr. Sathya Prasad, Financial Management, Himalay Publishing House, Mumbai.	a
Reference Books	
Prasana Chandra, Financial Management, Tata McGraw Hill, NewDo	elhi.
I.M. Pandey, Financial Management, Vikas Publishing, Noida.	
Khan & Jain, Financial Management, Sultan Chand &Sons, New Del	hi.
	Capital Budgeting Appraisal Methods: Traditional Methods - Payback Period - Accounting Rate of Return (ARR). Discounted Cash-flow Methods: Net Present Value (NPV) - Internal Rate of Return - Profitability Index. Dividend Decision Meaning - Dividend Policies - Factors Affecting Dividend Payment - Provisions on Dividend Payment in Company Law - Dividend Models - Walter's Model - Gordon's Model - M&M Model. Working Capital Decision Working Capital Decision Working Capital Cycle - Factors Influencing Working Capital - Determining Working Capital - Management of Current Assets: Inventories, Accounts Receivables and Cash. TOTAL EY 40% & PROBLEMS 60% Course Outcomes Recall the concepts in financial management. Apply the various capital structure theories. Apply capital budgeting techniques to evaluate investment proposals Determine dividend pay-outs. Estimate the working capital of an organization. Textbooks R.K. Sharma, Shashi K Gupta, Financial Management, Kalyani Publi New Delhi. M.Y. Khan and P.K.Jain, Financial Management, McGraw Hill Educ Noida. I.M. Pandey, Financial Management, Vikas Publications, Noida. Dr.S.N. Maheshwari, Elements of Financial Management, Sultan Chesons, New Delhi. Dr. Kulkarni and Dr. Sathya Prasad, Financial Management, Himalay Publishing House, Mumbai. Reference Books Prasana Chandra, Financial Management, Tata McGraw Hill, NewDelpasana Chandra, Financial Mana

4.	A.Murthy, Financial Management, ,Margham Publications, Chennai.							
5.	J. Srinivasan and P. Periyasamy, Financial Management, Vijay Nicole Publishers, Chennai.							
NOTE: Latest Edition of Textbooks May be Used								
Web Resources								
	THE RESOURCES							
1	https://efinancemanagement.com/financial-management/types-of-financial-decisions							
1 2	https://efinancemanagement.com/financial-management/types-of-financial-							

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

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

Subjec	t L	$\left \begin{array}{c c} \mathbf{T} & \mathbf{P} \end{array}\right $		S Credi	Credits	lita Inst.		Marks			
Code		1	1	В	Credits	Hours	CIA	External	Total		
	4				3	4	25	75	100		
	Learning Objectives										
LO1	LO1 To get introduced to indirect taxes										
LO2	LO2 To have an overview of Indirect taxes										

LO3	To be familiar the CGST and IGST Act	
LO4	To learn procedures under GST	
LO5	To gain knowledge about Customs Duty.	
Prerequ	isite: Should have studied Commerce in XII Std	
Unit	Contents	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 - Challenges in Implementation of GST.	12
III	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 Profiteering Rules – Doctrine of Unjust Enrichment	12
IV	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	Customs Act 1962 Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules &Exemptions.	12
	TOTAL	60
CO1	Course Outcomes	
CO1	Acquaintance with Indirect tax laws	
CO2	Exposed to the overview of GST. Apply provisions of CGST and IGST	
CO ₄	Summarise procedures of GST	
CO4	Discuss aspects of Customs Duty in India	
CO5	<u> </u>	
1	Textbooks Vinod K Singhania, Indirect Taxes, Taxman's Publications, New Do	elhi
1	vinod K Singhama, munect Taxes, Taxinan 8 Fublications, New Di	U1111.

2	Dr. H.C. Mehrotra & Prof .V.P Agarwal, Goods and Services Tax (GST),
2	Sahitya Bhawan Publications, Agra.
3	Rajat Mohan, Goods & Services Tax, Bharat Law Publications House, New
3	Delhi.
4	CA. Pushpendra Sisodia, Indirect Tax Laws, Bharat Publications, New Delhi.
	Reference Books
1	V.S.Datey, All About GST, Taxmann Publications, New Delhi.
2	T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications,
	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:	NOTE: Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://iimskills.com/goods-and-services-tax/#:~:text=GST- %20an%20acronym%20for%20Goods%20and%20Services%20Tax- ,etc.%2C%20to%20stand%20as%20a%20unified%20tax%20regime.								
2	https://tax2win.in/guide/gst-procedure								
3	https://www.cbic.gov.in/htdocs-cbec/customs/cs-act/cs-act-ch9								

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

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

Subject		L	Т	P	S	Credits	Inst.		Marks			
Cod	e	_	_	_		010010	Hours	CIA	External	Total		
		2		2		3	4	25	75	100		
Learning Objectives												
LO1	То	To introduce the software development life cycles										
LO2				conce	epts re	elated to struc	tured and ob	jected or	iented analy	sis &		
LO3		sign o		n insi	ght in	to UML and s	software test	ing techn	iques			
Prerequ	 uisite	: Sho	ould l	nave s	tudie	ed Commerce	e in XII Std					
Unit	Contents							No. of Hours				
I	Introduction – Evolution – Software Development projects – Emergence of Software Engineering.Software Life cycle models – Waterfall model – Rapid Application Development – Agile Model – SpiralModel											
II	Requ	uiren	nent A	-		d Specification	on – Gather	ring and	Analysis –			
III	– La Func	SRS – Formal System Specification Software Design – Overview – Characteristics – Cohesion & Coupling – Layered design – Approaches Function Oriented Design – Structured Analysis – DFD – Structured										
IV	Object case	Design – Detailed design Object Modeling using UML – OO concepts – UML – Diagrams – Use case, Class, Interaction, Activity, State Chart – Postscript										
V	Codi	Coding & Testing – coding – Review – Documentation – Testing – Black-box, White-box, Integration, OO Testing, Smoke testing.										
						TOTAL	L					
						Course Out	comes					
CO1				shoule g tool		ble to specify	software re	quiremen	ts, design th	e		
CO2	То	write	e test	cases	using	different test	ing techniqu	ies.				

	Textbooks								
1	Rajib Mall, "Fundamentals of Software Engineering", PHI 2018, 5th Edition.								
2	Roger S. Pressman, "Software Engineering - A Practitioner's Approach", McGraw Hill 2010, 7thEdition.								
	Reference Books								
1	Pankaj Jalote, "An Integrated Approach to Software Engineering", Narosa Publishing House 2011,3rd Edition.								
NOTE:	NOTE: Latest Edition of Textbooks May be Used								
Web Resources									
1	NPTEL online course – Software Engineering - https://nptel.ac.in/courses/106105182/								

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 thecorrectness and soundness of their software through testing tools.

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

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

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

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

- 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

Subject Code	L	Т	P	S	S Credits	Inst. Hours	Marks		
							CIA	External	Total
	2		2		3	4	25	75	100
Learning Objectives									
LO1	To make aware of the software requirements, design the software using tools								

LO2	To be acquainted with the writing of test cases using different testing techniques.							
Prereq	uisite: Should have studied Commerce in XII Std							
Unit	Contents	No. of Hours						
I	Object Orientation – System development – Review of objects - inheritance - Object relationship – Dynamic binding – OOSD life cycle – Process – Analysis – Design – prototyping – Implementation – Testing-Overview of Methodologies							
II	Rambaugh methodology, OMT – Booch methodology, Jacobson methodology – patterns – Unified approach – UML – Class diagram – Dynamic modelling.							
III	Introduction - UML - Meta model - Analysis and design - more information. Outline Development Process: Overview of the process-Inception - Elaboration-construction- refactoring patterns transmission-iterative development -use cases.							
IV	OO Design axioms – Class visibility – refining attributes – Methods – Access layer – OODBMS – Table – class mapping view layer							
V	Interaction diagram-package diagram-state diagram-activity diagram-deployment diagram - UML and programming							
	TOTAL							
	Course Outcomes							
CO1	The students should be able to specify software requirements, design th software using tools	e						
CO2	To write test cases using different testing techniques.							
	Textbooks							
1	Ali Bahrami, "Object Oriented System Development", McGraw-Hill International Edition 2017.							
2	Martin Fowler, Kendall Scott, "UML Distilled", Addision Wesley							
3	Eriksson, "UML Tool Kit", Addison Wesley							
	Reference Books							
1	Booch G., "Object oriented analysis and design", Addison-Wesley Pub Company 3 rd edition.	olishing						

2	Rambaugh J, Blaha.M. Premeriani, W., Eddy F and Loresen W.,
	"ObjectOrientedModeling and Design", PHI

NOTE: Latest Edition of Textbooks May be Used

UML Lab	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 thecorrectness and soundness of their software through testing tools.

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

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

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							

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

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

Reference Books

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

THIRD YEAR - SEMESTER - VI

CORE -XIII: COST ACCOUNTING - II

Subject	, ,	Т	Ъ	C	C 114-	Inst.		Marks	
Code	L	1	P	S	Credits	Hours	CIA	Externa	l Total
	6				4	6	25	75	100
Learning Objectives									
LO1	To unc	lerstan	d the st	andarc	ls in Cost Ac	counting			
LO2	To kno	w the	concep	ts of c	ontract costii	ng.			
LO3	To be	familia	r with	the cor	ncept of proc	ess costing	•		
LO4	To lear	rn abou	ıt opera	ation co	osting.				
LO5	To gai	n insig	hts into	stand	ard costing.				
Prerequ	isite: Sl	nould l	have st	udied	Cost Accou	nting in V	Sem		
Unit	Contents								No. of
Ullit									Hours
I	An Int - Diff Degree	roducti erence es of nsibilit	betwee CAS (cyar)	CAS – en CA Covera	Purpose of C AS and FAF ge – Cost	R Regulation	ons – Diff ng Standar	erent rds -	18
II	Defini	tions -	Featur	es - A	ng and Cont Comparison tract - Prepa	- Calculat	ion of Prof		18

	Due song Conting	
III	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.	18
IV	Operation Costing Operation Costing – Meaning – Preparation of Operating Cost Sheet – Transport Costing – Power Supply Costing–Hospital Costing–Simple Problems.	18
V	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.	18
	TOTAL	90
THEO	RY 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	g cost
CO4	statement.	-
CO5	Set up standards and analyse variances.	
	Textbooks	
1	Jain S.P. and Narang K.L. Cost Accounting. Kalyani Publishers. New	w Delhi.
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical C Chand & Co, New Delhi.	
	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand pu	ıblications.
3	New Delhi.	
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham	oublications,
4	Chennai.	·
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Del	hi.
	Reference Books	
1	Polimeni, Cost Accounting: Concepts and Applications for Manager Making, New York, McGraw-Hill, Noida.	
2	Jain S.P. and Narang K.L. Cost Accounting, Kalyani Publishers, New	
3	V.K.Saxena and C.D. Vashist, Cost Accounting, Sultan Chand publi Delhi.	
4	Murthy A &Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pv Chennai.	rt. Ltd.
5	Prasad. N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Bar	ngladesh.
NOTE:	Latest Edition of Textbooks May be Used	
	Web Resources	
1	https://www.economicsdiscussion.net/cost-accounting/contract-costi	ng/32597
2	https://www.wallstreetmojo.com/process-costing/	
3	https://www.accountingnotes.net/cost-accounting/operating-costing/	17755

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER – VI

CORE - XIV: MANAGEMENT ACCOUNTING

Subject	, _T	Т	n	C	C 1!4-	Inst.		Marks		
Code		1	P	S	Credits	Hours	CIA	External	Total	
	6				4	6	25	25 75 1		
				Le	earning Obj	ectives				
LO1	To un	derstan	d basic	s mana	agement acco	ounting				
LO2	To know the aspects of Financial Statement Analysis									
LO3	To far	niliariz	e with	fund fl	ow and cash	flow analys	sis			
LO4	To lea	rn abou	ıt budg	etary c	control					
LO5	To gai	in insig	hts into	marg	inal costing.					
Prerequ	isite: S	hould l	have st	udied	Financial A	ccounting	in I Seme	ster.		
Unit					Contents			N	o. of	
Unit								Н	ours	

	Introduction to Management Accounting	
	Management Accounting – Meaning – Scope – Importance-	
	Limitations - Management Accounting Vs Cost Accounting -	
I	Management Accounting Vs Financial Accounting.	18
1	Analysis and Interpretation of Financial Statements – Nature and	10
	Significance – Types of Financial Analysis – Tools of Analysis –	
	Comparative Statements - Common Size Statement - Trend	
	Analysis.	
	Ratio Analysis	
	Ratio Analysis: Meaning – Advantages – Limitations – Types of	
II	Ratios – Liquidity Ratios – Profitability Ratios - Turnover Ratios –	18
	Solvency Ratios - Leverage Ratios - Preparation of Financial	
	Statements from Ratios.	
	Funds Flow & Cash Flow Analysis	
	Introduction, Meaning of Funds Flow Statement-Ascertainment of	
	Flow of Funds - Schedule of Changes in Working Capital-	
III	Adjusted Profit and Loss Account - Preparation of Funds Flow	18
111	Statement.	10
	Cash Flow Statement: Meaning – Advantages – Limitations –	
	Preparation of Cash Flow Statement as per AS 3 –Cash Flow from	
	Operating, Financing and Investing activities	
	Budget and Budgetary Control	
IV	Meaning – Preparation of Various Budgets – Cash Budget -	18
	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	
V	Even Point - Margin of Safety – Cost- Volume Profits Analysis.	18
	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
	RY 20% & PROBLEMS 80%	
CO	Course Outcomes	
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	4'
CO5	Formulate criteria for decision making using principles of marginal of	osting.
	Textbooks	
1	Jain S.P. & Narang K.L. (2018) Cost and Management Accounting,	Kalyani ———
_ •	Publications,	

2	Rds. Maheswari, Cost and Management Accounting, Sultan Chand Sons
	Publications, New Delhi.
3	Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publishers,
	Chennai.
4	Jenitra L Mervin ,Daslton L Cecil, Management Accounting, Lerantec Press,
4	Chennai.
_	T.S.Reddy& Y. Hari Prasad Reddy, Management Accounting,
5	MarghamPublications, Chennai.
	Reference Books
1	Chadwick – The Essence of Management Accounting, Financial Times
	Publications, England.
2	Charles T.Horngren and Gary N. Sundem–Introduction to Management
	Accounting, Pearson, Chennai.
3	Murthy A and GurusamyS, Management Accounting- Theory & Practice, Vijay
3	Nicole Imprints Pvt. Ltd .Chennai.
4	Hansen - Mowen, Cost Management Accounting and Control, South Western
4	College, India.
5	N.P. Srinivasan, Management Accounting, New Age publishers, Chennai.
	11.1. Stim vasan, tranagement recounting, thew rige publishers, Chemiai.
NOTE	: Latest Edition of Textbooks May be Used
	Web Resources
1	https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flow-
1	analysis-accounting/13300
2	https://accountingshare.com/budgetary-control/
	https://decodificingshdie.com/oddgetary-control/
3	https://www.investopedia.com/terms/m/marginalcostofproduction.asp

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

AVERAG E	3	2.1	2.6	2	2	2	2.6	2.6	3	2	2.4	
-------------	---	-----	-----	---	---	---	-----	-----	---	---	-----	--

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - VI

CORE - XV: INCOME TAX LAW AND PRACTICE - II

Subjec	et L	Т	P	S	Credits	Inst.		Ma	rks							
Code	!	L	Г	3		Hours	CIA	Ex	ternal	Total						
	6				4	6	25		75	100						
					earning Obj											
LO1					relating to cap											
LO2			-		r computation					 						
LO3				_	to set off an	d carry for	ward of los	sses a	and ded	uctions						
7.04		Gross T			C: 1: : 1 :	<u> </u>										
LO4					of individual											
LO5	To gai															
Prerequ	uisite: S	hould l	have st	udied	Financial A	ccounting	in I stSen	1	N. 4							
Unit					Contents				No. of							
	Capital	Cains	<u> </u>						Hours	<u>\$</u>						
	•			ansfer	- Short terr	n vs Lone	o term car	nital								
I	-				oital Gains –		-		1	18						
	54, 54H					Lacinpuon	under See	uon								
					ces & Clubb	ing of Inco	·····									
11					on of Incom	_		es –	18							
II	_	•		-	bing of Incom			25	_	19						
				Forwa	ard of Losses	s and Ded	uctions Fr	om								
	Gross T			Т-4	.1 Т Г	.	C C -4 - CC	1								
***					al Income - F											
III	Carry Forward of Losses (Simple Problems). Deductions U/S									18						
	80C, 80CC, 80CCB, 80CCC, 80CCD, 80 CCE, 80D, 80DD, 80DDB, 80E, 80EE, 80EEA, 80EEB, 80G, 80GG, 80GGA,															
						, 800, 80	JGG, 80GG	JA,								
	80TTA,				nıy. ome – Indivi	dual										
** 7	-				me – Indivi me - Tax Li		on Individ	nole	_	10						
IV	(Old reg					ability of	all illulviu	uais	J	18						
	` `															
	Income				T. A . T	<i>-</i>	A .1 *.*									
					Tax Act – Ir											
					s of Income											
V				_	of Return –			_	1	18						
		•	-		of Loss – Be					_						
		_	_		– Permanent											
				staten	nent (26 AS)	and Annu	al Informa	tion	1							
	Stateme	ent (Als	5).		mom + =				-							
THE	DX7 20 64	0 DP	ODI T	N AC C	TOTAL				9	90						
THEO	RY 20%	& PR	ORLE	IVIS 80	J%											

	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									
	https://www.incometaxmanagement.com/Direct-Taxes/AY-2021-									
2	22/assessment/1-assessment-of-an-individual.html									
3	https://www.incometax.gov.in/iec/foportal/									

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

3 – Strong, 2- Medium, 1- Low

<u>THIRD YEAR – SEMESTER – VI</u> <u>Discipline Specific Elective 5/6 Entrepreneurial Development</u>

Subject	L	Т	P	S	Credits	Inst.		Marks		
Code	L	1	r	3	Credits	Hours	CIA	External	Total	
	5				3	5	25	75	100	
				L	earning Obj	ectives				
LO1 To know the meaning and characteristics of entrepreneurship										
LO2	To identify the various business opportunities									
LO3	To understand the Process of setting up an enterprise									
LO4	To gain knowledge in the aspects of legal Compliance of setting up of an									
	enterprise									
LO5	To dev	elop a	n und	erstar	nding of the r	ole of MSM	IE in eco	nomic grow	th	
Prerequisi	te: Shou	ıld ha	ve stı	ıdied	Commerce	n XII Std				
Unit					Content	S		1	No. of	
]	Hours	
I	Meanir Entrepr – Diff Meanir	reneur erence og of	of ship - e bet Entre _l	Entre Type ween prene	epreneur epreneurship es of Entrepre Entreprene ur – Traits – o in India.	eneurship – urship and	Self Employ	oloyment yment –	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 Opportunity.	15
III	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.	15
IV	Business Model Canvas and Formulation of Project Report Introduction – Contents of Project Report – Project Description – Market Survey – Fund Requirement – Legal Compliance of setting Up of an Enterprise – Registration – Source of Funds – Modern Sources of Funds.	15
V	MSME's and Support Institutions Government Schemes and Women Entrepreneurship – Importance of MSME for Economic Growth – MSME – Definition – Role of Government Organizations in Entrepreneurship Development – MSME DI – DIC – Khadi and Village Industries Commission – NSIC – NABARD, SICVI, SFC, SDC, EDII, EPCCB. Industrial Estates – Government Schemes – Prime Minister Employment Generation Programme – Women Entrepreneurship in India.	15
	TOTAL	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 entrepreneurs	or women
	Textbooks	
1	Jayashree Suresh, (Reprint 2017) Entrepreneurial Development, Marg Publications. Chennai.	ham
2	Dr. C.B. Gupta &Dr. S.S. Khanka (Reprint 2014). Entrepreneurship A Business Management, Sultan Chand & Sons, New Delhi.	nd Small
3	Charantimath Poornima, (Reprint 2014.), Entrepreneurship developmed Pearson Education, India.	ent-Small,
4	RajShankar,(Reprint2016),EntrepreneurshipTheoryandPractice,Vijayl Imprints Pvt. Ltd, Chennai.	Nicoleand
5	Vasant Desai, (Reprint 2017). Dynamics of Entrepreneurial Developm Management Twenty Fourth Edition. Himalaya Publishing House. Mu	

	Reference Books							
1	Anil kumar, Poornima, Principles of Entrepreneurial development, Newage publication, Chennai.							
2	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.							
NOT	E: Latest Edition of Textbooks May be Used							
Web	Resources							
1.	https://www.interaction-design.org/literature/topics/design-thinking							
2.	https://www.bms.co.in/steps-involved-in-setting-up-of-an-enterprise/							
3.	http://www.msme.gov.in/							

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

3 – Strong, 2- Medium, 1- Low

<u>THIRD YEAR – SEMESTER – VI</u> <u>DISCIPLINE SPECIFIC ELECTIVE – 6 /6: HUMAN RESOURCE MANAGEMENT</u>

Subjec	t	L	T P S Credits		Credits	Inst.	Inst. Marks			
Code		L	1	Г	3	Credits	Hours	CIA	External	Total
		5				3	5	25	75	100
	Learning Objectives									
C1	C1 To explore to the aspects relating of Human resource management									
C2	Toequip with the various processes of Recruitment and Selection									
C3	To	be a	acqua	inted	with	Training me	thods and	the conc	ept of Perf	formance
	Ap	praisa	al							
C4	To	learn	abou	t Indu	strial	Relations				
C5	То	To assimilate knowledge on employee welfare.								
Prerequ	isite	e: Sho	uld h	ave s	tudie	d Commerce	in XII Std	·		

Unit	Contents	No. of Hours
I	Introduction to HRM Definition of HRM, Objectives – Importance – Nature- Scope, Role and Qualities of a HR Manager - Human Resource Planning - Meaning, Definition, Importance, Factors Affecting HRP, Process Involved in Human Resource Planning. Human Resource Information System (HRIS) - Job Analysis, Need for Job Analysis, Steps in Job Analysis, Job Description and Specification.	12
II	RECRUITMENT AND SELECTION Definition – Objectives – Factors affecting recruitment – internal and external source of recruitment – Selection Process – Curriculum Vitae –Test- types– Kinds of employment interview – Medical Screening – Appointment Order. TRAINING AND DEVELOPMENT	12
III	Induction – Training – Methods – Techniques – Identification of the training needs – Training and Development – Performance appraisal – Transfer – Promotion and termination of services – Career Development.	12
IV	INDUSTRIAL RELATIONS Industrial Disputes and Settlements (Laws Excluded) – Settling Industrial Disputes in India – Arbitration – Adjudication – SettlementLabour Relation – Functions of Trade Unions – Forms of collective bargaining-Workers' participation in management – Types and effectiveness.	12

V	EMPLOYEE WELFARE Employee Welfare: Meaning, Objectives, Philosophy, Scope, Limitations, Types of Employee Welfare, Statutory and Non- Statutory Welfare Measures, and Labour Welfare Theories- Social Security, Health, Retirement &Other Benefits- Remuneration – Components of remuneration – Incentives – Benefits	12						
	TOTAL	60						
CO	Course Outcomes							
CO1	Examine the role of HRM in the new ageorganisation and plan man prequirements and implement techniques of job design.	ower						
CO2	Formulate action plans for employee Recruitment and Selection.							
CO3	Choose appropriate methods of Trainning							
CO4	Estimate, defend and handle legal compliance in HRM involving trade union disputes and employee retention.							
CO5	Formulate strategies for employee welfare.							
	Textbooks							
1	Ashwathappa, Human Resource Management, Tata McGraw-Hill Education, Noida.							
2	Mamoria C B and Gaonkar S V Personnel Management Himalaya							
3	Sunil Lalla and Neha Shukla, Human Resource Management, Nirali I Publishers, Pune.							
4	P.Subba Rao, Personnel and Human Resource Management, Himalay Publishing House, Mumbai.	ra						
	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, Wi	ley, India.						
3	Dr.K.Sundar and Dr.J Srinivasan, Human Resource Development, M. Publications, Chennai.	argham						
4	Jane Weightman, Human Resource Management, VMP Publishers, M	Iumbai.						
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/ewelfare/employee-welfare/99778	mployee-						

	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

<u>THIRD YEAR – SEMESTER - VI</u> <u>DISCIPLINE SPECIFIC ELECTIVE – 7 / 8: R LANGUAGE</u>

Subject	L	Т	P	S	Credits	Inst.		Marks			
Code						Hours	CIA	External	Total		
		2	3		3	5	25 75		100		
	Learning Objectives										
LO1	Acquire programming skills in core R Programming										
LO2	Acquire	e Obje	ect-or	iented	programmin	g skills in F	R Progran	nming.			
LO3	Develop the skill of designing graphical-user interfaces (GUI) in R Programming										
LO4	Acquire R Programming skills to move into specific branches										
Prerequisi	te: Shou	ıld ha	ve sti	ıdied	Commerce i	n XII Std					

	List of Exercises									
	1. Data In R									
	2. Reading And Writing Data									
	3. R And Databases									
	4. Dates									
	5. Factors									
	6. Subscribing									
	7. Character Manipulation									
	8. Data Aggregation									
	9. Reshaping DataBasics									
	10. The R Environment									
	11. Probability And Distributions									
	12. Descriptive Statistics and Graphics									
	13. One- And Two-Sample Tests									
	14. Regression And Correlation									
	15. Analysis Of Variance And The Kruskal–Wallis Test									
16. Tabular Data										
17. Power And The Computation Of Sample Size										
18. Advanced Data Handling										
	19. Multiple Regression									
	20. Linear Models									
	21. Logistic Regression									
	22. Survival Analysis									
	23. Rates And Poisson Regression									
	24. Nonlinear Curve Fitting									
	TOTAL									
	Course Outcomes									
CO1	To understand the problem solving approaches									
CO2	To learn the basic programming constructs in R Programming									
CO3	To practice various computing strategies for R Programming -based so real world problems	olutions to								
CO4	To use R Programming data structures - lists, tuples, dictionaries.									
CO5	To do input/output with files in R Programming									

THIRD YEAR – SEMESTER - VI

DISCIPLINE SPECIFIC ELECTIVE – 8 / 8: PRACTICAL TALLY

Subject	L	Т	P	S	S Credits	Inst.		Marks			
Code						Hours	CIA	External	Total		
		2	3		3	5	25	75	100		
Learning Objectives											
LO1	Examination of general accounting applications as they apply to computerized financial records for eachstep of the accounting cycle to the completion of financial statements, as well as managementaccounting applications.										
Prerequisite: Should have studied Commerce in XII Std											
	List of Exercises										

- 1. Preparation of Trial Balance preparation of profit and loss accounts, Balance sheet
- 2. Interest simple, compound interest calculation. Setting ledger master, Interest report.
- 3. Receivable and payable management, meaning activating bill wise details, alltypes of entries
- 4. Cost Centres and Category summary, cost centre breakup ledgers and group breakup outstanding receivable and payable, interest receivable and payable, statistics, cash and fund flow daybook list of account reversing journals, optional vouchers.
- 5. Budget Budgetary control creation of budget, group budget Budgetary ledgercreation alteration of budget deletion of budget.
- 6. Introduction to GST, Getting started with GST, Transferring Input tax to GST,Interest supply of goods, GST reports
- 7. Recording advance entries, Exports, Imports, Exempted Goods, Adjustment and Return filing, GST tax payments
- 8. Electronic Commerce Introduction, Tax Collected at Source (TCS), Procedures for E-commerce Operator, Input Tax Credit: Introduction, Important Points, InputService Distributors
- 9. Matching of Input Tax Credit, Returns, GSTR-2, Other Taxable Persons, AnnualReturn, Overview of the IGST Act, Overview, Other Provisions.
- 10. GST Portal, Introduction, GST Eco-system, GST Suvidha Provider (GSP), UploadingInvoices

TOTAL

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

THIRD YEAR – SEMESTER - VI

PROFESSIONAL COMPETENCY SKILL GENERAL AWARENESS FOR COMPETITIVE EXAMINATION

Subj	ect	T	Т	P	S	Credita	Inst.		Marks		
Cod		L	1	r	3	Credits	Hours	CIA	External	Total	
		2				2	2	25	75	100	
	Learning Objectives										
LO1	То	create	the	oppoi		y for learnin		fferent di	sciplines an	d builds	
	expe	rienc	e for s	studer	nts as	they grow int	to lifelong le	earners.			
LO2	To b	uild e	experi	ences	for s	tudents as the	y grow into	lifelong l	earners.		
LO3	To k	now 1	the ba	sic co	ncep	ts of various of	discipline				
Prereq	Prerequisites: Should have studied Commerce in XII Std										
UNIT						Details	5			No. of Hours	
I	Indian Polity Basics concepts- Three organs of Indian government (Executives, Legislature, Judiciary), Introduction to Indian Constitution – Salient features of constitution, Preamble, Fundamental rights, Fundamental duties, Directive Principles of State policy, Types of Majority, Amendments to the Constitution, Basic structure Doctrine, Division of subjects between the union and the states local Governance, Elections in 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									6	
III	vegetation – Indian agriculture- Major crops and its distribution, Indian 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 – Financial Markets.										
IV	Hist Mod Refo – Ho Non Civi India	ory lern In orms, ome F -Coc l Disc	ndia - Revo Rule l operat obedi	form lution eague ion Mence	ary a e – M Ioven Move nd D	of Indian Nactivities – Wontague Chelnent – Simonement and Remand for Assembly and	orld War I a msford refo commission ound Table Pakistan –	and India orms – Ron and Neh conferer Cabinet	s Response wlett Act – ru Report – nces – Quit	6	

V	International Conventions – Conferences and Protocol – Indian Environmental laws and Environment Related organisation							
TOTAL								
	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							