B.COM., INFORMATION TECHNOLOGY

SYLLABUS

FROM THE ACADEMIC YEAR 2025-2026

TAMILNADU STATE COUNCIL FOR HIGHER EDUCATION, CHENNAI – 600 005

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B.COM., INFORMATION TECHNOLOGY

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 Information Technology imparts design, development, implementation and management of information systems along with adapting software applications and computer hardware. Graduates in this field can mark their career presence with the scientific and technological aspect of collecting, classifying, storing, retrieving and disseminating recorded knowledge. Computer networking, web designing, databases, programming etc offer a lot of job prospects to candidates.

	REGULATIONS ON LEARNING OUTCOMES-BASED CURRICULUM RK GUIDELINES BASED REGULATIONS FOR UNDER GRADUATE PROGRAMME
Programme:	B.COM INFORMATION TECHNOLOGY
Programme Code:	
Duration:	UG - 3 years
Programme Outcomes:	PO1: Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups. PO3: Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development. PO4: Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of nonfamiliar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations. PO5: Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints. PO6: Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation

PO7: Cooperation/Team work: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team **PO8:** Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.

PO9: Reflective thinking: Critical sensibility to lived experiences, with self awareness and reflexivity of both self and society.

PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

PO 11 Self-directed learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.

PO 12 Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.

PO 13: Moral and ethical awareness/reasoning: Ability toembrace 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 demonstratingthe ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.

PO 14: Leadership readiness/qualities: Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.

PO 15: Lifelong learning: Ability to acquire knowledge and skills, including "learning how to learn", that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.

Programme Specific Outcomes:

PSO1 - Placement:

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

PSO 2 - Entrepreneur:

To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations

PSO3 – Research and Development:

Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.

PSO4 – Contribution to Business World:

To produce employable, ethical and innovative professionals to sustain in the dynamic business world.

PSO 5 – Contribution to the Society:

To contribute to the development of the society by collaborating with stakeholders for mutual benefit

Credit Distribution for UG Programmes

C T			or UG Progr			C TIT	C 114	11	C TT7	G. 111	77	G \$7	C 114	11	C 77	C 11/	77
Sem I	Credit	H	Sem II	Credit	H	Sem III	Credit	H	Sem IV	Credit	H	Sem V	Credit	H	Sem VI	Credit	H
Part 1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	5.1 Core Course – \CC IX	4	5	6.1 Core Course – CC XIII	4	6
Part.2 English	3	6	Part2 English	3	6	Part2 English	3	6	Part2 English	3	6	5.2 Core Course – CC X	4	5	6.2 Core Course – CC XIV	4	6
1.3 Core Course – CC I	5	5	23 Core Course – CC III	5	5	3.3 Core Course - CC V	5	5	4.3 Core Course - CC VII Core Industry Module	5	5	5. 3.Core Course CC -XI	4	5	6.3 Core Course – CC XV	4	6
1.4 Core Course – CC II	5	5	2.4 Core Course – CC IV	5	5	3.4 Core Course – CC VI	5	5	4.4 Core Course CC VIII	5	5	5. 4.Core Course –/ Project with viva- voce CC -XII	4	5	6.4 Elective -VII Generic/ Discipline Specific	3	5
1.5 Elective I Generic/ Discipline Specific	3	4	2.5 Elective II Generic/ Discipline Specific	3	4	3.5 Elective III Generic/ Discipline Specific	3	4	4.5 Elective IV Generic/ Discipline Specific	3	3	5.5 Elective V Generic/ Discipline Specific	3	4	6.5 Elective VIII Generic/ Discipline Specific	3	5
1.6 Skill Enhancement Course SEC-1	2	2	2.6 Skill Enhancement Course SEC-2	2	2	3.6 Skill Enhancement Course SEC-4, (Entrepreneurial Skill)	1	1	4.6 Skill Enhancement Course SEC-6	2	2	5.6 Elective VI Generic/ Discipline Specific	3	4	6.6 Extension Activity	1	-
1.7 Skill Enhancement -(Foundation Course)	2	2	2.7 Skill Enhancement Course –SEC- 3	2	2	3.7 Skill Enhancement Course SEC-5	2	2	4.7 Skill Enhancement Course SEC-7	2	2	5.7 Value Education	2	2	6.7 Professional Competency Skill	2	2
						3.8 E.V.S.	-	1	4.8 E.V.S	2	1	5.8 Summer Internship /Industrial Training	2				
	23	30		23	30		22	30		25	30		26	30		21	30

Total – 140 Credits

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

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]		14
	Skill Enhancement Course SEC-1	2	2
Part-4	Foundation Course	2	2
		23	30

Semester-II

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

Second Year – Semester-III

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

Semester-IV

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

Third Year Semester-V

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based	22	26
Part-4	4 Value Education		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	rt-4 Extension Activity		-
	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	25 Marks
	Seminars	
	Attendance and Class Participation	
External Evaluation	End Semester Examination	75 Marks
	Total	100 Marks
	METHODS OF ASSESSMENT	
Remembering (K1)	 The lowest level of questions require stude information from the course content Knowledge questions usually require students information in the text book. 	
Understanding (K2)	, , , , , , , , , , , , , , , , , , ,	comprehending polating and nire students to
Application (K3)	 Students have to solve problems by using / apply learned in the classroom. Students must use their knowledge to deter response. 	
Analyze (K4)	 Analyzing the question is one that asks the stude down something into its component parts. Analyzing requires students to identify reason motives and reach conclusions or generalization 	s causes or
Evaluate (K5)	 Evaluation requires an individual to make j something. Questions to be asked to judge the value of an idea work of art, or a solution to a problem. Students are engaged in decision-making an solving. Evaluation questions do not have single right an 	ludgment on lea, a character, lead problem –
Create (K6)	 The questions of this category challenge strength engaged in creative and original thinking. Developing original ideas and problem solving strength 	udents to get

Highlights of the Revamped Curriculum:

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

Value additions in the Revamped Curriculum:

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

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

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

B.COM INFORMATION TECHNOLOGY

Part	Course Code	Title of the Course	Credits	Hours
		FIRST YEAR		
		FIRST SEMESTER		
Part I		Language – Tamil	3	6
Part II		English	3	6
Part III		Core Paper I – Financial Accounting I	5	5
Part III		Core Paper II - Principles of Management	5	5
Part III		Elective I – C Programming Lab	3	4
ranım		Elective I - Python Programming Lab	3	4
Part IV		Skill Enhancement Course SEC – 1 - NME (Business Organisation)	2	2
		Foundation Course FC - (Elements of Industry 4.0)	2	2
		TOTAL	23	30
		SECOND SEMESTER		
Part I		Language – Tamil	3	6
Part II		English	3	4
Part II	NMSDC	Naan Mudhalvan	2	2
Part III		Core Paper III – Financial Accounting II	5	5
Part III		Core Paper IV-Business Law	5	5
Part III		Elective II - Office Automation Lab Elective II - Object Oriented Programming with C++	3	4
		Skill Enhance Course SEC–2–NME–Advertising	2	2
Part IV		Skill Enhancement Course – SEC 3 – Corporate Social Responsibility	2	2
		TOTAL	25	30
		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 -Company Law	4	4
		Elective III – Programming in JAVA Lab Elective III – Web Technology(PHP) Lab	3	4
Part IV		Naan Mudhalvan	2	2
Part IV		Skill Enhance Course SEC – 4 (Enterprise Resource Planning)	2	2
•		Environmental Studies	-	1
		Health and Wellness	1	-
		TOTAL	23	30
	1	FOURTH SEMESTER	<u>. </u>	
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-Business Mathematics and Statistics	5	5

Part III	Elective IV– Relational Database Management System	3	3
	Elective IV– Cryptography and Network Security		
	Skill Enhance Course SEC – 5 (Introduction to	2	2
Part IV	Data Science) Skill Enhancement Course – SEC 6 (Commerce		
Part IV	Practical)	2	2
	Environmental Studies	2	1
	TOTAL	25	30
·	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 – Project Viva Voce Auditing and	4	5
rait III	Corporate Governance	4	3
	Discipline Specific Elective 1/2 -	3	4
	Operation Research / 2/2 - Indirect Taxation		7
Part III	Discipline Specific Elective 3/4 – Software	_	
	Engineering+(UML Lab)/4/4Object oriented	3	4
D . W.	Analysis and Design+(UML Lab)		2
Part IV	Value Education	2	2
	Summer Internship / Industrial Training	2	-
	TOTAL	26	30
	SIXTH SEMESTER		
Part III	Core Paper XIII –Cost Accounting - II	4	6
Part III	Core Paper XIV-Management Accounting	4	6
Part III	Core Paper XV- Income Tax Law and Practice II	4	6
	Discipline Specific Elective 5/6- Entrepreneurial		
Dowt III	Development / Human Resource Management	3	5
Part III	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	141	180

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

CORE-I: FINANCIAL ACCOUNTING I

Subject	, ,	T	ъ	C	Cuadita	Inst.		Marks		
Code	L	T	P	S	Credits	Hours	CIA	Extern	nal	Total
	5	5 5 5 25 75						75		100
	Learning Objectives									
LO1	LO1 To understand the basic accounting concepts and standards.									
LO2	To kno	ow the	basis fo	or calc	ulating busin	ess profits.				
LO3	To fan	niliariz	e with	the acc	counting treat	ment of de	preciation.			
LO4	To lear	rn the r	nethod	s of ca	lculating pro	fit for sing	le entry sys	tem.		
LO5					accounting to			claims.		
Prerequ	isites: S	Should	have s	tudied	d Accountan	cy in XII S	Std			
Unit					Contents					o. of ours
I	Finance Accou Accou Errors	cial Ac nting nts– St – Re	counting Conce ubsidiate contraction contr	ng – I epts a ry Boo tion o	ial Accounting Meaning, Deaning Convention Oks — Trial Of Errors — ation Statemen	efinition, C tions - J Balance - Preparation	Journal, L Classificati on of Sus	edger ion of pense	1	15
II	Final Expend	diture	nts of and R	eceipts	Frading Conds – Preparation Sheet with A	ion of Tra	ding, Profi		1	15
III	Deprecent Types Convert Units of Bills of Bills	ciation - Strainstrains - Strains - Strain - Str	- Meanight Linethod. uction hange rsemen	ning – ne Me Metho – De nt of B	Exchange Objectives othod — Dimi od — Cost Mo finition — Sp Gill — Collect bebate	inishing Ba del vs Revo pecimens –	alance met aluation - Discounti	ng of	1	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	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)								15	
				T	OTAL				7	75

THEO	RY 20% & PROBLEM 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

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

CORE – II: PRINCIPLES OF MANAGEMENT

Subject	L	Т	P	S	Credits	('rodite	Inst.		Marks	
Code	L	1	Г	8	Credits	Hours	CIA	External	Total	
	5				5	5	25	75	100	
Learning Objectives										
LO1 To understand the basic management concepts and functions										
LO2	To know	the va	rious to	echniq	ues of planni	ng and dec	ision makir	ng		
LO3	To famil	iarize v	with the	e conce	epts of organ	isation stru	cture			
LO4	To gain l	knowle	dge ab	out the	various con	ponents of	staffing			
LO5	To enabl	e the st	udents	in unc	lerstanding tl	ne control t	echniques	of manager	nent	
Prerequis	ites: Sho	uld hav	ve stud	lied Co	mmerce in	XII Std				
Unit					Contents				No. of Hours	
I	Introduction to Management Meaning- Definitions – Nature and Scope - Levels of Management – Importance - Management Vs. Administration – Management: Science or Art –Evolution of Management Thoughts – F. W. Taylor, Henry Fayol, Peter F. Drucker, Elton Mayo - Functions of Management - Trends and Challenges of Management. Managers – Qualification – Duties & Responsibilities.						15			
II	Important Tools at (MBO).	The Me nce and nd Te Decision	l Elem chniqu on Ma	ents of es of king: N	nitions — Na f Planning — Planning — Meaning — Casting.	- Types – Managen	Planning F nent by C	Process - Objective	15	
III	in Decision Making – Forecasting. Organizing Meaning - Definitions - Nature and Scope – Characteristics – Importance – Types - Formal and Informal Organization – Organization Chart – Organization Structure: Meaning and Types - Departmentalization – Authority and Responsibility – Centralization and Decentralization – Span of Management.						15			
IV	Sources Procedur Manager	of Rec re – To nent G egree P	eruitme est- Int ames - erform	ent – M terview - Perfo ance A	taffing- Staf Modern Reconstruction Training: rmance App Appraisal – V	ruitment M Need - T raisal - Me	Iethods - S ypes— Proreaning and	Selection notion – Methods	15	

V	Directing Motivation –Meaning - Theories – Communication – Types - Barriers to Communications – Measures to Overcome the Barriers. Leadership – Nature - Types and Theories of Leadership – Styles of Leadership - Qualities of a Good Leader – Successful Women Leaders – Challenges faced by women in workforce - Supervision. Co-ordination and Control Co-ordination – Meaning - Techniques of Co-ordination. Control - Characteristics - Importance – Stages in the Control Process - Requisites of Effective Control and Controlling Techniques – Management by Exception [MBE].	15
	Total Course Outcomes	75
CO1		
CO2	Demonstrate the importance of principles of management. Paraphrase the importance of planning and decision making in an organization.	ation
CO3	Comprehend the concept of various authorizes and responsibilities of an organization.	uulOII.
CO4	Enumerate the various methods of Performance appraisal	
CO5	Demonstrate the notion of directing, co-coordination and control in the	
	management. Textbooks	
1	Gupta.C.B, -Principles of Management-L.M. Prasad, S.Chand& Sons Co. New Delhi.	Ltd,
2	DinkarPagare, Principles of Management, Sultan Chand & Sons Publicati New Delhi.	ons,
3	P.C.Tripathi& P.N Reddy, Principles of Management. Tata McGraw, Hill	l, Noida.
4	L.M. Prasad, Principles of Management, S.Chand&Sons Co. Ltd, New De	elhi.
5	R.K. Sharma, Shashi K. Gupta, Rahul Sharma, Business Management, Ka Publications, New Delhi.	alyani
	Reference Books	
1	K Sundhar, Principles Of Management, Vijay Nichole Imprints Limited,	
2	Harold Koontz, Heinz Weirich, Essentials of Management, McGraw Hill, Chand and Sons, New Delhi.	Sultan
3	Grifffin, Management principles and applications, Cengage learning, Indi	a.
4	H.Mintzberg - The Nature of Managerial Work, Harper & Row, New Yor	
5	Eccles, R. G. & Nohria, N. Beyond the Hype: Rediscovering the Essence Management. Boston The Harvard Business School Press, India.	of
NOTE: 1	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

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

ELECTIVE - I: C PROGRAMMING LAB

	т .	T	P	S	Credits	Inst.		Marks	
Code	L	1		3		Hours	CIA	External	Total
	2		2		3	4	40	60	100
7.04					earning Obj				
LO1	, , , , , , , , , , , , , , , , , , , ,								
LO2									
LO3					cturing the o		natrix, struc	et.	
Prerequi	sites: 5	nouia	nave s	tuaiea	Commerce	ın XII Su			NT C
Unit					Contents]	No. of Hours
I	Langua Progradirectiv	age-Be m-First ves	nefits t Prog	of C gram	e:C Languag over other in CPre-pr	languages-(ocessor ir	Compilation n CPre-pro	n of C	
II		rules	in C		Operators:Va Types in				
III	Statem Contin	ent in ue Stat	C-C lement	Loops , Break	ts:Decision & Control Statement of C:Arrays in	Structure F	Practice pro		
IV	problei	ms Fu ques in	nctions C-Sto	s in Corage C	in C-String C:Function I lasses in C-F	Prototype-F	Parameter 1	Passing	
V	Enume	eration ms (S	(or enu	ım) in	Jnions:Point C- Pointer v x manipul	s Array in	C - C app	lication	
					Total				
					Course Outo				
CO1	Apply	the cor	cept of	f Contr	ol Structures	to solve ar	ny given pro	blem.	
CO2	Apply related	the cor to sear	ncept of ching,	f single sorting	e and multi-d g and matrix	imensional operations.	arrays to so	olve problem	ns
CO3					gs for writing				y.
CO4				_	ept of user de		recursive fu	nctions.	
CO5	Apply	concep	t of str	uctures	s to write pro	<u> </u>			
					Textbool				
1	Educat	ion, IS	BN:97	8-93-5	amming in A 316-513-0.				
2					"Programmi 8-01-9949-1		nd Edition,	2018, Oxfo	rd
3					s M. Ritchie, ecation India,				2nd

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

	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/

<u>FIRST YEAR – SEMESTER - I</u>

ELECTIVE - I: Python Programming Lab

Subject	\mathbf{L}	T	P	S	Credits	Inst.		Marks		
Code		1		В		Hours	CIA	External	Total	
	2		2		3	4	40	60	100	
	Learning Objectives									
LO1	LO1 Describe the core syntax and semantics of Python programming language.									
LO2					ing with the					
LO3	Illustra sets.	ate the 1	process	s of str	ucturing the	data using l	lists, dictio	naries, tuple	es and	
LO4	Under	stand th	ne usag	e of pa	ckages and l	Dictionaries	S			
Prerequ	isites: S	Should	have s	tudied	Commerce	in XII Std	l			
Unit					Contents				o. of ours	
I	Compo Variab	uter Sot les and	ftware- l Identi	Pythor fiers -	gorithms-Con n programmi Operators - l	ng languag	e - Literals	-		
п	types, Input / output 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	Function Function Value-Argum	ons: P ons: C Return nents in	rogran Calling ing F n Pyth	Nouver Roude Value of the Value of the Value of the Value of Tourns of the Value of	tines- Define-Returning ns- Parame Default Arguve Functions	ing Funct Functions- ter Passin ments in l	Calling g - Key	Non- word		
IV	attribu		dular		ware Objects n: Modules					
V	Diction	naries a Files: C	and Set	s: Dict g, read	ionary type i ing and writ	n Python - ing text fi	Set Data ty les – Exce	ption		
					Total					
				(Course Outc	omes				
CO1					le Python pro					
CO2	Write proble		Pythor	n progr	ams using co	onditionals	and loopin	g for solving	3	
CO3	Decon	npose a	Pytho	n prog	ram into fund	ctions				
CO4	Repres	sent cor	npoun	d data	using Python	lists, tuple	es, dictiona	ries 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:	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	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
from the	Professional Communication and Transferrable Skill
course	

Learning Resources:

• Recommended Texts

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

• Reference Books

- 1. Mark Lutz, "Learning Python Powerful Object Oriented Programming", O'reilly Media 2018, 5th Edition.
- 2. Timothy A. Budd, "Exploring Python", Tata MCGraw Hill Education Private Limited 2011, 1 st Edition.
- 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

<u>FIRST YEAR – SEMESTER – I</u>

SEC 1 – Non Major Elective - BUSINESS ORGANIZATION

Subject Cod	de L	Т	P	S	Credits	Inst.		Marks		
Subject Col		1	1	3		Hours	CIA	External	Total	
	2 2 25 75								100	
	Learning Objectives									
LO1 Understand business, profession, organization, social responsible business ethics.									ities, and	
LO2	LO2 Explore business forms, distinguish public and private sectors.									
LO3	Compre advanta		indu	ıstry	location fa	actors, ana	ılyze laı	rge-scale	operation	
LO4					xchanges, und					
LO5	Underst	and tr	ade as	ssocia	tions and char	mbers of co	mmerce in	n India.		
Unit					Contents				No. of Hours	
I		nce of	busir	ness C	types - Profess Organization - cs.		_	es of	10	
II	Hindu f	amily	- join	t stoc	ization - sole k companies - c enterprises -	co-operativ	e societie	es -	15	
III	industry	on of s	mum mall	firm	ctors influence - advantages of operation - in-	of large - sca	le operati		15	
IV	Stock E Stock E	xchan xchan	ge - F ges in	Indi	on - Types - V a - Business C ination in Indi	Combination			10	
V	Trade as			Char	nber of comm	erce - Funct	ions - Ob	jectives	10	
					TOTAL				60	
					Course Outco			•		
CO1					pes, evaluate l ations in busin		anization	's importan	ce,	
CO2	Compar advanta				ess organizatio tages	ons, assess p	oublic and	l private sec	ctor	
CO3					on factors, ev strial estates					
CO4					functions an ypes, and effe		n, analyz	e business		
CO5					ns and chambe be in promoting				ojectives,	

	Textbooks								
	Business organisation and management, Publisher: P. Allan (January 1, 1978)								
	Reference Books								
1	Y.K.Bhushan, Business organization, Sultan Chand, New Delhi.								
2	Prakash&Jagedesh, Business organization & Management.								
3	Reddy &Gulshar, Principles of Business Organization & Management								
4.	Vasudevan&Radhasivam, Business Organization.								
NOTE: Lat	est Edition of Textbooks May be Used								
	Web Resources								
1	https://www.vedantu.com/commerce/forms-of-business-organizations								
2	https://ncert.nic.in/textbook/pdf/kebs102.pdf								
3	https://www.teachmint.com/tfile/studymaterial/b-com/BusinessOrganization/Chapter1/46db05e8-ee83-497e-aa56-573a1388f80e								

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	2	3	3	3	2	2
CO2	3	2	2	3	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	3	3	2	2	2	2	2	3	2	2
CO5	3	3	3	3	3	2	3	3	3	2	3
TOTAL	15	14	14	12	13	10	13	13	15	10	12
AVERAGE	3	2.8	2.8	2.4	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

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

FOUNDATION COURSE - ELEMENTS OF INDUSTRY 4.0

Subject Co	,do	L	Т	P	S	Credits	Inst.		Marks		
Subject Co	Jue	L	1	1	В	Crearis	Hours	CIA	External	Total	
		2 2 25 75					75	100			
	Learning Objectives										
LO1	Lea	arn th	e esse	entials	of Ir	dustry 4.0					
LO2	Un	derst	and th	e nee	d and	applications	of Artificial	Intelliger	nce		
LO3	Set	t a ba	se for	big d	ata ar	d Internet of	Things				
LO4	Fai	miliar	rize th	e app	licatio	ons and tools	of Industry4	.0			
LO5	Tra	ain on	the s	kills 1	equir	ed by industri	es				
		Prer	equis	ites: S	Shoul	d have studie	d Commer	ce in XII	Std		
Unit						Contents				No. of Hours	
I	In Re	dustry volut	ion 1.	aning 0 to 4	- type .0- Te	ry4.0 s. Industrial R echnologies of				10	
П	Ar	tificia		lligen	ce: I	History of AI - es of AI	Foundation	ns of AI -	Γhe AI	10	
III	Big Da	_	a : Me mpon	_	•	sentials of Big Data Characte		•) - Big	15	
IV	Into	ernet Ianufa	of Th	ng – F	Iealth	Introduction care – Educat Transportation	ion – Aeros	pace and	s of IoT	15	
V	Im Im	pact	of inc of Ind	lustry ustry 4	y 4.0 4.0 or	n Society, Bus	iness, Gove	rnment aı		10	
						-				60	
					(Course Outco	mes		1		
CO1	De	fine a	ınd ex	plain	the te	echnologies of	industry 4.0	0			
CO2	An	alyze	and a	pply	AI ir	the relevant	sector				
CO3	Su	mmaı	ize th	e cha	racter	ristics of big d	ata				
CO4	Ap	ply th	ne too	ls of I	ndust	try 4.0					
CO5	Ad	lapt to	the	chang	ing n	eeds of the inc	lustry				

	Textbooks
1	 Seema Acharya J, Subhashini Chellappan, (2019) "Big Data and Analytics", 2nd Edition, Wiley Publication, New Delhi. Russel S, Norvig P (2010), "Artificial Intelligence: A Modern approach", 3rd Edition, Prentice Hall, New York. Pethuru Raj and Anupama C. Raman, (2017), "The Internet of Things: Enabling Technologies, Platforms, and Use Cases", Auerbach Publications
	Reference Books
1	Judith Hurwitz, Alan Nugent, Fern Halper, Marcia Kaufman, "Big Data for Dummies", John Wiley & Sons, Inc.
2	Nilsson (2000), Artificial Intelligence: A new synthesis, Nils J Harcourt Asia PTE Ltd.
NOTE: Lat	est Edition of Textbooks May be Used
	Web Resources
1	https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SEEA1403.pdf
2	https://library.oapen.org/bitstream/handle/20.500.12657/43836/extern al_content.pdf? sequence=1
3	https://www.vssut.ac.in/lecture_notes/lecture1428643004.pdf

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	2	3	2	3	3	3	2	2
CO2	3	2	3	2	2	2	2	3	2	3
CO3	3	3	3	3	2	3	3	3	2	2
CO4	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	3	2	3	3	3	2	3
TOTAL	14	13	13	13	10	13	13	15	10	12
AVERAGE	2.8	2.6	2.6	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

<u>FIRST YEAR – SEMESTER - II</u>

CORE-III: FINANCIAL ACCOUNTING-II

Subjec	et ,	I To D G G I'M Inst. Mar					Marks			
Code	L		P	S	Credits	Hours	CIA	Extern		
	5		5 5 25				75		100	
	Learning Objectives									
LO1					epare differen ments Systen		accounts su	ıch		
LO2					on of expense		partmental	accounts		
LO3		in an un			bout partners				sior	n and
LO4		des knov	_		learners rega	rding Partn	ership Acc	ounts rela	atin	g
LO5	To kr	ow the 1	equire	nents	of internation	nal account	ing standar	ds		
Prerequ					d Accountan					
Unit					Contents					. of urs
Ι	Hire Intere	Purchase st - De	Syste fault a	m – A and Re	ment System accounting Trepossession - em - Calculati	reatment – - Hire Pur	chase Tra		1	5
П	Account - Instalment System - Calculation of Profit Branch and Departmental Accounts Branch - Dependent Branches: Accounting Aspects - Debtors system - Stock and Debtors system - Distinction between Wholesale Profit and Retail Profit - Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses - Inter- Departmental Transfer at Cost or Selling Price.						veen ches is of	1	5	
III	Partne Good	will - C	ccount Calculat	s: –Ad	dmission of f Hidden Go			l l	1	5
IV	Partner - Death of a Partner. Partnership Accounts - II Dissolution of Partnership - Methods - Settlement of Accounts Regarding Losses and Assets - Realization account - Treatment of Goodwill - Preparation of Balance Sheet - One or more Partners insolvent - All Partners insolvent - Application of Garner Vs Murray Theory - Accounting Treatment - Piecemeal Distribution - Surplus Capital Method - Maximum Loss Method.							nent nore n of neal	1	5
V	Object According India Role Plan	ctives and unting Solor of IFRS	d Uses tandard - IFRS Ind A	s of Fi ls - De S Ado _l	r financial renancial State velopment of otion vs Con Introduction	ements for Accounting	Users-Role ag Standard mplementa	e of ls in		5

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

MAPPING WITH PROGRAMME OUTCOMES

AND PROGRAMME SPECIFIC OUTCOMES

	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	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

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

CORE – IV: BUSINESS LAW

Subject	т	Т	P	C	Cuadita	Inst.		Marks	rks				
Code	L	1	P	S	Credits	Hours	CIA	Externa	l Total				
	5				5	5	25	75	100				
					earning Obj								
LO1	To kn		nature	and o	bjectives of I	Mercantile	lawand the	essential	s of valid				
LO2					rformance co								
LO3	To be	acquai	nted w	ith the	rules of Inde	emnity and	Guarantee						
LO4					entials of Bai								
LO5	To un	derstan	nd the p	rovisi	ons relating t	o sale of go	oods						
Prerequis	ites: S	Should	have s	tudied	d Commerce	in XII Sto	i 						
Unit					Contents				No. of Hours				
I	India Valid – Con	Idian Contract Indian Contract Act 1872: Definition of Contract, Essentials of Idial Contract, Classification of Contract, Offer and Acceptance Indian Contract, Classification of Contract, Offer and Acceptance Indian Contract, Classification of Contract, Offer and Acceptance Indian Contract, Classification of Contract, Essentials of Idian Contract, Classification of Contract, Offer and Acceptance Idian Contract, Offer and Idian Contract, Offer a											
П	Perfo Mean liabili Promi	Joint procal ch of Quasi	15										
III	Contr. Surety	act of	Indem ability,	nity a Kin	ind Guarant and Contract ds of Guar	of Guaran			15				
IV	Bailm Classi Baile	ification e – Lav	nd Ple n of I v of Pl	dge – Bailme edge -	Bailment - ents, Duties - Meaning – of Pawner and	and Right Essentials	s of Bailo	r and	15				
V	Sale of Definition Contraction Prope	of Good ition of act of rty – C	ds Act of Cor Sale Contrac	1930: ntract - Cor ts invo	of Sale – Inditions and olving Sea Rover - Rights of	Formation Warrantie outes - Sale	s - Transf by Non-o	er of	15				
				<u>-</u>	TOTAL	-			75				
,					Course Outo	come		•					
CO1	Expla	in the (<u>Obje</u> cti	ves an	d significanc	e of Merca	ntile law						
CO2	Under	rstand t	he clau	ises an	nd exceptions	of Indian	Contract Ac	et.					
CO3	Outlin	ne the c	ontrac	t of inc	demnity and	guarantee							
CO4	Famil	iar witl	h the p	rovisio	on relating to	Bailment a	ınd Pledge						
					sions of Sale								

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

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

<u>FIRST YEAR – SEMESTER – II</u>

ELECTIVE-II: OFFICE AUTOMATION LAB

Subject	L	Т	P	S	Credits	Inst.		Mark	S				
Code	L	1	r	2	Credits	Hours	CIA	Exter	nal	Total			
	2		2		3	4	40	60		100			
					earning Obj								
LO1					oducing the								
		_			crosoft Office	e which has	different c	compone	ents l	like			
					Power point.								
LO2					ce oriented r					ning.			
LO3					editor, spread			n softwa	are.				
Prerequ	isites: S	Should	have s	tudied	Commerce	in XII Sto	1						
Unit		Contents No. of Hours											
					dware and S								
I		CPU-Input Devices: Key board, Mouse and Scanner. Output devices: Monitor, Printer. Introduction to Operating systems -											
	Introduction to Programming Languages.												
		Word Processing: File menu operations - Editing text – tools, formatting, bullets and numbering - Spell Checker - Document											
II		formatting – Paragraph alignment, indentation, headers and											
	footers, printing – Preview, options, merge.												
111		Spreadsheets: Excel – opening, entering text and data, formatting,											
III					ering, handli			<i>U</i> ,					
IV					atting and								
1 1					tements, intr								
		-			on to Pow	-							
V					asting & viev								
					bject – includ			s –					
	Shae t	ransitic	on – Ar	nmatic	on effects, au	aio inclusio	on, timers.						
					Total Course Outc	omog							
CO1	Under	ctand th	ne basi		omputer syst		componen	te					
CO2					pasic concept				σe				
CO3	Under	stand a	nd ann	ly the l	pasic concept	s of electro	onic spread	sheet so	sc. ftwa	re			
CO4					pasic concept								
CO5					esentation us				~				
200			- 2200	P1	Textbook		,						
1	Peter 1	Norton.	"Intro	duction	1 to Compute		McGraw-H	ill.					
		,			Reference B								
1					Guy Hat-Da		immons, "N	Microso	ft 20	03",			
		1cGraw											
NOTE:	Latest]	Edition	of Te	xtbook	ks May be U								
4	*** 1			IDI / S	Web Resou		,						
1	Web c	ontent	trom N	DL / S	SWAYAM o	r opensour	ce web reso	urces					

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
- 3. Introduction to Information Technology, ITL Education Solutions limited, Pearson Education.
- 4. PC Hardware and A + Handbook Kate J. Chas PHI (Microsoft)

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

ELECTIVE - II: Object Oriented Programming with C++

Subject	т	Т	P	S	Credits	Inst.		Mark	S			
Code	L	1		3	Credits	Hours	CIA	Exter	nal	Total		
	2		2		3	4	40	60)	100		
				L	earning Obj	ectives						
LO1	To eng	gender a	an appı	reciatio	on for the nee	ed and char	acteristics	of Object	ct-			
LO2	impler	nent pr	ogrami		ne C++ languological of the control	~ ~			_			
		ed think		. 70	1.0	• • •						
Prerequi	isites: S	Should	have s	tudied	d Commerce	in XII Sto	<u> </u>		.	•		
Unit				o. of ours								
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 members - Constructors – Singleton class - Destructors											
II	Friend Functions and Friend Classes - Array of objects - Pointer to objects - this pointer - References - Dynamic memory allocation - Namespaces. Function Overloading: Overloading a function - Default arguments - Overloading Constructors. Operator Overloading: Overloading an operator as a member											
Ш	function – Overloading an operator as a friend function Overloading the operators [], (), -> and comma operators – Conversion Functions.Inheritance: Types of inheritance – protected access specifier –Virtual Base Class – Base class and derived class constructors. Run-time Polymorphism: Virtual Functions											
IV	Templ – Class	ates: Fo	unction ates.	temp	virtual funct lates – Overl	oading a fu	nction tem	plate				
V	an exc derived set_ter I/O S Manip	- Class templates. Exception Handling: Exceptions – try, catch, throw – Rethrowing an exception – Restricting exceptions - Handling exceptions in derived classes - terminate(), abort(), unexpected(), set_terminate(). I/O Streams: Formatted I/O with ios class functions - Manipulators – Creating own manipulator – Overloading << and >> operators.										
					Total							

	Course Outcomes							
CO1	Explain the various basic concepts of Object-orientation.							
CO2	Write programs to implement static binding							
CO3	Write programs to implement inheritance and dynamic binding							
CO4	Write programs to implement templates and exception handling and learn how to use STL class library.							
CO5	Write programs implementing File and Stream I/O.							
Textbooks								
1	Herbert Schildt, C++ - The Complete Reference, Third Edition, TMH, 1999.							
2	Grady Booch, <i>Object Oriented Analysis and Design</i> , Pearson Education, 2008. (For Unit I)							
	Reference Books							
1	Bjarne Strousstrup, <i>The C++ Programming Language</i> , Addison Wesley, 2000.							
2	J. P. Cohoon and J. W. Davidson, <i>C++ Program Design – An Introduction to Programming and Object-Oriented Design</i> , Second Edition, McGraw Hill, 1999.							
3	C. J. Lippman, C++ Primer, Third Edition, Addison Wesley, 2000.							
NOTE:	Latest Edition of Textbooks May be Used							

<u>FIRST YEAR – SEMESTER - II</u>

Object Oriented Programming with C++

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

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

SEC 2 - Non Major Elective - ADVERTISING

Subjec	t L	T	P	S	Credits	Inst.		Marks	3				
Code		1	r	3	Credits	Hours	CIA	External	Total				
	2				2	2	25	75	100				
	1				Learning (
LO1	and ele	ments	of adv	vertisi	ng.	-			as the benefits				
LO2	selectin	g an a	gency	, and	types of adve learn how to	maintain a c	lient-age	ncy relationsl	nip				
LO3	Examin negativ	e the e	ethica ences	l and of ad	social issues lvertising on I	in advertisi ndian values	ng, and u s and cult	nderstand thure	e positive and				
LO4					nication proce and brand e		-		lvertising in anaging brand				
LO5		earn copywriting essentials, copy elements and types, layout principles, execution yles, and pre-testing and post-testing methods in advertising No. of											
Unit	Contents												
I		NTRODUCTION: Advertising meaning-definition-objectives-scope- enefits-Elements-Media in Advertising											
II	advertis	ADVERTISING AGENCY: Advertising agency Features-Types of advertising agencies –Agency selection criteria-Maintaining Agency client relationship.											
III	aspects influence Econon	SOCIAL AND ECONOMIC ASPECTS OF ADVERTISING: Social aspects: Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture. Economic aspect: Effect of advertising on consumer demand, monopoly and competition, price.											
IV	BRANI	D BUI sing in	LDÍN	G: T	he communic g brand image	-			of 10				
V	copywr	iting, o	сору-	elem	CREATIVIT ents –types-la f advertiseme	yout-princip nts-methods	les-execu	ution styles-P	re 15				
					TOT				60				
	D 01			•	Course O		•	11 2	111 10				
CO1	media e	elemen	ts use	d in a	dvertising				s, and identify				
CO2	demons	strate e	ffecti	ve cli	vertising agen ent-agency re	lationship m	anageme	nt.					
CO3	Analyze Indian					vertising, ev	aluate th	e impact of a	dvertising on				
CO4	and ma	naging	g bran	d cris									
CO5		orincip	les an		ting technique ecution styles,								

	Textbooks									
1	Advertising Principles and Practice by Ruchi Gupta-S.Chand Publishing									
	Reference Books									
1	Rathor, B.SAdvertising management-Himalaya Publishing House									
2	2 Myers-Advertising management-PHI Norms-Advertising-PHI									
3	Sontakki. C.N, Advertising, Kalyani Publishers, Ludhiana									
4.	Brand Positioning-Strategies for competitive Advantage by SubrotoSengupta- Tata McGraw Hill Publication									
NOTE: Lat	test Edition of Textbooks May be Used									
	Web Resources									
1	https://archive.mu.ac.in/myweb_test/sybcom-avtg-eng.pdf									
2	https://uascku.ac.in/wp-content/uploads/2020/04/Advertising-B.ComVI-Semester-Unit-Wise-Notes.pdf									
3	http://osou.ac.in/eresources/DJMC-06-BLOCK-02.pdf									

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	2	3	3	3	3	2
CO2	3	2	2	3	2	2	2	2	3	2	3
CO3	3	3	3	3	3	2	3	3	3	3	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	3	3	3	3	2	3	3	3	3	3
TOTAL	15	13	13	15	13	10	13	13	15	13	12
AVERAGE	3	2.6	2.6	3	2.6	2	2.6	2.6	3	2.6	2.4

3 – Strong, 2- Medium, 1- Low

		C	orpo	rate S	Social Respon	sibility (CS	SR)		
Subject Cod	le L	T	P	S	Credits	Inst.		Marks	
		_				Hours	CIA	Externa	
	2				2	2	25	75	100
					arning Objec				
LO1					the fundamer				
LO2	To evaluate the role of CSR in addressing societal challenges and stakeholder needs.								
LO3	To guide CSR practices, global frameworks such as ISO 26000 and GRI should be utilized.								
LO4	1				ment, and aud				
LO5	goals.	-			CSR initiatives		th organi	zational an	d societal
Prerequisites	: Should	have	studi	ed Co	mmerce in X	XII Std			
Unit					Contents	;			No. of Hours
I	Models	Introduction: Definition and Evolution of CSR- Theories and Models of CSR- CSR and Corporate Governance -Legal and Ethical Dimensions of CSR							
II	Impact of	ing S of CS	takeh R on	older Empl	s- Stakeholde oyees, Custor	ners, and S	uppliers -	_	12
Ш	CSR Fr ISO 26 Nations Regulati Environ	CSR Frameworks and Standards: ISO 26000 and the Global Reporting Initiative (GRI)- United Nations Sustainable Development Goals (SDGs) - CSR Regulations in India (Companies Act 2013, Section 135) - Environmental, Social, and Governance (ESG) Criteria - Monitoring and Reporting CSR Activities							
IV	Implem Program	ImplementingCSRInitiatives:DesigningEffectiveCSRPrograms- Budgeting and Resource Allocation for CSR - Role of CSR in Branding and Marketing - Challenges in Implementing13							
V	Tools f	or C	SR I	Evalua	ing CSR:Mea ation - Strate hip and CSR	egies for S	Sustainab		13
									60

	Course Outcomes							
CO1	Demonstrate knowledge of CSR principles and their relevance to modern business.							
CO2	Critically evaluate the role of CSR in addressing global challenges and stakeholder needs.							
CO3	Utilise frameworks like ISO 26000 and SDGs to guide CSR implementation.							
CO4	Create actionable CSR programs aligned with organisational goals and societal expectations.							
CO5	Assess the effectiveness of CSR initiatives using appropriate tools and methods.							
	Textbooks							
1	Corporate Social Responsibility4th Edition, 2023by Kamal Garg, Publisher: Bharat Law House							
	Reference Books							
1	CORPORATE SOCIAL RESPONSIBILITY- LAW & PRACTICE, Publisher: RAJESH KADAKIA, second edition 2024							
NOTE: Lat	est Edition of Textbooks May be Used							
	Web Resources							
1	https://csr.gov.in/							
2	https://www.ibm.com/topics/corporate-social-responsibility							

	PO1	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	2	3	3	2	2	3	2	2
CO2	2	3	3	2	2	3	3	3	2	3
CO3	3	3	3	3	2	2	3	3	2	2
CO4	3	2	2	3	3	3	2	2	2	2
CO5	3	3	3	2	3	3	3	3	2	3
TOTAL	14	13	13	13	10	13	13	14	10	12
AVERAGE	2.8	2.6	2.6	2.6	2.6	2.6	2.6	2.8	2	2.4

3 – Strong, 2- Medium, 1- Low

$\underline{\mathbf{SECOND}\ \mathbf{YEAR} - \mathbf{SEMESTER}\ \textbf{-}\ \mathbf{III}}$

CORE - V: CORPORATE ACCOUNTING I

Subje	ject I T D S Credits Inst Haves Marks						T II.		Marks	
Code		L	T	P	S	Credits	Inst. Hours	CIA	External	Total
		5				5	5	25	75	100
							earning Object			
LO1	To ur	nder	star	nd ab	out	the pro-rat	ta allotment and	d Unde	rwriting of Shares	
LO2						ons of com d debentur		arding I	ssue and Redemption of	
LO3	To le			forn	ı an	d contents	of financial sta	itement	s as per Schedule III of Con	mpanies
LO4	To ex	kami	ine	the v	ario	ous method	ls of valuation of	of Good	dwill and shares	
LO5	To identify the Significance of International financial reporting standard (IFRS)									
Prerequ							ncial Account			
Unit							Contents			No. of Hours
I	Issue of Shares Issue of Shares – Premium - Discount - Forfeiture - Reissue – Pro-rata Allotment Issue of Rights and Bonus Shares - Underwriting of Shares and Debentures – Underwriting Commission - Types of Underwriting.								15	
II	Issue & Redemption of Preference Shares & Debentures Redemption of Preference Shares—Provisions of Companies Act— Capital Redemption Reserve—Minimum Fresh Issue—Redemption at Par, Premium and Discount. 15 Debentures: Issue and Redemption—Meaning—Methods—In-One lot—in Installment—Purchase in the Open Market includes Ex Interest and Cum Interest—Sinking Fund Investment Method.									
III	Per S II For	ducti chec rm o	ion dule of S	– Fi e III taten	of C	Companies	Act 2013 – Par	t I Forn	f Financial Statements as n of Balance Sheet – Part ng Profit for Managerial	15
IV	Valuation of Shares – Need for Valuation of Shares – Methods of Valuation of							15		
V	Shares – Net Assets Method – Yield and Fair Value Methods. Indian Accounting Standards International Financial Reporting Standard (IFRS)–Meaning and its Applicability in India - Indian Accounting Standards – Meaning – Objectives – Significance – Procedures for Formulation of Standards – Ind AS – 1 Presentation of Financial Statement, Ind AS – 2 Valuation of Inventories, Ind AS – 7 Cash Flow Statement, Ind AS – 8 Accounting Policies, Changes in Accounting Estimate and Errors, Ind AS – 16 – Property, Plant & Equipment, Ind AS 38 – Intangible Assets Ind AS – 103, Business Combinations Ind AS 110, Consolidated Financial Statement. (Theory Only)									
							TOTAL			75

TE	IEO	RY 20% & PROBLEMS 80%							
		Course Outcomes							
C	:01	Prepare and account for various entries to be passed in case of issue, forfeiture and							
	.01	reissue of shares and compute the liability of underwrites							
C	O2	Asses the accounting treatment of issue and redemption of preference shares and							
		debentures							
	CO3 Construct Financial Statements applying relevant accounting treatments								
	O4	Compute the value of goodwill and shares under different methods and assess its applicability							
C	O5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS							
		Textbooks							
	1	S.P. Jain and N.L. Narang, Advanced Accounting Vol I, Kalyani Publication, New Delhi.							
	2	R.L. Gupta and M. Radha swamy, Advanced Accounts Vol I, Sultan Chand, New Delhi.							
	3 Broman, Corporate Accounting, Taxmann, New Delhi.								
	4 Shukla, Grewal and Gupta- Advanced Accounts VolI,S.Chand, New Delhi.								
	5 M.C.Shukla, Advanced accounting Vol I, S.Chand, New Delhi.								
		Reference Books							
1	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	3	Prof. Mukeshbramhbutt, Devi, Corporate Accounting I, Ahilya Publication, Madhya Pradesh							
۷	4	Anil Kumar, Rajesh kumar, Corporate accounting I, Himalaya Publishing house, Mumbai.							
5	5	PrasanthAthma, Corporate Accounting I, Himalaya Publishing house, Mumbai.							
NO)TE	Latest Edition of Textbooks May be Used							
		Web Resources							
1	http	s://www.tickertape.in/blog/issue-of-shares/							
2	http	s://www.taxmann.com/bookstore/bookshop/bookfiles/chapter12valuationofgoodwillandsh .pdf							
3	http	s://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

$\underline{\mathbf{SECOND}\ \mathbf{YEAR} - \mathbf{SEMESTER} - \mathbf{III}}$

CORE - VI: COMPANY LAW

Subject	t L	Т	P	S	Cuadita	Inst.		Mar	Marks		
Code		1	r	3	Credits	Hours	CIA		ernal	Total	
	5				4	5	25	7	' 5	100	
				L	earning Obj	ectives					
LO1	To kno	ow Con	npany]	Law 19	956 and Com	panies Act	t 2013				
LO2					on the forma	_					
LO3					es of meeting						
LO4	LO4 To gain knowledge on the procedure to appoint and remove Directors										
LO5					rious modes o						
Prerequ	isite: Sl	nould l	nave st	udied	Commerce i	in XII Std					
Unit	Contents									o. of ours	
I	Introduction to Company law Companies Act 2013 – Definition of a Company, Characteristics of Company – Lifting or Piercing the Corporate Veil – Company Distinguished from Partnership and Limited Liabilities Partnerships – Classification of Companies – Based on										
П	Incorporation, Liability, Number of Members, Control. Formation of Company Formation of a Company – Promoter –Incorporation Documents e-filing – Memorandum of Association – Contents – Alteration – Legal Effects – Articles of Association - Certificate of Incorporation – Prospectus – Contents - Kinds – Liabilities – Share Capital – Kinds – Issue – Alteration – Dividend – Debentures.										
III	Quoru Audito	ng and i m – Pr ors – 0	oxy -] Qualifi	Resolu cation,	Types – Rec tion – Ordir Disqualific	ary & Spe	ecial - Aud	it &]	15	
IV	Management & Administration Management & Administration — Directors — Legal Position — Board of Directors — Appointment/ Removal — Disqualification — Director Identification Number — Directorships — Powers — Duties — Board Committees — Related Party Transactions — Contract by One Person Company — Insider Trading- Managing Director — Manager — Secretarial Audit — Administrative Aspects and Winding Up — National Company Law Tribunal (NCLT) — National Company Law Appellate Tribunal (NCLAT) — Special Courts.								15		
V	Winding up Meaning – Modes – Compulsory Winding Up – Voluntary Winding Up – Consequences of Winding Up Order – Powers of Tribunal – Petition for Winding Up – Company Liquidator.								1	15	
					TOTAL		· 			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							

MAPPING WITH PROGRAMME OUTCOMES

AND PROGRAMME SPECIFIC OUTCOMES

	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	3	2	3	3	2	2
CO2	3	2	3	2	3	3	2	3	3	2	2
CO3	3	2	3	2	3	3	2	3	3	2	2
CO4	3	2	3	2	3	3	2	3	3	2	2
CO5	3	2	3	2	3	3	2	3	3	2	2
TOTAL	15	10	15	10	15	15	10	15	15	10	10
AVERAGE	3	2	3	2	3	3	2	3	3	2	2

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER – III

ELECTIVE - III: PROGRAMMING IN JAVA LAB

Subject	T	Т	D	C	Cuadita	Inst.		Marks	8			
Code	L	T	P	S	Credits	Hours	CIA	Exter	nal	Total		
	2		2		3	4	40	60		100		
				L	earning Obj	ectives						
LO1	To pro	ovide fu	ındame	ental kı	nowledge of	object-orie	nted progra	mming.				
LO2		To equip the student with programming knowledge in Core Java from the										
	basics up. To enable the students to use AWT controls, Event Handling and Swing for											
LO3	To ena GUI.	able the	e studei	nts to u	ise AWT cor	itrols, Even	nt Handling	and Sw	ing i	for		
Preregn		hould l	have st	ndied	Commerce	in XII Std						
Unit	isite. Bi	iloulu I	inave st	duicu	Contents					o. of		
Unit									H	ours		
					f Object-O		-					
		,			ependence, F	•	,					
I				_	m structure -							
1		_	-		it) - simple ja ion and cas		-	_				
			• •		rs - control	-		-				
		-			String Buffe		State 1					
					and Objects		– construc	tors -				
					pts - Types							
II					this and S							
		_			verriding - A		isses - Dyn	namic				
					of final keywo		utina Daalsa	200				
		_			ccess Protecti implementati	-	-	_				
III					– catch - th			iaces				
	_		_	-	ons - Creatin			sses -				
		ge colle				C	1					
			_		ng: Thread C					·		
IV					ng synchron							
					nterthread C							
V					asses -Java U	_						
'	Framework: Collection & Iterator Interface- Enumeration- List and Array List- Vector- Comparator											
	and 11.	u, 111	. ,	.01	TOTAL							
					Course Outo	omes		I				
CO1		stand tl e Java	he basi	c Obje	ct-oriented c	oncepts.Im	plement the	e basic c	const	ructs		
CO2	Implei Java.	ment in	heritar	ice, pa	ckages, inter	faces and e	xception ha	andling o	of Co	ore		
CO3	Imple	ment m	ulti-thi	reading	g and I/O Stre	eams of Co	re Java					

	Textbooks							
1	Herbert Schildt, The Complete Reference, Tata McGraw Hill, New Delhi, 7th Edition, 2010.							
2	Gary Cornell, Core Java 2 Volume I – Fundamentals, Addison Wesley, 1999.							
	Reference Books							
1	Head First Java, O'Rielly Publications, Y. Daniel Liang, Introduction to Java Programming, 7th Edition, Pearson Education India, 2010.							
	Web Resources							
1								

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 String Buffer 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

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

Learning Resources:

Recommended Texts

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

Reference Books

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

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

<u>SECOND YEAR – SEMESTER - III</u>

ELECTIVE III: Web Technology (PHP) Lab

Sub	ject	L	Т	P	S	Credits	Inst.		Marks				
Co	de		1		3		Hours	CIA	Externa				
		2		2		3	4	40	60	100			
]	Learning Ob	jectives						
LO1	To use PHP and MySQL to develop dynamic web sites for user on the Internet To develop web sites ranging from simple online information forms to complex												
		v - · · · ·											
LO2	LO2 e-commerce sites with MySQL database, building, connectivity, and												
	maintenance rerequisite: Should have studied Commerce in XII Std												
Prere	quisite	: Sho	uld h	ave s	tudie	d Commerce	in XII Std			N. 0			
Unit	Contents Contents Introducing PHP – Basic development Concepts – Creating first												
I						ariableand C							
1		variable – Understanding Data types – Setting and Checking variables Data types – Using Constants – Manipulating											
	Variables with Operators.												
	Controlling Program Flow: Writing Simple Conditional												
П	Statements - Writing More ComplexConditional Statements -												
11	Repeating Action with Loops – Working with String and NumericFunctions.								g and				
					<u> </u>	·	4 D	•	A				
						toring Data in							
III		with Loops and Iterations –Using Arrays with Forms - Working with Array Functions – Working with Dates and Times.											
	"1	with Array I unctions - working with Dates and Times.											
	Using Functions and Classes: Creating User-Defined Functions -							ions -					
IV		_				Advanced O	-						
	W	orking	g with	ı Dat	abase	and SQL:	Introducing	Database	and				
V			_			-Adding and	_						
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	En	rors	– U	sing	SQI	Lite Extension	on and Pl	DO Exte	ension.				
	Int	roduc	tionX	ML -	Simp	ole XML and	DOM Exter	nsion.					
						TOTAL	0.4						
CO	T T1		1 41		1		Outcomes	·		low			
CO1	Intern		_	-	u con	cepts of PHP	scripting lar	iguage fo	r the deve	opment of			
CO2	Unde	rstanc	l the b	oasic 1	functi	ons of MySQ	L database p	program a	nd XML o	concepts			
CO3	Learn	the r	elatio	nship	betw	een the client	side and the	e server si	de scripts.				

	Textbooks								
1	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	2 Steven Holzer, "Spring into PHP", Tata McGraw Hill 2011, 5thEdition.								
NOT	E: Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://www.w3schools.com/php/								
2	https://www.phptpoint.com/php-tutorial-pdf/								
3	http://www.xmlsoftware.com/								

SECOND YEAR – SEMESTER – III

WEB TECHNOLOGY (PHP) 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.
- Create dynamic Web applications such as content management, user registration, and ecommerce using PHP and to understand the ability to post and publish a PHP website.
- 4. Develop a MySQL database and establish connectivity using MySQL.

LIST OF PRACTICALS

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

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

ENTERPRISE RESOURCE PLANNING

Cubiast Ca	٦.	т	Т	P	S	Cuadita	Inst.		Marks			
Subject Co	ue	L	1	r	3	Credits	Hours	CIA	External	Total		
		2				2	2	25	75	100		
					L	earning Obje	ctives					
LO1	To	Lear	n the	basic	cond	cepts in ERP						
LO2		To familiarize the technologies related to ERP										
LO3	То	o understand the modules in ERP										
LO4	To	To list out the benefits of ERP										
LO5	То	Lear	n the l	ERP i	mple	mentation life	cycle					
Prerequisite	es: S	houl	d hav	e stud	lied (Commerce in	XII Std					
Unit	it Contents											
I	Inte	Introduction to ERP ERP: Meaning- evolution- advantages or ERP. ntegarated management information-business modeling- ntegrated data model.										
II	De	ERP related Technologies Business process reengineering-Management Information System- Decision support system- Data warehousing- Data Mining- Supply Chain Management.										
III		nt M		nance-	- qual	ERP Modulity Manageme		-material	s	15		
IV	Red util per	duction ization	on of on- t ance-i	oetter ncrea	cus	Benefits of E e- ontime sh tomer satisfa flexibility- re	ipment- imaction- im	proved	supplier	15		
V	E sc de	ERP Implementation lifecycle ERP software selection-ERP implementation planning- ERP software training- ERP software testing- ERP software deployment - ERP user support- ERP post-implementation checks							10			
										60		
					(Course Outco	mes		•			
CO1	Ex	plain	the ac	lvanta	iges c	of ERP						
CO2	Ide	ntify	the te	chnol	ogies	involved in E	RP					
CO3	Ex	plain	the m	odule	s inv	olved in ERP						
CO4	Ske	etch t	he bei	nefits	throu	gh implement	ation of ER	P				
CO5	An	alyse	the li	fecyc	le of l	ERP to the cha	anging need	s of the ii	ndustry			

	Textbooks									
1	Enterprise Resource Planning 4th Edition Alexis Leon, McGraw Hill; Fourth edition (McGrawHill (2022); McGraw Hill Education (India) Private Limited									
	Reference Books									
1	Dr. SubodhKesharwani, "ERP Systems- Application, Experiences", Upsurge, PragatiPrakathan Publication, Meerut, 2018									
NOTE: La	test Edition of Textbooks May be Used									
	Web Resources									
1	https://www.sap.com/india/products/erp/what-is-erp.html									
2	https://rcademy.com/course/erp-enterprise-resource-planning-training-course/									
3										

	PO1	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	2	3	3	3	3	3	2	2
CO2	2	2	3	2	3	2	2	3	2	3
CO3	3	3	3	3	3	3	3	3	2	2
CO4	3	3	3	3	2	2	3	2	2	2
CO5	3	3	2	2	2	3	2	3	2	3
TOTAL	14	13	13	13	10	13	13	14	10	12
AVERAGE	2.8	2.6	2.6	2.6	2.6	2.6	2.6	2.8	2	2.4

3 – Strong, 2- Medium, 1- Low

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

CORE - VII: CORPORATE ACCOUNTING - II

Cubicat						Inst.		Marks					
Subject Code	L	Т	T P S		Credits	Hours	CIA	External	Total				
	5				5	5	25	75	100				
					A								
LO1	To kn	ow the	types	of Am	algamation,	Internal an	d external	Reconstru	ction				
LO2					of banking								
LO3		To understand the accounting treatment of Insurance company account											
LO4		Γο understand the procedure for preparation of consolidated Balance s											
LO5 To have an insight on modes of winding up of a company													
Prerequi	isite: S	hould	have s	tudied	l Financial A	Accounting	g in I Yea	r	No. of				
Unit		Contents Amalgamation Internal & External Reconstruction											
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 forAmalgamation -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.												
III	Insurance Company Accounts: Meaning of Insurance — Principles — Types — Preparation of Final Accounts of Insurance Companies — Accounts of Life Insurance Business — Accounts of General Insurance Companies — New Format.												
IV	Consolidated Financial Statements Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).												
V	Meani Affair Paymo	ing-Mo	Statem Liquida	f Win ent of	ding Up – Deficiency emuneration	or Surplus - Liquidate	s (List H)	Order of	15				
					TOTAI	_			75				

TH	EOR	Y 20% & PROBLEMS 80%								
		Course Outcomes								
C	01	Understand the accounting treatment of amalgamation, Internal and external reconstruction								
C	O2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.								
С	03	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 Publishers, New ni.								
2		K.S .Raman and Dr. M.A. Arulanandam , Advanced Accountancy, Vol. II, alaya Publishing House, Mumbai.								
3	R.L.	Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, New Delhi.								
4	M.C Dell	Shukla and T.S. Grewal, Advanced Accounts Vol.II, S Chand & Sons, New ni.								
5	T.S. Che	Reddy and A.Murthy, Corporate Accounting II, Margham Publishers, nnai								
		Reference Books								
1	B.R	aman, Corporate Accounting, Taxmann, New Delhi								
2	M.C	Shukla, Advanced Accounting, S. Chand, New Delhi								
3	Prof	. MukeshBramhbutt, Devi Ahilya publication, Madhya Pradesh								
4		kumar, Rajesh kumar, Advanced Corporate Accounting, Himalaya Publishing se, Mumbai.								
5	Pras	anthAthma, Corporate Accounting, Himalaya Publishing house, Mumbai.								
NOT	E: La	test Edition of Textbooks May be Used								
	Web Resources									
1		s://www.accountingnotes.net/amalgamation/amalgamation-absorption-and- nstruction-accounting/126								
2	https	s://www.slideshare.net/debchat123/accounts-of-banking-companies								
3		s://www.accountingnotes.net/liquidation/liquidation-of-companies- ounting/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 – BUSINESS MATHEMATICS & STATISTICS

Subject	т .	L T	LTPS		Credits	Inst.		Marks					
Code		1	r	3		Hours	CIA	External	Total				
	5				5	5	25	75	100				
				L	earning Obj	ectives							
LO1	To im	part kn	owledg	ge on th	ne basics of r	atio, propo	rtion, indic	es and prop	ortions				
LO2					compound in								
		armonic progressions.											
LO3					asures of cen		су						
LO4		conceptualise with correlation co-efficient											
LO5		To gain knowledge on time series analysis											
Prerequ	isite: Sl	hould l	nave st	udied	Commerce	in XII Std							
Unit					Contents				lo. of lours				
I	Ratio Ratio,	Ratio Ratio, Proportion and Variations, Indices and Logarithms.											
		st and											
II					le and Comp				12				
1						c Progressions.							
		Annuity - Meaning - Types of Annuity Applications. Business Statistics Measures of Central Tendency											
								,					
III			,		ric Mean - H				12				
111		_			les - Percent ion and Mea				14				
		_			efficient.	ii Deviatioi	ıı - varianc	c and					
		lation											
13.7				_	's Coefficien	t of Correla	ation –		12				
IV	Spearr	nan's F	Rank C	orrelat	ion – Regres	sion Lines	and						
	Coeffi												
			•		Index Num								
			-		ular Trend –								
V	-				Numbers – A			ive	12				
				ixed I	ndex –Whole	esale Index	– Cost of						
	Living	g Index.	•		TOTAL				60				
				(Course Outc	omes			JU				
CO1	Learn	the bas	ics of 1	atio, p	roportion, in	dices and l	ogarithm						
CO2					ns of simple	and compo	ound interes	st and arithn	netic,				
CO3					rogressions. usures of cent	tral tendend	ev						
CO4					nd regression								
							111.						
CO5	Assess	s proble	21118 OII	ume s	eries 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/									

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	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 – IV

ELECTIVE IV -RELATIONAL DATABASE MANAGEMENT SYSTEM

Subjec	t L	Т	P	S	Credits	Inst.		Marks			
Code		1	1	В		Hours	CIA	External	Total		
	3				3	3	25	75	100		
					Learning Ob	jectives					
LO1	Gain a g Manage				ng of the arch	itecture and	functioni	ng of Datal	oase		
LO2		Understand the use of Structured Query Language (SQL) and its syntax.									
LO3		Apply Normalization techniques to normalize a database.									
LO4	controll	ing th	econs	equer	ransaction pronces of concur	rent data ac		hniques for			
Prerequ	isite: Sh	ould h	ave s	tudie	d Commerce	in XII Std			No. of		
Unit		Contents									
I	Databas	Introduction to DBMS- Data and Information - Database - Database Management System - Objectives- Advantages - Components - Architecture. ER Model: Building blocks of ER Diagram -									
п	relation Advanta Structur	Relationship Degree – Classification – ER diagram to Tables – ISA relationship – Constraints –Aggregation and Composition – Advantages Structure of Relational Database. Introduction to Relational Database Design - Objectives – Tools –Redundancy and Data									
III					y - Normaliza essing — Data			NF –	9		
IV	Manipu Definiti Joining	lation on Co Datab	Com omma oase T	mand nds – ables	Data Defi ls – SELECT - Additional : .Advanced SO – INTERSEC	Γ Queries – SELECT Q QL:Relation:	Additionuery Key al SET O	nal Data words –	9		
V	SQL Jo Clause - Sub Qu ANY ar	oin O _l – JOIN eries a nd AL	perato N ON and C L – F	ors: C Claus Correla ROM	Pross Join – se – Outer Joi ated Queries: I. SQL Function	Natural Joinn. WHERE — ions: Date a	n — Join IN — HA nd Time l	VING – Function	9		
					TOTAL				45		
					Course Out	comes		•			
CO1	Describ	e basi	c cond	cepts	of database sy	ystem					
CO2	Design	a Data	mod	el and	d Schemas in	RDBMS					
CO3	Compet	ent in	use o	f SQI							
CO4	Analyse	funct	ional	depe	ndencies for d	lesigning rob	oust Datal	oase			

	Textbooks								
1	S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Management System", Springer International Edition 2007.								
	Reference Books								
1	Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition.								
2	Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole Publications 2014, 2 nd Edition.								
NOTE:	Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://nptel.ac.in/courses/106106093/								
2	https://nptel.ac.in/courses/106106095/								
3	NPTEL & MOOC courses titled Relational Database Management Systems								

SECOND YEAR – SEMESTER - IV

ELECTIVE - IV: Cryptography & Network Security

Subject	т .	Т	ъ	C	C 114	Inst.		Marks			
code	L	ı	P	S	Credits	Hours	CIA	External	Total		
	3				3	3	25	75	100		
Learning Objectives											
LO1	•										
LO2	To apply the mathematical symmetric key cryptography										
LO3	To analyze the mathematics of asymmetric key cryptography To imply the authentication requirements										
LO4						11					
LO5					rvey and firew ommerce in X						
Î	iisite. Sii	ouiu iia	ive stut	neu Co	Contents	II Siu			No. of		
Unit					Contents				Hours		
I	Security trends – Legal, Ethical and Professional Aspects of Security, Need for Security at Multiple levels, Security Policies – Model of network security – Security attacks, services and mechanisms – OSI security architecture – Classical encryption techniques: substitution techniques, transposition techniques, steganography- Foundations of modern cryptography: perfect security – information theory – product cryptosystem – cryptanalysis.										
П	Mathematics of Symmetric Key Cryptography: Algebraic structures – Modular arithmetic-Euclid"s algorithm- Congruence and matrices -Groups, Rings, Fields- Finite fields- SYMMETRIC KEY CIPHERS: SDES – Block cipher Principles of DES – Strength of DES – Differential and linear cryptanalysis – Block cipher design principles – Block cipher mode of operation – Evaluation criteria for AES – Advanced Encryption Standard – RC4 – Key Distribution.										
III	Mathematics of Asymmetric Key Cryptography: Primes – Primality Testing –Factorization – Euler's totient function, Fermat's and Euler's Theorem – Chinese Remainder Theorem – Exponentiation and logarithm – ASYMMETRIC KEY CIPHERS: RSA cryptosystem – Key distribution – Key management – Diffie Hellman key exchange -ElGamal cryptosystem – Elliptic curve arithmetic-Elliptic curve cryptography.										
IV	Authentication requirement – Authentication function – MAC – Hash function – Security of hash function and MAC – SHA –Digital signature and authentication protocols – DSS- Entity Authentication: Biometrics, Passwords, Challenge Response protocols- Authentication applications – Kerberos, X.509										
V			-		P, S/MIME – Il ers – Malicious	-		-	9		
					TOTAL				60		

CO	Course Outcomes
CO1	Remember the security trends in cryptography and network security
CO2	Enumerate the algebra structures
CO3	Apply and analyze the key distribution of mathematical of asymmetrical key
CO4	Implication of authentication requirement and functions
CO5	Describe the electronic mail security and web security system

	Textbooks							
1	William Stallings, "Cryptography And Network Security – Principles and Practices", Prentice Hall of India, Third Edition, 2003.							
2	Atul Kahate, "Cryptography and Network Security", Tata McGraw-Hill, 2003.							
3	Bruce Schneier, "Applied Cryptography", John Wiley & Sons Inc, 2001.							
	Reference Books							
1	Charles B. Pfleeger, Shari Lawrence Pfleeger, "Security in Computing", Third Edition, Pearson Education, 2003							
2	William Stallings, Cryptography and Network security, Hardcover, 2016							
NOTE	NOTE: Latest Edition of Textbooks May be Used							

	Web Resources									
1	https://www.google.co.in/books/edition/Cryptography_and_Network_Security/v8nCCwAAQBAJ?hl=en≷=in&kptab=editions&sa=X&ved=2ahUKEwiDnLTgxoP8AhXbpVYBHd18CggQmBZ6BAgBEAc									
2	https://www.google.co.in/books/edition/Cryptography_And_Network_Security_4_E/qKcrce 0x_2YC?hl=en&gbpv=1&dq=cryptography%20and%20network%20security&pg=PP1&printsec=frontcover									
3	https://www.google.co.in/books/edition/Introduction_to_Cryptography_and_Network/JGPDxwE ACAAJ?hl=en									

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	2	3	3	3	2	2
CO2	3	2	2	3	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	3	3	2	3	3	3	2	3
TOTAL	15	13	13	12	13	10	13	13	15	10	12
AVERAGE	3	2.6	2.6	2.4	2.6	2	2.6	2.6	3	2	2.4

^{3 –} Strong, 2- Medium, 1- Low

SEC – 5 INTRODUCTION TO DATA SCIENCE

Subject	T	T	ъ	C	Cua 124-	Inst		Marks			
Code	L	T	P	S	Credits	Hours	CIA	External	Total		
	2				2	2	25	75	100		
			\mathbf{L}	earni	ing Objecti	ives					
LO1	To Introd	uce the	Con	cepts	, Techniques	and tools in da	ata Scienc	e			
LO2						science practic					
						s, predictive m	nodelling,	descriptive	e		
D					nmunication.	NIT 41					
Prerequ	isite : Sno	uid na	ve sti	ıaıea	Commerce i	n XII sta			No of		
Unit									Hours		
I	Data Scie	Oata Science: benefits and uses- facts of Data-Data Science Types – 5 hrs									
_		ata Science Process.									
II	Big data:	Big To	echno	logies	– Data Stora	ge- Data mini	ng – Data		5 hrs		
	Analytics										
III						Research goals			5 hrs		
	data trans		ion –	Explo	ratory data ai	nalysis- model	building -	– data			
IV			chine	loorn	ing algorithm	n – modelling p	rocacc	types	5 hrs		
1 4					emi- supervis		nocess –	types-	3 1118		
V			_			ng research goa	als – data		6 hrs		
						e and automati					
						Total		2	1		
					ourse Outco						
CO1	along with	h its ty	pes ar	nd don	nain-specific	efits, uses, and applications.	_				
CO2					a technologie for large-scal	s and their role e datasets.	e in data s	storage, mii	ning,		
CO3					process, inc esult visualiz	luding goal set ation.	ting, data	transforma	tion,		
CO4					vised, unsuper real-world p	ervised, and se roblems.	mi-super	vised mach	ine		
CO5					eline to a case nable insights	e study, demon	strating g	goal setting	, data		
					Text books						
1	•				eysman, Mol	nammed Ali "I	ntroducin	g Data Scie	ence" -		
2	Manning				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A CD	<u> </u>	т 1	2016		
2						e Art of Data					
3	IBM Pres		Ahm	ea Sh	uja "Data Sci	ence Hands-O	n with Op	en-Source	100ls" -		
1	ce Books			D 3.7	3.5.4	4 444 10**	, , ,	D : 2 :	ъ.		
1						nammed Ali "In					
2						ng Python Tool					
<i>L</i>	Python"-	_			oo Data Sci	ence from Scra	ucii. Fiist	rincipies	wiui		
3					ce for Dumm	nies",2015 II F	Edition.				
					oks may be U						
											

<u>SECOND YEAR – SEMESTER - IV</u>

SEC-7-COMMERCE PRACTICAL

Subject Co	do	L	Т	P	S	Credits	Inst.		Marks	8	
Subject Co	ue		1	_	3		Hours	CIA	Externa		
				2		2	2	40	60	100	
					L	earning Obje	ctives				
LO1			erstan			ndamentals of	f concepts	and app	olications	in Indian	
LO2	_					owledge in A					
LO3	cor	o train them in secretarial practices like preparation of agenda and minutes for impany meetings. o provide practical knowledge to fill forms like insurance, bank, loan,									
LO4	app	olicati	ion, m	embe	ership	form, income	tax return f			oank, loan,	
LO5						ket application					
Prerequisite	es: S	noul	d hav	e stuc	ned (Commerce in	XII Std		T	No of	
Unit						Contents				No. of Hours	
	UN	VIT –	I : A	CCO	UNT	ING STAND	ARD PRAC	CTICE:			
	Co	ncept	and i	t appl	icatio	on.					
I		a. Accounting standard I									
_			6								
			C. A	Accou	ınting	standard III					
	TIN	JIT_	TT • A	DVE	RTI	SING PRAC	TICE ·				
		parat				advertisement		collection	of		
II		g the	6								
	adv										
	UN	IIT-I	II : S	ECRI	ETAI	RIAL PRACT	TICE:				
						nd minutes of		ooth			
III	_		-			of directors. (s				6	
					inute	s of theirown	and should	not use		3	
	prı	ntea 1	forma	τ).							
	UN	IIT –	IV :	BAN	KIN(G PRACTICE	ES:				
	1.D)rawi	ng, E	ndors	ing a	nd crossing o	f cheques	filling u	•		
IV					and c	lraft applicatio	on and prepa	ration of		6	
	demand drafts. 2. Application for Opening Bank Account – Saving									G	
			tanon t & Cu		-	-	ını – saving				
						ARKET AP	PLICATIO	N			
V	1. Application for PAN (Permanent Account Number) Application for Opening DEMAT Account									6	
						TOTAL				30	

	Course Outcomes
CO1	Remember and recall the various concepts of Indian Accounting Standards and its compliances.
CO2	Demonstrate a practical model of advertisement for new products
CO3	Analyse the previous Agenda and minutes of meetings and explore in preparation of agendas for the new meetings the company.
CO4	Appling the rules in filling the applications forms for banking transactions.
CO5	Evaluate the share markets applications and trained in opening the DEMAT Accounts.
	Web Resources
1	https://static.careers360.mobi/media/uploads/froala_editor/files/Introduction%2 0to%20Accounting%20Standards_7iWCuHN.pdf
2	https://blog.hubspot.com/marketing/how-to-make-an-ad
3	https://clickup.com/blog/meeting-agenda/

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	2	3	3	3	2	2
CO2	3	2	2	3	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	3	3	2	3	3	3	2	3
TOTAL	15	13	13	12	13	10	13	13	15	10	12
AVERAGE	3	2.6	2.6	2.4	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - IX: COST ACCOUNTING - I

Subjec	et .	T.	Ъ	a	G 114	Inst.		Marks			
Code		T	P	S	Credits	Hours	CIA	External	Total		
	5				4	5	25	75	100		
				Lo	earning Obj	ectives			·		
LO1											
LO2	To prepare and reconcile Cost accounts.										
LO3	To gain knowledge regarding valuation methods of material.										
LO4	To familiarize with the different methods of calculating labour cost.										
LO5	To kno	ow the	apporti	onmen	nt of Overhea	ds.					
Prereq	uisite: Sl	hould l	nave st	udied	Commerce	in 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.										
II	Prepara	Cost Sheet and Methods of Costing Preparation of Cost Sheet - Tenders & Quotations - Reconciliation of Cost and Financial Accounts –Unit Costing-Job Costing.									
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 – Specific Price Method – Simple and Weighted Average Method.							Issue of ethod –	15		
IV	Labour Costing Direct Labour and Indirect Labour – Time Keeping – Methods and								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.								15		
			-	г)TAL		75		
THEO	RY 20%	& PR	OBLE	MS 80)%						
					Course Outc	omes					
CO1	Remem	ber and	l recall	the va	rious concep	ts of cost a	ccounting				
CO2					and reconci						
CO3					on methods o						
CO4	Examin	e the di	ifferent	metho	ods of calcula	ating labou	r cost.				
CO5		Examine the different methods of calculating labour cost. Critically evaluate the apportionment of Overheads.									

	Textbooks						
1	Jain S.P. and Narang K.L, Cost Accounting. Kalyani Publishers, New Delhi						
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S. Chand & Co, New Delhi,						
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand Publications, New Delhi						
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications, Chennai						
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi						
	Reference Books						
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision Making, 1991, McGraw–Hill, New York.						
2	Jain S.P. and Narang K.L. Cost Accounting, Latest Edition.2013, Kalyani Publishers, New Delhi,						
3	V.K.Saxena and C.D.Vashist, Cost Accounting, Sultan Chand publications, New Delhi						
4	Murthy A &GurusamyS,CostAccounting,Vijay Nicole Imprints Pvt. Ltd. Chennai						
5	Prasad.N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Kolkata						
NOTE	: Latest Edition of Textbooks May be Used						

	Web Resources								
1	https://study.com/learn/lesson/cost-accounting-principles-examples-what-is-cost-accounting.html								
2	https://www.accountingtools.com/articles/what-is-material-costing.html								
3	https://www.freshbooks.com/hub/accounting/overhead-cost								

MAPPING WITH PROGRAMME OUTCOMES

AND PROGRAMME SPECIFIC OUTCOMES

	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	2	2	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	2
CO3	3	2	3	2	2	2	2	2	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	2	3	2	2	2	2	2	3	2	2
TOTAL	15	10	13	10	10	10	10	10	15	10	10
AVERAGE	3	2	2.6	2	2	2	2	2	3	2	2

3 – Strong, 2- Medium, 1- Low

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

CORE - X: BANKING LAW AND PRACTICE

Subject	t L	Т	P	S	Credits	Inst.		Marks			
Code		1	Г	3	Credits	Hours	CIA	External	Total		
	5				4	5	25	75	100		
	Learning Objectives										
LO1					erstand vario				ion Act		
LO2		To trace the evolution of central bank concept and prevalent central banking system around the world and their roles and function									
LO3	To throw light on Central Bank in India, its formation, nationalizing its organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion										
LO4	Asset	securiti	zation	etc.	fund of com						
LO5					sing systems sement etc.	relationsh	ip of bank	ers and cus	tomers,		
Unit	Contonts								No. of Hours		
I	Introduction to Banking History of Banking- Provisions of Banking Regulations Act 1949 - Components of Indian Banking - Indian Banking System-Phases of 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										
II	Centra Comm Comm Corpo	Central Bank and Commercial Bank Central Banking: Definition –Need - Principles- Central Banking Vs Commercial Banking - Functions of Central Bank – Credit Creation. Commercial Banking: Definition - Functions – Personal Banking – Corporate Banking – Digital banking – Core Banking System (CBS) -									
III	Types Accou e-state Custon Loans (NPA)	Role of Banks in Economic Development. Banking Practice Types of Accounts CASA – Types of Deposits - Opening Bank Account- Jan Dhan Yojana - Account Statement vs Passbook vs e-statement - Banker Customer Relationship - Special Types of Customers –KYC norms. Loans & Advances –Lending Sources- Lending Principles-Types of Loans - classification of assets and income recognition / provisioning (NPA) – Repo Rate & Reverse Repo Rate - securities of lending-Factors influencing bank lending.									

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								
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, nationalized 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.	ers,						
	Textbooks							
1	Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publi Chennai	cation,						
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, Ko	lkata						
4	Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication	n, Delhi						
5	K P Kandasami, S Natarajan & Parameswaran, Banking Law and Practic Chand publication, New Delhi	e, S						

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

MAPPING WITH PROGRAMME OUTCOMES

AND PROGRAMME SPECIFIC OUTCOMES

	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	2	2	3	3	2
CO2	3	2	2	2	3	2	2	2	3	3	2
CO3	3	2	3	2	3	2	2	2	3	3	2
CO4	3	2	2	2	3	2	2	2	3	3	2
CO5	3	2	3	2	3	2	2	2	3	3	2
TOTAL	15	10	13	10	15	10	10	10	15	15	10
AVERAGE	3	2	2.6	2	3	2	2	2	3	3	2

3 – Strong, 2- Medium, 1- Low

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

CORE-XI: INCOME TAX LAW AND PRACTICE-I

Subject	L	Т	P	S	Credits	Inst.		Mark	S		
Code		1	r	3	Creans	Hours	CIA	Exter		Total	
	5				4	5	25	75	5	100	
				L	earning Obj	ectives					
LO1	To uno	derstan	d the ba	asic co	ncepts & def	initions un	der the Inco	ome Ta	x Ac	t,1961.	
LO2	1										
LO3	To cor	npute i	ncome	under	the head sala	ries.					
LO4					of Annual		sociated de	eduction	ns a	nd the	
					House prop						
LO5	To compute the income from Business & Profession considering its basic principles & specific disallowances.										
Prerequis	site: Sho	ould ha	ve stuc	lied Co	ommerce in Y	XII Std					
Unit					Contents					o. of lours	
I	Introdu Featur Defini	es of Ir tions U e exem	to Inco ncome ' Jnder	ome Ta Tax — I the In	Tax nx — History Meaning of I come Tax A	ncome – T	ypes – Imp	ortant		15	
II	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.									15	
III	Income from Salary Salary Income - Definition - Allowances - Taxability - Perquisites - Kinds of Perquisites - Types of Provident Fund - Gratuity - Pension - Commutation of Pension - Deduction of Salary - Profits									15	
IV	Income from House Property Income from House Property — Basis of Charge — Annual Value — Gross Annual Value, Net Annual Value - Let-out vs Deemed to be let out Self-Occupied Property — Deductions — Computation of Income from House Property								15		
V	Profits Incom Expen Undisc (Sec 6 of Acc Provis	Income from House Property. Profits and Gains from Business or Profession Income from Business or Profession – Allowable Expenses – Expenses Disallowed - General Deductions – Depreciation – 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 (Deemed Income) – Computation of Income from Business or Profession.									
	11100111	-, c	- input		TOTAL	2 4011100	, 51 1 101055	23111		75	

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

MAPPING WITH PROGRAMME OUTCOMES

AND PROGRAMME SPECIFIC OUTCOMES

	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	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

3 – Strong, 2- Medium, 1- Low

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

CORE -XII: AUDITING & CORPORATE GOVERNANCE

Subjec	t L	Т	P	S	Credita	Credits Inst. Mar			KS			
Code		1	1	3	Credits	Hours	CIA	Exte		Total		
	5				4	5	25	75	5	100		
				L	earning Obj	ectives						
LO1					rstand proce			lassific	cation	١.		
LO2	Toimp	art kno	wledge	e on in	ternal check	and interna	al control.					
LO3	To illu	istrate t	he role	of auc	ditors in com	pany.						
LO4			ents un	dersta	nd the frame	work, theo	ories and m	odels o	of Co	rporate		
		nance.										
LO5					e concept of			onsibi	lity			
Prerequ	isite: S	ite: Should have studied Commerce in XII Std										
Unit					Contents					o. of		
					Contents				H	ours		
	Introdu			_								
		aning and Definition of Auditing –Distinction between										
		diting and Accounting – Objectives – Advantages and										
I I		mitations of Audit – Scope of Audit – Classifications of Audits –										
		dit of For Profit enterprises and Non–profit Organizations										
		udit Procedures and Documentation										
		Audit Planning – Audit Programme – Procedures - Internal Audit - nternal Control – Internal Check System – Vouching – Cash and										
		ternal Control – Internal Check System – Vouching – Cash and ade Transactions - Verification of Assets and Liabilities and its										
		rade Transactions - Verification of Assets and Liabilities and its aluation										
			J!4 o m									
	Compa	•		omovo	al of Audito	re Dial	hta Dutios	and				
					it Report - R	_				15		
I I					(ISA) – Auc			_		13		
		-			puter - e-auc	_	nd the com	puter				
					Governance							
				_	Corporate		ce: Theorie	es &				
					es - Corpor							
IV					s in India					15		
I I	3							l I				
	Governance Problems Noticed in various Corporate Failures. Introduction to Environment, Social and Governance (ESG - Code											
I I		of Conduct – Directors and Auditors										
	Corpor	ate So	cial Re	esponsi	bility							
	Concep	t of CS	R, Cor	porate	Philanthropy	y, Strategic	Relationsh	ip of				
V	CSR w	ith Co	rporate	Susta	inability - (CSR and I	Business E	thics,		15		
			-		ernance - C					13		
	Compa	nies Ac	et, 2013	3 (Sect	ion 135 sche	edule – VII). – CSR P	olicy				
	Rules											
					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

MAPPING WITH PROGRAMME OUTCOMES

AND PROGRAMME SPECIFIC OUTCOMES

	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

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

<u>DISCIPLINE SPECIFIC ELECTIVE – 1 / 2 : Operation Research</u>

Subject C			T	P	S	Credits	Inst. Hours		Mai	rks		
						rnal	Total					
		4				3	4	25	7	5	100	
					Lear	ning Object	ives					
LO1	To intro	introduce the students to operations research and linear programming.										
LO2	To impa	o impart knowledge about transportation and assignment problems.										
LO3		o get acquainted with game theory and simulation.										
LO4		o develop abilities to analyse and manage inventories using various method										
LO5		o acquire knowledge on network analysis.										
Prerequis	site: Sho	: Should have studied Statistics in 1 st year B.Com.										
UNIT		Contents No. of Hours troduction to Operations research and Linear										
I	Operati making problen	Programming Problem Operations research – Origin and development - Role in decision making - Phases and approaches to OR - Linear programming problem – Applications and limitations - Formulation of LPP - Optimal Solution to LPP - Graphical method - Simplex Method									12	
II	Transpo Least c	ortatio cost n s opt	on Pronetho netho timali	oblen d - V ty -	n – m Vogel	ethods - Nor 's approximation oping stone	th West con ation meth	od - Mo	ving		12	
III	Game Tagame -	Theore Theore Optim	ry an :y- di mal s	d Sin fferen trateg	nt stra gies o	ion ategies follow of a game usi nical method	ng maxi-m	in criteri			12	
IV	Inventor Introduce Economic probabili demandic probabili (JIT) ar	Introduction to inventory systems, inventory classification. Economic order quantity (EOQ) model, Single period probabilistic inventory models with discrete and continuous demand, determination of reorder point for deterministic and probabilistic Inventory System. Basic concepts of Just-in-Time (JIT) and Material Requirement Planning (MRP)									12	
V	Method	k mo l (CP	dels- M)- I	CPM PERT	cost-	PERT Detern - Crashing a T and CPM.					12	
						Total				(60	

CO	Course Outcomes
CO1	Frame a linear programming problem for quantitative decisions in business planning.
CO2	Optimise economic factors by applying transportation and assignment problems.
CO3	Apply the concept of game theory and simulation for optimal decision making.
CO4	Analyse and manage inventories to meet the changes in market demand.
CO5	Construct networks including PERT, CPM for strategic management of business projects.
	Textbooks
1.	C.R.Kothari, "Quantitative Techniques", Vikas Publications, Noida
2.	V.K. Kappor, "Operations Research - Problems and Solutions", Sultan Chand & Sons Publisher, New Delhi
3.	Anand Sharma, Operation Research, Himalaya Publishing House, 2014, Mumbai
4.	M Sreenivasa Reddy, Operation Research, CENGAGE, New Delhi
5.	S. Gurusamy, Elements of Operation Research, Vijay Nicole Imprints Private Limited
	Reference Books
-	S Kalavathy, Operations Research, Vikas Publications, Noida
-	S.P. Gupta, "Statistical Methods", S.Chand& Sons Publisher, New Delhi. 2019
-	Sarangi, SK Applied Operations Research and Quantitative Methods, Himalaya Publishing House, 2014, Mumbai
-	ND Vohra, Quantitative Techniques in Management, McGraw Hill, 6th Edition, New Delhi 2021
-	P.R.Vittal - Operation Research, Margham Publications, Chennai
	Web Resources
1.	www.orsi.in
2.	www.learnaboutor.co.uk
3.	www.theorsociety.com

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	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

THIRD YEAR – SEMESTER - V

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

	Subjec	et	_	T.	_	G	G 114	Inst.		Marks	<u> </u>			
Learning Objectives	_		L	T	P	8	Credits	Hours	CIA	Externa	l Total			
LO1 To get introduced to indirect taxes			4				3	4	25	75	100			
LO2]	Learning Ob	jectives						
LO2	LO1	То	get in	ıtrodu	iced to	o indi	rect taxes							
To learn procedures under GST	LO2													
To gain knowledge about Customs Duty. Prerequisite: Should have studied Commerce in XII Std	LO3	To	To be familiar the CGST and IGST Act											
Prerequisite: Should have studied Commerce in XII Std Unit Contents	LO4	То	1											
Unit Contents No. of Hours	LO5	То	1											
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 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. 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 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. Customs Act 1962 V Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules &Exemptions.	Prerequ	isite	: Sho	uld h	ave s	tudie	d Commerce	in XII Std						
Concept and Features of Indirect Taxes - Difference between Direct and Indirect Taxes -Special Feature of Indirect Tax I 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 An Overview of Goods & Service Tax (GST) Introduction of Goods and Service Tax in India— Kelkar Committee - Constitutional Amendment - Goods and Service II 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. 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 Procedures under GST Registration under GST Law, Tax Invoice Credit and Debit Notes, Different GST Returns, Electronic Liability Ledger, Electronic Credit 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. Customs Act 1962 Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules &Exemptions.	Unit						Contents							
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. 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 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. Customs Act 1962 Customs Duty, Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules & Exemptions.	I	Co Din Lev Ind Res	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											
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 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. Customs Act 1962 Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties – Valuation - Baggage Rules & Exemptions.	II	An Intr Co Taz Imp	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											
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. Customs Act 1962 Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules &Exemptions.	III	CC Suj –V Re Pro and Suj	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								12			
V Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules &Exemptions.	IV	Pro Reg Dif Cro und De	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),											
<u> </u>	V	Cu Cu	stom stoms	Duty: S Duty	Coney, Ty	pes o		_		•	12			
					1		TOTAL				60			

	Course Outcomes
CO1	Acquaintance with Indirect tax laws
CO2	Exposed to the overview of GST.
CO3	Apply provisions of CGST and IGST
CO4	Summarise procedures of GST
CO5	Discuss aspects of Customs Duty in India
	Textbooks
1	Vinod K Singhania, Indirect Taxes, Taxman's Publications, New Delhi.
2	Dr. H.C. Mehrotra & Prof .V.P Agarwal, Goods and Services Tax (GST), Sahitya Bhawan Publications, Agra.
3	Rajat Mohan, Goods & Services Tax, Bharat Law Publications House, New Delhi.
4	CA. Pushpendra Sisodia, Indirect Tax Laws, Bharat Publications, New Delhi.
	Reference Books
1	V.S.Datey, All About GST, Taxmann Publications, New Delhi.
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:	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

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	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	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

DISCIPLINE SPECIFIC ELECTIVE – 3/4: SOFTWARE ENGINEERING - UML LAB

Subje	ct L	Т	P	S	Credits								
Cod	e			3		Total							
	2		2		3 4 40 60 100								
					Learning Ob	jectives							
LO1	To int	roduce	the se	oftwa	re developmei	nt life cycles							
LO2	To int	roduce			elated to struc			iented analy	sis &				
	design			1		C:		,					
LO3	To provide an insight into UML and software testing techniques isite: Should have studied Commerce in XII Std												
Prereq	uisite: Should have studied Commerce in XII Std No. of												
Unit					Content				Hours				
I	Emerge Waterfa	Introduction – Evolution – Software Development projects – Emergence of Software Engineering.Software Life cycle models – Waterfall model – Rapid Application Development – Agile Model – SpiralModel											
II	SRS – I	Formal	Syste	m Sp	nd Specification								
III	Software Design – Overview – Characteristics – Cohesion & Coupling – Layered design – Approaches Function Oriented Design – Structured Analysis – DFD – Structured Design – Detailed design												
IV	Object I case, Cl State Cl	ass, In	teract	ion, A	ML – OO con activity,	cepts – UMI	L – Diagr	rams – Use					
V		ox, Wl	nite-b	ox, In	ing – Review tegration, g.	– Docume	ntation –	Testing –					
					TOTAI								
					Course Out	comes							
CO1		udents ire usin			able to specify	software red	quiremen	ts, design the	e				
CO2	To wr	ite test	cases	using	different test	ing technique	es.						
					Textboo								
1					als of Softwar								
2	Roger S. Pressman, "Software Engineering - A Practitioner's Approach", McGraw Hill 2010, 7thEdition.												
	Reference Books												
1					rated Approad 3rd Edition.	ch to Softwa	re Engine	eering", Naro	osa				
NOTE:					oks May be l	Used							
					Web Resor	urces							
1	NPTE https://		onlin c.in/c		course s/106105182/	- Soft	ware	Engineerir	ng -				

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

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

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

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

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

CO2: Students should be able to use UML tools for the designing the software and test 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	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

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

DISCIPLINE SPECIFIC ELECTIVE – 4/4 :OBJECT ORIENTED ANALYSIS AND DESIGN

UML LAB

Subject Code		L T P S	('redifc	Inst.						
Cou	e						Hours	CIA	External	Total
		2		2		3	4	40	60	100
	Learning Objectives									
LO1	LO1 To make aware of the software requirements, design the software using tools									
LO2								ing differe	ent testing techniqu	es.
Prereq	uisite:	Sho	ould l	nave s	tudie	d Commerce	in XII Std			N 7 0
Unit	Contents No. of Hours						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									
						TOT				
	T						Outcomes			
CO1	The students should be able to specify software requirements, design the software using tools									
CO2	To	write	e test	cases	using	different test		es.		
							ooks			
1	Ali Bahrami, "Object Oriented System Development", McGraw-Hill International Edition 2017.						onal			
2	Martin Fowler, Kendall Scott, "UML Distilled", Addision Wesley									
3	Eril	KSSO1	n, "Ul	ML T	ool K	it", Addison V				
	1_					Referen				
1	Booch G., "Object oriented analysis and design", Addison- Wesley Publishing Company 3 rd edition.									
2	Rambaugh J, Blaha.M. Premeriani, W., Eddy F and Loresen W., "ObjectOrientedModeling and Design", PHI									
NOTE						oks May be l				

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

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

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

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

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

CO2: Students should be able to use UML tools for the designing the software and test 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	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC — CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

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

$\underline{\mathbf{THIRD}\ \mathbf{YEAR} - \mathbf{SEMESTER} - \mathbf{VI}}$

CORE -XIII: COST ACCOUNTING - II

Subjec	t .	T.	ъ	G	0 14	Inst.		Marks	5	
Code	L	T	P	S	Credits	Hours	CIA	Exteri	nal '	Total
	6				4	6	25	75		100
				L	earning Obj	ectives				
LO1	To uno	derstan	d the st	andar	ds in Cost Ac	counting				
LO2					contract costin					
LO3					ncept of proc		•			
LO4	To lear	rn abou	ıt opera	ation c	osting.					
LO5					lard costing.					
Prerequ	isite: Sl	hould l	nave st	udied	Cost Accou	nting in V	Sem			
Unit					Contents				No. Hot	
I	An Int - Diff Degree Respon	ference es of	on to Conto CAS	CAS – en Ca Cover	Purpose of CAS and FAF age — Cost	Regulation	ons – Diff ng Standa	ferent rds -	18	8
II	Job C Defini	osting, tions -	Batch Feature	es - A	ing and Cont Comparison tract - Prepa	- Calculation	on of Profi		18	8
III	Proces Applic Proces Treatn Abnor	cation of s Cos nent of	ing – Nof Proc ting – Loss a ain - C	ess Co Prep and Ga concep	ng – Features osting – Fund paration of ain : Normal t of Equivale	lamental Pr Process A and Abnor	rinciples of Accounts - mal Loss -	f -	18	8
IV	Operat Sheet		osting nsport	Costi	aning – Prep ng – Power				18	8
V	Standa Defini Estima Varian	ard Co tion — ated Co ace An	Objectost – alysis	and Vactives Install — M	ariance Anal — Advantag lation of Sta aterial, Labo f Variances.	ges – Stan andard Cos	sting Syste	em –	18	8
	TOTA								9(0
THEOR	RY 20%	& PR	OBLE	MS 8	0%			1		
					Course Outo	comes				
CO1					ards in cost a					
CO2					ntract costing				-	
CO3					cepts in proc	<u>~</u>				
CO4	Underst		rious b	ases c	of classification	on cost and	prepare op	erating o	cost	
CO5	Set up s	standar	ds and	analys	se variances.					

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

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

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

CORE - XIV: MANAGEMENT ACCOUNTING

Subjec	t	_	-	-		G 111	Inst.		Marks		
Code		L	T	P	S	Credits	Hours	CIA	Extern	nal '	Total
		6				4	6	25	75		100
					Le	earning Obj	ectives				
LO1	То	und	lerstand	d basic	s mana	gement acco	unting				
LO2	То	kno	w the	aspects	of Fin	ancial Stater	nent Analy	vsis .			
LO3	То	fan	niliariz	e with	fund fl	ow and cash	flow analy	sis			
LO4	То	lear	n abou	ıt budg	etary c	ontrol					
LO5		gaiı									
Prerequ	iisite	: Sh	nould l	nave st	udied	Financial A	ccounting	in I Semes	ter.		
Unit						Contents				No. Hot	
I	Man Limi Man Anal Sign Com Anal	nage itati nage lysis nifica npar lysis	ment ons - ment A s and l ance - ative S.	Accour Manag Accoun Interpre Types Statem	nting gement ting V etation of Fir	ent Accounting Meaning Accounting Financial A of Financia ancial Analy Common	 Scope Vs Cost Accounting Statement ysis - Too 	t Accounting ts – Nature ls of Analy	ng – e and e sis –	18	8
II	Ration Ration Solv	o Aros –	- Liquio y Ra	: Mean dity Ra tios —	itios – Levera	Advantages - Profitability age Ratios -	Ratios -Tu	ırnover Rat	ios –	18	8
III	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- Adjusted Profit and Loss Account - Preparation of Funds Flow Statement. Cash Flow Statement: Meaning - Advantages - Limitations - Preparation of Cash Flow Statement as per AS 3 - Cash Flow from									18	8
IV	Operating, Financing and Investing activities Budget and Budgetary Control Meaning – Preparation of Various Budgets – Cash Budget – Flexible Budget – Production Budget – Sales Budget – Master Budget – Budgetary Control – Benefits									18	8
V	Budget – Budgetary Control – Benefits Marginal Costing: Meaning - Features – Marginal Costing vs Absorption Costing - Fixed Cost, Variable Cost and Semi Variable Cost- Contribution- Marginal Cost Equation- P/V Ratio - Break Even Point - Margin of Safety – Cost- Volume Profits Analysis. Decision Making: Selection of a Product Mix – Make or Buy Decision – Discontinuance of a product line – Change or Status quo – Limiting Factor or Key Factor.										
						TOTAL				9	0

THEO	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
CO5	Formulate criteria for decision making using principles of marginal costing.
	Textbooks
1	Jain S.P. & Narang K.L. (2018) Cost and Management Accounting, Kalyani Publications,
2	Rds. Maheswari, Cost and Management Accounting, Sultan Chand Sons Publications, New Delhi.
3	Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publishers, Chennai.
4	Jenitra L Mervin ,Daslton L Cecil, Management Accounting, Lerantec Press, Chennai.
5	T.S.Reddy& Y. Hari Prasad Reddy, Management Accounting, MarghamPublications, Chennai.
	Reference Books
1	Chadwick – The Essence of Management Accounting, Financial Times
	Publications, England.
2	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai.
2	Charles T.Horngren and Gary N. Sundem–Introduction to Management
	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai. Murthy A and GurusamyS, Management Accounting- Theory & Practice, Vijay
3	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai. Murthy A and GurusamyS, Management Accounting- Theory & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western
3 4 5	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai. Murthy A and GurusamyS, Management Accounting- Theory & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India.
3 4 5	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai. Murthy A and GurusamyS, Management Accounting- Theory & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai.
3 4 5	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai. Murthy A and GurusamyS, Management Accounting- Theory & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai. Latest Edition of Textbooks May be Used
3 4 5 NOTE	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai. Murthy A and GurusamyS, Management Accounting- Theory & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai. Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai. Latest Edition of Textbooks May be Used Web Resources https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flow-

MAPPING WITH PROGRAMME OUTCOMES

AND PROGRAMME SPECIFIC OUTCOMES

	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	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

CORE - XV: INCOME TAX LAW AND PRACTICE - II

Subjec	t L	Т	P	S	Credits	Inst.		Ma	rks	
Code	L	1	P	3	Creatis	Hours	CIA		ernal	Total
	6				4	6	25		75	100
					earning Obj					
LO1					elating to cap					
LO2					r computation					
LO3	from C	Gross T	otal Inc	come.	to set off an	•	ward of los	sses a	nd ded	uctions
LO4	To lear	rn abou	ıt asses	sment	of individual	S				
LO5	To gai									
Prerequ	isite: Sl	hould l	nave st	udied	Financial A	ccounting	in I stSen	1		
Unit					Contents					o. of ours
I	Capital Capital assets - 54, 54F		-	18						
II	Income From Other Sources & Clubbing of Income Chargeability - Computation of Income from Other Sources – Deductions Allowed – Clubbing of Income – Concept									18
III	Gross T Gross T Carry F 80C, 80	Fotal In Fotal In Forward OCC, 8 , 80E,	come volume to the come volume t	vs Tota osses , 80Co	rd of Losses al Income - F (Simple Pro CC, 80CCD EA, 80EEB aly.	Provisions f blems). Do , 80 CCE,	for Set-off eductions 80D, 80l	and U/S DD,	<u>:</u>	18
IV	Compu	tation tation o	of Tot a	al Inco	ome – Indivi me - Tax Li		ın Individu	ıals		18
	Income Admini Powers for Ass Volunta Return - , e-PAN Stateme	dure g – tive AN)		18						
			90							
THEOR	RY 20%	& PR	OBLE	MS 80	TOTAL 0%			Į.		

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

MAPPING WITH PROGRAMME OUTCOMES

AND PROGRAMME SPECIFIC OUTCOMES

	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	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

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

DISCIPLINE SPECIFIC ELECTIVE 5/6 ENTREPRENEURIAL DEVELOPMENT

Subject	т	T	ъ	C	Cuadita	Inst.		Marks						
Code	L	Т	P	S	Credits	Hours	CIA	External	Total					
	5				3	5	25	75	100					
				L	earning Obje	ectives								
LO1	To kno	w the	mean	ing a	nd characteris	tics of entre	epreneurs	hip						
LO2	To ider	ntify tl	ne var	ious l	ousiness oppo	rtunities								
LO3	To und	To understand the Process of setting up an enterprise To gain knowledge in the aspects of legal Compliance of setting												
LO4	To gain	of setting	up of an											
LO5	To dev	elop a	n und	erstai	nding of the ro	ole of MSM	IE in eco	nomic grow	th					
Prerequisi	te: Shou	ıld ha	ve stı	ıdied	Commerce i	n XII Std								
Unit					Contents	S			No. of Hours					
I	Meanir Entrepo – Diff Meanir	Introduction to Entrepreneur Meaning of Entrepreneurship – Characteristics of Entrepreneurship – Types of Entrepreneurship – Self Employment – Difference between Entrepreneurship and Employment – Meaning of Entrepreneur – Traits – Classification – Functions – Entrepreneurial Scenario in India.												
II	Idea G Design Differe	Design Thinking Idea Generation – Identification of Business Opportunities – Design Thinking Process – Creativity – Invention – Innovation – Differences – Value Addition – Concept and Types – Tools and Techniques of Generating an Idea – Turning Idea into Business												
III	Setting Process Sole Pr Firm – Form	s of S copried Joint of a	etting torshij Stock in Ei	Up a p – Pa Com nterpr	nn Enterprise artnership – L apany – One M ise –Feasibi	imited Lial Aan partner lity Study	oility Par ship – Cl – Ma	tnership noice of	15					
IV	Busine Introdu Market setting Modern	Technical, Financial, Commercial and Economical. 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.												
V	Govern of MSN Govern MSME NSIC - Estates	Modern Sources of Funds. 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. TOTAL												

	Course Outcomes
CO1	Identify the various traits of an entrepreneur
CO2	Turn ideas into business opportunities
CO3	Do feasibility study before starting a project
CO4	Identify the sources of funds for funding a project
CO5	Develop an understanding about the Government schemes available for women entrepreneurs
	Textbooks
1	Jayashree Suresh, (Reprint 2017) Entrepreneurial Development, Margham Publications. Chennai.
2	Dr. C.B. Gupta &Dr. S.S. Khanka (Reprint 2014).Entrepreneurship And Small Business Management, Sultan Chand & Sons, New Delhi.
3	Charantimath Poornima, (Reprint 2014.), Entrepreneurship development-Small, Pearson Education, India.
4	RajShankar,(Reprint2016),EntrepreneurshipTheoryandPractice,VijayNicoleand Imprints Pvt. Ltd, Chennai.
5	Vasant Desai, (Reprint 2017). Dynamics of Entrepreneurial Development & Management Twenty Fourth Edition. Himalaya Publishing House. Mumbai.
	Reference Books
1	Anil kumar, Poornima, Principles of Entrepreneurial development, Newage publication, Chennai.
2	Dr.A.K.singh, Entreprenuerial development and management, Laxmi publications, Chennai.
3	Dr. R.K. Singal, Entreprenuerial development and management, S.K.Kataria publishers, New Delhi.
4	Dr. M.C. Garg, Entrepreneurial Development, New Delhi.
5	E.Gordon, K.Natrajan, Entreprenuerial development, Himalaya publishing, Mumbai.
NOTE	: Latest Edition of Textbooks May be Used
Web I	Resources
1.	https://www.interaction-design.org/literature/topics/design-thinking
2.	https://www.bms.co.in/steps-involved-in-setting-up-of-an-enterprise/
3.	http://www.msme.gov.in/

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	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	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

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

DISCIPLINE SPECIFIC ELECTIVE – 6/6: HUMAN RESOURCE MANAGEMENT

Subjec	t L	Т	Р	S	Credits	Inst.		Marks	
Code	L	1	r	3	Credits	Hours	CIA	External	Total
	5				3	5	25	75	100
	Learning Objectives								
C1	To explore to the aspects relating of Human resource management								
C2	Toequip with the various processes of Recruitment and Selection								
С3	To be acquainted with Training methods and the concept of Performance Appraisal								
C4	To learn about Industrial Relations								
C5	To assimilate knowledge on employee welfare.								
Prerequ	isite: Sh	ould 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.	12
III	TRAINING AND DEVELOPMENT Induction – Training – Methods – Techniques – Identification of the training needs – Training and Development – Performance appraisal – Transfer – Promotion and termination of services – Career Development.	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 power requirements and implement techniques of job design.							
CO2	Formulate action plans for employee Recruitment and Selection.							
CO3	Choose appropriate methods of Trainning							
CO4	Estimate, defend and handle legal compliance in HRM involving trade union disputes and employee retention.							
CO5	Formulate strategies for employee welfare.							
	Textbooks							
1	Ashwathappa, Human Resource Management, Tata McGraw-Hill Education, Noida.							
2	Mamoria, C.B. and Gaonkar, S.V, Personnel Management, Himalaya Publishing House, Mumbai.							
3	Sunil Lalla and Neha Shukla, Human Resource Management, Nirali Prakashan Publishers, Pune.							
4	P.Subba Rao, Personnel and Human Resource Management, Himalaya Publishing House, Mumbai.							
	Reference Books							
1	L.M. Prasad, Human Resource Management, Sultan and Chand sons Publications, New Delhi.							
2	DeCenzo, D.A. and Robbins, S.P Human Resource Management, Wiley, India.							
3	Dr.K.Sundar and Dr.J Srinivasan, Human Resource Development, Margham Publications, Chennai.							
4	Jane Weightman, Human Resource Management, VMP Publishers, Mumbai.							
NOTE:	NOTE: Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://hr.university/shrm/strategic-human-resource-management/							
2	https://www.investopedia.com/terms/c/collective-bargaining.asp							
3	https://www.yourarticlelibrary.com/human-resource-management-2/employee-welfare/99778							

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

<u>DISCIPLINE SPECIFIC ELECTIVE - 7 / 8: R LANGUAGE</u>

Subject		LT	р	n c	C 1:4	Inst.	Marks					
Code	L	1	P	S	Credits	Hours	CIA	External	Total			
		2	3		3	5	40	60	100			
				\mathbf{L}	earning Obj	ectives						
LO1	Acqui	re pros	ramm	ning s	kills in core F	R Programm	ing					
LO2		Acquire Object-oriented programming skills in R Programming.										
LO3		Develop the skill of designing graphical-user interfaces (GUI) in R										
		Programming										
LO4	Acqui	re R Pı	ogran	nming	g skills to mo	ve into spec	cific bran	iches				
Prerequis	ite: Sho	uld ha	ve stu		Commerce i							
					List of Exer	cises						
	1.											
	2.		_		riting Data							
	3.			abases	S							
	4.											
		Facto										
		Subso	_	-	ulation							
		Data										
		Resh										
		The I										
					Distributions							
			-		stics and Gra	phics						
	13	. One-	And 7	Two-S	Sample Tests	•						
	14	. Regre	ession	And	Correlation							
		-			iance And Th	e Kruskal–	Wallis Te	est				
		. Tabu			~ .	0.00	~.					
					Computation	Of Sample	Size					
					Handling							
). Multi). Linea	-	_	sion							
		. Logis			ion							
		. Logis 2. Survi		_								
				-	on Regression	1						
					Fitting							
	l				OTAL							
					Course Outc	omes		,				
CO1	Γo unde	rstand	the pr	oblen	n solving app	roaches						
CO2	Γo learn	the ba	sic pr	ogran	nming constru	icts in R Pro	ogrammii	ng				
	Fo pract			ompu	iting strategie	s for R Prog	grammin	g -based solu	tions to			
 				ng da	ta structures -	- lists, tuple	s. diction	aries.				
						-						
CO3	To do input/output with files in R Programming											

<u>DISCIPLINE SPECIFIC ELECTIVE – 8 / 8: PRACTICAL TALLY</u>

Subjec	t T	Т	р	C	Cua dita	Inst. Marks		Marks				
Code	L	T	P	S	Credits	Hours	CIA	External	Total			
		2	3		3	5	40	60	100			
	Learning Objectives											
LO1	Exami	Examination of general accounting applications as they apply to computerized										
			_		_		•		-			
	financial records for each step of the accounting cycle to the completion of financial statements, as well as managementaccounting applications.											
Prerequi	Prerequisite: Should have studied Commerce in XII Std											
					List of Ex							
	1.				Trial Balance	- preparati	on of pr	ofit and loss				
			,		e sheet							
	2.			_	_	iterest calcu	ilation. S	etting ledger				
	2	maste			-	acamant m		ativatina hill				
	3.				payable man ypes of entrie	-	canng a	cuvaung bili				
	4				nd Category		cost cer	ntre breakun				
	1,					-		and payable,				
		_		_	ole and payat	_						
					ccount revers							
	5.							roup budget				
				ledg	ercreation al	teration of	budget	deletion of				
		budge						_				
	6.				-			Transferring				
	7	_			,Interest supp		_					
	/.		_			-	-	, Exempted				
	Q		-	-	ent andReturr merce Introd	-						
	0.				esfor E-comn							
					nportant Poin							
	9.				-	-		ΓR-2, Other				
			_		s, AnnualReti							
	Overview, Other Provisions.											
	10.	GST	Porta	al, In	troduction, C	GST Eco-sy	ystem, G	ST Suvidha				
	Provider (GSP), UploadingInvoices											
	TOTAL											
					Course Ou							
CO1		nput journal entries, adjust entries and prepare financial statements for cash and accrual-based businesses										
					1			1.6	,			
CO2								l for maintaini	ing			
	accounts	payab	ne,acc	counts	receivable, a	ina mventor	y subsidi	ary leagers				

PROFESSIONAL COMPETENCY SKILL

GENERAL AWARENESS FOR COMPETITIVE EXAMINATION

Subje	ect	L	T P S Credits		Inst.		Marks			
Cod	le	L	1	P	S	Credits	Hours	CIA	External	Total
		2		2	2	25	75	100		
						Learning				
LO1						for learning a into lifelong le		nt disciplin	es and builds e	xperience
LO2	To b	uild e	experi	ences	for s	tudents as the	y grow into	lifelong lea	rners.	
LO3	To know the basic concepts of various discipline									
Prereq	uisite	s: Sh	ould l	have	studi	ed Commerc	e in XII Std			
UNIT	Details									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.								6	
П	Geography Major oceans of the world –Important Canals – Gulfs – Straits and passes – Indian Rivers and its Tributaries – Climatology – Atmosphere, Wind systems, Clouds systems, World climatic classification – Indian climate – Indian Monsoon – Indian's physical features, Indian Soil types and Distribution – Importance Trade routes and projects, Indian naturals vegetation – Indian agriculture- Major crops and its distribution, Indian Industries and its Distribution.							6		
III	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	History Modern India – formation of Indian National Congress – Morley Minto Reforms, Revolutionary activities – World War I and India's Response – Home Rule league – Montague Chelmsford reforms – Rowlett Act – Non – Cooperation Movement – Simon commission and Nehru Report – Civil Disobedience Movement and Round Table conferences – Quit India Movement and Demand for Pakistan – Cabinet Mission – Formation of Constituents Assembly and partition of India.								6	
V	Envi	ironn c con mical ventic ironm	nent a cepts Cycl ons –	and E — Eco es — Conf	cology ology Inter	sy , Biodiversity national Bio	- Food chair Diversity or	rganisation	web – Bio Geo s- Internationa nental laws and	6
	TOT	ιAL								30

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

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