

THIRUVALLUVAR UNIVERSITY

SERKKADU, VELLORE-632115

B.Com. COMPUTER APPLICATION

SYLLABUS

FROM THE ACADEMIC YEAR
2023 - 2024

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B.COM., COMPUTER APPLICATION

PROGRAMME OBJECTIVE:

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

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

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

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

predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation

PO7: Cooperation/Team work: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team

PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.

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

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

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

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

PO 13: Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one"s work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.

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

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

Programme Specific Outcomes:

PSO1 - Placement:

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

PSO 2 - Entrepreneur:

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

PSO3 – Research and Development:

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

PSO4 – Contribution to Business World:

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

PSO 5 – Contribution to the Society:

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

Credit Distribution for UG Programme

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

First Year – Semester-I

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

Semester-II

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

Second Year - Semester-III

Part	List of Courses	Credit	No. of Hours
		_	110018
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	15
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	2	2
		24	32

Semester-IV

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

Third Year

Semester-V

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

Semester-VI

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

Consolidated Semester wise and Component wise Credit distribution

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

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

	METHODS OF EVALUATION		
Internal Evaluation	Continuous Internal Assessment Test Assignments / Snap Test / Quiz Seminars Attendance and Class Participation	25 Marks	
External Evaluation	End Semester Examination	75 Marks	
	Total	100 Marks	
	METHODS OF ASSESSMENT		
Remembering (K1)	 The lowest level of questions require studer information from the course content Knowledge questions usually require sidentify information in the textbook. 		
 Understanding (K2) Understanding of facts and ideas by comprehe organizing, comparing, translating, interpolating interpreting in their own words. The questions go beyond simple recall and restudents to combine datatogether 			
Application (K3)			
Analyze (K4)	 Analyzing the question is one that asks the to break down something into its component. Analyzing requires students to identifications or motives and reach conclusions. 	nt parts. fy reasons	
 Evaluate (K5) Evaluation requires an individual to make judgment something. Questions to be asked to judge the value of an idea character, a work of art, or a solution to a problem. Students are engaged in decision-making and problem. Evaluation questions do not have single right answer. 			
Create (K6)	 The questions of this category challenge get engaged in creative andoriginal thinkin. Developing original ideas and problem solving 	students to g.	

CREDIT DISTRIBUTION FOR B.COM., COMPUTER APPLICATION

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

Highlights of the Revamped Curriculum:

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

Value additions in the Revamped Curriculum:

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

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

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

B.COM COMPUTER APPLICATION

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

	Skill Enhancement Course – SEC 5	2	2
	Environmental Studies	2	2
	TOTAL	24	32
-	FOURTH SEMESTER		
Part I	Language – Tamil	3	6
Part II	English	3	6
Part III	Core Paper VII-Corporate Accounting II	5	5
Part III	Core Paper VIII-Company Law	5	5
	Elective IV– Relational Database		
Part III	Management System	3	6
	Elective IV- Introduction to Data Science	3	U
Part IV	Skill Enhance Course SEC – 6	2	2
Part IV	Skill Enhancement Course – SEC 7	2	2
	TOTAL	23	32
	THIRD YEAR		
	FIFTH SEMESTER		
Part III	Core Paper IX -Cost Accounting I	4	5
Part III	Core Paper X - Banking Law and Practice	4	5
Part III	Core Paper XI – Income Tax Law and Practice I	4	5
Part III	Core Paper XII – Auditing and Corporate Governance	4	5
Part III	Discipline Specific Elective 1/2 - Financial Management / 2/2 - Indirect Taxation	3	4
	Discipline Specific Elective 3/4 – Software Engineering+(UML Lab)/4/4Object oriented Analysis and Design+(UML Lab)	3	4
Part IV	Value Education	2	2
	Summer Internship / Industrial Training	2	-
	TOTAL	26	30
	SIXTH SEMESTER		
Part III	Core Paper XIII –Cost Accounting - II	4	6
1 411 111	Cole I apol Alli Cost Accounting - II		<u> </u>
Part III	Core Paper XIV-Management Accounting	4	6
Part III	Core Paper XV- Income Tax Law and Practice II	4	6
Part III	Discipline Specific Elective %- Entrepreneurial Development / 6/6-Human Resource Management	3	5

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

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

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

CORE – I: FINANCIAL ACCOUNTING I

Subject	L	Т	P	S	Credits	Inst.		Mark	KS				
Code		1	1	3	Creuits	Hours	CIA	Exte	rnal	Total			
	5				4	5	25	75	5	100			
				L	earning Obj	ectives							
LO1	To un	derstan	d the b	asic ac	counting con	cepts and s	standards.						
LO2	To kn	ow the	basis fo	or calc	ulating busin	ess profits.							
LO3					counting treat		•						
LO4		o learn the methods of calculating profit for single entry system. o gain knowledge on the accounting treatment of insurance claims.											
LO5								claims	•				
Unit	isites: S	Snouia	nave s	tuaie	d Accountan Contents	cy in AII S	<u>sta</u>		No.	of			
Unit					Contents				Hou				
I	Finance Account Account Errors	cial Ac inting ints— Si — Re	countii Conce absidia ectifica	ng – 1 pts a ry Boo tion o	ial Accounting Meaning, Deaning Conventions of Errors — ation Statement	finition, C tions - J Balance - Preparation	fournal, L Classificati on of Sus	edger on of pense		15			
II	Final Expen	diture	nts of and Re	eceipts	Frading Conds – Preparation Sheet with A	on of Tra	ding, Profi			15			
III	Loss Account and Balance Sheet with Adjustments. Depreciation and Bills of Exchange Depreciation - Meaning - Objectives - Accounting Treatments - Types - Straight Line Method - Diminishing Balance method - Conversion method. Units of Production Method - Cost Model vs Revaluation Bills of Exchange - Definition - Specimens - Discounting of Bills - Endorsement of Bill - Collection - Noting - Renewal -									15			
IV	Accou Incom Differ - Meth	plete dence be nods of	rom In Record tween Calcu	ncomp s -Mo Incom lation	plete Records eaning and aplete Record of Profit - St ements by Co	Features s and Doub attement of	 Limitation Entry Sylventry Affairs M 	ons - ystem		15			
V	Meani Short Treatn Insura	Royalty and Insurance Claims Meaning – Minimum Rent – Short Working – Recoupment of Short Working – Lessor and Lessee – Sublease – Accounting Treatment. Insurance Claims – Calculation of Claim Amount-Average clause Loss of Stock only)											
				T	OTAL					75			
THEOR	Y 20%	& PR	OBLE	M 80°	?⁄o								
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

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

CORE – II: PRINCIPLES OF MANAGEMENT

Subject	, ,	Т		C	C 114	Inst.		Mark	KS			
Code	L	T	P	S	Credits	Hours	CIA	Exte	rnal	Total		
	5				4	5	25	75	5	100		
	Learning Objectives											
LO1	To und	lerstan	d the b	asic m	anagement c	oncepts and	d functions					
LO2	To kno	w the	various	s techn	iques of plan	nning and d	ecision ma	king				
LO3	To fan	niliariz	e with	the cor	ncepts of org	anisation st	tructure					
LO4	To gai	n knov	vledge	about t	the various c	omponents	of staffing					
LO5	To ena	ble the	studer	nts in u	ınderstandin	g the contro	ol technique	es of m	anage	ement		
Prerequ	isites: S	hould	have s	studied	l Commerce	e in XII Sto	d					
Unit					Contents				No.	of		
									Hou	rs		
	Introd			_		1 0	T 1					
		_			Nature a	_						
	_				e - Managei							
I	_				or Art –Ev		f Manage	ment		15		
1	Thoug	hts – F	. W. Ta	aylor, l	Henry Fayol,	,				13		
					Mayo - Fu							
	Trends	and C	hallen	ges of l	Managemen	t. Managers	s – Qualific	ation				
	– Dutie	es & R	espons	ibilitie	s							

II	Planning Planning – Meaning – Definitions – Nature – Scope and Functions – Importance and Elements of Planning – Types – Planning Process - Tools and Techniques of Planning – Management by Objective (MBO). Decision Making: Meaning – Characteristics – Types - Steps in Decision Making – Forecasting.	15
III	Organizing Meaning - Definitions - Nature and Scope - Characteristics - Importance - Types - Formal and Informal Organization - Organization Chart - Organization Structure: Meaning and Types - Departmentalization - Authority and Responsibility - Centralization and Decentralization - Span of Management.	15
IV	Staffing Introduction - Concept of Staffing- Staffing Process - Recruitment - Sources of Recruitment - Modern Recruitment Methods - Selection Procedure - Test- Interview- Training: Need - Types- Promotion -Management Games - Performance Appraisal - Meaning and Methods - 360 degree Performance Appraisal - Work from Home - Managing Work from Home [WFH].	15
V	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	75
	Course Outcomes	
CO1	Demonstrate the importance of principles of management.	
CO2	Paraphrase the importance of planning and decision making in an o	rganization.
CO3	Comprehend the concept of various authorizes and responsibilities organization.	of an
CO4	Enumerate the various methods of Performance appraisal	
CO5	Demonstrate the notion of directing, co-coordination and control in management.	the
	Textbooks	
1	Gupta.C.B, -Principles of Management-L.M. Prasad, S.Chand& So. New Delhi.	
2	DinkarPagare, Principles of Management, Sultan Chand & Sons Pu New Delhi.	blications,

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

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

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

ELECTIVE - I: PROGRAMMING IN C AND LAB

Subject	L	T	P	S	Credits	Inst.		ks					
Code					Credits	Hours	CIA	Exte	ernal	Total			
	2		2		3	4	25	7	5	100			
Learning Objectives													
LO1	Describe the core syntax and semantics of C programming language.												
LO2	Discover the need for working with the strings and functions.												
LO3	Illustra	ate the	process	s of str	ructuring the	data using	matrix, stru	uct.					
Prerequisites: Should have studied Commerce in XII Std													
Unit					Contents				No. 6 Hou				
I	Introduction to C Language: C Language Introduction-Features of C Language-Benefits of C over other languages-Compilation of C Program-First Program in CPre-processor in CPre-processor directives												
II	C-Sco	-	es in (Operators:V		•						
III	Statem Contin	nent in nue Sta	C-C L tement	oops & , Brea	s:Decision M & Control St k Statement n C:Arrays i	ructure Pra	actice prob						
IV	Multide proble Functi in C-S CPract												
V	Pointe - Enumapplica mark 1												
					Total								

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

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

<u>FIRST YEAR – SEMESTER – I</u>

C Programming Lab

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

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

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

CO1: Apply the concept of Control Structures to solve any given problem.

CO2: Apply the concept of single and multi-dimensional arrays to solve problems related to searching, sorting and matrix operations.

CO3: Apply the concept of Strings for writing programs related to character array.

CO4: Write programs using concept of user defined and recursive functions.

CO5: Apply concept of structures to write programs.

List of Programs

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

Marks Grade

>=80 A

>=60 B

>=50 C

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

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

Text Books:

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

Reference Books:

- 1. Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6.
- 2. Kernighan B.W and Dennis M. Ritchie, "The C Programming Language", 2nd Edition, 2015, Pearson Education India, ISBN: 978-93-3254-944-9.
- 3. Yashavant P. Kanetkar, "Let Us C", 16th Edition, 2019, BPB Publications, ISBN: 978-93-8728-449-4.
- 4. Jacqueline A Jones and Keith Harrow, "Problem Solving with C", Pearson Education. ISBN: 978-93-325-3800-9.
- 5. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing House. ISBN-978-93-5299-361-1.

Weblinks and Video Lectures (e-Resources):

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

<u>FIRST YEAR – SEMESTER - I</u>

ELECTIVE - I: PYTHON PROGRAMMING AND LAB

Code	2	T	P	S	Credits		Marks							
						Hours	CIA	External		Total				
			2		3	4	25	7:	5	100				
		Learning Objectives												
LO1 Describe the core syntax and semantics of Python programming language.														
LO2 I	Discover the need for working with the strings and functions.													
	Illustrate the process of structuring the data using lists, dictionaries, tuples and sets.													
LO4	Jnderst	tand the	e usage	of pack	kages and Dic	tionaries								
Prerequis	ites: S	hould	have s	studied	l Commerce	in XII Sto	l							
Unit					Contents				No. o					
I G	Introduction: Computer algorithms-Computer Hardware- Computer Software-Python programming language - Literals - Variables and Identifiers - Operators - Expressions and Data types, Input / output													
II S I	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 I	Functions: Program Routines- Defining Functions- More on Functions: Calling Value-Returning Functions- Calling Non-Value-Returning Functions- Parameter Passing - Keyword Arguments in Python - Default Arguments in Python-Variable Scope. Recursion: Recursive Functions													
IV a	Objects and their use: Software Objects - Turtle Graphics - Turtle attributes-Modular Design: Modules - Top-Down Design - Python Modules -													
$V \mid J$	Dictionaries and Sets: Dictionary type in Python - Set Data type. Text Files: Opening, reading and writing text files – Exception Handling													
					Total									

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

**

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

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

Grade C: Percentage \geq =60 and \leq 70 Grade D: Percentage \geq =40 and \leq 60

Grade E: Percentage < 40

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

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

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 - II</u>

CORE - III: FINANCIAL ACCOUNTING-II

Subjec	et ,	T	ъ	C	C P4	Inst.		Mai	rks			
Code		T	P	S	Credits	Hours	CIA	Ext	ernal	Total		
	5				4	5	25	7	75	100		
				L	earning Obj	ectives						
LO1	The s	udents a	are able	to pre	pare differen	t kinds of a	accounts su	ch				
LOI	Highe	r purcha	ase and	Instalı	ments Systen	1.						
LO2	To un											
LO3	To gain an understanding about partnership accounts relating to Admission and retirement											
LO4		Provides knowledge to the learners regarding Partnership Accounts relating to dissolution of firm										
LO5	To kn	ow the 1	equire	ments	of internation	nal account	ing standar	ds				
Prerequ	uisites:	Should	have s	tudied	l Accountan	cy in XII S	Std					
Unit					Contents			T	No. o			
	TT	<u> </u>		T , 1					Hour	S		
I	Hire Purchase and Instalment System Hire Purchase System – Accounting Treatment – Calculation of Interest - Default and Repossession - Hire Purchase Trading Account - Instalment System - Calculation of Profit									15		
П	Branch and Departmental Accounts Branch – Dependent Branches: Accounting Aspects - Debtors system -Stock and Debtors system – Distinction between Wholesale Profit and Retail Profit – Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses – Inter- Departmental Transfer at Cost or Selling Price.									15		
III	Partnership Accounts - I Partnership Accounts: -Admission of a Partner - Treatment of Goodwill - Calculation of Hidden Goodwill -Retirement of a Partner - Death of a Partner.									15		
IV	Disso Regar of Go Partne Garne	ding Lo oodwill ers inso r Vs M bution	of Partn esses an - Prep lvent - urray T	nership nd Asso paration - All Theory	- Methods - ets – Realiza n of Balanc Partners ins – Accountin Capital Met	tion account e Sheet - olvent – Ang Treatme	nt – Treatm One or m Application ent - Piecen	nent nore of neal		15		

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MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

<u>FIRST YEAR – SEMESTER – II</u>

CORE – IV: BUSINESS LAW

					,		<u>-</u>					
Subject	L	Т	P	S	Credits	Inst.		Marks				
Code	L	1	1	3	Credits	Hours	CIA	External	Total			
	5				4	5	25	75	100			
Learning Objectives												
T O1	To know the nature and objectives of Mercantile lawand the esser											
LO1	contra	contract										
LO2	To gain knowledge on performance contracts											
LO3	To be acquainted with the rules of Indemnity and Guarantee											
LO4	To make aware of the essentials of Bailment and pledge											
LO5	To understand the provisions relating to sale of goods											
Prerequi	sites: S	Should	have s	tudied	l Commerce	in XII Sto	1					
Unit					Contents			No. o	f Hours			
	Elem	ents of	Contr	act								
	India	n Con	tract A	Act 18'	72: Definitio	n of Contr	act, Essent	ials				
I	of Va	alid C	Contrac	t, Cla	ssification of	of Contrac	et, Offer a	and	15			
1	Accep	otance	- Con	sidera	tion – Capa	city to Co	ntract - F	ree	15			
	Conse	ent - L	egality	of Ol	oject – Cont	ingent Cor	ntracts - V	oid				
	Contra				-							

	Performance of Contract							
	Meaning of Performance, Offer to Perform, Devolution of							
II	Joint liabilities & Rights, Time and Place of Performance,	15						
	Reciprocal Promises, Assignment of Contracts - Remedies for							
	Breach of contract - Termination and Discharge of Contract - Quasi Contract							
	Contract of Indemnity and Guarantee							
	Contract of Indemnity and Contract of Guarantee - Extent of							
III	Surety's Liability, Kinds of Guarantee, Rights of Surety,	15						
	Discharge of Surety –							
	Bailment and Pledge							
	Bailment and Pledge - Bailment - Concept - Essentials -							
IV	Classification of Bailments, Duties and Rights of Bailor and	15						
	Bailee - Law of Pledge - Meaning - Essentials of Valid							
	Pledge, Pledge and Lien, Rights of Pawner and Pawnee.							
	Sale of Goods Act 1930:							
	Definition of Contract of Solo Formation Foundials of							
V	Definition of Contract of Sale – Formation - Essentials of Contract of Sale - Conditions and Warranties - Transfer of	15						
v	Property – Contracts involving Sea Routes - Sale by Non-	13						
	owners - Rights and duties of buyer - Rights of an Unpaid							
	Seller							
	TOTAL	75						
	Course Outcome							
CO1	Explain the Objectives and significance of Mercantile law							
CO2	Understand the clauses and exceptions of Indian Contract Act.							
CO3	Outline the contract of indemnity and guarantee							
CO4	Familiar with the provision relating to Bailment and Pledge							
CO5	Explain the various provisions of Sale of Goods Act 1930							
1	Textbooks	. •						
2	N.D. Kapoor, Business Laws- Sultan Chand and Sons, New Dell	n1.						
3	R.S.N. Pillai – Business Law, S.Chand, New Delhi.	ng Mayy Dalhi						
4	M C Kuchhal& Vivek Kuchhal, Business law, S Chand Publishing, New Delhi M.V. Dhandapani, Business Laws, Sultan Chand and Sons, New Delhi.							
5	Shusma Aurora, Business Law, Taxmann, New Delhi.							
Reference Books								
1								
2	Business Law by Saravanavel, Sumathi, Anu, Himalaya Publications, Mumbai.							
3	Kavya and Vidhyasagar, Business Law, Nithya Publication, New Delhi.							
4	D.Geet, Business Law Nirali Prakashan Publication, Pune.							
5 M.R. Sreenivasan, Business Laws, Margham Publications, Chennai.								
NOTE: Latest Edition of Textbooks May be Used								
Web Resources								
1	www.cramerz.comwww.digitalbusinesslawgroup.com							
1 2 3								

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low <u>FIRST YEAR – SEMESTER – II</u>

ELECTIVE-II: OFFICE AUTOMATION AND LAB

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

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

Office Automation Lab

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

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

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

List of Programs

Word

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

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

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

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

Excel

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

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

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

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

MS Power Point

Task1: Students will be working on basic power point utilities and tools which help them

create basic power point presentation. Topic covered includes :- PPT Orientation, Slide Layouts, Inserting Text, Word Art, Formatting Text, Bullets and Numbering, Auto Shapes, Lines and Arrows

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

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

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Cl-illa a comina 1	Variable Dealler Calaine Analytical differ Deafactor Comments
from the course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill
course	

1. Comdex Information Technology course tool kit Vikas Gupta, WILEY Dreamtech,2005 2. The Complete Computer upgrade and repair book,3rd edition Cheryl A Schmidt, WILEY Dreamtech

Introduction to Information Technology, ITL Education Solutions limited, Pearson Education.

4. PC Hardware and A + Handbook – Kate J. Chas PHI (Microsoft)

<u>FIRST YEAR – SEMESTER - II</u>

ELECTIVE - II: PROGRAMMING IN C++ AND LAB

Subject	t L	T	P	S	Credits	Inst.		Mark	KS					
Code					Creates	Hours	CIA	Exter	rnal	Total				
	2		2		3	4	25	75	5	100				
	Learning Objectives													
LO1	To engender an appreciation for the need and characteristics of Object-orientation.													
LO2	To impart knowledge of the C++ language grammar in order to design and implement programming solutions to simple problems by applying Object-oriented thinking.													
Prerequ	isites: S	Should	have s	tudied	l Commerce	in XII Sto	d							
Unit					Contents				No. of Hours					
I	- The 1 Modul Basic member	need fo arity – Elemen er func	or object Hierar onts of Cetions –	ct-orienchy. C++: (- priva	ning Concept ntation – Abs Classes – Ob te and publi Singleton cla	straction – jects – Date access sp	Encapsula ta member pecifiers -	rs and						
II	members - Constructors — Singleton class - Destructors 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 function — Overloading an operator as a friend function													
III	Overlo Conve protect	pading rsion ted acc d clas	the of Functi	perator ons.In ecifier	rs [], (), -> heritance: — Virtual Ba rs. Run-tim	and comi Types of se Class –	ma operat inheritan Base clas	ce –						
IV		ates: F	unction		virtual funct lates – Overl									

V	Exception Handling: Exceptions – try, catch, throw – Rethrowing an exception – Restricting exceptions - Handling exceptions in derived classes - terminate(), abort(), unexpected(), set_terminate(). I/O Streams: Formatted I/O with ios class functions - Manipulators – Creating own manipulator – Overloading << and >> operators.							
	Total							
	Course Outcomes							
CO1	Explain the various basic concepts of Object-orientation.							
CO2	Write programs to implement static binding							
CO3	Write programs to implement inheritance and dynamic binding							
CO4	Write programs to implement templates and exception handling and learn how to use STL class library.							
CO5	Write programs implementing File and Stream I/O.							
	Textbooks							
1	Herbert Schildt, C++ - The Complete Reference, Third Edition, TMH, 1999							
2	Grady Booch, Object Oriented Analysis and Design, Pearson Education (For Unit I)	ation, 2008.						
	Reference Books							
1	Bjarne Strousstrup, <i>The C++ Programming Language</i> , Addison Wesley, 2	000.						
2	J. P. Cohoon and J. W. Davidson, <i>C++ Program Design – An Introduction to Programming and Object-Oriented Design</i> , Second Edition, McGraw Hill,							
3	C. J. Lippman, <i>C++ Primer</i> , 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 fund	ctions:
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 Professional	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
from the	Professional Communication and Transferrable Skill
Course	

Learning Resources:

Learning Resources:

Recommended Texts

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

Reference Books

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

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

Subject	I T	P	S	Credits	Inst. Hours		Mai	rks					
Code		1		Credits	inst. Hours	CIA	Exte	rnal	Total				
	5			4	5	25	7:	5	100				
				Learning O	bjectives	L	I						
LO1	To understand about the pro-rata allotmentand Underwriting of Shares												
LO2	To know the provisions of companies Act regarding Issue and Redemption of Preference shares and debentures												
LO3	To learn the form and contents of financial statements as per Schedule III of Companies Act 2013												
LO4	To examine the various methods of valuation of Goodwill and shares												
LO5	To identi	ify the S	ignifica	ance of Internat	ional financial re	eporting s	tandard ((IFRS)					
Prerequisite	e: Should	have stu	ıdied F	inancial Accou	ınting in I Yeaı	•							
Unit				Conten	ts			No. o	f 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.												
II	Redempt Capital F Par, Pren Debentur lot-in In and Cum		15										
III	Introduct Statemer Balance Ascertain		15										

	Valuation of Goodwill & Shares	
IV	Valuation of Goodwill – Meaning – Need for Valuation of Goodwill – Methods of Valuing Goodwill – Average Profit – Super Profit – Annuity and Capitalisation Method. Valuation of Shares – Need for Valuation of Shares – Methods of Valuation of Shares – Net Assets Method – Yield and Fair Value Methods.	15
	Indian Accounting Standards	
V	International Financial Reporting Standard (IFRS)–Meaning and its Applicability in India - Indian Accounting Standards – Meaning – Objectives – Significance – Procedures for Formulation of Standards – Ind AS – 1 Presentation of Financial Statement, Ind AS – 2 Valuation of Inventories, Ind AS – 7 Cash Flow Statement, Ind AS – 8 Accounting Policies, Changes in Accounting Estimate and Errors, Ind AS – 16 – Property, Plant & Equipment, Ind AS 38 – Intangible Assets Ind AS – 103, Business Combinations Ind AS 110, Consolidated Financial Statement. (Theory Only)	15
	TOTAL	75
THEORY	20% & PROBLEMS 80%	
	Course Outcomes	
CO1	Prepare and account for various entries to be passed in case of issue, forfe reissue of shares and compute the liability of underwrites	iture and
CO2	Asses the accounting treatment of issue and redemption of preference shardebentures	res and
CO3	Construct Financial Statements applying relevant accounting treatments	
CO4	Compute the value of goodwill and shares under different methods and as applicability	sess its
CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IN	ID AS
	Textbooks	
1	S.P. Jain and N.L. Narang, Advanced Accounting Vol I, Kalyani Publicat Delhi.	ion, New
2	R.L. Gupta and M. Radha swamy, Advanced Accounts Vol I, Sultan Char	nd, New Delhi.
3	Broman, Corporate Accounting, Taxmann, New Delhi.	
_		

4	Shukla, Grewal and Gupta- Advanced Accounts VolI,S.Chand, New Delhi.										
5	M.C.Shukla, Advanced accounting Vol I, S.Chand, New Delhi.										
	Reference Books										
1	T.S. Reddy, A. Murthy – Corporate Accounting- Margham Publication, Chennai.										
2	D.S.Rawat&NozerShroff,Students Guide To Accounting Standards ,Taxmann, New Delhi										
3	Prof. Mukeshbramhbutt, Devi, Corporate Accounting I, Ahilya Publication, Madhya Pradesh										
4	Anil Kumar, Rajesh kumar, Corporate accounting I, Himalaya Publishing house, Mumbai.										
5	PrasanthAthma, Corporate Accounting I, Himalaya Publishing house, Mumbai.										
NOTE:	Latest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.tickertape.in/blog/issue-of-shares/										
2	https://www.taxmann.com/bookstore/bookshop/bookfiles/chapter12valuationofgoodwillands hares.pdf										
3	https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accounting-standards.html										

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

3 – Strong, 2- Medium, 1- Low

<u>SECOND YEAR – SEMESTER - III</u>

CORE – VI: BUSINESS MATHEMATICS & STATISTICS

Subject				C	G 114	Inst.		Marks						
Code	L	T	P	S	Credits	Hours	CIA	Exte		Total				
	5				4	5	25	7:	5	100				
				Le	earning Obj	ectives								
LO1	To im	nart kno	owlede	e on th	ne basics of r	atio propo	rtion, indic	es and	propo	ortions				
LO2					compound in									
			gressic		1		,	O						
LO3	To fan	To familiarise with the measures of central tendency To conceptualise with correlation co-efficient												
LO4														
	LO5 To gain knowledge on time series analysis													
	isite: Sl	hould l	have st	<u>udied</u>	Commerce	in XII Std								
Unit					Contents				No. Hou					
I	Ratio	_				1 -				15				
					ations, Indic	es and Log	arıthms.							
			Annui		le and Comp	ound Intere	oct _			15				
II					Harmonic P									
					s of Annuity	_								
					res of Centi					15				
			-		ric Mean - H									
III		-			les - Percent									
		-			on and Mear	n Deviation	ı - Varıanc	e and						
			and Re							15				
				_	's Coefficien	t of Correl	otion			13				
IV														
	-		Cank C	orreiai	ion – Regres	sion Lines	and							
	Coeffi					<u> </u>				1 =				
			•		Index Num					15				
			•		ular Trend –									
V	-				Numbers –			tive						
	Index -													
	Living													
					TOTAL					75				
Т				(Course Outc	omes								
CO1					roportion, in									
CO2					ns of simple cogressions.	and compo	ound intere	st and a	arithn	ietic,				
CO3	Determ	nine th	e vario	us mea	sures of cen	ral tendend	су							
CO4	Calcul	ate the	correla	ition ai	nd regression	co-efficie	nt.							
CO5	Assess	s proble	ems on	time s	eries analysi	5								
					Textbook	KS								
1	Dr. B.l house,			iness l	Mathematics	& Statistic	s, Shashibl	hawan	publi	shing				

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

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

3 – Strong, 2- Medium, 1- Low

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

ELECTIVE - III: PROGRAMMING IN JAVA AND LAB

Subject	L	Т	P	S	Credits	Inst.		Mark	KS				
Code			_		Credits	Hours	CIA	Exter	rnal	Total			
	2		2		3	4	25	75	5	100			
				Le	earning Obj	ectives							
LO1	To pro	vide fi	ındame	ental kı	nowledge of	object-orie	nted progr	amming	.				
LO2	To equip the student with programming knowledge in Core Java from the basics up.												
LO3	To enable the students to use AWT controls, Event Handling and Swing for GUI.												
Prerequi	site: Sl	hould	have st	udied	Commerce	in XII Std							
Unit					Contents				No. (
I	buzzw archite Conso Variab Buffer Static	ords (lecture - le outpoles - led inpoles Method	Platforn -Java F out(Systype cout - op d - Strig	m inder Prograr tem.ou onvers perator ng and	f Object-Ocpendence, I be structure - simple ji ion and cases - control String Buffe	Portability, —Java mainava programating- Java statements er Classes	Threads)- n method n - Data t Console - Static I	JVM - Java ypes - input: Data -					
II	Inherit access Overlo	rules ading	Basic - Usa - Meth	conce ge of nod ov	and Objects epts - Types this and S verriding - A of final keyw	of inherit uper key Abstract cla	ance - Mowerland - Mowerland	ember lethod					
III	Packages: Definition - Access Protection - Importing Packages - Interfaces: Definition - Implementation - Extending InterfacesException Handling: try - catch - throw - throws finally - Built-in exceptions - Creating own Exception classes - garbage collection, finalise -												
IV	Synchr synchr	ronizat onized	ion – statem	Usin nent - I	ng: Thread C ng synchron nterthread C	nized met ommunicat	hods – ion – Dead	Using dlock.					
V	Adapte Frame	er clas: work:C	ses - I1 Collecti	nner cl	lasses -Java Iterator Int omparator	Util Packa	ge / Colle	ctions					

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

Java Programming Lab	Core -S2EC1L

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

- To gain practical expertise in coding Core Java programs
- To become proficient in the use of AWT, Event Handling and Swing.

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

CO1: Code, debug and execute Java programs to solve the given problems

CO2: Implement multi-threading and exception-handling

CO3: Implement functionality using String and StringBuffer classes

List of Programs

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

- a) String length
- b) Finding a character at a particular position
- c) Concatenating two strings
- 6. Write a program to perform the following string operations using String class:
 - a) String Concatenation
 - b) Search a substring
 - c) To extract substring from given string
- 7. Write a program to perform string operations using StringBuffer class:
 - a) Length of a string
 - b) Reverse a string
 - c) Delete a substring from the given string
- 8. Write a java program that implements a multi-thread application that has three threads. First thread generates random integer every 1 second and if the value is even, second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of cube of the number.
- 9. Write a threading program which uses the same method asynchronously to print the numbers 1 to 10 using Thread1 and to print 90 to 100 using Thread2.
- 10. Write a program to demonstrate the use of following exceptions.
 - a) Arithmetic Exception
 - b) Number Format Exception
 - c) Array Index Out of Bound Exception
 - d) Negative Array Size Exception

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

Learning Resources:

Recommended Texts

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

Reference Books

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

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

<u>SECOND YEAR – SEMESTER - III</u>

ELECTIVE III: Web Technology(PHP) and Lab

Subject		L	Т	P	S	Credits	Inst.		Mark	S		
Code				Hours	CIA	Externa	al Tota	al				
		2		2		3	4	25	75	100	0	
]	Learning Ob	jectives	1	1			
LO1	To use PHP and MySQL to develop dynamic web sites for user on the In											
LO2	e-c	To develop web sites ranging from simple online information forms to complex e-commerce sites with MySQL database, building, connectivity, and maintenance										
Prerequ	isite	: Sho	uld h	ave s	tudie	d Commerce	in XII Std					
Unit						Contents				No. of Hours		
I	PH vai Ch	Introducing PHP – Basic development Concepts – Creating first PHP Scripts – Using Variableand Operators – Storing Data in variable – Understanding Data types – Setting and Checkingvariables Data types – Using Constants – Manipulating										
II	Co Sta Re	Variables with Operators. Controlling Program Flow: Writing Simple Conditional Statements - Writing More ComplexConditional Statements - Repeating Action with Loops - Working with String and NumericFunctions.										
III	wit	Working with Arrays: Storing Data in Arrays – Processing Arrays with Loops and Iterations –Using Arrays with Forms - Working with Array Functions – Working with Dates and Times.										
IV		Using Functions and Classes: Creating User-Defined Functions - Creating Classes – UsingAdvanced OOP Concepts.										
V	SQ Em	L- rors	Using – U	My sing	SQL SQL	e and SQL : -Adding and tite Extensional Extensions of the Extension of th	lmodifying on and P	Data-Ha	andling			

	TOTAL								
CO	Course Outcomes								
CO1	Understand the general concepts of PHP scripting language for the development of Internetwebsites.								
CO2	Understand the basic functions of MySQL database program and XML concepts								
CO3	Learn the relationship between the client side and the server side scripts.								
	Textbooks								
1	VikramVaswani, "PHP A Beginner's Guide", Tata McGraw Hill 2008.								
	Reference Books								
1	Steven Holzner, "The PHP Complete Reference", Tata McGraw Hill, 2007.								
2	Steven Holzer, "Spring into PHP", Tata McGraw Hill 2011, 5thEdition.								
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/								

<u>SECOND YEAR – SEMESTER – III</u>

WEB TECHNOLOGY LAB

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

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

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

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

LIST OF PRACTICALS

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

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

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

CORE - VII: CORPORATE ACCOUNTING - II

Subject				Inst.				Marks					
Code	L	T	P	S	Credits	Hours	CIA	Externa l	Total				
	5				4	5	25	75	100				
					A			1	1				
LO1	To know the types of Amalgamation, Internal and external Reconstruc												
LO2	To kn	To know Final statements of banking companies											
LO3	To un	derstar	nd the	accoun	ting treatme	nt of Insur	ance comp	any accoun	its				
LO4	To un	derstar	nd thep	rocedi	are for prepa	ration of co	onsolidated	d Balance s	heet				
LO5	To ha	ve an i	nsight	on mo	des of windi	ng up of a	company						
Prerequ	isite: S	hould	have s	tudied	l Financial A	Accountin	g in I Yea	r					
Unit					Content	s			No. of Hours				
I	Amalgamation, Internal & External Reconstruction Amalgamation – Meaning - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method - Types of Methods of Accounting for Amalgamation - The Pooling of Interest Method - The Purchase Method (Excluding Inter-Company Holdings). Internal & External Reconstruction Internal Reconstruction – Conversion of Stock – Increase and Decrease of Capital – Reserve Liability - Accounting Treatment of External Reconstruction												
II	Accounting of Banking Companies Final Statements of Banking Companies (As Per New Provisions) - Non-Performing Assets - Rebate on Bills Discounted- Profit and Loss a/c - Balance Sheet as Per Banking Regulation Act 1949.												
	Insurance Company Accounts:												
III	Meaning of Insurance – Principles – Types – Preparation of Final Accounts of Insurance Companies – Accounts of Life Insurance Business – Accounts of General Insurance Companies -New												

	Format.								
	Consolidated Financial Statements								
I	Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparation of Accounts -Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).	1							
	Liquidation of Companies Meaning-Modes of Winding Up – Preparation of Statement of Affairs and Statement of Deficiency or Surplus (List H) Order of Payment – Liquidators Remuneration- Liquidator's Final Statement of Accounts.	f 15							
	TOTAL	75							
TH	EORY 20% & PROBLEMS 80%								
	Course Outcomes								
C	CO1 Understand the accounting treatment of amalgamation, Internal and e reconstruction								
C	Construct Profit and Loss account and Balance Sheet of Banking Coin accordance in the prescribed format.	ompanies							
C	O3 Synthesize and prepare final accounts of Insurance companies in the prescribed format	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								
1	Textbooks								
1	S.P. Jain and K.L Narang. Advanced Accountancy, Kalyani Publish Delhi.	ers, New							
2	Dr.K.S .Raman and Dr. M.A. Arulanandam , Advanced Accountancy, Vo Himalaya Publishing House, Mumbai.	ol. II,							
3	R.L. Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, Ne	w Delhi.							
4	M.C. Shukla and T.S. Grewal, Advanced Accounts Vol.II, S Chand & So Delhi.	ons, New							
5	T.S. Reddy and A.Murthy, Corporate Accounting II, Margham Publishers, Chennai								

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

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

3 – Strong, 2- Medium, 1- Low

SECOND YEAR-SEMESTER-IV

COREPAPERVIII - COMPANY LAW

50

Subject	T	T	P	S	Credits	Inst.		Ma	rks				
Code	L	1	r	3	Credits	Hours	CIA	Ext	ternal	Total			
	5				4	5	25		75	100			
				L	earning Obj	ectives							
LO1	To kno	ow Cor	npany	Law 1	956 and Com	panies Act	t 2013						
LO2	To have an understanding on the formation of a company												
LO3	To understand the requisites of meeting and resolution												
LO4	To gain knowledge on the procedure to appoint and remove Directors												
LO5	To familiarize with the various modes of winding up												
Prerequ	isite: Sl	hould l	have st	udied	Commerce	in XII Std							
Unit					Contents				No. of	f			
									Hour	s			
		luction				~	C1	.•	15				
					efinition of a	1 .							
I					Piercing the Cortnership a								
	•	_			eation of C								
					lumber of Me			011					
		ation o		•		•							
					– Promoter –								
**					f Association				1.				
II	Legal Effects – Articles of Association - Certificate of									15			
	Incorporation – Prospectus – Contents - Kinds – Liabilities – Share Capital – Kinds – Issue – Alteration – Dividend –												
	Deben	-	11 – K	liius	– 188uc – <i>F</i>	Antianon	- Dividen	u –					
	Meetin												
	Meetir	ng and			Types – Rec								
III	Quoru		15										
	Audito												
	Remov												
	•	_			tration ration — Dire	ectors — I a	egal Positio	nn —					
	_	-			ointment/ Re		_						
					Number – I								
IV					tees – Relat				1	15			
1 V					Company – Ir				_	13			
					Secretarial								
					o – National								
	(NCLT) – National Company Law Appellate Tribunal (NCLAT) – Special Courts.												
	Windi		A1 1.3.										
17			Modes	– Co	ompulsory W	inding U	p – Volun	itary					
Winding Up – Consequences of Winding Up Order – Power								•	15				
	Tribun	nal – Pe	tition f	or Wi	nding Up – C	ompany L	iquidator.						
					TOTAL					75			
					Course Outc	omes							
CO1	Unders	stand tl	ne class	sificati	ion of compar	nies under	the act						

CO2	Examine the contents of the Memorandum of Association & Articles of Association									
CO3	Know the qualification and disqualification of Auditors									
CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)									
CO5	Analyse the modes of winding up									
	Textbooks									
1	N.D. Kapoor, Business Laws, Sultan Chand and Sons, Chennai									
2	R.S.N. Pillai – Business Law, S.Chand, New Delhi.									
3	M.V. Dhandapani, Business Laws Sultan Chand and Sons, Chennai									
4	Shusma Aurora, Business Law, Taxmann, New Delhi									
5	M.C.Kuchal, Business Law, VikasPublication, Noida									
	Reference Books									
1	Gaffoor&Thothadri, Company Law, Vijay Nichole Imprints Limited, Chennai									
2	M.R. Sreenivasan, Business Laws, Margham Publications, Chennai									
3	KavyaAndVidhyasagar, Business Law, Nithya Publication, Bhopal									
4	S.D.Geet, Business Law Nirali Prakashan Publication, Pune									
5	PreethiAgarwal, Business Law, CA foundation study material									
NOTE:	Latest Edition of Textbooks May be Used									
	Web Resources									
1	https://www.mca.gov.in/content/mca/global/en/acts-rules/companies-act/companies-act-2013.html									
2	https://vakilsearch.com/blog/explain-procedure-formation-company/									
3	https://www.investopedia.com/terms/w/windingup.asp									

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

3 – Strong, 2- Medium, 1- Low

<u>SECOND YEAR – SEMESTER – IV</u>

ELECTIVE IV - RELATIONAL DATABASE MANAGEMENT SYSTEM

Subjec		LI	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	P	S	Credits	Inst.		Marks	
Code			_	_		010010	Hours	CIA	External 75 ing of Databand its syntax.	Total															
	3	3				3	3	3 25		100															
]	Learning Ob	jectives		1																
LO1	Gain a good understanding of the architecture and functioning of Database Management Systems																								
LO2	Under	rstan	ıd th	e use	of St	ructured Quer	y Language	(SQL) a	nd its syntax	•															
LO3	Apply	Noi	rma	lizatio	on tec	hniques to no	rmalize a da	ıtabase.																	
LO4	Understand the need of transaction processing and learn techniques for																								
Prerequ	isite: S	houl	ld h	ave s	tudie	d Commerce	in XII Std																		

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

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

ELECTIVE - IV: INTRODUCTION TO DATA SCIENCE

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

V	Case Study: Prediction of Disease - Setting research goals - Data retrieval — preparation - exploration - Disease profiling - presentation and automation
	TOTAL
	Course Outcomes
CO1	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
CO2	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
CO3	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
CO4	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
CO5	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication
	Textbooks
1	Davy Cielen, Arno D. B. Meysman, Mohamed Ali, "Introducing Data Science", manning publications 2016
	Roger Peng, "The Art of Data Science", lulu.com 2016.
	MurtazaHaider, "Getting Started with Data Science – Making Sense of Data with Analytics", IBM press, E-book.
	Reference Books
1	Davy Cielen, Arno D.B. Meysman, Mohamed Ali, "Introducing Data Science: Big Data, Machine Learning, and More, Using Python Tools", Dreamtech Press 2016.
2	Annalyn Ng, Kenneth Soo, "Numsense! Data Science for the Layman: No Math Added", 2015,1st Edition.
3	Cathy O'Neil, Rachel Schutt, "Doing Data Science Straight Talk from the Frontline", O'Reilly Media 2013.
4	Lillian Pierson, "Data Science for Dummies", 2015 II Edition
NOTE:	Latest Edition of Textbooks May be Used

THIRD YEAR – SEMESTER - V

CORE - IX: COST ACCOUNTING - I

et T	Т	D	C	Cwadita	Inst.		Marks		
L	1	Г	3	Credits	Hours	CIA	Externa	l Total	
5				4	5	25	75	100	
•	•		L	earning Obj	ectives				
Toun	deretan	d the w	arione	concepts of a	eost accoun	ıtinα			
							ur cost.		
						<u></u>			
				Contents				No. of Hours	
Definiti Account Manage	on-Nat ting a ement	ure and nd Fi Accou	d Scop nancia inting	oe – Principle ll Accountir –Installatio	ng - Cos n of Co	t Account osting Sys	ing Vs	15	
Prepara	tion of	Cost S	heet -	Tenders & (~		ation of	15	
Materia EOQ – Materia	l Contr Stores l ls –Me	ol – M Record thods o	s – Ro of Issu	eorder Level le – FIFO – I	s – ABC A LIFO – Ba	Analysis - : se Stock M	Issue of lethod –	15	
Direct Calcula Calcula Incentiv	Labour tion of /es – D	and Ir Wage	e Payr nt Met	ments – Tim shods of Ince	ne Wages entive Payr	Piece Wments - Idl	Vages – le time–	15	
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 –							Primary thods of	15	
								75	
RY 20%	& PR	OBLE	MS 80	0%		<u> </u>			
					omes				
Remem	ber and	l recall	the va	rious concep	ts of cost a	ccounting			
Examin	e the di	ifferent	metho	ods of calcula	ting labou	r cost.			
Critical	ly evalu	ate the	appor	rtionment of	Overheads				
	To und To pred To gai To fan To kno Introdu Definiti Accoun Manage Classifi Cost SI Prepara Cost an Materia Materia Specific Labour Direct I Calcula Incentiv Overthe Apporti and Sec absorpt Machin RY 20% Remem Demona Analyse Examin	To understand To prepare an To gain know To familiarize To know the Inisite: Should I Introduction of Definition-Nat Accounting a Management Classification of Cost Sheet and Preparation of Cost and Finant Material Cost Material Cost Material Contr EOQ —Stores Materials —Me Specific Price Labour Costin Direct Labour Calculation of Incentives — Incentive — Ince	To understand the various To prepare and record To gain knowledge of To familiarize with the To know the apportinisite: Should have state: Should	To understand the various To prepare and reconcile To gain knowledge regard To familiarize with the dir To know the apportionmentisite: Should have studied Introduction of Cost Acco Definition-Nature and Scop Accounting and Financia Management Accounting Classification of Costs—Cost Cost Sheet and Methods of Preparation of Cost Sheet—Cost and Financial Account Material Costing Material Control — Meaning EOQ —Stores Records — R Materials —Methods of Issu Specific Price Method — Sir Labour Costing Direct Labour and Indirect Calculation of Wage Payr Incentives — Different Met Overtime — Labour Turnove Overheads Costing Overheads Costing Overheads — Definition Apportionment of Overhea and Secondary Distribution absorption Preparation of Machine Hour Rate — Comp RY 20% & PROBLEMS 86 Remember and recall the various valuation Examine the different methology.	To understand the various concepts of control To prepare and reconcile Cost accounts. To gain knowledge regarding valuation. To familiarize with the different method. To know the apportionment of Overhead isite: Should have studied Commerce in the control To know the apportionment of Overhead isite: Should have studied Commerce in the control To know the apportionment of Overhead isite: Should have studied Commerce in the control To know the apportionment of Overhead isite: Should have studied Commerce in the control To know the apportion and Scope — Principle Accounting and Financial Accounting — Installation Classification of Costs — Cost Centre— Procest Sheet and Methods of Costing Preparation of Cost Sheet - Tenders & Cost and Financial Accounts — Unit Costing Material Costing Material Control — Meaning and Objectific EOQ — Stores Records — Reorder Levels Materials — Methods of Issue — FIFO — I Specific Price Method — Simple and Wein Labour Costing Direct Labour and Indirect Labour — To Calculation of Wage Payments — Timentives — Different Methods of Incentives — Different Methods of Incentives — Definition — Classification — Classification — Classification — Classification — Definition — Classification — Classification — Classification — Preparation — Coverheads — Basis of and Secondary Distribution — Absorption absorption Preparation of Overheads — Basis of and Secondary Distribution — Absorption absorption Preparation of Overheads — Computation of Machine Hour Rate — Computation of Machine Hour Rate — Computation and reconcity Analyse the various valuation methods of Examine the different methods of calculation in the different methods of calculation	Learning Objectives To understand the various concepts of cost account. To prepare and reconcile Cost accounts. To gain knowledge regarding valuation methods of To familiarize with the different methods of calcutor. To know the apportionment of Overheads. Introduction of Cost Accounting Definition-Nature and Scope – Principles of Cost Accounting and Financial Accounting - Cost Management Accounting – Installation of Cost Sheet and Methods of Costing Preparation of Cost Sheet - Tenders & Quotations Cost and Financial Accounts – Unit Costing-Job Compared to Cost and Financial Accounts – Unit Costing-Job Compared to Cost Sheet and Methods of Costing Material Costing Material Costing Material Costing Material Costing Material Costing Direct Labour – Meaning and Objectives – Purce EOQ – Stores Records – Reorder Levels – ABC of Materials – Methods of Issue – FIFO – LIFO – Base Specific Price Method – Simple and Weighted Ave Labour Costing Direct Labour and Indirect Labour – Time Keepi Calculation of Wage Payments – Time Wages Incentives – Different Methods of Incentive Paymovertime – Labour Turnover - Meaning, Causes and Overheads Costing Overheads – Definition – Classification – Apportionment of Overheads – Basis of Apportion and Secondary Distribution - Absorption of Overheads Distribution Preparation of Overheads Osting Overheads Proportion Preparation of Overheads Distribution	To understand the various concepts of cost accounting.	To understand the various concepts of cost accounting.	

	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

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

3 – Strong, 2- Medium, 1- Low

CORE - X: BANKING LAW AND PRACTICE

Subject	т	Т	В	C	Cuadita	Inst.		Marks				
Code	L	Т	P	S	Credits	Hours	CIA	External	Total			
	5				4	5	25	75	100			
				L	earning Obj	ectives						
LO1	To hel	p the s	student	s unde	erstand vario	us provisio	n of Bank	ing Regulat	ion Act			
	1949 a	pplical	ole to b	anking	g companies	including c	ooperative	banks				
LO2					entral bank c			central bank	ing			
1.00	-	system around the world and their roles and function										
LO3		Fo throw light on Central Bank in India, its formation, nationalizing its organization structure, role of bank to government, role in promoting										
	_					_		ole in pro	omoting			
	agrıcul	lture ar	id indu	stry, ro	ole in financi	al inclusioi	1					
LO4	Толин	Jorgton	d how	oonito1	fund of com	margial be	nka object	ives and pro	pagg of			
LO4	Asset s			_	Tuild of Con	iiiiCiCiai ba	iliks, object	ives and pre	JCC88 01			
LO5					ring systems	relationsh	in of hank	ers and cus	tomers			
	-	-			rsement etc.	Telationsii	ip or ounk	crs and cas	tomers,			
	•100011	15 01 01	ieques,	, ender	Content	ts.			No. of			
Unit						·~			Hours			
	Introd											
					visions of Ba							
I	Components of Indian Banking - Indian Banking System-Phases of Development - Banking Structure in India - Public Sector Banks,											
1	Private Banks, Foreign Banks, RRB, UCB, Payment Banks and Small											
	Financ	e Bank	ks - Ba	nking	System – Br	anch Bank						
					cial Inclusion							
					nercial Bank on –Need -		Control D	onking Va				
			-		nctions of Ce	-		_				
II					efinition - Fu				15			
					tal banking -							
				onomi	c Developme	ent.						
	Banki	0		CAS	Λ T. v	of Done	ita On-	ning Danle				
					A - Types a - Account S							
				-								
III	e-statement - Banker Customer Relationship - Special Types of Customers –KYC norms.											
	Loans & Advances –Lending Sources- Lending Principles-Types of											
					ssets and in	-		_				
					Reverse Rep	o Rate - s	ecurities o	t lending-				
	ractor	s iniiue	encing	оапк 16	ending.							

IV	Negotiable Instruments Act Negotiable Instruments – Meaning & Definition – Characteristics - Types of negotiable instruments. Crossing of Cheques – Concept - Objectives – Types of Crossing - Consequences of Non-Crossing. Endorsement - Meaning-Components-Kinds of Endorsements-Cheques payable to fictitious person Endorsement by legal representative – Negotiation bank-Effect of endorsement-Rules regarding Endorsement. Paying banker - Banker's duty - Dishonouring of Cheques- Discharge by paying banks - Payments of a crossed cheque - Refusal of cheques Payment. Duties of Collecting Banker-Statutory protection under section 131-Collecting bankers' duty –RBI instruction – Paying Banker Vs Collecting Banker- Customer Grievances- Grievance Redressal – Banking Ombudsman.	15
V	Digital Banking Meaning- Services - e-banking and financial services- Initiatives- Opportunities - Internet banking Vs Traditional Banking Mobile banking-Anywhere Banking-Any Time Banking- Electronic Mobile Wallets. ATM — Concept - Features - Types Electronic money-Meaning-Categories-Merits of e-money - National Electronic Funds Transfer (NEFT), RTGS, IMPS, UPI and Digital currency — Differences - Safety and Security in Digital Banking.	15
	TOTAL	75
	Course Outcomes	- 4
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, nationalist organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion	zing its
CO4	Evaluate the role of capital fund of commercial banks, objectives and pro- Asset securitization etc	ocess of
CO5	Define the practical banking systems relationship of bankers and custom crossing of cheques, endorsement etc.	ners,
	Textbooks	
1	Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publ Chennai	ication,
2	Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall Ind Learning Private Ltd, New Delhi	lia
3	Gupta P.K. Gordon E.Banking and Insurance, Himalaya publication, Kol	lkata
4	Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication	n, Delhi
5	K P Kandasami, S Natarajan & Parameswaran, Banking Law and Practic Chand publication, New Delhi	ee, S
1	Reference Books	
1	B. Santhanam, Banking & Financial System, Margam Publication, Chem	
2	KataitSanjay, Banking Theory and Practice, Lambert Academic Publishi	•
3	Henry Dunning Macleod, The Theory And Practice Of Banking, Hard Pr Publishing, Old New Zealand	ress

4	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/									

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

3 – Strong, 2- Medium, 1- Low

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

CORE - XI: INCOME TAX LAW AND PRACTICE- I

Subject		T	ъ	0	C 1'4	Inst.		Ma	rks		
Code	L	T	P	S	Credits	Hours	CIA	Ext	ernal	Total	
	5				4	5	25	,	75	100	
	·			L	earning Obj	ectives					
LO1	To uno	ome '	Tax Act,1961.								
LO2	To cor	ence	of tax.								
LO3	To compute the residential status of an assessee and the incidence of tax To compute income under the head salaries.										
LO4	To learn the concepts of Annual value, associated deductions and the calculation of income from House property.										
LO5	To co	nside	ring it	s basic							
	princip										
Prerequis	ite: Sho	ould ha	ve stud	lied Co	ommerce in X	XII Std					
Unit					Contents					o. of	
									Н	ours	
I	Introduction to Income Tax — History — Objectives of Taxation — Features of Income Tax — Meaning of Income — Types — Important Definitions Under the Income Tax Act — Types of Assessee — Income exempted under Section 10.									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	
	Incom	e fron	ı Salar	y				Ī			
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 in Lieu of Salary - Computation of Salary Income.								15		
IV	Incom - Gros to be	e from ss Ann let	ual Val out S	Prope ue, Ne elf-Oc	oerty erty –Basis of et Annual Vaccupied Pro- om House Pr	lue - Let-c perty —	out vs Deer	ned]	15	

	Profits and Gains from Business or Profession									
	Income from Business or Profession – Allowable Expenses –									
	Expenses Disallowed - General Deductions - Depreciation -									
	Undisclosed Income & Investments, Unexplained expenditure									
V	(Sec 69A, 69B, 69C, 69D) - Compulsory Maintenance of	15								
	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.									
	TOTAL	75								
THEOD	Course Outcomes									
THEOR	RY 20% & PROBLEMS 80% Demonstrate the understanding of the basic concepts and definition	ng under the								
CO1	Income Tax Act.	iis under the								
CO2	Assess the residential status of an assessee& the incidence of tax.									
CO3	Compute income of an individual under the head salaries.									
CO4	Ability to compute income from house property.									
CO5	Evaluate income from a business carried on or from the practice of	f a Profession.								
	Textbooks									
1	V.P. Gaur, Narang, Puja Gaur and Rajeev Puri - Income Tax Law and Practice,									
	Kalyani Publishers, New Delhi.									
2	T.S. Reddy and Hariprasad Reddy, Income Tax Law and Practice, Margham Publications, Chennai.									
	DinkarPagare, Income Tax Law and Practice, Sultan & Chand Sons, New									
3	Delhi.									
4	H.C. Mehrotra, Dr.Goyal S.P, Income Tax Law and Accounts, Sahitya Bhavan									
	Publications, Agra.	· , T · · , 1								
5	T. Srinivasan – Income Tax & Practice –Vijay Nicole Imprints Pr Chennai.	ivate Limited,								
	Reference Books									
1	Hariharan N, Income Tax Law & Practice, Vijay Nicole Imprints	Pvt. Ltd.								
1	Chennai									
2	Bhagwati Prasad, Income Tax Law and Practice, Vishwa Prakasai	n. New Delhi.								
3	Vinod K. Singhania, Students Guide to Income Tax., U.K. Bhargha									
4	Dr. Vinod K Singhania, Dr. Monica Singhania, Taxmann's Studen	ts' Guide to								
	Income Tax, New Delhi.									
	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Pra	ctice, Sultan								
5	& Chand Sons, New Delhi.									
NOTE:	Latest Edition of Textbooks May be Used									
	Web Resources									
1	https://cleartax.in/s/residential-status/									
2	https://www.legalraasta.com/itr/income-from-salary/									
3	https://taxguru.in/income-tax/income-house-properties.html									

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

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

CORE -XII : AUDITING & CORPORATE GOVERNANCE

Subjec	t L	Т	P	S	Credits	Inst.		Marks						
Code	L	1	r	3	Credits	Hours	CIA	Exter	rnal	Total				
	5				4	5	25	75	5	100				
		•	•	L	earning Obj	ectives		•						
LO1	To ena	able stu	dents t	o unde	erstand proce	ss of auditi	ng and its c	lassific	ation	١.				
LO2					ternal check									
LO3	To illustrate the role of auditors in company. To halp students understand the framework, theories and models of Corporate													
LO4	To help students understand the framework, theories and models of Corporate Governance													
	Governance. To provide insights into the concept of Corporate Social Responsibility													
LO5								onsibi	lity					
Prerequ	<u>isite: S</u>	hould l	have st	udied	Commerce	in XII Std								
Unit					Contents					o. of				
	T4 J.	49	4- 41	•4•					Н	ours				
	Introdu				of Auditin	na Diatis	action bot	u.con						
					or Additil g – Object									
	Limitat		15											
				_	ses and Non–			arts						
					cumentation	<u> </u>								
						ocedures -	Internal A	udit -						
	Audit Planning – Audit Programme – Procedures - Internal Audit - Internal Control – Internal Check System – Vouching – Cash and									15				
	Trade Transactions - Verification of Assets and Liabilities and its													
	Valuati													
	Compa													
	Appoin		1.5											
	Liabilit	_		15										
	Information Systems Audit (ISA) – Auditing around the computer – Auditing through the computer - e-audit tools.													
					puter - e-auc e Governanc									
							ce: Theorie	es &						
	Conceptual Framework of Corporate Governance: Theories & Models, Broad Committees - Corporate Governance Reforms.													
	Major Corporate Scandals in India and Abroad: Common									15				
	Governance Problems Noticed in various Corporate Failures.													
	Introduction to Environment, Social and Governance (ESG - Code													
	of Conduct – Directors and Auditors													
	Corpoi			-	•									
			-		Philanthrop									
V	CSR with Corporate Sustainability - CSR and Business Ethics,									15				
			-			mance - CSR Provisions under the								
	-	nies Ac	et, 2013	3 (Sect	tion 135 sche	dule – VII). – CSR P	olicy						
	Rules				mom : =									
					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	NOTE: Latest Edition of Textbooks May be Used											
Web Resources												
1	https://www.wallstreetmojo.com/audit-procedures/											
2	https://theinvestorsbook.com/company-auditor.html											
3	https://www.investopedia.com/terms/c/corp-social-responsibility.asp											

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

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

3 – Strong, 2- Medium, 1- Low

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

Subjec	et L	\mathbf{T}	P	S	Credits	Inst.		Marks	KS	
Code	L	1	1	3	Credits	Hours	CIA	Externa	al Total	
	4				3	4	25	75	100	
]	Learning Ob	jectives				
LO1	To intr	oduce	the co	ncept	of financial r	nanagement				
LO2	To learn the capital structure theories.									
LO3					t techniques is		dgeting			
LO4	_				payment mod					
LO5					and calculation			in an orga	anization.	
Prerequ	isites: S	<u>hould</u>	have	studi	ed Commerc		1			
Unit					Contents				No. of	
	T . 1	4•							Hours	
	Introd			. •	0.77:	3.6	. 5			
		tions of								
I		Role of								
1		ion Vs.	12							
	Wealth									
	Return	– Con	pone	nts of	Financial Ma	nagement.				
	Financ	ial De	cision	ì						
	Capital	Struc	cture	- D	efinition - N	Meaning- T	heories-	Factors		
	determ	Capital								
	structu	re								
II	Cost of	f Capit	al – N	Meani	ng – Factors	determining	cost of c	capital -	12	
	Method	ds - Co	ost of	Equi	ty Capital – (Cost of Pre	ference C	apital –		
		age (or)								
		ncept –								
	-				• `	,	,	1		
	Operating and Financial Leverage									

III	Investment Decision Capital Budgeting - Meaning - Process - Cash Flow Estimation Capital Budgeting Appraisal Methods: Traditional Methods - Payback Period - Accounting Rate of Return (ARR). Discounted Cash-flow Methods: Net Present Value (NPV) - Internal Rate of Return - Profitability Index.	12						
IV	Dividend Decision Meaning – Dividend Policies – Factors Affecting Dividend Payment – Provisions on Dividend Payment in Company Law – Dividend Models - Walter's Model - Gordon's Model – M&M Model.	12						
V	Working Capital Decision Working Capital - Meaning and Importance - Classification - Working Capital Cycle - Factors Influencing Working Capital - Determining Working Capital - Management of Current Assets: Inventories, Accounts Receivables and Cash.	12						
	TOTAL	60						
THEOF	RY 40% & PROBLEMS 60%							
	Course Outcomes							
CO1	Recall the concepts in financial management.							
CO2	Apply the various capital structure theories.							
CO3	Apply capital budgeting techniques to evaluate investment proposals.							
CO4	Determine dividend pay-outs.							
CO5	Estimate the working capital of an organization.							
	Textbooks							
1	R.K. Sharma, Shashi K Gupta, Financial Management, Kalyani Publi New Delhi.	cations,						
2	M.Y. Khan and P.K.Jain, Financial Management, McGraw Hill Educ Noida.	ation,						
3	I.M. Pandey, Financial Management, Vikas Publications, Noida.							
4	Dr.S.N. Maheshwari, Elements of Financial Management, Sultan Cha Sons, New Delhi.	and &						
5	Dr.Kulkarni and Dr. Sathya Prasad, Financial Management, Himalay Publishing House, Mumbai.	a						
	Reference Books							
1	Prasana Chandra, Financial Management, Tata McGraw Hill, NewDo	elhi.						
2	I.M. Pandey, Financial Management, Vikas Publishing, Noida.							
3	Khan & Jain, Financial Management, Sultan Chand &Sons, New Del	hi.						

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

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

3 – Strong, 2- Medium, 1- Low

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

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

Subject Code	ct ,	r	т	P	C	Credits	Inst.	Marks				
Code	, 1		1	Г	3	Credits	Hours	CIA	External	Total		
	4	4				3 4 25 75		75	100			
	Learning Objectives											
LO1	LO1 To get introduced to indirect taxes											
LO2	LO2 To have an overview of Indirect taxes											

LO3	To be familiar the CGST and IGST Act	
LO4	To learn procedures under GST	
LO5	To gain knowledge about Customs Duty.	
Prerequ	isite: Should have studied Commerce in XII Std	
Unit	Contents	No. of Hours
I	Introduction to Indirect Tax Concept and Features of Indirect Taxes - Difference between Direct and Indirect Taxes - Special Feature of Indirect Tax Levies - Contribution to Government Revenues - Role of Indirect Taxation - Merits and Demerits of Indirect Taxation - Reforms in Indirect Taxation - Introduction to Foreign Trade Policy (FTP) 2023	12
II	An Overview of Goods & Service Tax (GST) Introduction of Goods and Service Tax in India— Kelkar Committee - Constitutional Amendment - Goods and Service Tax: Concepts, Meaning, Significance, Features and Benefits - Important GST Common Portals — Taxes and Duties not Subsumed in GST — Rates of GST in India - Role of GSTN in Implementation of GST - Challenges in Implementation of GST.	12
III	CGST & IGST Act 2017 Supply – Meaning – Classification – Time of Supply – Valuation –Voluntary – Compulsory – Input Tax Credit – Eligibility – Reversal – Reverse charge Mechanism – E–Way Bill - Various Provisions Regarding E-way Bill in GST – IGST Act - Export and Import of Goods and Services– Inter State Vs Intra State Supply – Place of Supply. – Anti Profiteering Rules – Doctrine of Unjust Enrichment	12
IV	Procedures under GST Registration under GST Law, Tax Invoice Credit and Debit Notes, Different GST Returns, Electronic Liability Ledger, Electronic Credit Ledger, Electronic Cash Ledger, Different Assessment under GST, Interest Penalty under GST, Mechanism of Tax Deducted at Source (TDS) and Tax Collected at Source (TCS), Audit under GST.	12
V	Customs Act 1962 Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules &Exemptions.	12
	TOTAL	60
CO1	Course Outcomes	
CO1	Acquaintance with Indirect tax laws	
CO2	Exposed to the overview of GST. Apply provisions of CGST and IGST.	
CO3	Apply provisions of CGST and IGST	
CO4	Summarise procedures of GST	
CO5	Discuss aspects of Customs Duty in India	
	Textbooks	11 '
1	Vinod K Singhania, Indirect Taxes, Taxman's Publications, New Do	elhı.

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							
3	Delhi.							
4	CA. Pushpendra Sisodia, Indirect Tax Laws, Bharat Publications, New Delhi.							
	Reference Books							
1	V.S.Datey, All About GST, Taxmann Publications, New Delhi.							
2	T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications,							
2	Chennai.							

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

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

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

Subje		L	Т	ТР		Credits	Inst.		Marks	
Cod	le				S		Hours	CIA	External	Total
		2		2		3	3 4 25 75		75	100
Learning Objectives										
LO1	LO1 To introduce the software development life cycles									
LO2	LO2 To introduce concepts related to structured and objected oriented analysis & design co									
LO3				n insi	ght in	to UML and s	software test	ing techn	iques	
Prereq	uisite	: Sho	ould l	have s	studie	d Commerce	e in XII Std			
Unit						Conten	ts			No. of Hours
I	Introduction – Evolution – Software Development projects – I Emergence of Software Engineering.Software Life cycle models – Waterfall model – Rapid Application Development – Agile Model – SpiralModel									
II	Req	uiren	nent 1			nd Specificati ecification	on – Gathe	ring and	Analysis –	
III	– La Fund	yered ction	d desi Orie	gn - I	Appro Design	iew – Charac paches n – Structure				
IV	Object case	ect M	lodeli ss, In	ng us	ing U	ML – OO cor	ncepts – UM	[L – Diag	rams – Use	
V	Blac	k-bo	x, Wl	_	ox, In	ing – Reviev tegration, g.	v – Docume	entation -	- Testing –	
						TOTA	Ĺ			
						Course Out	tcomes			
CO1				shoul g tool		ble to specify	software re	quiremen	ts, design th	e
CO2	То	write	e test	cases	using	different test	ing techniqu	ies.		
						Textboo	oks			

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

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

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

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

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

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

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

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

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

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

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

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

Subjec		Т	P S C		Credits	Inst.	Marks			
Code						Hours	CIA	External	Total	
	2		2		3	4	25	75	100	
	1		ı		Learning Ob	jectives	I			
LO1	LO1 To make aware of the software requirements, design the software using tools									
LO2	LO2 To be acquainted with the writing of test cases using different testing techniques.									

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

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

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

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

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

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

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

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

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

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

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

Skills acquired from	the	Knowledge,	Problem	Solving,	Analytical	ability,	Professional
Course		Competency,	Professiona	1 Communi	cation and Tr	ansferrabl	e Skill

Learning Resources:

Recommended Texts

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

Reference Books

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

THIRD YEAR – SEMESTER - VI

CORE -XIII: COST ACCOUNTING - II

				<u>CC</u>	KE –AIII; C	OSI ACCO	51 11111 - 11	i				
Subjec	t L	Т	P	S	Credits	Inst.		Marks				
Code	L	1	r	3	Credits	Hours	CIA	External	Total			
	6				4	6	25	75	100			
				L	earning Obj	ectives						
LO1												
LO2	To kno	ow the	concep	ots of c	ontract costi	ng.						
LO3	To be	familia	r with	the cor	ncept of proc	ess costing						
LO4	To lear	rn abou	ıt opera	ation c	osting.							
LO5	To gai	n insig	hts into	stand	ard costing.							
	_				Cost Accou	nting in V	Sem					
Unit	Contents								lo. of lours			
I	Cost Accounting Standards An Introduction to CAS – Purpose of CAS – Advantages of CAS – Difference between CAS and FAR Regulations – Different Degrees of CAS Coverage – Cost Accounting Standards - Responsibility Accounting and Divisional Performance Measurement.											
II	Job Costing, Batch Costing and Contract Costing								18			
III	Applic Proces Treatm Abnor	s Cost eation of s Cost nent of mal Ga	ing – Nof Proc ting – Loss a	ess Co Prepand Ga oncept	g – Features sting – Fund aration of in : Normal t of Equivale	lamental Pr Process A and Abnor	rinciples of accounts - mal Loss -		18			

IV	Operation Costing Operation Costing — Meaning — Preparation of Operating Cost Sheet — Transport Costing — Power Supply Costing—Hospital Costing—Simple Problems.	18					
V	Standard Costing and Variance Analysis Definition — Objectives — Advantages — Standard Cost and Estimated Cost — Installation of Standard Costing System — Variance Analysis — Material, Labour, Overhead, and Sales Variances — Calculation of Variances.	18					
THE C	TOTAL	90					
THEO	RY 20% & PROBLEMS 80%						
CO1	Course Outcomes Remember and recall standards in cost accounting						
CO1	Remember and recall standards in cost accounting						
CO2	Apply the knowledge in contract costing						
CO3	Analyze and assimilate concepts in process costing	4					
CO4	Understand various bases of classification cost and prepare operating cost statement.						
CO5	Set up standards and analyse variances.						
	Textbooks						
1	Jain S.P. and Narang K.L. Cost Accounting. Kalyani Publishers. New						
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 pu New Delhi.	ıblications,					
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham p Chennai.	oublications,					
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Del	hi.					
	Reference Books						
1	Polimeni, Cost Accounting: Concepts and Applications for Manager Making, New York, McGraw–Hill, Noida.	ial Decision					
2	Jain S.P. and Narang K.L. Cost Accounting, Kalyani Publishers, New	w Delhi.					
3	V.K.Saxena and C.D. Vashist, Cost Accounting, Sultan Chand publi Delhi.	cations, New					
4	Murthy A &Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pv Chennai.	t. Ltd.					
5	Prasad. N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Bar	ngladesh.					
NOTE:	Latest Edition of Textbooks May be Used						
	Web Resources						
1	https://www.economicsdiscussion.net/cost-accounting/contract-costi	ng/32597					
2	https://www.wallstreetmojo.com/process-costing/						
3	https://www.accountingnotes.net/cost-accounting/operating-costing/	17755					

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

CO1	3	3	3	2	3	3	3	3	3	2	2
CO2	3	3	3	2	2	3	2	2	3	2	3
CO3	3	3	3	2	3	3	3	3	3	2	2
CO4	3	3	3	2	2	3	2	2	3	2	2
CO5	3	3	3	2	3	3	3	3	3	2	3
TOTAL	15	15	15	10	13	15	13	13	15	10	12
AVERAG E	3	3	3	2	2.6	3	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

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

CORE – XIV: MANAGEMENT ACCOUNTING

Subje	ct _T	Т	D	C	Cwadita	Inst.		Mark	S	
Code		1	P	S	Credits	Hours	CIA	Exter	nal	Total
	6				4	6	25	75		100
					earning Obj					
LO1	To und	derstan	d basic	s mana	gement acco	ounting				
LO2					ancial States					
LO3	To fan	niliariz	e with	fund fl	ow and cash	flow analy	rsis			
LO4	To lea	rn abou	ıt budg	etary c	ontrol					
LO5	To gai	n insig	hts into	margi	inal costing.					
Prereq	uisite: S	hould l	nave st	udied	Financial A	ccounting	in I Semes	ter.		
Unit			No. of Hours							
I	Introduction to Management Accounting Management Accounting — Meaning — Scope — Importance- Limitations - Management Accounting Vs Cost Accounting — Management Accounting Vs Financial Accounting. Analysis and Interpretation of Financial Statements — Nature and Significance — Types of Financial Analysis — Tools of Analysis — Comparative Statements — Common Size Statement — Trend Analysis.									
II	Ratio A Ratio A Ratios -	analysi analysis - Liqui ay Ra	s: Mean dity Ra tios –	itios – Levera	Advantages Profitability age Ratios -	Ratios -Tu	ırnover Rat	ios –		18

III	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 Operating, Financing and Investing activities	18
IV	Budget and Budgetary Control Meaning – Preparation of Various Budgets – Cash Budget - Flexible Budget– Production Budget – Sales Budget – Master Budget – Budgetary Control – Benefits	18
V	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.	18
	TOTAL	90
	RY 20% & PROBLEMS 80%	
CO	Course Outcomes	
CO1	Remember and recall basics in management accounting	
CO2	Apply the knowledge of preparation of Financial Statements	
CO3	Analyse the concepts relating to fund flow and cash flow	
CO4	Evaluate techniques of budgetary control	4 :
CO5	Formulate criteria for decision making using principles of marginal c	osung.
	Textbooks	
1	Jain S.P. & Narang K.L. (2018) Cost and Management Accounting, Publications,	•
2	Rds. Maheswari, Cost and Management Accounting, Sultan Chand S Publications, New Delhi.	
3	Sharma and Shashi K. Gupta, Management Accounting, Kalyani Pub Chennai.	
4	Jenitra L Mervin ,Daslton L Cecil, Management Accounting, Lerante Chennai.	ec Press,
5	T.S.Reddy& Y. Hari Prasad Reddy, Management Accounting, MarghamPublications, Chennai.	
	Reference Books	
1	Chadwick – The Essence of Management Accounting, Financial Tin Publications, England.	
2	Charles T.Horngren and Gary N. Sundem–Introduction to Manageme Accounting, Pearson, Chennai.	ent
3	Murthy A and GurusamyS, Management Accounting- Theory & Prac Nicole Imprints Pvt. Ltd. Chennai.	tice, Vijay

4	Hansen - Mowen, Cost Management Accounting and Control, South Western College, India.										
5	N.P. Srinivasan, Management Accounting, New Age publishers, Chennai.										
NOTE	NOTE: Latest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flow-analysis-accounting/13300										
2	https://accountingshare.com/budgetary-control/										
3	https://www.investopedia.com/terms/m/marginalcostofproduction.asp										

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - VI

CORE - XV: INCOME TAX LAW AND PRACTICE - II

Subject	t L	T	P	S	Credits	Inst.			rks			
Code		1	1	3	Credits	Hours	CIA		ternal	Total		
	6				4	6	25		75	100		
		_			earning Obj							
LO1					elating to cap							
LO2			•		r computation							
LO3		nılıarız Gross T		_	to set off an	id carry for	rward of los	sses a	and ded	luctions		
LO4	To lea	rn abou	ıt asses	sment	of individua	ls						
LO5	To gai	in know	ledge a	about a	issessment p	rocedures.						
Prerequ	isite: S	hould l	have st	udied	Financial A	ccounting	in I stSem	1				
Unit					Contents				No. of Hours			
I	Capital Gains Capital Assets – Transfer – Short term vs Long term capital assets - Computation of Capital Gains – Exemption under Section 54, 54B, 54D, 54EC, 54F, 54GA.											
II	Income From Other Sources & Clubbing of Income Chargeability - Computation of Income from Other Sources Deductions Allowed - Clubbing of Income - Concept									10		
	Gross 1	Γotal Iι	ncome		rd of Losse							
	80C, 8 80DDB	0CC, 8	80CCB 80EE	, 80C0	(Simple Pro CC, 80CCD EA, 80EEB nly.	, 80 CCE	, 80D, 80I	DD,	18			
IV	Compu		of Tota	l Inco	ome – Indivi me - Tax Li		an Individu	ıals	1	18		
V	Admini Powers for Ass Volunta Return	of CB sessmer ary Filin – Signi	of Ind DT - Int - Fing - Ring of Finds of Ring of Finds of Ring of Finds of Ring of Ri	come 'Powers' iling coeturn coeturn coeturn coeturn coeturn	Γax Act – In a of Income of Return – of Loss – Be – Permanent (26 AS)	Tax Offic Due Date lated Retu Account N	er - Proced es of Filing rn – Defect Number (PA	lure g – tive AN)	1	18		
					TOTAL					90		

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

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

3 – Strong, 2- Medium, 1- Low

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

Subject		Т	Ъ	C	C 114-	Inst.		Marks					
Code	L	1	P	S	Credits	Hours	CIA	External	Total				
	5				3	5	25	75	100				
				L	earning Obj	ectives							
LO1	To know the meaning and characteristics of entrepreneurship To identify the various business opportunities												
LO2	To ider	tify tl	he var	ious l	ousiness oppo	rtunities							
LO3	To und	o understand the Process of setting up an enterprise											
LO4	To gain	To gain knowledge in the aspects of legal Compliance of setting up of an											
	enterpr	enterprise											
LO5	To dev	elop a	n und	erstar	nding of the r	ole of MSM	IE in eco	nomic grow	th				
Prerequisi	te: Shou	ıld ha	ve sti	ıdied	Commerce	in XII Std							
Unit					Content	s			No. of				
]	Hours				
				-		C1	,						
		\sim											
I	Entrepreneurship – Types of Entrepreneurship – Self Employment – Difference between Entrepreneurship and Employment –												
					-	-							
		_				Ciassificat	ion – rui	icuons –					
I	Meanin Entrepri – Diff Meanin	ng reneur rerencing of	of ship – e bet Entrep	Entre Type ween prene		eneurship – urship and	Employ	ics of bloyment //ment –	15				

II	Design Thinking Idea Generation – Identification of Business Opportunities – Design Thinking Process – Creativity – Invention – Innovation – Differences – Value Addition – Concept and Types – Tools and Techniques of Generating an Idea – Turning Idea into Business Opportunity.	15
III	Setting up of an Enterprise Process of Setting Up an Enterprise – Forms of an Enterprise – Sole Proprietorship – Partnership – Limited Liability Partnership Firm – Joint Stock Company – One Man partnership – Choice of Form of an Enterprise –Feasibility Study – Marketing, Technical, Financial, Commercial and Economical.	15
IV	Business Model Canvas and Formulation of Project Report Introduction – Contents of Project Report – Project Description – Market Survey – Fund Requirement – Legal Compliance of setting Up of an Enterprise – Registration – Source of Funds – Modern Sources of Funds.	15
V	MSME's and Support Institutions Government Schemes and Women Entrepreneurship – Importance of MSME for Economic Growth – MSME – Definition – Role of Government Organizations in Entrepreneurship Development – MSME DI – DIC – Khadi and Village Industries Commission – NSIC – NABARD, SICVI, SFC, SDC, EDII, EPCCB. Industrial Estates – Government Schemes – Prime Minister Employment Generation Programme – Women Entrepreneurship in India.	15
	TOTAL	75
	Course Outcomes	
CO1	Identify the various traits of an entrepreneur	
CO2	Turn ideas into business opportunities	
CO3	Do feasibility study before starting a project	
CO4	Identify the sources of funds for funding a project	
CO5	Develop an understanding about the Government schemes available for entrepreneurs	or women
	Textbooks	
1	Jayashree Suresh, (Reprint 2017) Entrepreneurial Development, Marg Publications. Chennai.	ham
2	Dr. C.B. Gupta &Dr. S.S. Khanka (Reprint 2014). Entrepreneurship A Business Management, Sultan Chand & Sons, New Delhi.	nd Small
3	Charantimath Poornima, (Reprint 2014.), Entrepreneurship developme Pearson Education, India.	ent-Small,
4	RajShankar,(Reprint2016),EntrepreneurshipTheoryandPractice,Vijayl Imprints Pvt. Ltd, Chennai.	Nicoleand
5	Vasant Desai, (Reprint 2017). Dynamics of Entrepreneurial Developm Management Twenty Fourth Edition. Himalaya Publishing House. Mu	

	Reference Books
1	Anil kumar, Poornima, Principles of Entrepreneurial development, Newage publication, Chennai.
2	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	2: 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/

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

3 – Strong, 2- Medium, 1- Low

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

<u>DISCIPLINE SPECIFIC ELECTIVE – 6 /6: HUMAN RESOURCE MANAGEMENT</u>

Subjec	et L	T	P	S	Credits	Inst.		Marks	
Code		1	Г	3	Credits	Hours	CIA	A External Tot	
	5				3	5	25	75	100
Learning Objectives									
C1	C1 To explore to the aspects relating of Human resource management								
C2	Toequip with the various processes of Recruitment and Selection								
С3	To be Apprai		inted	with	Training me	ethods and	the conc	ept of Perf	formance
C4	To lear	n abou	ıt Indi	ıstrial	Relations				
C5	To assimilate knowledge on employee welfare.								
Prerequ	isite: Sl	ould l	nave 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 p requirements and implement techniques of job design.	ower
CO2	Formulate action plans for employee Recruitment and Selection.	
CO3	Choose appropriate methods of Trainning	
CO4	Estimate, defend and handle legal compliance in HRM involving trade union disputes and employee retention.	
CO5	Formulate strategies for employee welfare.	
	Textbooks	
1	Ashwathappa, Human Resource Management, Tata McGraw-Hill Edi Noida.	ucation,
2	Mamoria, C.B. and Gaonkar, S.V, Personnel Management, Himalaya Publishing House, Mumbai.	
3	Sunil Lalla and Neha Shukla, Human Resource Management, Nirali F Publishers, Pune.	
4	P.Subba Rao, Personnel and Human Resource Management, Himalay Publishing House, Mumbai.	a
	Reference Books	
1	L.M. Prasad, Human Resource Management, Sultan and Chand sons Publications, New Delhi.	
2	DeCenzo, D.A. and Robbins, S.P Human Resource Management, Wil	ley, India.
3	Dr.K.Sundar and Dr.J Srinivasan, Human Resource Development, Ma Publications, Chennai.	argham
4	Jane Weightman, Human Resource Management, VMP Publishers, N	Iumbai.
NOTE:	Latest Edition of Textbooks May be Used	
	Web Resources	
1	https://hr.university/shrm/strategic-human-resource-management/	
2	https://www.investopedia.com/terms/c/collective-bargaining.asp	
3	https://www.yourarticlelibrary.com/human-resource-management-2/ewelfare/employee-welfare/99778	mployee-

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.2

3 – Strong, 2- Medium, 1- Low

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

Subject	L	Т	P	S	Credits	Inst.		Marks		
Code						Hours	CIA	External	Total	
		2	3		3	5	25	75	100	
	l		ı	L	earning Obj	ectives		1		
LO1	Acquir	Acquire programming skills in core R Programming								
LO2	Acquir	e Obje	ect-or	iented	l programmin	ıg skills in F	R Progran	nming.		
LO3	Develo Prograi	-		ll of	designing	graphical-u	ser inter	faces (GUI)	in R	
LO4	Acquir	e R Pı	rogran	nming	g skills to mo	ove into spe	cific brar	nches		
Prerequis	ite: Shou	ıld ha	ive sti	ıdied	Commerce	in XII Std				

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

THIRD YEAR – SEMESTER - VI

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

Subject	L	Т	P	S	Credits	Inst.		Marks				
Code				S Credits		Hours	CIA	External	Total			
		2	3		3	5	25	75	100			
				L	earning Obj	ectives		1				
LO1 Prerequisi	compute complete application	terized etion utions.	d fina of fi	ncial nanci	real account records for al statement Commerce List of Exer	eachstep of s, as well	the acco	ounting cycle	e to the			
	 3. 4. 7. 8. 9. 	loss a Intered ledge Receibill w Cost ledge payaband journ Budge deleti Introd Trans GST Recoid Good Electron Source Tax (Cost District Material Act, (Cost Cost Cost Cost Cost Cost Cost Cost	r mas ivable vise de Centrers an ole, in fund als, opet Buston of duction of duction of ce (TC Credit ibutor hing oble Po Overv Porta	nts, Bample, ter, Inter, Inter	Frial Balance alance sheet compound terest report. payable man alltypes of ed Category soup breakup t receivable v daybook l vouchers. ary control ary ledgercreet. Of GST, Gout tax to Gout tax Creeks, Annual Rete Cother Provision oduction, GS Uploading In	interest ca agement, matries ummary, co outstandin and payab- list of a creation of eation alter etting star ST,Interest Exports, In a filing, GS eduction, T E-commerce inportant Po dit, Returns urn, Overvons. T Eco-system	leulation neaning a st centre g receive ole, statistic count of budge ration of ted with supply comports, ET tax pay ax Coll ce Operations, Inputs, GSTRiew of teleview of tel	breakup able and des, cash reversing t, group budget h GST, of goods, exempted rments ected at for, Input atService 2, Other he IGST				

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

THIRD YEAR – SEMESTER - VI

PROFESSIONAL COMPETENCY SKILL GENERAL AWARENESS FOR COMPETITIVE EXAMINATION

Subje	ect						Inst.		Marks					
Cod		L	T	P	S	Credits	Hours	CIA	External	Total				
		2				2	2	25	75	100				
	Learning Objectives													
LO1														
	experience for students as they grow into lifelong learners.													
LO2	To build experiences for students as they grow into lifelong learners.													
LO3	To know the basic concepts of various discipline													
Prereq	rerequisites: Should have studied Commerce in XII Std													
UNIT						Details	<u> </u>			No. of				
										Hours				
	Indi	an Po	olity											
						organs of I								
						ntroduction t								
I	1					Preamble, Fu		•		6				
	1				_	oles of Stat		• •						
	I					titution, Basi n and the state								
	-					ission, CAG.	es local Gov	ciliance,	Licenons in					
		grapl		1011 C	OIIIIII	1331011, 0710.								
	1	_	•	of the	e wo	rld –Importar	nt Canals –	Gulfs -	Straits and					
	Major oceans of the world –Important Canals – Gulfs – Straits and passes – Indian Rivers and its Tributaries – Climatology – Atmosphere,													
II	Wind systems, Clouds systems, World climatic classification – Indian									6				
11	I					– Indian's pl	•		• •	U				
	I				-	ance Trade ro	-	•						
					_	ılture- Major	crops and it	ts distribu	tion, Indian					
		stries		ts Dis	stribu	tion.								
	1	nomy		I.	flotic	n Manaya	nd Donking	A amigust	tura in India					
III						on – Money ar ving in India				6				
111	 Union Budget – Planning in India – Poverty – Unemployment – Inclusive Development and Development issues – Industrial polices – 													
	Financial Markets.													
	Hist													
	Mod	lern I	ndia -	- forn	nation	of Indian Na	ntional Cong	gress – M	orley Minto					
	1				-	ctivities – W			_					
IV						ontague Chel				6				
						nent – Simon								
	Civil Disobedience Movement and Round Table conferences – Quit													
	India Movement and Demand for Pakistan – Cabinet Mission –													
	Formation of Constituents Assembly and partition of India. Environment and Ecology													
						,,	- Food chair	n and food	d web – Bio					
V	Basic concepts – Ecology, Biodiversity- Food chain and food web – Bio Geo Chemical Cycles – International Bio Diversity organisations- International Conventions – Conferences and Protocol – Indian							6						
	Env	ironm	ental	laws	and E	nvironment F	Related orga	nisation						

	TOTAL	30								
	Course Outcomes									
CO1	Develop board knowledge of the different components in polity									
CO2	Understand the Geographical features across countries and in India									
CO3	Acquire knowledge on the aspects of Indian Economy									
CO4	Understand the significance of India's Freedom Struggle									
CO5	Gain knowledge on Ecology and Environment									

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

FIRST YEAR – SEMESTER – II Skill Enhancement Course (SEC) - 2 – INDUSTRIAL LAW

Subject	L	T	P	S	Credits	Inst.		Mark	rks		
Code						Hours	CIA	Exter	nal	Total	
	2				2	2	25	75	75		
					Learning O	bjectives					
LO1	To U	J nders t	and an	d appl	y the concept of	Factories Act					
LO2		To capable students to comprehend the legal framework governing Industrial Law to settle industrial disputes.									
LO3		expose kplace		ts to th	e principles rela	ting to health	and safety l	aws in the	e		
LO4	То е	explain	the rel	evant l	laws governing I	ESI Act 1948 a	nd EPF Act	1952.			
LO5	To k	know tł	ne deve	lopme	ent and the judici	al setup of Pa	yment of B	onus Act.			
Unit	Contents								No. of Hours		
I	Defin Emplo	Factories Act 1948: Definitions – Health – Safety – Welfare – Working Hours of Adults – Employment of Women – Employment of Young Persons – Leave with Wages.								6	
II	Defin	s trial D ition, A Retrenc	uthoriti	es, Aw	ards, Settlements,	Strikes Locko	uts, Lay			6	
III	Natu Liabil	re and S ity - Mo orary -	Scope - eaning	Definit of Acci	sation Act: cions - Workmen's dent Compensatio Compensation of	on Permanent -	Partial and			6	
IV	Object benefi	Employees State Insurance Act 194: Objects-definitions - ESI Corporation, functions - contribution and recovery benefits. Employees Provident Fund and Miscellaneous Provision Act, 1952 Objects-Definition - provident fund schemes contribution and recovery.								6	
V	Objec	ayment et – App ent of E	lication	ı - Defi	nitions - Methods	of Computing	Gross Profit	s -		6	
					TOTAL					30	

	Course Outcomes									
CO1	Remember and recall the various concepts of Factories act 1948.									
CO2	Demonstrate the. Provisions and concepts of Industrial Disputes Act, 1947.									
CO3	Analyse the various measures and policies in The Workmen's Compensation Act.									
CO4	Examine the different aspects of ESI and EPF Act.									
CO5	Critically evaluate the Case studies relating to Bonus Act.									

	Textbooks
1	N.D.Kapoor – Industrial Laws, Sultan Chand & Sons, New Delhi.
2	P.C.Tripathi - Industrial Laws, Sultan Chand & Sons, New Delhi
	Reference Books
1	Dr.M.R.Sreenivasan & C.D.Balaji - Industrial Laws & Public Relations, Margham Publications, Chennai.
2	B.Nandha Kumar, Industrial Laws, Vijay Nichole Prints, Chennai.
3	"Industrial Relations and Labour Laws " - S C Srivastava -Vikas Publishing
4.	"Industrial Relations and Labour Laws " - Piyali Ghosh and Shefali Nandan Tata McGraw Hill India
N	OTE: Latest Edition of Textbooks May be Used
	Web Resources
1	https://www.icsi.edu/media/webmodules/publications/7.%20Industrial,%20Labour%20and%20General%20Laws.pdf
2	https://www.mlsu.ac.in/econtents/1185_Industrial%20Relations%20and%20Labour%20Laws.pdf
3	https://sbs.ac.in/wp-content/uploads/2021/02/BBA-5th-IRLL-Complete-Notes updated1.pdf

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

FIRST YEAR – SEMESTER – II

SEC 3 — ADVERTISING

Cubiast Ca		L	Т	P	S	Cuadita	Inst.		Marks		
Subject Co	oae	L	1	P	3	Credits	Hours	CIA	External	Total	
		2				2	2	25	75	100	
Learning Objectives											
LO1 Understand the meaning, objectives, and scope of Advertising, as well as the benefits and elements of Advertising.											
LO2						types of Adve l learn how to					
LO3	LO3 Examine the ethical and social issues in Advertising, and understand the positive and negative influences of Advertising on Indian values and culture										
LO4						ation process as ity, and learn s				n developing	
LO5						als, copy elements			rinciples, exe	cution styles,	
Unit	Unit Contents No. of Hours										
I	I Introduction: Advertising meaning - Definition – objectives – scope - benefits – Elements - Media in Advertising.										

	Advertising Agency:								
II	Advertising agency Features - Types of Advertising Agencies - Agency	6							
	selection criteria - Maintaining Agency client- relationship.								
	Social And Economic Aspects of Advertising:								
	Social aspects: Ethical and social issues in Advertising, positive and								
III	negative influence of Advertising on Indian values and culture.								
	Economic aspect: Effect of Advertising on consumer demand,								
	monopoly and competition, price.								
	Brand Building:								
IV	The communication process-AIDA Model, role of advertising in developing	6							
	brand image and brand equity, and managingbrand crises.								
	Fundamentals of Creativity in Advertising:	6							
V	Essentials of copywriting, copy - elements - types -layout - principles	Ü							
	execution styles - Pretesting and post testing of Advertisements - methods and								
	objectives.								
	TOTAL	30							
	Course Outcomes								
CO1	Define advertising, analyze its objectives, evaluate its scope and benefits, and	identify							
CO1	media elements used in advertising.								
CO2	Differentiate types of advertising agencies, assess criteria for selecting agencie	es, and							
CO2	demonstrate effective client-agency relationship management.								
CO3	Analyze ethical and social issues in advertising, evaluate the impact of advertising	sing on							
	Indian values and culture.								
CO4	Explain the communication process and analyze advertising's role in brand but	llding and							
	Managing brand crises.	1. 1							
CO5	Apply effective copywriting techniques, identify copy elements and types, uti								
CO3	principles and execution styles, and conduct pre-testing and post-testing of adv	verusements.							

Textbooks										
1	Advertising Principles and Practice by Ruchi Gupta-, S.Chand Publishing. New Delhi.									
Reference Books										
1	Rathor, B.SAdvertising management-Himalaya Publishing House.									
2	Myers-Advertising management-PHI Norms-Advertising-PHI.									
3	Sontakki. C.N, Advertising, Kalyani Publishers, Ludhiana.									
4.	Brand Positioning-Strategies for competitive Advantage by Subroto Sengupta- TataMcGraw 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

