APPENDIX - AD

MADURAI KAMARAJ UNIVERSITY

(University with potential for excellence)

B.Com. Computer Application – Semester

CHOICE BASED CREDIT SYSTEM

REVISED SYLLABUS

(This will be effective from the academic year 2023)

Regulation, Scheme of Examination and Syllabus

1. Introduction of the programme:

The main object of this course is to develop basic skill in commerce, accountancy and computer subject. The core paper of this course inculcates basic accounting knowledge for maintaining proper accounts and entrepreneurial skill to begin start up. It also provides foundation for doing higher education in the form ACS/CMA/ACA courses and M.Com/MBA\MCA.

2. Eligibility for admission:

Candidates seeking admission to B. Com (CA) Semester Degree Course should have passed the Higher Secondary Examination of the Government of Tamil Nadu (or) and other examination accepted as equivalent by the Syndicate of Madurai Kamaraj University.

3 .Objectives of the programme:

- 1. To develop basic skills in the subjects of commerce and computer subjects.
- 2. To expose the students to computer application in the field of commerce/business.
 - 3. To develop entrepreneurial skill.

4. Outcome of the programme:

Upon Successful completion of this course, it is expected that student will be capable of producing innovative solutions to business activities and applying computer-based knowledge and skill to business challenges.

5. Languages, Core papers, Elective papers, Skill-based papers:

Part-I Language Tamil for I,II, III and IV semesters.

Part -II English for I, II, III and IV semesters.

Part – III Core and Elective papers

Part -IV Skill based subject

Part – V Extension activity

NSS/NCC/Physical Education/Commerce Club/ YRC/HRC and Eco Club and the like.

6. Unitization:

Each paper contains 5 units. Not only core subjects but also all the subjects.

7.Pattern of Semester Exam:

Internal - 25 Marks

External - 75 Marks

Total - 100 Marks

8.Scheme of Internal Assessment

Test = 10Marks

(There shall be two tests of 10 Marks each)-Average 10 Marks

Assignment =5Marks

Seminar/Group Discussion =5Marks

Peer-Team Teaching =5Marks

Total =25Marks

9. External Examination

There is external examination at the end of the semester-ODD semesters in the month of November and EVEN semester in the month April.

A candidate who does not pass the examination may be permitted to appear in the failed subjects in the subsequent examinations. Candidate should get his name registered with Madurai Kamaraj University at the time of appearing for the first semester examinations.

Those students who have attended the classes for 68 days (75%) and above will be permitted to appear for the ensuing university examinations without any preconditions. Those students who have attended the classes for 67 days and less, but 59 days (65%) and above will be permitted to apply for exemption in the prescribed form to the university along with fess prescribed by the University with the specific remarks of the principal for condonation of attendance. Those students who have attended the classes for 58 days and less, but 45 days (50%) and above cannot appear for university examinations provided they can appear for next examinations by paying the fees prescribed by the university with special permission along with proper documents for sufficient reasons for their absence. Those who students who have put in 44 days of attendance and less have to repeat the whole semester.

10.Question Paper Pattern

SECTION – A

10*1=10Marks

Time: 3Hrs.

- i) Choose the Correct Answer Questions 1 to 5
- ii) One Question from each unit
- iii) Fill in the blanks Questions 6 to 10
- iv) One question from each unit

SECTION – B

5*7=35 Marks

- i) Either (a) (or) (b) Type question 11 to 15
- ii) One question from each unit

SECTION - C

3*10=30Marks

- i) Open Choice questions 16 to 20
- ii) Answer any Three questions out of Five
- iii) One question from each unit

11. Scheme for evaluation:

1. Theory examination will be evaluated by the examiners appointed by Madurai Kamaraj University

12.Passing Minimum:

- 1. There is no passing minimum for internal examination
- 2. The passing minimum for external examination is 27 out of 75 marks.

A candidate should be declared to have passed in each paper / practical if he/she secures not less than 40% (aggregate of Internal and External) of the marks prescribed for the examination.

13.. Model Questions

Model question paper is enclosed at the syllabus

14.. Teaching Methodology

Each subject is taught through lecturing, assignment, seminar and peer team teaching.

15. Course Outcomes, Text/ Reference Books, Web Resources, Programme Out Comes and Programme Specific

The Above particulars are given below the syllabus of each subject.

16. Retotalling and Revaluation provision

Candidates may apply for revaluation for the paper which was already evaluated, within 10 days from the date of publication of the result in the university website, through specified revaluation forms along with required fees.

17..Transitory Provision

A Transitory provision of three years has been given for the benefit of the students who come under the old syllabus.

18. Subjects and Paper related websites:

www.wileyindia.com

www.vijaynicole.co.in

www.nlist.inflibnet.ac.in

www.perason.co.in

www.mhhe.com/kahate/knsze

www.vikaspublishing.com

www.khannabooks.com

www.elsevier.com

www.sanfoundary.com

www.publisherglobal.com

19. Duration:

Three years consisting of six semesters.

20. General framework:

21. GENERAL INSTRUCTIONS

- 1. All the question papers must be set in English and Tamil.
- 2.Only commerce teachers should be appointed as examiners, both for setting and valuation, for all the Commerce subjects
- 2(a) 3^{rd} and 4^{th} semester Part I and Part II papers should be taken by Commerce Teachers only.
- 3.Only commerce teachers with computer knowledge should be appointed as examiners, both for setting and valuation, for commerce related computer subjects
- 4.External examiners will evaluate all papers including on the job training and project reports
- 5.Kindly go through the syllabus, question paper blue print, model question paper pattern carefully
- 6.The syllabus and question paper blue print are to be strictly adhered to the question setters
 - 7. Kindly make the question specific, precise and without ambiguity
- 8. The university must send a copy of the syllabus of the respective subject and the following instructions while appointing the examiners for setting question papers
- i) The question set by them strictly conform to the syllabus, to the question paper pattern and to the instruction sent
 - ii)Questions should be fairly distributed over the whole syllabus
- iii) The scheme of valuation and the key to the problems should be sent along with the question paper

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.

	EGULATIONS ON LEARNING OUTCOMES-BASED CURRICULUM K GUIDELINES BASED REGULATIONS FOR UNDER GRADUATE PROGRAMME
Programme:	B.COM., COMPUTER APPLICATION
Programme Code:	
Duration:	UG - 3 years
Programme Outcomes:	PO1: Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups. PO3: Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development. PO4: Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations. PO5: Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the

arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support 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	Cre dit	Sem II	Cre dit	Sem III	Cre dit	Sem IV	Cre dit	Sem V	Cre dit	Sem VI	Cre dit
1.1. Languag e - Tamil	3	2.1. Languag e – Tamil	3	3.1. Language – Tamil	3	4.1. Languag e - Tamil	3	5.1 Core Cours e – \CC IX	4	6.1 Core Course - CC XIII	4
1.2 English	3	2.2 English	3	3.2 English	3	4.2 English	3	5.2 Core Cours e – CC X	4	6.2 Core Course - CC XIV	4
1.3 Core Course – CC I	4	2.3 Core Course – CC III	4	3.3 Core Course – CC V	4	4.3 Core Course – CC VII Core Industry Module	4	5. 3.Core Cours e CC - XI	4	6.3 Core Course - CC XV	4
1.4 Core Course – CC II	4	2.4 Core Course – CC IV	4	3.4 Core Course – CC VI	4	4.4 Core Course – CC VIII	4	5. 3.Core Cours e -/ Projec t with viva- voce CC - XII	4	6.4 Elective -VII Generic/ Discipli ne Specific	3
I.5 Elective I Generic/ Disciplin e Specific	3	2.5 Elective II Generic/ Disciplin e Specific	3	3.5 Elective III Generic/ Discipline Specific	3	4.5 Elective IV Generic/ Disciplin e Specific	3	5.4 Electi ve V Generi c/ Discip line Specif ic	3	6.5 Elective VIII Generic/ Discipli ne Specific	3
1.6 Skill Enhance ment Course SEC-1 (NME)	2	2.6 Skill Enhance ment Course SEC-2 (NME)	2	3.6 Skill Enhancem ent Course SEC-4, (Entrepren eurial Skill)	1	4.6 Skill Enhance ment Course SEC-6	2	5.5 Electi ve VI Generi c/ Discip line Specif ic	3	6.6 Extensi on Activity	1
		2.7 Skill Enhance ment Course – SEC-3	2	3.7 Skill Enhancem ent Course SEC-5	2	4.7 Skill Enhance ment Course SEC-7	2	5.6 Value Educat ion	2	6.7 Professi onal Compet ency Skill	2
1.7Abilit y Enhance ment Compuls	2	2.8 Ability Enhance ment Compuls	2	3.7 Ability Enhancem ent Compulsor y Course	2	4.7 7Ability Enhance ment Compuls	2	5.5 Summ er Interns hip	2		

Course)	23		23		22		25		26	21
Course)										
ion										
(Foundat										
ment -										
Enhance						E.V.S				
1.8 Skill	2			3.8 E.V.S	-	4.8	2			
Skill-1		Skill-2				Skill-4				
Soft		Soft				Soft		ng		
(AECC)		(AECC)		3		(AECC)		Traini		
Course		Course		Soft Skill-		Course		rial		
ory		ory		(AECC)		ory		/Indust		

	METHODS OF EVALUATION							
Internal Evaluation	Continuous Internal Assessment Test Assignments / Snap Test / Quiz Seminars Attendance and Class Participation	25 Marks						
External Evaluation	End Semester Examination	75 Marks						
	Total	100 Marks						
	METHODS OF ASSESSMENT							
Remembering (K1)	 The lowest level of questions require stude information from the course content Knowledge questions usually require identify information in the textbook. 							
 Understanding (K2) Understanding of facts and ideas by compreher organizing, comparing, translating, interpolating interpreting in their own words. The questions go beyond simple recall and restudents to combine datatogether 								
Application (K3)	 Students have to solve problems by using a concept learned in the classroom. Students must use their knowledge to exact response. 							
Analyze (K4)	 Analyzing the question is one that asks to break down somethinginto its compone Analyzing requires students to identicauses or motives and reach congeneralizations. 	ent parts. Ify reasons						
Evaluate (K5)								
Create (K6)	 The questions of this category challenge get engaged in creative andoriginal thinking. Developing original ideas and problem solving. 	students to						

CREDIT DISTRIBUTION FOR B.COM., COMPUTER APPLICATION

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

Highlights of the Revamped Curriculum:

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

Value additions in the Revamped Curriculum:

Semester	Newly introduced	Outcome / Benefits
	Components	
I	Foundation Course	Instil confidence among students
	To ease the transition of	 Create interest for the subject
	learning from higher	Č
	secondary to higher	
	education, providing an	
	overview of the	
	pedagogy of learning	
	abstract Statistics and	
	simulating mathematical	
	concepts to real world.	
I, II, III,	Skill Enhancement	Industry ready graduates
IV	papers (Discipline	Skilled human resource
	centric / Generic /	• Students are equipped with essential skills to make
	Entrepreneurial)	them employable
		Training on Computing / Computational skills
		enable the students gain knowledge and exposure
		on latest computational aspects
		 Data analytical skills will enable students gain
		internships, apprenticeships, field work involving
		data collection, compilation, analysis etc.
		Entrepreneurial skill training will provide an opportunity for independent livelihood.
		opportunity for independent livelihood
		• Generates self – employment
		Create small scale entrepreneurs
		Training to girls leads to women empowerment
		Discipline centric skill will improve the Technical
		knowhow of solving real life problems using ICT
		tools
III, IV, V	Elective papers-	• Strengthening the domain knowledge
& VI	An open choice of topics	• Introducing the stakeholders to the State-of Art
	categorized under	techniques from the streams of multi-disciplinary,
	Generic and Discipline	cross disciplinary and inter disciplinary nature
	Centric	• Students are exposed to Latest topics on Computer
		Science / IT, that require strong statistical
		background
		• Emerging topics in higher education / industry /
		communication network / health sector etc. are
		introduced with hands-on-training, facilitates
		designing of statistical models in the respective
	l	5 5

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

B.COM COMPUTER APPLICATION

Part	Course Code	Title of the Course	Credits	Hours				
FIRST YEAR								
	ı	FIRST SEMESTER	1 2					
Part I		Language – Tamil	3	6				
Part II		English	3	4				
Part III		Core Paper I – Financial Accounting I	4	5				
Part III		Core Paper II - Principles of Management	4	5				
		Elective I - Programming in C and Lab						
Part III		Elective I - Python Programming and Lab	3	4				
		Skill Enhancement Course SEC – 1	2	2				
Part IV		Foundation Course FC	2	2				
Partiv		Ability Enhancement Course (AECC 1) (Soft Skill)	2	2				
		TOTAL	23	30				
		SECOND SEMESTER						
Part I		Language – Tamil	3	6				
Part II		English	3	4				
Part III		Core Paper III – Financial Accounting II	4	5				
Part III		Core Paper IV-Business Law	4	5				
		Elective II - Office Automation and Lab						
Part III		Elective II - Programming in C++ and Lab	3	4				
		Skill Enhance Course SEC – 2	3 2	2				
		Skill Enhancement Course – SEC 3	2	2				
Part IV		Ability Enhancement Course (AECC 2) (Soft Skill)	2	2				
		TOTAL	23	30				
		SECOND YEAR						
		THIRD SEMESTER						
Part I		Language – Tamil	3	6				
Part II		English	3	4				
Part III		Core Paper V- Corporate Accounting I	4	5				
Part III		Core Paper VI – Business Mathematics and Statistics	4	5				

	Summer Internship / Industrial Training	2	_
Part IV	Value Education	2	2
D. A. W.	Discipline Specific Elective 3/4 – Software Engineering+(UML Lab)/4/4Object oriented Analysis and Design+(UML Lab)	3	4
Part III	Discipline Specific Elective 1/2 - Financial Management / 2/2 - Indirect Taxation	3	4
Part III	Core Paper XII – Auditing and Corporate Governance	4	5
Part III	Core Paper XI – Income Tax Law and Practice I	4	5
Part III	Core Paper X - Banking Law and Practice	4	5
Part III	Core Paper IX –Cost Accounting I	4	5
D , III	FIFTH SEMESTER		I -
	THIRD YEAR		
	TOTAL	24	30
	Environmental Studies	1	1
Part IV	Ability Enhancement Course (AECC 4) (Soft Skill)	2	2
	Skill Enhancement Course – SEC 7	2	2
	Skill Enhance Course SEC – 6	2	2
	Elective IV– Introduction to Data Science	3	3
Part III	Elective IV– Relational Database Management System	_	
Part III	Core Paper VIII-Company Law	4	5
Part III	Core Paper VII–Corporate Accounting II	4	5
Part II	English	3	4
Part I	Language – Tamil	3	6
	FOURTH SEMESTER		1
	TOTAL	23	30
	Environmental Studies	1	1
Part IV	Ability Enhancement Course (AECC 3) (Soft Skill)	2	2
	Skill Enhancement Course – SEC 5	2	2
	Skill Enhance Course SEC – 4	1	1
Part IV	Elective III – Web Technology(PHP) and Lab	3	4
	Elective III – Programming in JAVA and Lab		

	TOTAL	26	30
	SIXTH SEMESTER		
Part III	Core Paper XIII –Cost Accounting - II	4	6
Part III	Core Paper XIV-Management Accounting	4	6
Part III	Core Paper XV- Income Tax Law and Practice II	4	6
Part III	Discipline Specific Elective %- Entrepreneurial Development / 6/6-Human Resource Management	3	5
	Discipline Specific Elective 7/8- R Language/ 8/8 –Practical Tally	3	5
	General awareness for Competitive Examination	2	2
Part V	Extension Activity	1	-
	TOTAL	21	30
	GRAND TOTAL	140	180

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

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

CORE - I: FINANCIAL ACCOUNTING I

Subject				G	G 114	Inst.		Mark	KS		
Code	L	T	P	S	Credits	Hours	CIA	Exte	rnal	Total	
	5				4	5	25	75	5	100	
				L	earning Obj	ectives					
LO1	To uno	To understand the basic accounting concepts and standards.									
LO2		To know the basis for calculating business profits.									
LO3		o familiarize with the accounting treatment of depreciation.									
LO4	To lea	o learn the methods of calculating profit for single entry system.									
LO5	To gai	n know	ledge (on the	accounting to	reatment of	f insurance	claims			
Prerequi	sites: S	Should	have s	tudie	d Accountan	cy in XII S	Std				
Unit					Contents				No. Hou		
I	Fundamentals of Financial Accounting Financial Accounting – Meaning, Definition, Objectives, Basic Accounting Concepts and Conventions - Journal, Ledger Accounts– Subsidiary Books — Trial Balance - Classification of Errors – Rectification of Errors – Preparation of Suspense Account – Bank Reconciliation Statement - Need and Preparation									15	
II	Final Accounts Final Accounts of Sole Trading Concern- Capital and Revenue Expenditure and Receipts – Preparation of Trading, Profit and Loss Account and Balance Sheet with Adjustments.								15		
III	Depree Types Conve Units of Bills of Bills -	ciation - Straintraintraintraintraintraintraintrain	- Meaning the first of the firs	ning – ne Me Metho – De t of E	Exchange Objectives othod — Dimi od — Cost Mo finition — Sp Bill — Collect ebate	inishing Ba del vs Revo decimens –	alance methaluation - Discounti	nod –		15	
IV	Retirement of Bill under rebate Accounting from Incomplete Records – Single Entry System Incomplete Records - Meaning and Features - Limitations - Difference between Incomplete Records and Double Entry System - Methods of Calculation of Profit - Statement of Affairs Method - Preparation of final statements by Conversion method.								15		
V	Meani Short Treatn Insura	Workin nent.	Minimu ng – L laims –	m Re Lessor -Calcu	Claims nt — Short V and Lessee llation of Cla	- Subleas	se – Accou	inting		15	
				T	OTAL					75	
THEOR	Y 20%	& PR	OBLE	M 80°	%						

CO	Course Outcomes
CO1	Remember the concept of rectification of errors and Bank reconciliation statements
CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
CO3	Analyse the various methods of providing depreciation
CO4	Evaluate the methods of calculation of profit
CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.
	Textbooks
1.	S. P. Jain and K. L. Narang Financial Accounting- I, Kalyani Publishers, New Delhi.
2.	S.N. Maheshwari, Financial Accounting, Vikas Publications, Noida.
3.	Shukla Grewal and Gupta, "Advanced Accounts", volume 1, S.Chand and Sons, New Delhi.
4.	Radhaswamy and R.L. Gupta: Advanced Accounting, Sultan Chand, New Delhi.
5.	R.L. Gupta and V.K. Gupta, "Financial Accounting", Sultan Chand, New Delhi.
	Reference Books
1.	Dr. Arulanandan and Raman: Advanced Accountancy, Himalaya Publications, Mumbai.
2.	Tulsian, Advanced Accounting, Tata McGraw Hills, Noida.
3.	Charumathi and Vinayagam, Financial Accounting, S.Chand and Sons, New Delhi.
4.	Goyal and Tiwari, Financial Accounting, Taxmann Publications, New Delhi.
5.	Robert N Anthony, David Hawkins, Kenneth A. Merchant, Accounting: Text and Cases. McGraw-Hill Education, Noida.
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1.	https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1
2.	https://www.slideshare.net/ramusakha/basics-of-financial-accounting
3.	https://www.accountingtools.com/articles/what-is-a-single-entry-system.html

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – I

CORE – II: PRINCIPLES OF MANAGEMENT

Subject	L	Т	P	S	Credits	Inst.	st. Mar					
Code	L	1	P	3	Credits	Hours	CIA	External		Total		
	5				4	5	25	75	75 10			
Learning Objectives												
LO1	To understand the basic management concepts and functions											
LO2	To know the various techniques of planning and decision making											
LO3	To familiarize with the concepts of organisation structure											
LO4	To gai	To gain knowledge about the various components of staffing										
LO5	To enable the students in understanding the control techniques of management											
Prerequ	isites: S	Should	have s	tudied	l Commerce	in XII Sto	l					
Unit					Contents				No.	of		
									Hou	rs		
I	Introduction to Management Meaning- Definitions — Nature and Scope - Levels of Management — Importance - Management Vs. Administration — Management: Science or Art —Evolution of Management Thoughts — F. W. Taylor, Henry Fayol, Peter F. Drucker, Elton Mayo - Functions of Management - Trends and Challenges of Management. Managers — Qualification — Duties & Responsibilities.									15		

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

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

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

<u>FIRST YEAR – SEMESTER – I</u>

ELECTIVE - I: PROGRAMMING IN C AND LAB

Subjec	t L	Т	P	S	Credits	Inst.		Mar	ks				
Code		•	1	b	Credits	Hours	CIA	Exte	rnal	Total			
	2		2		3	4	25	7.	5	100			
LO1	LO1 Describe the core syntax and semantics of C programming language.												
LO2	Discov	er the	need fo	or worl	king with the	strings and	l functions	·					
LO3	Illustra	ate the	process	s of str	ructuring the	data using	matrix, str	uct .					
Prerequ	 nisites: S	Should	have s	tudied	d Commerce	in XII Sto	l						
Unit	Contents									of rs			
I	C Lang	guage-l m-Firs	Benefit	s of C	ge:C Languag over other la in CPre-pro	anguages-C	ompilation	n of C					
II		pe rule	es in C		Operators:V								
III	Control Flow Statements:Decision Making Statements-Switch Statement in C-C Loops & Control Structure Practice problems-Continue Statement, Break Statement Array & String Handling in C:Arrays in C-Strings in C												
IV	proble:	ms ons in Storage	C:Func Class	tion P	in C-String rototype-Par C-Recursio	ameter Pass	sing Techn	iiques					

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

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

FIRST YEAR – SEMESTER – I

C Programming Lab

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

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

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

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

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

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

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

CO5: Apply concept of structures to write programs.

List of Programs

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

Marks Grade >=80 A

>=60 B

>=50 C
>=40 D
<40 E
Print the details of the student, given the student Roll number as input.
1

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)
Component	to be solved (10 be discussed during the Tutorial flour)
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
_	Professional Communication and Transferrable Skill
from the	Professional Communication and Transferrable Skill
course	

Text Books:

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

Reference Books:

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

Weblinks and Video Lectures (e-Resources):

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

FIRST YEAR – SEMESTER - I

ELECTIVE - I: PYTHON PROGRAMMING AND LAB

Subject	L	T	P	S	Credits	Inst.		Mar	ks		
Code			_			Hours	CIA	Exte	rnal	Total	
	2		2		3	4	25	7.	5	100	
Learning Objectives											
LO1	Describe the core syntax and semantics of Python programming language.										
LO2	Disco	ver the	need fo	or worl	king with the	strings and	d functions	•			
LO3	Illustrate the process of structuring the data using lists, dictionaries, tuples and sets.										
LO4	Unders	stand the	e usage	of pack	cages and Dic	tionaries					
Prerequ	isites: S	Should	have s	tudied	l Commerce	in XII Sto	1				
Unit					Contents				No. o		
I	Comp Varial	uter So	ftware- l Identi	Pythor	gorithms-Con n programmi Operators - l	ng languag	ge - Literals	; -			
II	Staten Iterati Indefin Manip	nent-] ve Con nite Lo oulation	Indenta trol- V pops- 1 s	tion i Vhile S Boolea Build	an Expression In Python- Statement- In Flag. Str Ing blood Ind using range	Multi-Wa nfinite loop ing, List a ocks	y Selection ps- Definite and Diction	on te vs.			
III	Functi Functi Value Argun Scope	Non- word									
IV	Objects and their use: Software Objects - Turtle Graphics - Turtle attributes-Modular Design: Modules - Top-Down Design - Python Modules -										
V		Files: C			tionary type ing and writ	•					

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

Learning Resources:

• Recommended Texts

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

Reference Books

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

FIRST YEAR – SEMESTER - II

CORE - III: FINANCIAL ACCOUNTING-II

Subjec	et L	LT		S	Credits	Inst.							
Code		1	P	3		Hours	CIA	+	ernal	Total			
	5				4	5	25		75	100			
				L	earning Obj	ectives							
LO1	The st	udents a	are able	to pre	pare differen	t kinds of a	accounts su	ıch					
LOI	Higher	r purcha	se and	Instalı	ments Systen	1.							
LO2		Γο understand the allocation of expenses under departmental accounts											
LO3	_	To gain an understanding about partnership accounts relating to Admission and retirement											
LO4	Provid	relatir	ıg										
LO4	to diss												
LO5	To kno	Γο know the requirements of international accounting standards											
Prerequ	iisites:	Should	have s	tudied	l Accountan	cy in XII S	Std						
Unit					Contents				No. of				
										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								1	15			
	Branc	h and I	Depart	menta	l Accounts								
	Branch – Dependent Branches: Accounting Aspects - Debtors												
	system -Stock and Debtors system - Distinction between												
II	Wholesale Profit and Retail Profit - Independent Branches									15			
	(Foreign Branches excluded) - Departmental Accounts: Basis of												
	Allocation of Expenses – Inter- Departmental Transfer at Cost or												
	Selling Price.												
		ership A				_	_	_					
III		-			lmission of				1	15			
	Goodwill - Calculation of Hidden Goodwill -Retirement of a Partner - Death of a Partner.												
		ership A											
		_			- Methods -	- Settleme	nt of Acco	unts					
				_	ets – Realiza								
	_	_			n of Balanc								
IV			-		Partners ins]	15			
					- Accountin								
			-	_	Capital Met	_							
	Metho	d.											

V	Accounting Standards for financial reporting (Theory only) Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in India Role of IFRS- IFRS Adoption vs Convergence Implementation Plan in India- Ind AS- An Introduction - Difference between Ind AS and IFRS.	15
	TOTAL	75
THEO	RY 20% & PROBLEMS 80% Course Outcomes	
CO1	To evaluate the Hire purchase accounts and Instalment systems	
CO2	To prepare Branch accounts and Departmental Accounts	
CO3	To understand the accounting treatment for admission and retireme partnership	
CO4	To know Settlement of accounts at the time of dissolution of a firm	•
CO5	To elaborate the role of IFRS	
	Textbooks	
1	Radhaswamy and R.L. Gupta: Advanced Accounting, Sultan Chand	d, New Delhi.
2	M.C. Shukla T.S. Grewal & S.C. Gupta, Advance Accounts, S Cha Publishing, New Delhi.	nd
3	R.L. Gupta and V.K. Gupta, "Financial Accounting", Sultan Chand	l, New Delhi.
4	S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publis Delhi.	hers, New
5	T.S. Reddy& A. Murthy, Financial Accounting, Margam Publisher	s, Chennai.
	Reference Books	
1	Dr. S.N. Maheswari: Financial Accounting, Vikas Publications, No.	ida.
2	Dr. Venkataraman& others (7 lecturers): Financial Accounting, VB	H, Chennai.
3	Dr.Arulanandan and Raman: Advanced Accountancy, Himalaya pu Mumbai.	blications,
4	Tulsian, Advanced Accounting, Tata MC. Graw hills, India.	
5	Charumathi and Vinayagam, Financial Accounting, S.Chand and so Delhi.	ons, New
NOTE	: Latest Edition of Textbooks May be Used	
	Web Resources	
1	https://www.slideshare.net/mcsharma1/accounting-for-depreciation	ı - 1
2	https://www.slideshare.net/ramusakha/basics-of-financial-accounting	ng
3	https://www.accountingtools.com/articles/what-is-a-single-entry-sy	stem.html
	<u> </u>	

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

Subject				G	C - 1'4	Inst.		Marks			
Code	L	T	P	S	Credits	Hours	CIA	External	Total		
	5				4	5	25	75	100		
	Learning Objectives										
LO1	To know the nature and objectives of Mercantile lawand the essentials of valid										
LOI	contract										
LO2	To ga	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 un	derstar	nd the p	provisi	ons relating t	o sale of go	oods				
Prerequi	sites: S	Should	have s	tudied	l Commerce	in XII Sto	I				
Unit					Contents			No. of	f Hours		
	Elem	ents of	Contr	act							
	India	n Con	tract A	Act 187	72: Definition	n of Contr	act, Essenti	als			
I	of V	alid C	Contrac	t, Cla	ssification o	of Contrac	et, Offer a	and .	15		
1	Accep	otance	- Con	isidera	tion – Capa	city to Co	ntract – F	ree	1.5		
	Conse	ent - L	egality	of Ol	oject – Cont	ingent Cor	ntracts - V	oid			
	Contr	Consent - Legality of Object - Contingent Contracts - Void Contract									

	D 0 0 0 1								
II	Performance of Contract Meaning of Performance, Offer to Perform, Devolution of Joint liabilities & Rights, Time and Place of Performance, Reciprocal Promises, Assignment of Contracts - Remedies for Breach of contract - Termination and Discharge of Contract - Quasi Contract	15							
III	Contract of Indemnity and Guarantee Contract of Indemnity and Contract of Guarantee - Extent of Surety's Liability, Kinds of Guarantee, Rights of Surety, Discharge of Surety -	15							
IV	Bailment and Pledge Bailment and Pledge – Bailment – Concept – Essentials - Classification of Bailments, Duties and Rights of Bailor and Bailee – Law of Pledge – Meaning – Essentials of Valid Pledge, Pledge and Lien, Rights of Pawner and Pawnee.	15							
V	Sale of Goods Act 1930: Definition of Contract of Sale – Formation - Essentials of Contract of Sale - Conditions and Warranties - Transfer of Property – Contracts involving Sea Routes - Sale by Nonowners - Rights and duties of buyer - Rights of an Unpaid Seller	15							
	TOTAL	75							
	Course Outcome								
CO1									
CO2	Understand the clauses and exceptions of Indian Contract Act.								
CO3	Outline the contract of indemnity and guarantee								
CO4	Familiar with the provision relating to Bailment and Pledge								
CO5	Explain the various provisions of Sale of Goods Act 1930								
	Textbooks								
1	N.D. Kapoor, Business Laws- Sultan Chand and Sons, New Del	hi.							
2	R.S.N. Pillai – Business Law, S.Chand, New Delhi.								
3	M C Kuchhal& Vivek Kuchhal, Business law, S Chand Publishin	ng, New Delhi							
4	M.V. Dhandapani, Business Laws, Sultan Chand and Sons, New	Delhi.							
5	Shusma Aurora, Business Law, Taxmann, New Delhi.								
	Reference Books								
1	Preethi Agarwal, Business Law, CA foundation study material, C								
2	Business Law by Saravanavel, Sumathi, Anu, Himalaya Publicat	·							
3	Kavya and Vidhyasagar, Business Law, Nithya Publication, New	Delhi.							
4	D.Geet, Business Law Nirali Prakashan Publication, Pune.								
5	M.R. Sreenivasan, Business Laws, Margham Publications, Chen	nai.							
NOTE: 1	Latest Edition of Textbooks May be Used								
	Web Resources								
1	www.cramerz.comwww.digitalbusinesslawgroup.com								
. 7	http://swcu.libguides.com/buslaw								
3	http://libguides.slu.edu/businesslaw								

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

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

ELECTIVE-II: OFFICE AUTOMATION AND LAB

Subject	t L	Т	P	S	Credits	Inst.		Marks			
Code						Hours	CIA	External	Total		
	2		2		3	4	25	75	100		
	Learning Objectives										
LO1	The major objective in introducing the Computer Skills course is to impart training for students in Microsoft Office which has different components like MS Word, MS Excel and Power point.										
LO2	The co	ourse is	highly	practi	ce oriented r	ather than r	egular cla	ss room teac	hing.		
LO3	LO3 To acquire knowledge on editor, spread sheet and presentation software.										
Prerequ	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 pack	age.
CO3	Understand and apply the basic concepts of electronic spreadsheet	software.
CO4	Understand and apply the basic concepts of database management s	system.
CO5	Understand and create a presentation using PowerPoint tool.	
	Textbooks	
1	Peter Norton, "Introduction to Computers" –Tata McGraw-Hill.	
	Reference Books	
1	Jennifer Ackerman Kettel, Guy Hat-Davis, Curt Simmons, "Micros Tata McGraw- Hill.	oft 2003",
NOTE:	Latest Edition of Textbooks May be Used	

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

Office Automation Lab

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

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

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

List of Programs

Word

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

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

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

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

Excel

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

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

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

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

MS Power Point

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

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

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

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

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

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

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

FIRST YEAR – SEMESTER - II

ELECTIVE - II: PROGRAMMING IN C++ AND LAB

Subjec	L	Т	P	S	Credits	Inst.		Marl	ks					
Code				δ	or cares	Hours	CIA	Exte	rnal	Total				
	2		2		3	4	25	7:	5	100				
	Learning Objectives													
LO1	To engender an appreciation for the need and characteristics of Object-orientation.													
LO2	impler	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	l							
Unit					Contents				No. of Hours					
I	- The Modul Basic member	need fo larity – Eleme er func	or object Hierar Ints of Cations –	ct-orien chy. C++: (priva	ning Concep ntation – Ab Classes – Ob te and publi	straction – ojects – 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													
III	function – Overloading an operator as a friend function Overloading the operators [], (), -> and comma operators – Conversion Functions.Inheritance: Types of inheritance – protected access specifier –Virtual Base Class – Base class and derived class constructors. Run-time Polymorphism: Virtual Functions													
IV		ates: F	unction		virtual func lates – Overl									

V	Exception Handling: Exceptions – try, catch, throw – Rethrowing an exception – Restricting exceptions - Handling exceptions in derived classes - terminate(), abort(), unexpected(), set_terminate(). I/O Streams: Formatted I/O with ios class functions - Manipulators – Creating own manipulator – Overloading << and >> operators.								
	Total								
	Course Outcomes								
CO1	Explain the various basic concepts of Object-orientation.								
CO2	Write programs to implement static binding								
CO3	Write programs to implement inheritance and dynamic binding								
CO4	Write programs to implement templates and exception handling and to use STL class library.	d learn how							
CO5	Write programs implementing File and Stream I/O.								
	Textbooks								
1	Herbert Schildt, C++ - The Complete Reference, Third Edition, TMH, 1999								
2	Grady Booch, Object Oriented Analysis and Design, Pearson Education (For Unit I)	ation, 2008.							
	Reference Books								
1	Bjarne Strousstrup, The C++ Programming Language, Addison Wesley, 20	000.							
2	J. P. Cohoon and J. W. Davidson, <i>C++ Program Design – An Introduction t Programming and Object-Oriented Design</i> , Second Edition, McGraw Hill,								
3	C. J. Lippman, C++ Primer, Third Edition, Addison Wesley, 2000.								
NOTE:	Latest Edition of Textbooks May be Used								

FIRST YEAR – SEMESTER - II

Object Oriented Programming with C++

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

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

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

CO1: Design and create classes. Implement Stream I/O as appropriate.

CO2: Design appropriate data members and member functions.

CO3: Implement functions, friend functions, static members, constructors and compile-time polymorphism.

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

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

List of Programs

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

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

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

Extended 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 from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

Learning Resources:

Learning Resources:

Recommended Texts

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

Reference Books

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

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

Subjec	L	Т	P	S	Credits	Inst.		Mar					
t Code			_		or care	Hours	CIA	Exte	rnal	Total			
	5				4	5	25	75	5	100			
					Learning Ob	jectives				<u> </u>			
LO1	To un	derstan	d abou	it the p	pro-rata allotn	nentand Unde	erwriting	of Shar	es				
LO2		Γο know the provisions of companies Act regarding Issue and Redemption of Preference shares and debentures											
LO3		arn the anies A			contents of fi	nancial state	ments as	per Sc	hedule	e III of			
LO4	To exa	amine t	the var	ious n	nethods of val	uation of Go	odwill an	d shares	S				
LO5	To ide	entify tl	ne Sign	nifican	ce of Internat	ional financi	al reporti	ng stanc	dard (I	FRS)			
Prerequ	isite: S	Should	have s	studie	d Financial A	Accounting in	n I Year						
Unit					Contents				No. o				
I	Issue Pro-ra Under	ta All	res – i lotmen g of	t Issi Share	um - Discour ue of Right es and Deb Inderwriting.	s and Bon	us Shar	es -		15			
	Issue	& Red	empti	on of l	Preference S	hares & Deb	entures						
II	Capita	al Rec	lempti	on R	e Shares—Proveserve — Managerian	Iinimum Fr	-			15			
	Debentures: Issue and Redemption – Meaning – Methods – In- One lot–in Instalment – Purchase in the Open Market includes Ex Interest and Cum Interest - Sinking Fund Investment Method.												
		Accou											
III	Staten	nents a	s Per S	chedu	ounts – Form a le III of Comp Part II Form o	panies Act 20)13 – Par	t I		15			

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

_	
2	R.L. Gupta and M. Radha swamy, Advanced Accounts Vol I, Sultan Chand, New
	Delhi.
3	Broman, Corporate Accounting, Taxmann, New Delhi.
4	Shukla, Grewal and Gupta- Advanced Accounts Voll, 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.
	2 130 2 14 14 14 14 14 14 14 14 14 14 14 14 14
_	D.S.Rawat&NozerShroff,Students Guide To Accounting Standards ,Taxmann,
2	New Delhi
	New Bellii
	Prof. Mukeshbramhbutt, Devi, Corporate Accounting I, Ahilya Publication,
3	
	Madhya Pradesh
	Anil Kumar, Rajesh kumar, Corporate accounting I, Himalaya Publishing house,
4	
	Mumbai.
5	PrasanthAthma, Corporate Accounting I, Himalaya Publishing house, Mumbai.
110 mm	
NOTE	: Latest Edition of Textbooks May be Used
	W I B
	Web Resources
1	https://www.tickertape.in/blog/issue-of-shares/
	https://www.taxmann.com/bookstore/bookshop/bookfiles/chapter12valuationofgo
2	odwillandshares.pdf
	ouwmanusmares.pur
	https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accounting-
3	
	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	$^{t}\mid_{\mathbf{I}}$		\mathbf{T}	P	S	Credits	Inst.							
Code			1	1	3		Hours C		Exte		Total			
	5	5				4	5	25	75	5	100			
					Le	earning Obj	ectives							
LO1	To i	mpai	rt kno	owledg	e on th	ne basics of r	atio, propo	rtion, indice	es and	propo	ortions			
LO2						compound in								
				gressio										
LO3		o familiarise with the measures of central tendency												
LO4		o conceptualise with correlation co-efficient												
LO5						e series analy								
	isite:	Sno	uia n	iave st	uaiea	Contents	ın XII Sta			No.				
Unit						Contents				No. o				
т	Rati	io												
I	Rati	o, Pr	ropor	tion an	d Vari	ations, Indic	es and Log	arithms.			15			
				Annui							15			
II						le and Comp								
						Harmonic P	_							
						s of Annuity ores of Centi					15			
						ric Mean - H			e and		15			
III						les - Percent								
						on and Mean	n Deviation	ı - Variance	e and					
						efficient.								
				and Re	_						15			
IV	Corı	elati	ion -	Karl P	earson	's Coefficien	t of Correla	ation –						
1 4	Spea	arma	ın's R	lank C	orrelat	ion – Regres	sion Lines	and						
	Coe	fficie	ents.											
	Tim	e Se	ries A	Analys	is and	Index Num	bers				15			
	Tim	e Sei	ries A	Analysi	s : Sec	ular Trend –	Seasonal V	Variation –						
V	Cyc	lical	varia	tions -	Index	Numbers –	Aggregativ	e and Relat	ive					
	Inde	x – (Chair	and F	ixed In	ndex –Whole	esale Index	– Cost of						
	Livi	ng Ir	ndex.											
						TOTAL					75			
					(Course Outc	omes		1					
CO1	Lear	n the	e bas	ics of r	atio, p	roportion, in	dices and lo	ogarithm						

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

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

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

3 – Strong, 2- Medium, 1- Low

<u>SECOND YEAR – SEMESTER – III</u>

ELECTIVE - III: PROGRAMMING IN JAVA AND LAB

Subject		T	P	S	Credits	Inst.		Mar	ks		
Code			_		Credits	Hours	CIA	Exte	rnal	Total	
	2		2		3	4	25	7	5	100	
Learning Objectives											
LO1	LO1 To provide fundamental knowledge of object-oriented programming.										
LO2	To equal basics	-	student	t with 1	programming	g knowledg	e in Core .	Java fro	om the	2)	
LO3	To ena	able the	studer	nts to u	ise AWT cor	trols, Even	t Handling	g and S	wing	for	
Prerequ	isite: S	hould l	have st	udied	Commerce	in XII Std					
Unit					Contents				No. Hou		
I	buzzw archite Consc Varial Buffer	ords (lecture - le outpoles - red inp	Platfori -Java F out(Syst type co ut - oj	m inder Prograntem.outem.outensouvers	f Object-Or ependence, In m structure - at) - simple j ion and cases rs - control String Buffe	Portability, —Java mainava programating- Java statements	Threads)- n method n - Data t Console	JVM - Java ypes - input:			
II	Java u Inheri access Overle	Static Method - String and String Buffer Classes Java user defined Classes and Objects - Arrays - constructors - Inheritance: Basic concepts - Types of inheritance - Member access rules - Usage of this and Super key word - Method Overloading - Method overriding - Abstract classes - Dynamic method dispatch - Usage of final keyword									
III	Packages: Definition - Access Protection - Importing Packages - Interfaces: Definition - Implementation - Extending InterfacesException Handling: try - catch - throw - throws finally - Built-in exceptions - Creating own Exception classes - garbage collection, finalise -										
IV	Synch synch	Multithreaded Programming: Thread Class - Runnable interface – Synchronization – Using synchronized methods – Using synchronized statement - Interthread Communication – Deadlock.									
V	Frame	work:C	Collecti	on &	lasses -Java Iterator Int omparator		_				

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

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

Learning Resources:

Recommended Texts

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

Reference Books

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

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

SECOND YEAR - SEMESTER - III

ELECTIVE III: Web Technology(PHP) and Lab

Subjec	et	T	L T P S Credits Inst.		Inst.		Marks				
Code	!	L	1	1	В	Credits	Hours	CIA	External	Total	
		2		2		3	4	25	75	100	
	Learning Objectives										
LO1	То	use F	PHP a	nd M	ySQL	to develop d	ynamic web	sites for	user on the	Internet	
LO2	LO2 To develop web sites ranging from simple online information forms to complex e-commerce sites with MySQL database, building, connectivity, and maintenance									complex	
Prerequ	ısıte	: Sho	uld h	ave s	tudie	d Commerce	ın XII Std			N T 6	
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 Variables with Operators.									
II	Co Sta Re	Controlling Program Flow: Writing Simple Conditional Statements - Writing More ComplexConditional Statements - Repeating Action with Loops - Working with String and NumericFunctions.									

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

SECOND YEAR – SEMESTER – III

WEB TECHNOLOGY LAB

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

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

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

- 1. On the completion of this laboratory course the students ought to
- 2. Obtain knowledge and develop application programs using Python.
- 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 e-mailaddresses 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 examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
-	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

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

CORE - VII: CORPORATE ACCOUNTING - II

Subject			Marks Inst.							
Code	L	Т	P	S	Credits	Hours	CIA	Externa l	Total	
	5				4	5	25	75	100	
					A				<u> </u>	
LO1	LO1 To know the types of Amalgamation, Internal and external Reconstruction									
LO2	To kn	ow Fir	nal state	ements	of banking	companies				
LO3	To un	derstar	nd the a	accoun	ting treatme	nt of Insur	ance comp	any accour	nts	
LO4	To un	derstar	nd thep	rocedu	ire for prepa	ration of co	onsolidated	l 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 Year	•		
Unit					Content	s			No. of Hours	
I	Amala Metho Value for An Purch Interi Interi Decre	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.							15		
***	Insur	ance (Compa	ny Ac	counts:				15	
III	Insurance Company Accounts: Meaning of Insurance – Principles – Types – Preparation of Final Accounts of Insurance Companies – Accounts of Life Insurance Business – Accounts of General Insurance Companies -New									

		Format.						
	IV	Consolidated Financial Statements Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparation of Accounts -Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).	15					
	V	Liquidation of Companies Meaning-Modes of Winding Up – Preparation of Statement of Affairs and Statement of Deficiency or Surplus (List H) Order of Payment – Liquidators Remuneration- Liquidator's Final Statement of Accounts.	15					
		TOTAL	75					
TE	IEOR	Y 20% & PROBLEMS 80%						
		Course Outcomes						
C	CO1 Understand the accounting treatment of amalgamation, Internal and reconstruction							
C	CO2	Construct Profit and Loss account and Balance Sheet of Banking Con in accordance in the prescribed format.	npanies					
C	CO3	Synthesize and prepare final accounts of Insurance companies in the prescribed format						
C	CO4	Give the consolidated accounts of holding companies						
C	O5	Preparation of liquidator's final statement of account						
		Textbooks						
1	S.P. Dell	Jain and K.L Narang. Advanced Accountancy, Kalyani Publisheni.	rs, New					
2	Dr.K.S .Raman and Dr. M.A. Arulanandam , Advanced Accountancy, Vol. II, Himalaya Publishing House, Mumbai.							
3	R.L.	Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, New	Delhi.					
4	M.C Dell	S. Shukla and T.S. Grewal, Advanced Accounts Vol.II, S Chand & Sonini.	s, New					
5	T.S.	Reddy and A.Murthy, Corporate Accounting II, Margham Pu	blishers,					

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

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

3 – Strong, 2- Medium, 1- Low

SECOND YEAR-SEMESTER-IV

COREPAPERVIII - COMPANY LAW

Subject	t L	Т	P	S	Credits	Inst.		Ma	rks				
Code		1	Г	3	Credits	Hours	CIA	Ext	ternal	Total			
	5				4	5	25		75	100			
				L	earning Obj	ectives							
LO1	To kn	ow Cor	npany]	Law 1	956 and Com	panies Act	t 2013						
LO2	To ha	ve an ui	ndersta	nding	on the forma	tion of a co	ompany						
LO3	To un	derstan	d the re	equisit	es of meeting	and resolu	ıtion						
LO4	To ga	in know	ledge	on the	procedure to	appoint an	d remove I	Direc	tors				
LO5	To far	miliariz											
Prerequisite: Should have studied Commerce in XII Std													
Unit					Contents				No. o	f			
									Hour	S			
		duction		-	·				15				
					efinition of a								
I				_	Piercing the C	-	_	•					
		_			artnership a cation of C		ed Liabili						
	Incorp	OII											
	Form												
			-		– Promoter –	Incorporat	ion Docume	ents					
	e-filin												
II	Legal		-	15									
					ıs – Content				l				
		Capita itures.	u – K	ands	– Issue – A	Alteration	– Dividen	a –					
	Meeti												
		0	Resolu	tion –	Types – Rec	uisites – V	oting & Po	oll –					
III					ution – Ordin					15			
	Audit	ors –	Qualifi	cation	, Disqualific								
		val of a											
		0			tration	natora I	ngol Doniel-	n					
		_			ration — Dire ointment/ Re		-						
					Number – I								
TT 7					tees – Relat								
IV					Company – Ir	•			_	15			
			_		Secretarial								
	_			-	o – National								
	•	*		Comp	any Law App	bellate Trib	unai (NCL	AT)					
		cial Cou l ing up	iits.										
		_	Modes	- Ca	ompulsory W	/inding Ui	n – Volun	tarv					
V		_			ces of Windi		•	•	13				
					nding Up – C								
					TOTAL					75			

	Course Outcomes										
CO1	Understand the classification of companies under the act										
CO2	Examine the contents of the Memorandum of Association & Articles of Association										
CO3	Know the qualification and disqualification of Auditors										
CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)										
CO5	Analyse the modes of winding up										
Textbooks											
1	N.D. Kapoor, Business Laws, Sultan Chand and Sons, Chennai										
2	R.S.N. Pillai – Business Law, S.Chand, New Delhi.										
3	M.V. Dhandapani, Business Laws Sultan Chand and Sons, Chennai										
4	Shusma Aurora, Business Law, Taxmann, New Delhi										
5	M.C.Kuchal, Business Law, VikasPublication, Noida										
	Reference Books										
1	Gaffoor&Thothadri, Company Law, Vijay Nichole Imprints Limited, Chennai										
2	M.R. Sreenivasan, Business Laws, Margham Publications, Chennai										
3	KavyaAndVidhyasagar, Business Law, Nithya Publication, Bhopal										
4	S.D.Geet, Business Law Nirali Prakashan Publication, Pune										
5	PreethiAgarwal, Business Law, CA foundation study material										
NOTE:	Latest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.mca.gov.in/content/mca/global/en/acts-rules/companies-act/companies-act-2013.html										
2	https://vakilsearch.com/blog/explain-procedure-formation-company/										
3	https://www.investopedia.com/terms/w/windingup.asp										

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

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER – IV

ELECTIVE IV -RELATIONAL DATABASE MANAGEMENT SYSTEM

Subje	ct .	${f L}$	Т	P	S	Credits	Inst.		Marks			
Code			-	_		Credits	Hours	CIA	External	Total		
		3				3	3	25	75	100		
]	Learning Ob	jectives					
LO1	Gain a good understanding of the architecture and functioning of Database Management Systems											
LO2	_					ructured Quer	y Language	(SQL) a	nd its syntax	•		
LO3	Appl	ly N	orma	lizatio	on tec	hniques to no	rmalize a da	ntabase.				
LO4	Understand the need of transaction processing and learn techniques for											
Prerequ	Prerequisite: Should have studied Commerce in XII Std											

Unit	Contents	No. of Hours
	Introduction to DDMC Data and Information Database	
I	Introduction to DBMS- Data and Information - Database - Database Management System - Objectives- Advantages -	
	Components - Architecture. ER Model: Building blocks of ER Diagram –	
	Relationship Degree – Classification – ER diagram to Tables – ISA	
l II	relationship – Constraints –Aggregation and Composition – Advantages	
11	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.	
	Introduction to SQL: Data Definition Commands – Data	
IV	Manipulation Commands – SELECT Queries – Additional Data	
	Definition Commands – Additional SELECT Query Keywords – Joining Database Tables. Advanced SQL:Relational SET Operators:	
	UNION – UNION ALL – INTERSECT - MINUS.	
	SQL Join Operators: Cross Join – Natural Join – Join USING	
V	Clause – JOIN ON Clause – Outer Join.	
V	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	
	IOIAL	
	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	em
	Concepts", McGrawHill2019, 7th Edition.	
2	Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nic	ole
	Publications 2014, 2 nd Edition.	

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

SECOND YEAR – SEMESTER - IV

ELECTIVE - IV: INTRODUCTION TO DATA SCIENCE

Subje		L	L T P S Credits Inst.		Marks								
Code	•	L	•	_		Cicuits	Hours	CIA	External	Total			
		3				3	3	25	75	100			
				<u> </u>]	Learning Ob	jectives		<u> </u>				
LO1	То	intro	duce 1	the co	ncept	s, techniques	and tools in	Data Sci	ence				
LO2	col	To introduce the concepts, techniques and tools in Data Science 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	iisite	: Sho	uld h	ave s	tudie	d Commerce	in XII Std						
Unit						Content	5			lo. of Iours			
I	В	enefit		uses		ets of data – I	Data science	process -	- Big				
II	O	vervi		resear	ch go	ess: als - retrievin sis – Model b							
III	M	Algorithms: Machine learning algorithms – Modelling process – Types – Supervised – Unsupervised - Semi-supervised											
IV	Introduction to Hadoop: Hadoop framework – Spark – replacing MapReduce– NoSQL – ACID – CAP – BASE – types												

	Case Study:
	Prediction of Disease - Setting research goals - Data retrieval –
V	preparation - exploration - Disease profiling - presentation and
	automation
	actomation
	TOTAL
	Course Outcomes
	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
	To describe what Data Science is, what Statistical Inference means, identify probability
CO2	distributions, fit a model to data and use tools for basic analysis and communication
	distributions, fit a model to data and use tools for basic analysis and communication
GO2	To describe what Data Science is, what Statistical Inference means, identify
CO3	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
CO4	distributions, fit a model to data and use tools for basic analysis and communication
	To describe what Date Coince is substitutional Information many identify much shilling
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
	Davy Cielen, Arno D. B. Meysman, Mohamed Ali, "Introducing Data Science",
1	
	manning publications 2016
	Roger Peng, "The Art of Data Science", lulu.com 2016.
	MurtazaHaider, "Getting Started with Data Science – Making Sense of Data
	with Analytics", IBM press, E-book.
	Reference Books
	Davy Cielen, Arno D.B. Meysman, Mohamed Ali, "Introducing Data Science:
1	Big Data, Machine Learning, and More, Using Python Tools", Dreamtech Press
	2016.
2	Annalyn Ng, Kenneth Soo, "Numsense! Data Science for the Layman: No Math
_	Added", 2015,1st Edition.
	Cathy O'Neil, Rachel Schutt, "Doing Data Science Straight Talk from the
3	
	Frontline", O'Reilly Media 2013.
4	Lillian Pierson, "Data Science for Dummies", 2015 II Edition
-	,, ,, ,
NOTE:	Latest Edition of Textbooks May be Used

THIRD YEAR – SEMESTER - V

CORE - IX: COST ACCOUNTING - I

Subje	ct .	L	Т	P	C	Cmadita	Inst.		Marks			
Code	, -	L	1	P	S	Credits	Hours	CIA	External	Total		
		5				4	5	25	75	100		
					Le	earning Obje	ectives					
LO1	To	und	erstand	d the va	arious	concepts of c	ost accoun	iting.				
LO2	To	prep	oare an	d reco	ncile (Cost accounts	S.					
LO3		_			_	ng valuation						
LO4						ferent metho		lating labo	ur cost.			
LO5						nt of Overhea						
Prerequisite: Should have studied Commerce in XII Std												
Unit						Contents				No. of Hours		
I	Introduction of Cost Accounting Definition-Nature and Scope – Principles of Cost Accounting – Cost Accounting and Financial Accounting - Cost Accounting Vs Management Accounting –Installation of Costing System – Classification of Costs– Cost Centre– Profit Centre.											
II	Cost Sheet and Methods of Costing Preparation of Cost Sheet - Tenders & Quotations - Reconciliation of Cost and Financial Accounts –Unit Costing-Job Costing.											
III	Material Costing Material Control – Meaning and Objectives – Purchase of Materials – EOQ –Stores Records – Reorder Levels – ABC Analysis - Issue of Materials –Methods of Issue – FIFO – LIFO – Base Stock Method – Specific Price Method – Simple and Weighted Average Method.											
IV	Direct Calculation Incertainty	ct L ulat ntiv	ion of es – D	and In Wage	Payr t Met	Labour – Tonents – Timents – Timents of Incenter - Meaning,	ne Wages entive Payr	Piece Wments - Idl	Vages – e time–	15		
V	Overheads Costing Overheads — Definition — Classification — Allocation and Apportionment of Overheads — Basis of Apportionment — Primary and Secondary Distribution — Absorption of Overheads — Methods of absorption Preparation of Overheads Distribution Statement — Machine Hour Rate — Computation of Machine Hour Rate.									15		
								TAL		75		
THEO	RY 20	0%	& PR	OBLE	MS 80)%						
						Course Outc						
CO1						rious concep						
CO2						and reconci						
CO3	Anal	yse	the va	rious v	aluatio	on methods o	t issue of n	naterials.				

CO4	Examine the different methods of calculating labour cost.
CO5	Critically evaluate the apportionment of Overheads.
	Textbooks
1	Jain S.P. and Narang K.L, Cost Accounting. Kalyani Publishers, New Delhi
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S. Chand & Co, New Delhi,
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand Publications, New Delhi
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications, Chennai
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi
	Reference Books
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision Making, 1991, McGraw–Hill, New York.
2	Jain S.P. and Narang K.L. Cost Accounting, Latest Edition.2013, Kalyani Publishers, New Delhi,
3	V.K.Saxena and C.D.Vashist, Cost Accounting, Sultan Chand publications, New Delhi
4	Murthy A &GurusamyS,CostAccounting,Vijay Nicole Imprints Pvt. Ltd. Chennai
5	Prasad.N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Kolkata
NOTE	: Latest Edition of Textbooks May be Used
	Web Resources
1	https://study.com/learn/lesson/cost-accounting-principles-examples-what-is-cost-accounting.html
2	https://www.accountingtools.com/articles/what-is-material-costing.html
3	https://www.freshbooks.com/hub/accounting/overhead-cost

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - X: BANKING LAW AND PRACTICE

Subject	t .	LT	P	S	Credits	Inst.	Marks					
Code	-	L	1	1	3	Credits	Hours	CIA	External	Total		
		5				4	5	25	75	100		
	Learning Objectives											
LO1	To help the students understand various provision of Banking Regulation Act											
	1949 applicable to banking companies including cooperative banks											
LO2	To trace the evolution of central bank concept and prevalent central banking											
	system around the world and their roles and function											
LO3	To throw light on Central Bank in India, its formation, nationalizing its											
	organization structure, role of bank to government, role in promoting											
	agri	agriculture and industry, role in financial inclusion										
	<i>C</i>											
LO4	To understand how capital fund of commercial banks, objectives and process of											
	Ass	Asset securitization etc.										
LO5	То	exp	olore p	ractica	l bank	ing systems	relationsh	ip of bank	ers and cus	tomers,		
	cros	ssin	g of ch	neques,	endor	sement etc.						
T1:4						Content	S			No. of		
Unit										Hours		
				to Ba	_							
						isions of Ba						
т т		-				inking - Ind				15		
I	Development - Banking Structure in India - Public Sector Banks,								15			
	Private Banks, Foreign Banks, RRB, UCB, Payment Banks and Small Finance Banks - Banking System – Branch Banking - Unit Banking -											
					_	ial Inclusion		ing cint	Dumming			
						ercial Bank						
						on –Need - 1						
II	Commercial Banking - Functions of Central Bank – Credit Creation.									15		
11	Commercial Banking: Definition - Functions - Personal Banking -								10			
	Corporate Banking – Digital banking – Core Banking System (CBS) - Role of Banks in Economic Development.											
			i Banki ng Pra		onomi	Developme	iit.					
			0		CAS	4 – Tynes	of Denos	sits - Oner	ning Bank			
	Types of Accounts CASA – Types of Deposits - Opening Bank Account- Jan Dhan Yojana - Account Statement vs Passbook vs											
	e-statement - Banker Customer Relationship - Special Types of											
III	Customers –KYC norms.									15		
	Loans & Advances –Lending Sources- Lending Principles-Types of											
	Loans - classification of assets and income recognition / provisioning											
			-	-		Reverse Repo	Rate - s	ecurities o	f lending-			
	Factors influencing bank lending.											

IV	Negotiable Instruments Act Negotiable Instruments – Meaning & Definition – Characteristics -Types of negotiable instruments. Crossing of Cheques – Concept - Objectives – Types of Crossing Consequences of Non-Crossing. Endorsement - Meaning-Components-Kinds of Endorsements-Cheques payable to fictitious person Endorsement by legal representative – Negotiation bank-Effect of endorsement-Rules regarding Endorsement. Paying banker - Banker's duty - Dishonouring of Cheques- Discharge by paying banks - Payments of a crossed cheque - Refusal of cheques Payment. Duties of Collecting Banker-Statutory protection under section 131-Collecting bankers' duty –RBI instruction –Paying Banker Vs Collecting Banker- Customer Grievances-Grievance Redressal –Banking Ombudsman.	15						
V	Digital Banking Meaning- Services - e-banking and financial services- Initiatives- Opportunities - Internet banking Vs Traditional Banking Mobile banking-Anywhere Banking-Any Time Banking- Electronic Mobile Wallets. ATM — Concept - Features - Types Electronic money-Meaning-Categories-Merits of e-money - National Electronic Funds Transfer (NEFT), RTGS, IMPS, UPI and Digital currency — Differences - Safety and Security in Digital Banking.	15						
	TOTAL	75						
	Course Outcomes							
CO1	Aware of vvarious provision of Banking Regulation Act 1949 applicable banking companies including cooperative banks	e to						
CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function							
CO3	Gain knowledge about the Central Bank in India, its formation, nationali organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion	zing its						
CO4	Evaluate the role of capital fund of commercial banks, objectives and pro- Asset securitization etc	ocess of						
CO5	Define the practical banking systems relationship of bankers and custom crossing of cheques, endorsement etc.	iers,						
	Textbooks							
1	Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publ Chennai	ication,						
2	Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall India Learning Private Ltd, New Delhi							
3	Gupta P.K. Gordon E.Banking and Insurance, Himalaya publication, Kolkata							
4	Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication							
5	K P Kandasami, S Natarajan & Parameswaran, Banking Law and Practice, S Chand publication, New Delhi							
	Reference Books							
1	B. Santhanam, Banking & Financial System, Margam Publication, Chennai							
2	KataitSanjay, Banking Theory and Practice, Lambert Academic Publishi	ng,						

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

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - XI: INCOME TAX LAW AND PRACTICE- I

Subjec	\mathbf{t} \mathbf{L}	T	P	S	Credits	Inst.	Marks					
Code		1	ľ	3		Hours	CIA	CIA Ext		Total		
	5				4	5	25		75	100		
	Learning Objectives											
LO1	To un	derstan	d the b	asic co	oncepts & def	initions un	der the Inco	ome '	Tax Ac	t,1961.		
LO2	To compute the residential status of an assessee and the incidence of tax.											
LO3	To compute income under the head salaries.											
LO4	To learn the concepts of Annual value, associated deductions and the											
	calculation of income from House property.											
LO5	To compute the income from Business & Profession consideration									s basic		
- ·	principles & specific disallowances. rerequisite: Should have studied Commerce in XII Std											
Prerequi	site: Sh	ould ha	ve stuc	ned Co		All Std		1	N.T.			
Unit					Contents				No. of Hours			
	Intro	duction	to Inc	omo 7	r _{ov}				П	Jurs		
	1111100	uuciioii	to me	ome i	lax							
	Introd	on -										
I	Introduction to Income Tax – History – Objectives of Taxation - Features of Income Tax – Meaning of Income – Types –									1.5		
	Impor		15									
	Asses	see – In	come e	exemp	ted under							
	Section											
		ential S		_								
	Reside	15										
II	Comp											
	Incidence of Tax and Residential Status – Problems on Residential Status and Incidence of Tax.											
		ne from			idelice of Tax	.						
				•	ition – Al	lowances	_Taxahility	J -				
***	Salary Income - Definition - Allowances -Taxability - Perquisites - Kinds of Perquisites - Types of Provident Fund -									. ~		
III	-				nmutation of	-			15			
	Salary											
	Incom											
		ne from		_	•							
	Incom											
IV	- Gross Annual Value, Net Annual Value - Let-out vs Deemed									15		
	to be let out Self-Occupied Property – Deductions –							-				
	Computation of Income from House Property.											

	D., 64 1 C.; 6										
	Profits and Gains from Business or Profession										
	Income from Business or Profession – Allowable Expenses – Expenses Disallowed - General Deductions – Depreciation –										
	Expenses Disallowed - General Deductions - Depreciation -										
V	Undisclosed Income & Investments, Unexplained expenditure (Sec. 69A, 69B, 69C, 69D) – Compulsory Maintenance of										
·	(Sec 69A, 69B, 69C, 69D) – Compulsory Maintenance of Books of Accounts – Audit of Accounts of Certain Persons –										
	Special Provisions for Computing Incomes on Estimated Basis										
	(Deemed Income) – Computation of Income from Business or Profession.										
	TOTAL 75										
	Course Outcomes	75									
THEOR	RY 20% & PROBLEMS 80%										
CO1	Demonstrate the understanding of the basic concepts and definition	ns under the									
CO1	Income Tax Act.										
CO2	Assess the residential status of an assessee& the incidence of tax.										
CO3	Compute income of an individual under the head salaries.										
CO4	Ability to compute income from house property.										
CO5	Evaluate income from a business carried on or from the practice of	f a Profession.									
	Textbooks										
1	V.P. Gaur, Narang, Puja Gaur and Rajeev Puri - Income Tax Law and Practice,										
-	Kalyani Publishers, New Delhi.										
2	T.S. Reddy and Hariprasad Reddy, Income Tax Law and Practice, Margham										
_	Publications, Chennai.										
3	DinkarPagare, Income Tax Law and Practice, Sultan & Chand Son	ns, New									
	Delhi.	hitro Dharran									
4	H.C. Mehrotra, Dr.Goyal S.P, Income Tax Law and Accounts, Sal Publications, Agra.	mitya Bhavan									
		ivota Limitad									
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	M D II.									
2	Bhagwati Prasad, Income Tax Law and Practice, Vishwa Prakasar	1. New Deini.									
3	Vinod K. Singhania, Students Guide to Income Tax., U.K. Bhargha	ıva Taxman.									
4	Dr. Vinod K Singhania, Dr. Monica Singhania, Taxmann's Student	ts' Guide to									
4	Income Tax, New Delhi.										
	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Pra	actice, 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										

3 – Strong, 2- Medium, 1- Low

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

THIRD YEAR – SEMESTER – V

CORE -XII: AUDITING & CORPORATE GOVERNANCE

Subjec	t	L	T	P	S	Credits	Inst.		Mar	ks	
Code			1	Г	מ	Credits	Hours	CIA	Exte	rnal	Total
		5				4	5	25	7	5	100
					L	earning Obj	ectives				
LO1	То	ena	ble stu	dents t	o unde	erstand proces	ss of auditi	ng and its c	lassifi	cation	١.
LO2	Toi	impa	art kno	wledge	on in	ternal check	and interna	al control.			
LO3	To	illu	strate t	he role	of au	ditors in com	pany.				
LO4	То	hel	p stude	ents un	dersta	nd the frame	work, theo	ories and m	odels	of Co	rporate
	Governance.										
LO5						e concept of		_	onsib	ility	
Prerequ	iisite	: Sh	ould l	nave st	udied	Commerce	in XII Std				
Unit						Contents					o. of
					• • •					Н	ours
				to Aud		C A 11.1	D				
_						of Auditir	-				
I						g – Object					15
	Limitations of Audit – Scope of Audit – Classifications of Audits – Audit of For Profit enterprises and Non–profit Organizations										
						cumentation	<u> </u>	anizations			
						gramme – Pr		Internal Au	ıdit -		
II			_			Check System					15
11						ication of As		_			15
	Valu			uons	V CIIII	caron of 115	sets una L	idomines di	14 165		
			ny Auc	ditor							
		-	·		emova	al of Audito	ors – Righ	nts, Duties	and		
III						it Report - R					15
						(ISA) - Auc					
	– Au	ıditi	ng thro	ough th	e com	puter - e-auc	lit tools.				
						Governance					_
						f Corporate					
						es - Corpora					
IV	_		_			ls in India					15
						oticed in var	-	•			
						nt, Social and	Governan	ce (ESG - 0	Code		
						Auditors					
				cial Re			· Ctmataa:-	Dolotion-1-	in at		
		-				Philanthropy			-		
V	CSR			_		ainability - C vernance - C					15
				-		tion 135 sche					
	Rule	-	ics At	ι, Δ015	(DECI	1011 133 80110	auic – v II	<i>j</i> . – CSK F	oncy		
	Tuic	<i>,</i> 0				TOTAL					75

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

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

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

3 – Strong, 2- Medium, 1- Low

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

Subjec	et	т	T	D	C	C 114-	Inst.		Mark	S			
Code		L	T	P	S	Credits	Hours	CIA	Extern	al	Total		
		4				3	4	25	75		100		
]	Learning Ob	jectives						
LO1	To	intro	duce t	he co	ncept	of financial i	nanagement	•					
LO2		To learn the capital structure theories.											
LO3		_				t techniques i		dgeting					
LO4						payment mod							
LO5						and calculation			in an org	aniz	ation.		
Prerequ	isite	s: Sh	ould	<u>have</u>	studi	ed Commerc		1					
Unit						Contents	3				. of urs		
	Int	rodu	ction							110	uis		
	Me	aning	g and	Objec	ctives	of Financial	Managemen	nt – Func	tions of				
I	Fin	ancia	ıl Ma	nager	nent.	Finance - S	Sources of	Finance-	Role of				
1	Fin	ancia	ıl Ma	nager	- F	nancial Goa	ls- Profit n	naximizat	ion Vs.		12		
	We	alth l	Maxir	nizati	on –	Concept of T	ime Value I	Money -R	Risk and				
	Ret	turn –	- Com	pone	nts of	Financial Ma	nagement.						
	Fin	ancia	al De	cision	l								
	Cap	pital	Struc	ture	- D	efinition - N	Meaning- T	heories-	Factors				
	det	ermir	ning (Capita	al Str	ucture – Va	rious appro	aches of	Capital				
	stru	ıcture)										
II	Cost of Capital – Meaning – Factors determining cost of capital -										12		
	Methods - Cost of Equity Capital – Cost of Preference Capital –												
	Cost of Debt – Cost of Retained Earnings – Weighted Average (or)												
	Composite Cost of Capital (WACC) Leverage – Concept –												
		-				Leverage		•	•				

		1
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, NewDe	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:	Latest Edition of Textbooks May be Used							
	Web Resources							
	Web Resources							
1	https://efinancemanagement.com/financial-management/types-of-financial-decisions							
1 2	https://efinancemanagement.com/financial-management/types-of-financial-							

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

DISCIPLINE SPECIFIC ELECTIVE – 2/2: INDIRECT TAXATION

Subjec	t L	Т	D	S	Credits	Inst.		Marks				
Code	L	1	1	3	Credits	Hours	CIA	External	Total			
	4				3	3 4 25		75	100			
	Learning Objectives											
LO1	To get introduced to indirect taxes											
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 Acquaintance with Indirect tax laws	
CO1	Exposed to the overview of GST.	
CO ₂	Apply provisions of CGST and IGST	
CO4	Summarise procedures of GST	
CO5	Discuss aspects of Customs Duty in India	
003	Textbooks	
1	Vinod K Singhania, Indirect Taxes, Taxman's Publications, New Do	elhi.
1	- mod 12 singhama, monoce ranco, rannan or actionis, new Di	· · · · · · · · · · · · · · · · · · ·

2	Dr. H.C. Mehrotra & Prof .V.P Agarwal, Goods and Services Tax (GST),
2	Sahitya Bhawan Publications, Agra.
3	Rajat Mohan, Goods & Services Tax, Bharat Law Publications House, New
3	Delhi.
4	CA. Pushpendra Sisodia, Indirect Tax Laws, Bharat Publications, New Delhi.
	Reference Books
1	V.S.Datey, All About GST, Taxmann Publications, New Delhi.
2	T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications,
2	Chennai.

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

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

Subje		L	Т	P	S	Credits	Inst.		Marks			
Cod	e	_	_	_	Hours		Hours	CIA	External	Total		
		2		2		3	4	25	75	100		
	Learning Objectives											
LO1	То	To introduce the software development life cycles										
LO2		To introduce concepts related to structured and objected oriented analysis & design co										
LO3	То	prov	vide a	n insi	ght in	to UML and s	software test	ing techn	iques			
Prereq	uisite	: Sho	ould l	nave s	tudie	d Commerce	in XII Std					
Unit						Content	ts			No. of Hours		
I	Eme:	Introduction – Evolution – Software Development projects – Emergence of Software Engineering.Software Life cycle models – Waterfall model – Rapid Application Development – Agile Model – SpiralModel										
II	Requ	iiren	nent A	-		d Specification	on – Gather	ring and	Analysis –			
III	– Lag	Software Design – Overview – Characteristics – Cohesion & Coupling – Layered design – Approaches Function Oriented Design – Structured Analysis – DFD – Structured										
IV	Obje	Design – Detailed design Object Modeling using UML – OO concepts – UML – Diagrams – Use case, Class, Interaction, Activity, State Chart – Postscript										
V	Codi Blac	Coding & Testing – coding – Review – Documentation – Testing – Black-box, White-box, Integration, OO Testing, Smoke testing.										
		TOTAL										
						Course Out	comes			1		
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	es.				

	Textbooks								
1	Rajib Mall, "Fundamentals of Software Engineering", PHI 2018, 5th Edition.								
2	Roger S. Pressman, "Software Engineering - A Practitioner's Approach", McGraw Hill 2010, 7thEdition.								
	Reference Books								
1	Pankaj Jalote, "An Integrated Approach to Software Engineering", Narosa Publishing House 2011,3rd Edition.								
NOTE:	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	Knowledge, Problem Solving, Analytical ability, Professional
the	Competency, Professional Communication and Transferrable
Course	Skill

Learning Resources:

Recommended Texts

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

Reference Books

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

THIRD YEAR – SEMESTER – V

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

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

LO2	To be acquainted with the writing of test cases using different testing techniques.								
Prereq	Prerequisite: Should have studied Commerce in XII Std								
Unit	Contents	No. of Hours							
I	Object Orientation – System development – Review of objects - inheritance - Object relationship – Dynamic binding – OOSD life cycle – Process – Analysis – Design – prototyping – Implementation – Testing-								
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	CO1 The students should be able to specify software requirements, design the software using tools								
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	3 Eriksson, "UML Tool Kit", Addison Wesley								
	Reference Books								
1	Booch G., "Object oriented analysis and design", Addison- Wesley Pub Company 3 rd edition.	lishing							

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

NOTE: Latest Edition of Textbooks May be Used

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

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

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

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

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

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

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

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

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

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

Learning Resources:

Recommended Texts

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

Reference Books

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

THIRD YEAR - SEMESTER - VI

CORE -XIII: COST ACCOUNTING - II

Subject		Т	ъ	C	C 114-	Inst.		Marks				
Code		1	P	S	Credits	Hours	CIA	External	Total			
	6				4	6	25	75	100			
				Le	earning Obj	ectives						
LO1	To unc	derstan	d the st	andarc	ls in Cost Ac	counting						
LO2	To kno	ow the	concep	ts of c	ontract costii	ng.						
LO3	To be	To be familiar with the concept of process costing.										
LO4	To lear	To learn about operation costing.										
LO5	To gai	To gain insights into standard costing.										
Prerequ	Prerequisite: Should have studied Cost Accounting in V Sem											
Unit					Contents			ľ	No. of			
Unit								I	Hours			
I	An Int - Diff Degree	roducti Terence es of nsibilit	betwee CAS (case) y Ac	CAS – en CA Covera	Purpose of C AS and FAF ge – Cost	Regulation	ons – Diffe ng Standar	erent rds -	18			
II	Defini	tions -	Featur	es - A	ng and Cont Comparison tract - Prepa	- Calculat	ion of Prof		18			

	Process Costing									
III	Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Preparation of Process Accounts – Treatment of Loss and Gain: Normal and Abnormal Loss – Abnormal Gain - Concept of Equivalent Production - Joint Products and By Products. Operation Costing Operation Costing – Meaning – Preparation of Operating Cost									
IV	Operation Costing Operation Costing – Meaning – Preparation of Operating Cost Sheet – Transport Costing – Power Supply Costing–Hospital Costing–Simple Problems.	18								
V	Standard Costing and Variance Analysis Definition — Objectives — Advantages — Standard Cost and Estimated Cost — Installation of Standard Costing System — Variance Analysis — Material, Labour, Overhead, and Sales Variances — Calculation of Variances.	18								
	TOTAL	90								
THEO	RY 20% & PROBLEMS 80%	- 0								
	Course Outcomes									
CO1	Remember and recall standards in cost accounting									
CO2	Apply the knowledge in contract costing									
CO3	Analyze and assimilate concepts in process costing									
COS	Understand various bases of classification cost and prepare operating cost									
CO4	statement.	g cost								
CO5	Set up standards and analyse variances.									
	Textbooks									
1	Jain S.P. and Narang K.L. Cost Accounting. Kalyani Publishers. Nev	w Delhi.								
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical C Chand & Co, New Delhi.									
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand pu New Delhi.	blications,								
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									
	Polimeni, Cost Accounting: Concepts and Applications for Manager	ial Decision								
1	Making, New York, McGraw–Hill, Noida.									
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.									
4	Murthy A &Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pv Chennai.	rt. Ltd.								
5	Prasad. N.K and Prasad. V.K, Cost Accounting, Book Syndicate, Bar	ngladesh.								
NOTE	Latest Edition of Textbooks May be Used	_								
	Web Resources									
1	https://www.economicsdiscussion.net/cost-accounting/contract-costi	ng/32597								
2	https://www.wallstreetmojo.com/process-costing/									
3	https://www.accountingnotes.net/cost-accounting/operating-costing/	17755								

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

3 – Strong, 2- Medium, 1- Low

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

CORE – XIV: MANAGEMENT ACCOUNTING

Subjec	t	L	Т	P	S	Credits	Inst.		Marks		
Code		L	1	1	5	Credits	Hours	CIA	External	Total	
		6				4	6	25	75	100	
					Le	earning Obj	ectives				
LO1	LO1 To understand basics management accounting										
LO2	LO2 To know the aspects of Financial Statement Analysis										
LO3	To familiarize with fund flow and cash flow analysis										
LO4	To	lear	n abou	ıt budg	etary c	ontrol					
LO5	To	gaiı	n insigl	hts into	margi	inal costing.					
Prerequ	isit	e: Sł	ould l	nave st	udied	Financial A	ccounting	in I Semes	ter.		
Unit						Contents			N	o. of	
Omt									H	ours	

	Introduction to Management Accounting	
	Management Accounting - Meaning - Scope - Importance-	
	Limitations - Management Accounting Vs Cost Accounting -	
I	Management Accounting Vs Financial Accounting.	18
•	Analysis and Interpretation of Financial Statements – Nature and	10
	Significance – Types of Financial Analysis – Tools of Analysis –	
	Comparative Statements – Common Size Statement – Trend	
	Analysis.	
	Ratio Analysis	
	Ratio Analysis: Meaning – Advantages – Limitations – Types of	
II	Ratios – Liquidity Ratios – Profitability Ratios - Turnover Ratios –	18
	Solvency Ratios - Leverage Ratios - Preparation of Financial	
	Statements from Ratios.	
	Funds Flow & Cash Flow Analysis	
	Introduction, Meaning of Funds Flow Statement-Ascertainment of	
	Flow of Funds - Schedule of Changes in Working Capital-	
	Adjusted Profit and Loss Account - Preparation of Funds Flow	
III	Statement.	18
	Cash Flow Statement: Meaning – Advantages – Limitations –	
	Preparation of Cash Flow Statement as per AS 3 –Cash Flow from	
	Operating, Financing and Investing activities	
	Budget and Budgetary Control	
IV	Meaning – Preparation of Various Budgets – Cash Budget -	18
1 4	Flexible Budget – Production Budget – Sales Budget – Master	10
	Budget – Budgetary Control – Benefits	
	Marginal Costing: Meaning - Features – Marginal Costing vs	
	Absorption Costing - Fixed Cost, Variable Cost and Semi Variable	
	Cost- Contribution- Marginal Cost Equation- P/V Ratio - Break	
V	Even Point - Margin of Safety – Cost- Volume Profits Analysis.	18
	Decision Making: Selection of a Product Mix – Make or Buy	
	Decision – Discontinuance of a product line – Change or Status	
	quo – Limiting Factor or Key Factor.	
(DITE)	TOTAL	90
CO	RY 20% & PROBLEMS 80% Course Outcomes	
CO1	Remember and recall basics in management accounting	
CO2	Apply the knowledge of preparation of Financial Statements	
CO3	Analyse the concepts relating to fund flow and cash flow	
CO4	Evaluate techniques of budgetary control	
CO5	Formulate criteria for decision making using principles of marginal c	osting.
	Textbooks	77 1 '
1	Jain S.P. & Narang K.L. (2018) Cost and Management Accounting,	Kalyanı
	Publications,	

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

	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
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3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - VI

CORE - XV: INCOME TAX LAW AND PRACTICE - II

Subjec	t ,	Т	Ъ	C	Cuadita	Inst.		Ma	rks		
Code	L	Т	P	S	Credits	Hours	CIA	Ex	ternal	Total	
	6				4	6	25		75	100	
					earning Obj						
LO1					relating to cap	_					
LO2					r computation						
LO3		niliariz Gross T			g to set off an	d carry for	rward of los	sses a	and ded	uctions	
LO4	To lea	rn abou	ıt asses	sment	of individual	s					
LO5	To gai	n know	ledge	about	assessment pi	ocedures.					
Prerequ	isite: S	hould l	have st	udied	Financial A	ccounting	in I stSen	1			
Unit											
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.									18	
II	Income From Other Sources & Clubbing of Income Chargeability - Computation of Income from Other Sources – Deductions Allowed – Clubbing of Income – Concept								18		
III	Set Off and Carry Forward of Losses and Deductions From Gross Total Income Gross Total Income vs Total Income - Provisions for Set-off and Carry Forward of Losses (Simple Problems). Deductions U/S 80C, 80CC, 80CCB, 80CCC, 80CCD, 80 CCE, 80D, 80DD, 80DDB, 80E, 80EE, 80EEA, 80EEB, 80G, 80GG, 80GGA, 80TTA, 80TTB, and 80U only.								1	18	
	Comput	tation o	of Tota	l Inco	ome - Tax Li		an Individu	uals	1	18	
V	Computation of Total Income – Individual Computation of Total Income - Tax Liability of an Individuals (Old regime vs New regime Income Tax Authorities Administration of Income Tax Act – Income Tax Authorities – Powers of CBDT – Powers of Income Tax Officer - Procedure for Assessment – Filing of Return – Due Dates of Filing – Voluntary Filing – Return of Loss – Belated Return – Defective Return – Signing of Return – Permanent Account Number (PAN) , e-PAN – Tax credit statement (26 AS) and Annual Information Statement (AIS).										
					TOTAL				9	90	
THEOF	XY 20%	& PR	OBLE	MS 80	0%						

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

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

3 – Strong, 2- Medium, 1- Low

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

Subject	L	Т	P	S	Credits	Inst.		Marks			
Code	L	1	r	3	Credits	Hours	CIA	External	Total		
	5				3	5	25	75	100		
				L	earning Obj	ectives					
LO1	To kno	w the	mean	ing a	nd characteris	stics of entre	epreneurs	ship			
LO2	To ider	ntify t	he var	ious l	ousiness oppo	rtunities					
LO3	To understand the Process of setting up an enterprise										
LO4	To gain knowledge in the aspects of legal Compliance of setting up of an										
	enterprise										
LO5	To dev	elop a	ın und	erstar	nding of the r	ole of MSM	IE in eco	nomic grow	th		
Prerequisi	te: Shou	ıld ha	ve stı	ıdied	Commerce	n XII Std					
Unit					Content	S			No. of		
]	Hours		
I	Meanir Entrepr – Diff Meanir										

	Design Thinking							
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	WSME's and Support Institutions Government Schemes and Women Entrepreneurship – Importance of MSME for Economic Growth – MSME – Definition – Role of Government Organizations in Entrepreneurship Development – MSME DI – DIC – Khadi and Village Industries Commission – NSIC – NABARD, SICVI, SFC, SDC, EDII, EPCCB. Industrial Estates – Government Schemes – Prime Minister Employment Generation Programme – Women Entrepreneurship in India.							
	TOTAL	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), Entrepreneurship Theory and Practice, Vijay 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

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

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

Unit	Contents	No. of Hours
I	Introduction to HRM Definition of HRM, Objectives – Importance – Nature- Scope, Role and Qualities of a HR Manager - Human Resource Planning - Meaning, Definition, Importance, Factors Affecting HRP, Process Involved in Human Resource Planning. Human Resource Information System (HRIS) - Job Analysis, Need for Job Analysis, Steps in Job Analysis, Job Description and Specification.	12
II	RECRUITMENT AND SELECTION Definition — Objectives — Factors affecting recruitment — internal and external source of recruitment — Selection Process — Curriculum Vitae —Test- types— Kinds of employment interview — Medical Screening — Appointment Order.	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 TOTAL	12						
CO	Course Outcomes	UU						
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	Noida.							
2	Publishing House, Mumbai.							
3	Sunil Lalla and Neha Shukla, Human Resource Management, Nirali Fublishers, Pune.							
4	P.Subba Rao, Personnel and Human Resource Management, Himalay Publishing House, Mumbai.	ra						
	Reference Books							
1	L.M. Prasad, Human Resource Management, Sultan and Chand sons Publications, New Delhi.							
2	DeCenzo, D.A. and Robbins, S.P Human Resource Management, 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, M	Iumbai.						
NOTE:	Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://hr.university/shrm/strategic-human-resource-management/							
2	https://www.investopedia.com/terms/c/collective-bargaining.asp							
3	https://www.yourarticlelibrary.com/human-resource-management-2/ewelfare/employee-welfare/99778	employee-						

	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> DISCIPLINE SPECIFIC ELECTIVE – 7 / 8: R LANGUAGE

Subject	L	Т	P	S	Credits	Inst.		Marks			
Code						Hours	CIA	External	Total		
		2	3		3	5	25	75	100		
	Learning Objectives										
LO1	Acquire programming skills in core R Programming										
LO2	Acquire	e Obje	ect-or	ented	programmir	ng skills in F	R Progran	nming.			
LO3	Develo Progran	-		l of	designing	graphical-us	ser inter	faces (GUI)	in R		
LO4	O4 Acquire R Programming skills to move into specific branches										
Prerequisi	Prerequisite: Should have studied 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									
	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									
CO2										
CO3	To practice various computing strategies for R Programming -based so real world problems	olutions to								
	•									
CO4	To use R Programming data structures - lists, tuples, dictionaries.									
CO5	To do input/output with files in R Programming									

THIRD YEAR – SEMESTER - VI

DISCIPLINE SPECIFIC ELECTIVE – 8 / 8: PRACTICAL TALLY

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

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

TOTAL

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

THIRD YEAR – SEMESTER - VI

PROFESSIONAL COMPETENCY SKILL GENERAL AWARENESS FOR COMPETITIVE EXAMINATION

Subj	ect	L	Т	P	S	Cnodita	Inst.		Marks			
Cod		L	1	r	3	Credits	Hours	CIA	External	Total		
		2				2	2	25	75	100		
						Learning Ob	jectives					
LO1	To c	create	the	oppor	tunit	y for learnin	g across di	fferent di	sciplines an	d builds		
	expe	rienc	e for s	studer	nts as	they grow in	to lifelong le	earners.				
LO2	To b	uild e	experi	ences	for s	tudents as the	y grow into	lifelong l	earners.			
LO3						ts of various						
Prereq	uisite	s: Sh	ould l	have	studi	ed Commerc	e in XII Sto	1				
UNIT	-											
	Indi	Indian Polity										
		Basics concepts- Three organs of Indian government (Executives,										
	Legislature, Judiciary), Introduction to Indian Constitution – Salient											
I		features of constitution, Preamble, Fundamental rights, Fundamental duties, Directive Principles of State policy, Types of Majority,										
					_			• -				
						titution, Basi						
	subjects between the union and the states local Governance, Elections in India and Election Commission, CAG.											
	Geography											
	•	_	•	of the	2 WO1	·ld –Importai	nt Canals =	Gulfs –	Straits and			
						d its Tributar						
						stems, World						
II		-			•	- Indian's pl						
						ance Trade ro	-		• •			
	vege	tatior	n – In	dian a	agricu	ılture- Major	crops and it	ts distribu	tion, Indian			
	Indu	stries	and i	ts Dis	tribu	tion.						
		nomy		-	ea .	3.6	15					
177						on – Money a	_	_				
III			_			ning in India	•					
			Deve Mark		ent ai	nd Developm	ent issues -	- maustri	ai ponces –			
	Hist		iviaik	cis.								
		•	ndia -	- form	nation	of Indian Na	ational Cond	ress – Ma	orlev Minto			
						ctivities – W	-		•			
***					•	ontague Chel			-			
IV				_		nent – Simon						
			-			ement and R			-			
	India	a Mo	veme	ent ai	nd D	emand for	Pakistan –	Cabinet	Mission -			
	Forn	natior	of C	onstit	uents	Assembly an	d partition of	of India.				

V	Environment and Ecology Basic concepts – Ecology, Biodiversity- Food chain and food web – Bio Geo Chemical Cycles – International Bio Diversity organisations- International Conventions – Conferences and Protocol – Indian Environmental laws and Environment Related organisation	6
	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	O3 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	