Curriculum for Bachelor of Commerce-CA Bachelor of Arts

B.Com-CA SYLLABUS

For the Candidates admitted on 2023-2026 onwards under Programme Structure and Scheme of Examination (under CBCS)

(I to VI SEMESTER)

DEPARTMENT OF COMMERCE



SATHYA SAAI ARTS AND SCIENCE COLLEGE FOR WOMEN

(Affiliated to Annamalai University)

Pasar Village & Post, Tittakudi, Cuddalore District – 606 304

Tamil Nadu, India



Affiliated Colleges

111. B.Com – Computer Application
Programme Structure and Scheme of Examination (under CBCS)
(Applicable to the candidates admitted from the academic year 2023 -2024 onwards)

				_	Maximum		
Course Code	Part	Study Components & Course Title	Credit	Hours/Week		Mark	
					CIA	ESE	Total
		SEMESTER – I					
23UTAML11 23UHINL11 23UFREL11	I	Language – I பொதுதமிழ் - I: தமிழ்இலக்கியவரலாறு -I/ Hindi-I French-I	3	6	25	75	100
23UENGL12	II	General English – I	3	6	25	75	100
23UCOAC13		Core – I: Financial Accounting I	5	5	25	75	100
23UCOAC14		Core –II: Principles of Management	5	5	25	75	100
23UCOAE15-1 23UCOAE15-2 23UCOAE15-3	III	Elective - I Programming in C and Lab/ Python Programming and Lab/ Computer Fundamentals	3	4	25	75	100
23UTAMB16/ 23UTAMA16	IV	Skill Enhancement Course – 1* NME-I / Basic Tamil – I / Advanced Tamil – I	2	2	25	75	100
23UCOMF17		Foundation Course: Fundamentals of Business Studies	2	2	25	75	100
		Total	23	30			700
		SEMESTER – II					
23UTAML21 23UTAML21 23UTAML21	I	Language – II பொதுதமிழ் -II: தமிழ்இலக்கியவரலாறு -2/ Hindi-II French-II	3	6	25	75	100
23UENGL22	II	General English – II	3	6	25	75	100
23UCOAC23		Core – III : Financial Accounting II	5	5	25	75	100
23UCOAC24		Core –IV : Business Law	5	5	25	75	100
23UCOAE25-1 23UCOAE25-2 23UCOAE25-3	III	Elective - II Office Automation and Lab/ (Evaluation Theory Only) Programming in C++ and Lab/ Information and Cyber Laws	3	4	25	75	100
23UTAMB26/ 23UTAMA26	IV	Skill Enhancement Course – 2* NME-II/ Basic Tamil – II / Advanced Tamil – II	2	2	25	75	100
23USECG27		Skill Enhancement Course – 3 Internet and its Applications (Common Paper)	2	2	25	75	100
23UNMSD01		Language Proficiency for employability: Overview of English Communication**	2	-	25	75	100

Total 25 30	800
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		SEMESTER – III					
23UTAML31 23UHINL31 23UFREL31	I	Language – III பொதுதமிழ் -III:தமிழக வரலாறும் பண்பாடும் Hindi-III French-III		6	25	75	100
23UENGL32	II	General English – III	3	6	25	75	100
23UCOAC33		Core – V : Corporate Accounting I	5	5	25	75	100
23UCOAC34		Core –VI: Business Mathematics and Statistics	5	5	25	75	100
23UCOAE35-1 23UCOAE35-2	III	Elective - III Programming in JAVA and Lab/ Web Technology(PHP) and Lab/	3	4	25	75	100
23UCOAS36		Skill Enhancement Course – 4: Stock Market Operations	1	1	25	75	100
23UCOAS37	IV	Skill Enhancement Course – 5: New Venture Planning & Development	2	2	25	75	100
		Environmental Studies		1			
		Total	22	30			700
		SEMESTER – IV					
23UTAML41 23UHINL41 23UFREL41	I	Language – IV பொதுதமிழ் -IV:தமிழும் அறிவியலும் Hindi-IV French-IV	3	6	25	75	100
23UENGL42	II	General English – IV		6	25	75	100
23UCOAC43		Core – VII : Corporate Accounting II	5	5	25	75	100
23UCOAC44		Core –VIII : Company Law	5	5	25	75	100
23UCOAE45-1 23UCOAE45-2	III	Elective - IV Relational Database Management System/ Introduction to Data Science	3	3	25	75	100
23UCOAS46		Skill Enhancement Course – 6: Brand Management	2	2	25	75	100
23UCOAS47	IV	Skill Enhancement Course – 7: Clearing and Forwarding in Export and Import	2	2	25	75	100
23UEVSG48		Environmental Studies	2	1	25	75	100
		Total	25	30			800
		SEMESTER – V					
23UCOAC51		Core – IX: Cost Accounting I	4	5	25	75	100
23UCOAC52		Core –X: Banking Law and Practice	4	5	25	75	100
23UCOAC53		Core –XI: Income Tax Law and Practice I	4	5	25	75	100
23UCOAD54		Core –XII: Project with Viva-Voce	4	5	25	75	100
		Elective - V					
23UCOAE55-1 23UCOAE55-2	III	Financial Management / Indirect Taxation	3	4	25	75	100
	III		3	4	25	75 75	100
23UCOAE55-2 23UCOAE56-1	IV	Indirect Taxation Elective - VI Software Engineering+(UML Lab) /					

		Total	26	30			800
		SEMESTER – VI					
23UCOAC61		Core – XIII: Cost Accounting II	4	6	25	75	100
23UCOAC62		Core –XIV: Management Accounting	4	6	25	75	100
23UCOAC63		Core –XV: Income Tax Law andPractice II	4	6	25	75	100
23UCOAE64-1 23UCOAE64-2	III	Elective – VII: Entrepreneurial Development / Human Resource Management	3	5	25	75	100
23UCOAE65-1 23UCOAE65-2		Elective – VIII: R Language / Practical Tally	3	5	25	75	100
	IV	Professional Competency Skill:	2	2	25	75	100
23UCOAF66		General awareness for Competitive Examination					
23UCOAX67	V	Extension Activity	1	-	100	-	100
		Total	21	30			700
		GRAND TOTAL	142				4500

List of Non-Major Elective Courses Offered to Other Departments

Semester	Course Code	Course Title	H/W	C	CIA	ESE	Total
I	23UCOAN16	Digital Banking	2	2	25	75	100
Π	23UCOAN26	Fundamentals of Fintech	2	2	25	75	100

^{*} PART-IV: NME / Basic Tamil / Advanced Tamil (Any one)

Students who have not studied Tamil upto 12th Standardand have taken any Language other than Tamilin Part-I, must choose Basic Tamil-I in First Semester & Basic Tamil-II in Second Semester.

Students who have studied Tamil upto 10th & 12th Standardand have taken any Language other than Tamilin Part-I, must

choose Advanced Tamil-I in First Semester and Advanced Tamil-II in Second Semester.

^{**} The course "23UNMSD01: Overview of English Communication" is to be taught by the experts from Naan Mudhalvan Scheme team. However, the faculty members of Department of English should coordinate with the Naan Mudhalvan Scheme team for smooth conduct of this course.

⁺⁺Students should complete two weeks of internship before the commencement of V semester.

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

First Year - Semester-I

Part	List of Courses	Credit	No. of
			Hours
Part I	Language – Tamil	3	6
Part II	English	3	6
Part III	Core Theory, Practical & Elective Courses	13	14
	Skill Enhancement Course SEC-1 (NME-I)	2	2
Part IV	Foundation Course	2	2
		23	30

Semester-II

Part	List of Courses	Credit	No. of
			Hours
Part I	Language – Tamil	3	6
Part II	English	3	6
Part III	Core Theory, Practical & Elective Courses	13	14
Part IV	Skill Enhancement Course -SEC-2 (NME-II)	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
		23	30

Second Year - Semester-III

Part	List of Courses	Credit	No. of Hours
Part I	Language - Tamil	3	6
Part II	English	3	6
Part III	Core Theory, Practical & Elective Courses	13	14
Part IV	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	-	1
		22	30

Part	List of Courses	Credit	No. of
			Hours
Part I	Language - Tamil	3	6
Part II	English	3	6
Part III	Core Theory, Practical & Elective Courses	13	13
Part IV	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
		25	30

Third Year Semester-V

Part	List of Courses	Credit	No. of
			Hours
Part III	Core Theory, Practical, Project & Elective Courses	22	28
Part IV	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	-
		26	30

Semester-VI

Part	List of Courses	Credit	No. of
			Hours
Part III	Core Theory, Practical & Elective Courses	18	28
Part IV	Professional Competency Skill	2	2
Part V	Extension Activity	1	-
		21	30

Consolidated Semester wise and Component wise Credit distribution

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

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

CREDIT DISTRIBUTION FOR U.G. PROGRAMME

Part	Course Details	No. of Courses	Credit	Total					
			per	Credits					
			course						
Part I	Tamil	4	3	12					
Part II	English	4	3	12					
Part III	Core Courses	15	4/5	68					
	Elective Courses:Generic / Discipline Specific	8	3	24					
	(3 or 2+1 Credits)								
	Part I,II and III Credits		•	116					
	Skill Enhancement Courses / NME / Language Courses	7	1/2	15					
	Professional Competency Skill Course	1	2	2					
Part IV	Environmental Science (EVS)	1	2	2					
	Value Education	1	2	2					
	Internship	1	2	2					
	Part IV Credits			23					
Part V	Extension Activity (NSS / NCC / Physical Education)	1	1	1					
	Total Credits for the UG Programme								

Methods of Evaluation								
	Continuous Internal Assessment Test							
Internal Evaluation	Assignments	25 Marks						
	Seminars							
	Attendance and Class Participation							
External Evaluation	End Semester Examination	75 Marks						
	Total	100 Marks						
	Methods of Assessment							
Recall (K1)	Simple definitions, MCQ, Recall steps, Concept definitions	3						
Understand/Comprehend (K2)	MCQ, True/False, Short essays, Concept explanations, Short summary or							
	overview							
Application (K3)	Suggest idea/concept with examples, Suggest formulae, Sol	ve problems,						
	Observe, Explain							
Analyze(K4)	Problem-solving questions, Finish a procedure in many st	eps, Differentiate						
	between various ideas, Map knowledge							
Evaluate(K5)	Longer essay/Evaluation essay, Critique or justify with pros	and cons						
Create(K6)	Check knowledge in specific or off beat situations, Discus	sion, Debating or						
Presentations								

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

Semester - I	CORE- I	L	T	P	С
23UCOAC13	FINANCIAL ACCOUNTING-I	5			5

Learni	Learning Objectives:								
LO1:	To understand the basic accounting concepts and standards.								
LO2:	To know the basis for calculating business profits.								
LO3:	To familiarize with the accounting treatment of depreciation.								
LO4:	To learn the methods of calculating profit for single entry system.								
LO5:	To gain knowledge on the accounting treatment of insurance claims.								

Course	Course Outcomes:								
	After the successful completion of the course, the students will be able to:								
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.								

Unit 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 – Need and Preparation - Bank Reconciliation Statement.

Unit 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.

Unit III: Depreciation and Bills of Exchange

Depreciation - Meaning - Objectives - Accounting Treatments - Types - Straight Line Method - Diminishing Balance method - Conversion method.

Annuity Method – Depreciation Fund Method – Insurance Policy Method – Revaluation Method – Depletion Method – Sum of Digits Method – Machine Hour Rate Method .

Bills of Exchange – Definition – Specimens – Discounting of Bills – Endorsement of Bill – Collection – Noting – Renewal – Retirement of

Incomplete Records -Meaning and Features - Limitations - Difference between Incomplete Records and Double Entry System -

Unit IV: Accounting from Incomplete Records

Methods of Calculation of Profit - Statement of Affairs Method - Preparation of final statements by Conversion method. Bill under rebate - Insolvency of Acceptor - Accommodation.

Average Due Date and Account Current.

Unit V: Royalty and Insurance of Claims

 $\label{lem:meaning-Minimum-Rent-Short Working-Recoupment of Short Working-Lessor and \\ Lessee-Sublease-Accounting Treatment$

Recent Trends in Financial Accounting

Faculty member will impart the knowledge on recent trends in Financial Accounting to the students and these components will not cover in the examination.

Text Books:

- 1. S. P. Jain and K. L. Narang 2023 Financial Accounting- I, Kalyani Publishers, New Delhi.
- 2. S.N. Maheshwari, 2023 Financial Accounting, Vikas Publications, Noida.
- 3. Shukla Grewal and Gupta,2023 "Advanced Accounts", volume 1, S.Chand and Sons, New Delhi.
- 4. Radhaswamy and R.L. Gupta: 2023 Advanced Accounting, Sultan Chand, New Delhi.
- 5. R.L. Gupta and V.K. Gupta, 2023 "Financial Accounting", Sultan Chand, New Delhi.

Supplementary Readings:

- 1. Dr. Arulanandan and Raman: 2022 Advanced Accountancy, Himalaya Publications, Mumbai.
- 2. Tulsian, 2022 Advanced Accounting, Tata McGraw Hills, Noida.
- 3. Charumathi and Vinayagam, 2023 Financial Accounting, S.Chand and Sons, New Delhi.
- 4. Goyal and Tiwari, 2023 Financial Accounting, Taxmann Publications, New Delhi.
- 5. Robert N Anthony, David Hawkins, Kenneth A. 2023 Merchant, Accounting: Text and Cases. McGraw-Hill Education, Noida.

NOTE: Latest Edition of Textbooks May be Used

Web Reference:

- 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

NOTE: Latest Edition of Textbooks May be Used

Outcome Mapping

		Programme Outcomes											Pro	gram	ıme S	pecifi	c Outc	Outcomes				
СО	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6				
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2				
CO 2	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	1				
CO 3	3	3	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	2				
CO 4	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2				
5 sh2 c	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2				

^{*3–} Strong, 2- Medium, 1- Low

Semester - I	CORE - II	L	T	P	C
23UCOAC14	PRINCIPLES OF MANAGEMENT	5			5

Learni	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 gain knowledge about the various components of staffing								
LO5:	To enable the students in understanding the control techniques of management								

Course	Course Outcomes:							
	After the successful completion of the course, the students will be able to:							
CO1:	Demonstrate the importance of principles of management.							
CO2:	Paraphrase the importance of planning and decision making in an organization.							
CO3:	Comprehend the concept of various authorizes and responsibilities of an organization.							
CO4:	Enumerate the various methods of Performance appraisal							
CO5:	Demonstrate the notion of directing, co-coordination and control in the management.							

Unit 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 - Duties & Responsibilities.

Unit 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.

Unit 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 Managemen

Unit 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 Performance Appraisal - Work from Home - Managing Work from Home [WFH].

Unit V: Directing

Motivation – Meaning - Theories – Communication – Types - Barriers to Communications – Measures to Overcome the Barriers. Leadership – Nature - Types and Theories of Leadership – Styles of Leadership - Qualities of a Good Leader – Successful Women Leaders. 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].

Recent Trends in Principles of Management

Faculty member will impart the knowledge on recent trends in Principles of Management to the students and these components will not cover in the examination.

Text Books:

- 1. Gupta.C.B, 2022 Principles of Management-L.M. Prasad, S.Chand & Sons Co. Ltd, New Delhi.
- 2. DinkarPagare,2023Principles of Management, Sultan Chand & Sons Publications, New Delhi.
- 3. P.C.Tripathi& P.N Reddy, 2022 Principles of Management. Tata McGraw, Hill, Noida.
- 4. L.M. Prasad, Principles of Management, 2022 S.Chand &Sons Co. Ltd, New Delhi.
- 5. R.K. Sharma, Shashi K. Gupta, Rahul Sharma, 2023 Business Management, Kalyani Publications, New Delhi.

Supplementary Readings:

- 1. K Sundar, 2022 Principles of Management, Vijay Nichole Imprints Limited, Chennai
- 2. Harold Koontz, Heinz Weirich, 2023 Essentials of Management, McGraw Hill, Sultan Chand and Sons, New Delhi.
- 3. Grifffin, 2022 Management principles and applications, Cengage learning, India.
- 4. H.Mintzberg 2023 The Nature of Managerial Work, Harper & Row, New York.
- 5. Eccles, R. G. & Nohria, N. Beyond the Hype 2023 Rediscovering the Essence of Management. Boston The Harvard Business School Press, India.

Web Reference:

- 1. https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1
- 2. https://www.slideshare.net/ramusakha/basics-of-financial-accounting

NOTE: Latest Edition of Textbooks May be Used

Outcome Mapping

	Programme Outcomes										Programme Specific Outcomes							
CO	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	2	2	2	2	2	2	3	3	2	2	2	3	3	2	2	2	2	2

^{*3–} Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – I

DEPARTMETAL ELECTIVE- I: PROGRAMMING IN C AND LAB

Subject	L	Т	P	S	Credits	Inst.		Mar	ks	
Code			_	5	Credits	Hours	CIA	External		Total
23UCOA E15-1	4		2		3	4	25	7	5	100
	•			L	earning Obje	ectives				
LO1	Describ	oe the c	ore synt	ax and	semantics of	C programn	ning languag	ge.		
LO2	Discov	er the n	eed for	workin	g with the str	ings and fun	ctions.			
LO3	Illustra	te the p	rocess o	of struc	turing the data	using matr	ix, struct.			
Prerequi	sites: Sh	ould h	ave stu	died C	ommerce in 2	XII Std				
Unit					Contents				No. o	
I	Introduction to C Language: C Language Introduction-Features of C Language-Benefits of C over other languages-Compilation of C Program-First Program in CPre-processor in CPre-processor directives									
II					Operators:Var s in C-Operat		-			
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	Multidimensional Arrays in C-String functions in C- Practice problems Functions in C:Function Prototype-Parameter Passing Techniques in C- Storage Classes in C-Recursion Concept -Functions in CPractice problems									
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 $S=1-x+(x^2/2!)-(x^3/3!)+\cdots-(x^n/n!)$
- 5. Write a C program to arrange the elements of an integer array using Bubble Sort algorithm.
- 6. Write a C program to input two matrices and perform matrix multiplication on them
- 7. Write a C program to check whether the given string is palindrome or not without using Library functions.
- 8. Write a C program to count the number of lines, words and characters in a given text.
- 9. Write a C program to generate Prime numbers in a given range using user defined function.
- 10. Write a C program to find factorial of a given number using recursive function.
- 11. Write a C program to maintain a record of n student details using an array of structures with four fields Roll number, Name, Marks and Grade. Calculate the Grade according to the following conditions.

Marks Grade

>=80 A

>=60 B

>=50 C

>=40 D

<40 E

Print the details of the student, given the student Roll number as input.

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

Text Books:

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

Reference Books:

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

Weblinks and Video Lectures (e-Resources):

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

<u>FIRST YEAR – SEMESTER - I</u>

<u>DEPARTMETAL ELECTIVE - I: PYTHON PROGRAMMING AND LAB</u>

Subject	L	T	P	S	Credits	Inst.		Marl	ks		
Code				5	Creates	Hours	CIA	Exte	rnal	Total	
23UC0A 15-2	E 4		2		3	4	25	7	5	100	
	Learning Objectives								L		
LO1	Describ	oe the c	ore synt	ax and	semantics of	Python prog	gramming la	nguage	·.		
LO2	Discov	er the n	need for	workin	g with the str	ings and fun	ctions.				
LO3	Illustra	te the p	rocess o	of struc	turing the data	a using lists,	dictionaries	s, tuples	s and s	sets.	
LO4	Unders	tand th	e usage	of pack	cages and Dic	tionaries					
Prerequi	sites: Sh	ould h	ave stu	died C	ommerce in 2	XII Std					
Unit					Contents				No. of Hours		
I	Softwa	re-Pyth	on prog	rammiı	rithms-Compung language - ressions and D	Literals - V	ariables and				
II	Stateme Control Boolea	Control Structures: Boolean Expressions - Selection Control - If Statement- Indentation in Python- Multi-Way Selection Iterative Control- While Statement- Infinite loops- Definite vs. Indefinite Loops- Boolean Flag. String, List and Dictionary, Manipulations Building									
III	Function Calling	Functions: Program Routines- Defining Functions- More on Functions: Calling Value-Returning Functions- Calling Non-Value-Returning Functions- Parameter Passing - Keyword Arguments in Python - Default Arguments in Python-Variable Scope. Recursion: Recursive									
IV	Objects and their use: Software Objects - Turtle Graphics - Turtle attributes-Modular Design: Modules - Top-Down Design - Python Modules -										
V	Dictionaries and Sets: Dictionary type in Python - Set Data type. Text Files: Opening, reading and writing text files – Exception Handling										
	Total										
					Course Outc	omes					
CO1	Develo	p and e	execute	simple	Python progra	ıms					
CO2	Write s	simple I	Python p	orogran	ns using condi	tionals and	looping for	solving	probl	ems	

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

Python Programming Lab

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

- Acquire programming skills in core Python.
- Acquire Object-oriented programming skills in Python.
- Develop the skill of designing graphical-user interfaces (GUI) in Python.
- Develop the ability to write database applications in Python.
- Acquire Python programming skills to move into specific branches

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

CO1: To understand the problem solving approaches

CO2: To learn the basic programming constructs in Python

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

CO4: To use Python data structures - lists, tuples, dictionaries.

List of Programs

- 1. Program to convert the given temperature from Fahrenheit to Celsius and vice versa depending upon user's choice.
- 2. Write a Python program to construct the following pattern, using a nested loop

т кж

*

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

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

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

Grade E: Percentage < 40

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

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

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

Learning Resources:

• Recommended Texts

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

Reference Books

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

$\frac{FIRST\ YEAR-SEMESTER-I}{DEPARTMETALELECTIVE\ -I\ -Computer\ Fundamentals}$

									Marks	
Subject (Code	L	T	P	S	Credits	Inst. Hours	CIA	External	Total
23UCC	OAE15-3	4				3	4	25	75	100
	Learning Objectives									
LO1						tals of Com				
LO2	To discov	er the K	nowled	ge of	newly in	vented devi	ces and Units	}		
LO3	To compu	ite with	the inte	rconn	ected net	works for th	ne linkage of	Worldwide	Networks.	
LO4	To apply	the soft	ware and	d und	erstand th	e system so	ftware			
LO5	To given	more in	formatio	on on	the Interr	net				
Prerequi	site: Shoul	d have s	studied	Com	merce in	XII Std				
Unit								No. of Hou		
I	Evolution of Computers - Generations, Types of computers, Computer system characteristics, Basic components of a Digital Computer - Control unit, ALU, Input/Output functions and memory, Memory addressing capability of a CPU, Word length of a computer, processing speed of a computer, Computer Classification.									
П	Input/Output Units-: Keyboard, Mouse, Trackball, Joystick, Digitizing tablet, Scanners, Digital Camera, MICR, OCR, OMR, Bar-code Reader, Voice Recognition, Light pen, Touch Screen, Monitors and types of monitor -Digital, Analog, Size, Resolution, Refresh Rate, Dot Pitch, Video Standard - VGA, SVGA, XGA etc., Printers & types - Daisy wheel, Dot Matrix, Inkjet, Laser, Line Printer, Plotter, Sound Card and Speakers.									
III	Memory - RAM, ROM, EPROM, PROM and other types of memory, Storage fundamentals - Primary Vs Secondary Data Storage, Various Storage Devices - Magnetic Tape, Magnetic Disks, Cartridge Tape, Hard Disk Drives, Floppy Disks (Winchester Disk), Optical Disks, CD, VCD, CDR, CD-RW, Zip Drive, flash drives Video Disk, Blue Ray Disc, SD/MMC Memory cards, Physical structure of floppy & hard disk, drive naming conventions in PC. DVD, DVD-RW, USB Pen drive.					12				
IV	Software and its Need, Types of Software - System software, Application software, System Software - Operating System, Utility Program, Algorithms, Flow Charts - Symbols, Rules for making Flow chart, Programming languages, Assemblers, Compilers and Interpreter, Computer Applications in Business.									

V	Introduction to Internet, connecting to the Internet Hardware, Software & ISPs, Search Engines, Web Portals, Online Shopping, Email – Types of email, Compose and send a message. Reply to a message, Working with emails.	12					
	TOTAL	60					
CO	Course Outcomes						
CO1	Illustrate the different types of computers						
CO2	Extracting the nature of Input and Output Devices						
CO3	Differentiate the types of Memory						
CO4	Determine system software and Explain the Structure of Algorithms, Programs and Flowcharts						
CO5	Scholastic Representation of Web Portals, Search Engines						
	Textbooks						
1	B. Ram, "Computer Fundamentals, Architecture and Organization", New Age International Publishers						
2	S.K.Basandra, "Computers Today", Galgotia Publications.						
3	P.K. Sinha, "Computer Fundamentals – P. K. Sinha – BPB Publication						
	Reference Books						
1	T. C.Bartee, "Digital Computer Fundamentals", Sixth Edition, 1991,TMH.						
2	Anita Goel, Computer Fundamentals, Pearson Publications,						
3	Ramesh Bangia, Computer Fundamentals and information technology, Firewall Media Publicati	ions					
NOTE:	Latest Edition of Textbooks May be Used						
	Web Resources						
1	https://books.google.co.in/books?id=ICjqr6V9S6UC&printsec=frontcover#v=onepage&q&f=fa	ılse					
2	https://www.google.co.in/books/edition/COMPUTER_FUNDAMENTALS_SEMESTER_1/sbf0wQEACAAJ?hl=en						
3	https://www.google.co.in/books/edition/Computer_Fundamentals/zyOYs2EqZDgC?hl=en&gbpv=1&dq=computer%20fundamentals&pg=PR6&printsec=frontcover						

Semester - I	SKILL ENHANCEMENTCOURSE -1	L	T	P	C
23UCOAN16	(NME-I) DIGITAL BANKING	2			2

Learni	Learning Objectives:						
LO1:	To acquaint students with knowledge of Digital Banking Products.						
LO2:	To enable the students to understand the knowledge of Digital Payment System						
LO3:	To impart the students to understand the new concepts of Mobile and Internet Banking						
LO4:	To enables the students to havedepth knowledgeinpoint of sale terminals						
LO5:	To understand the ATM and cash deposit system						
Course	Outcomes:						
	After the successful completion of the course, the students will be able to:						
CO1:	Explainthe need fordigital bankingproducts and theusage ofcards.						
CO2:	Classifytheusageof variouspaymentsystems.						
CO3:	Discusstheprofitability,riskmanagementandfraudsof mobileandinternetbanking.						
CO4:	AnalysetheapprovalprocessesofPOSterminals.						
CO5:	ExplaintheproductfeaturesandservicesofATMandCash DepositMachine.						

Unit I: Digital Banking Products

Digital Banking – Meaning – Features - Digital Banking Products - Features - Benefits – Bank Cards – Features and Incentives of Bank cards - Types of Bank Cards - NewTechnologies-Europay, Masterand Visa Card (EMV) - Tapand Go, Near Field Communication (NFC) etc. - Approval Processes for Bank Cards – Customer Education for Digital Banking Products - Digital Lending – Digital Lending Process - Non-Performing - Asset (NPA).

Unit II: Payment System

Overview of Domestic and Global Payment systems -RuPay and RuPay Secure - ImmediatePaymentService(IMPS)—NationalUnifiedUSSDPlatform(NUUP)-

NationalAutomatedClearingHouse(NACH)-AadhaarEnabledPaymentSystem(AEPS)-

ChequeTruncation System (CTS) –Real Time Gross Settlement Systems (RTGS)–National Electronic FundTransfer(NEFT) -InnovativeBanking&Payment Systems.

Unit III: Mobile and Internet Banking

Mobile & Internet Banking - Overview - Product Features and Diversity - Corporate and Individual Internet Banking Integration with e-Commerce Merchant sites, IMPS - Profitability - Risk Management and Frauds - Cyber Crime - Cyber Security - Blockchain Technology-Types-Crypto currency and Bitcoins

Unit IV:Point of Sale Terminals

Point of Sale (POS) Terminals - Overview - Features - Approval processes for POS Terminals - Key Components of POS - Hardware - Software - User Interface Design - CloudbasedPoint of Sale - Cloud Computing-BenefitsofPOSin RetailBusiness.

Unit V: Automated Teller Machine and Cash Deposit Systems

Automated Teller Machine(ATM) - CashDeposit Machine(CDM)& Cash Recyclers - Overview -Features - ATM Instant Money TransferSystems - National Financial Switch (NFS) -Various Value Added Services - Proprietary, BrownLabel and White Label ATMs - ATM & CDM Network Planning - Onsite / Offsite - ATM security, Surveillance and FraudPrevention.

Recent Trends in Digital Banking

Faculty member will impart the knowledge on recent Developments in Digital Banking to the students and these components will not cover in the examination.

Text Books:

- 1. IIBF,2019.DigitalBanking.TaxmannPublications, New Delhi
- 2. Gordon E. & Natarajan S. 2017 Banking Theory, Law and Practice. 24th Revised Edition. Himalaya Publishing House, New Delhi
- 3. RavindraKumarandManishDeshpande. 2016 E-Banking.PacificBooksInternational,2016.
- 4. UppalR.K. 2017 E-Banking: The Indian Experience. Bharti Publications, 2017.

Supplementary Readings:

- 1. Arunajatesan S 2017 Technology in Banking Margham Publications Chennai...
- 2. Digital Banking 2016 Indian Institute of Banking and Finance, Pvt Limited New Delhi.
- 3. Indian Institute of Banking and Finance, 2016 ,General Bank Management, McMillan, Mumbai
- 4. SubbaRao S and Khanna. P.L 2014 Principles and Practice of Bank Management, Himalya Publishing House, Mumbai.

Web Reference:

- 1 https://ebooks.lpude.in/commerce/bcom/term 4/DCOM208 BANKING THEORY AND PR ACTICE.pdf
- 2 <u>http://www.himpub.com/documents/Chapter1859.pdf.</u>

Semester-I FOUNDATION COURSE L	T	P	C
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A bridge course for the students of commerce faculty is conducted every year to getthestudentstheknowledgeofcommercefaculty. Themainobjectiveofthecourseis to bridge the gap between subjects studied at School level and subjectsthey would be studying in commerce faculty. A Bridge course aims to cover the gap between the understanding level of the higher secondary school courses and higher educational courses. Bridge course is preparative course for college level course with anacademic curriculum that is offered to enhance the knowledge of the students bymeans of preparing for the intellectual challenges of commerce subject and to know basicinformationaboutcoresubject.

Bridge courses are the tool to help students to success in their graduate levelstudies. It is also a pre requisite and foundational course to know the basicinformation aboutcommerce subjects.

FUNDAMENTALS OF BUSINESS STUDIES

Objective

The bridge course aims to act as a buffer for the new entrants with an objective toprovide adequate time for the transition to hard core of degree courses. This givesthem a breather, to prepare themselves before the onset of courses for first yeardegree programme.

Cours	Course Outcomes:								
	After the successful completion of the course, the students will be able to:								
CO1	Tomakethestudentsfamiliarwiththebasicconceptsof c o m m e r c e, and								
:	Management Fields.								
CO2 :	ToencourageandmotivatetheStudentsforthecommerceEducation.								
CO3	TomakethestudentsawaretowardsthevariousbranchesofcommerceforExample,Account								
:	s,Bankingand Auditing.								

Unit I Commerce-Introduction

Definition of Commerce -Importance's of Commerce -Meaning of barter system --business-industry-trade-hindrances oftrade-branchesofCommerce.

Unit II Accounting-Introduction

Book-Keeping-Meaning -Definition -Objectives-Accounting-Meaning -Definition-Objectives-Importance-Functions-Advantages-Limitations-Methodsof Accounting-Single Entry Double Entry-Steps involved indouble entry system-Advantages of double entry system-Meaning of Debit andCredit-Types of Accounts and its rules-Personal Accounts-Real Accounts-NominalAccounts.

Unit III Marketing and Advertising

Meaning of Marketing-Definition-Functions of Marketing-Meaning of Consumer – Standardization and Grading -Pricing –Kinds of Pricing -AGMARK-ISI-Advertising: Meaning, Characteristics, Advertising Objectives, Advertising Functions Advantages of advertising, Kinds of Advertising, Advertising Media, Kindsof media

Unit IV Auditing & Entrepreneurial Development

Introduction of Auditing -Origin and Evolution –Definition -Features of Auditing -Objectives of Auditing Advantages of Audit -Limitations of Auditing -Distinction between Auditing & Investigation -Distinction between Accounting&Auditing -BasicPrinciplesofAudit-ClassificationofAudit- Entrepreneurial Development-Characteristics of an entrepreneur-Functionsof an entrepreneur-Types of an entrepreneur -Problems of Women entrepreneur-Conceptof WomenEntrepreneurs

Unit V: Income Tax Law and Practice

Tax history-Types –Various Terms in Tax-Exempted Income U/S 10-Canons of Taxation-Income Tax Authority and Administration-Slab Rate -Filingof Returns-Residential Status. **Text Books:**

- 1. L.M. Prasad, Principles of Manaement, 2022 S.Chand &Sons Co. Ltd, New Delhi.
- 2. S. P. Jain and K. L. Narang 2023 Financial Accounting- I, Kalyani Publishers, New Delhi.
- 3. Dr. N. Rajan Nair, 2023 Marketing, Sultan Chand & Sons. New Delhi
- 4. Jayashree Suresh, (Reprint 2017) Entrepreneurial Development, Margham Publications. Chennai
- 5. Sundar K. and Paari, 2016 Auditing Vijay Nicole, Imprints Private Ltd, Chennai.
- 6. T. Srinivasan 2024 Income Tax & Practice –Vijay Nicole Imprints Private Limited, Chennai.

Semester - II	CORE- III : FINANCIAL ACCOUNTING-II	L	T	P	С
23UCOAC23	CORE- III : FINANCIAL ACCOUNTING-II	5			5

Learni	Learning Objectives:								
LO1:	The students are able to prepare different kinds of accounts such Higher purchase and Instalments System.								
LO2:	To understand the allocation of expenses under departmental accounts								
LO3:	To gain an understanding about partnership accounts relating to Admission and retirement								
LO4:	Provides knowledge to the learners regarding Partnership Accounts relating to dissolution of firm								
LO5:	To know the requirements of international accounting standards								

Course	Course Outcomes:								
	After the successful completion of the course, the students will be able to:								
CO1:	To evaluate the Hire purchase accounts and Instalment systems								
CO2:	To prepare Branch accounts and Departmental Accounts								
CO3:	To understand the accounting treatment for admission and retirement in partnership								
CO4:	To know Settlement of accounts at the time of dissolution of a firm.								
CO5:	To elaborate the role of IFRS								

Unit 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

Unit II:Branch and Departmental Accounts

Branch – Dependent Branches: Accounting Aspects - Debtors system -Stock and Debtors system – Distinction between Wholesale Profit and Retail Profit – Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses – Inter- Departmental Transfer at Cost or Selling Price.

Unit III: Partnership Accounts - I

Partnership Accounts: –Admission of a Partner – Treatment of Goodwill - Calculation of Hidden Goodwill –Retirement of a Partner – Death of a Partner.

Unit IV: Partnership Accounts - II

Dissolution of Partnership - Methods - Settlement of Accounts Regarding Losses and Assets - Realization account - Treatment of Goodwill - Preparation of Balance Sheet - Insolvency of a Partner - One or more Partners insolvent - All Partners insolvent - Garner Vs Murray - Accounting Treatment - Piecemeal Distribution - Surplus Capital Method - Maximum Loss Method.

Unit V:Accounting Standards for financial reporting

Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in India- Requirements of International Accounting Standards - Role of Developing IFRS- IFRS Adoption or Convergence in India-

Implementation Plan in India- Ind AS- An Introduction - Difference between Ind AS and IFRS.

Recent Trends in Financial Accounting

Faculty member will impart the knowledge on recent trends in Financial Accounting to the students and these components will not cover in the examination.

Note: Question Paper shall cover 20%Theory and 80% Problems.

Text Books:

- 1. S. P. Jain and K. L. Narang 2023 Financial Accounting- I, Kalyani Publishers, New Delhi.
- 2. S.N. Maheshwari, 2023 Financial Accounting, Vikas Publications, Noida.
- 3. Shukla Grewal and Gupta,2023 "Advanced Accounts", volume 1, S.Chand and Sons, New Delhi.
- 4. Radhaswamy and R.L. Gupta: 2023 Advanced Accounting, Sultan Chand, New Delhi.
- 5. R.L. Gupta and V.K. Gupta, 2023 "Financial Accounting", Sultan Chand, New Delhi.

Supplementary Readings:

- Dr. Arulanandan and Raman: 2022 Advanced Accountancy, Himalaya Publications, Mumbai.
- 2. Tulsian, 2022 Advanced Accounting, Tata McGraw Hills, Noida.
- 3. Charumathi and Vinayagam, 2023 Financial Accounting, S.Chand and Sons, New Delhi.
- 4. Goyal and Tiwari, 2023 Financial Accounting, Taxmann Publications, New Delhi.
- 5. Robert N Anthony, David Hawkins, Kenneth A. 2023 Merchant, Accounting: Text and Cases. McGraw-Hill Education, Noida.

NOTE: Latest Edition of Textbooks May be Used

Web Reference:

- 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

Outcome Mapping

	Programme Outcomes												Pro	gram	me S	pecifi	c Outc	omes
CO	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
CO1	3	3	3	3	2	3	3	3	3	2	2	1	2	3	2	2	2	1
CO2	3	3	3	3	2	3	3	3	3	2	2	1	2	3	2	2	2	1
CO3	3	3	3	3	2	3	3	3	3	2	1	1	2	3	2	1	1	1
CO4	3	3	3	3	2	3	3	3	3	2	2	2	2	3	2	2	2	2
CO5	2	2	2	2	3	2	2	2	2	3	1	1	2	2	3	1	1	1

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

23UCOAC24	CORE-II: BUSINESS LAW	L	T	P	C
Semester - II	CORE-II; BUSINESS LAW	5			5

Learni	Learning Objectives:							
LO1:	To know the nature and objectives of Mercantile law							
LO2:	Γο understand the essentials of valid contract							
LO3:	To gain knowledge on performance contracts							
LO4:	To define the concepts of Bailment and pledge							
LO5:	To understand the essentials of contract of sale							

Course	Course Outcomes:								
	After the successful completion of the course, the students will be able to:								
CO1:	Explain the Objectives and significance of Mercantile law								
CO2:	Understand the clauses and exceptions of Indian Contract Act.								
CO3:	Explain concepts on performance, breach and discharge of contract.								
CO4:	Outline the contract of indemnity and guarantee								
CO5 :	Explain the various provisions of Sale of Goods Act 1930								

Unit I:Introduction

An introduction – Definition – Objectives of Law - Law: Meaning and its Significance, Mercantile Law: Meaning, Definition, Nature, Objectives, Sources, Problems of Mercantile Law

Unit II : Elements of Contract

Indian Contract Act 1872: Definition of Contract, Essentials of Valid Contract, Classification of Contract, Offer and Acceptance – Consideration – Capacity of Contract – Free Consent - Legality of Object – Contingent Contracts – Void Contract

Unit III:Performance 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

Unit IV: 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 - Bailment and Pledge - Bailment - Concept - Essentials and Kind - 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.

Unit V:Sale of Goods Act 1930

 $\label{lem:contract} \begin{array}{l} \text{Definition of Contract of Sale - Formation - Essentials of Contract of Sale - Conditions and Warranties - Transfer of Property - Contracts involving Sea Routes - Sale by Non-owners - Rights and duties of buyer - Rights of an Unpaid Seller \\ \end{array}$

Recent Amendements in Business Law

Faculty member will impart the knowledge on recent Amendments in Business Law to the students and these components will not cover in the examination.

Text Books:

- 1. N.D. Kapoor, 2023 Business Laws Sultan Chand and Sons, New Delhi.
- 2. R.S.N. Pillai 2023 Business Law, S.Chand, New Delhi.
- 3. M C Kuchhal & Vivek Kuchhal, 2023 Business law, S Chand Publishing, New Delhi
- 4. M.V. Dhandapani,2023 Business Laws, Sultan Chand and Sons, New Delhi.
- 5. Shusma Aurora, 2023 Business Law, Taxmann, New Delhi.

Supplementary Readings:

- 1. Preethi Agarwal, 2023 Business Law, CA foundation study material, Chennai.
- 2. Saravanavel, Sumathi, Anu, 2023 Business Law Himalaya Publications, Mumbai.
- 3. Kavya and Vidhyasagar, 2023 Business Law, Nithya Publication, New Delhi.
- 4. D.Geet, Business Law 2023 Nirali Prakashan Publication, Pune.
- 5. M.R. Sreenivasan, 2023 Business Laws, Margham Publications, Chennai.

NOTE: Latest Edition of Textbooks May be Used

Web Reference:

- 1. www.cramerz.comwww.digitalbusinesslawgroup.com
- 2. http://swcu.libguides.com/buslaw
- 3. http://libguides.slu.edu/businesslaw

Outcome Mapping

	Programme Outcomes												Pro	gram	me S	pecifi	c Outc	omes
CO	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
CO1	3	3	3	3	3	2	3	3	3	3	2	2	1	2	3	2	2	2
CO2	2	3	3	3	3	2	3	3	3	3	2	2	1	2	3	2	2	2
CO3	2	3	3	3	3	2	3	3	3	3	2	1	1	2	3	2	1	2
CO4	2	3	3	3	3	2	3	3	3	3	2	2	2	2	3	2	2	2
CO5	2	2	2	2	2	3	2	2	2	2	3	1	1	2	2	3	2	2

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

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

$\underline{\textbf{DEPARTMENTAL ELECTIVE-II:}}$

OFFICE AUTOMATION AND LAB (Evaluation Theory Only)

Subject	L	Т	P	S	Credits	Inst.	Marks					
Code						Hours	CIA	External	Total			
23UCOA E25-1	2		2		3	4	25	75	100			
	Learning Objectives											
LO1		s in Mi	crosoft		ucing the Cor which has diff	_		-	_			
LO2	The co	urse is l	nighly p	ractice	oriented rathe	er than regul	ar class roo	m teaching.				
LO3	LO3 To acquire knowledge on editor, spread sheet and presentation software.											
Prerequi	Prerequisites: Should have studied Commerce in XII Std											

Unit	Contents	No. of
		Hours
	Introductory concepts: Hardware and Software - Memory unit - CPU-	
I	Input Devices: Key board, Mouse and Scanner. Output devices:	
	Monitor, Printer. Introduction to Operating systems - Introduction to Programming Languages.	
	Word Processing: File menu operations - Editing text – tools,	
II	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,	
111	navigating; Formulas – entering, handling and copying	
	Charte questing formatting and minting analysis tables proposed in	
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	
	Course Outcomes	
CO1	Understand the basics of computer systems and its components.	
CO2	Understand and apply the basic concepts of a word processing package.	
CO3	Understand and apply the basic concepts of electronic spreadsheet softwa	
CO4	Understand and apply the basic concepts of database management system	l .
CO5	Understand and create a presentation using PowerPoint tool.	
	Textbooks	
1	Peter Norton, "Introduction to Computers" –Tata McGraw-Hill.	
	Reference Books	
4	Jennifer Ackerman Kettel, Guy Hat-Davis, Curt Simmons, "Microsoft 20	03", Tata
1	McGraw- Hill.	
NOTE:	Latest Edition of Textbooks May be Used	
	Web Resources	
1	Web content from NDL / SWAYAM or opensource web resources	
	I .	

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

<u>FIRST YEAR – SEMESTER - II</u>

DEPARTMENTAL ELECTIVE-II: PROGRAMMING IN C++ AND LAB

_		AKTWIEN	IALE	<u>ELECTI</u>	VE-II: PROG		G IN C++ AND LAB Marks					
Subject Code	L	T	P	S	Credits	Inst. Hours	CTA	T 7.		m . 1		
							CIA	Exte	rnal	Total		
23UCOA E25-2	2		2		3	4	25	7	5	100		
				L	earning Obj	ectives						
LO1	To enge	ender a	n appre	ciation	for the need a	nd character	ristics of Ob	oject-or	ientati	on.		
LO2	_	To impart knowledge of the C++ language grammar in order to design and implement programming solutions to simple problems by applying Object-oriented thinking.										
Prerequis	sites: Sh	ould h	ave stu	died C	ommerce in 2	XII Std						
Unit					Contents					No. of Hours		
I	Object Oriented Programming Concepts: Complexity in software - The need for object-orientation – Abstraction – Encapsulation – Modularity – Hierarchy. Basic Elements of C++: Classes – Objects – Data members and member functions – private and public access specifiers - Static members - Constructors – Singleton class - Destructors											
П	objects Names Function Overload Operate	- this paces. on Over ading Cor Over	pointer cloading constructions	- Ref g: Over tors. : Overl	d Classes - A ferences - Dy cloading a fur oading an ope friend function	ynamic mer action - Def erator as a m	nory alloca	ents –				
III	Overloa Function Virtua	ading thons.Inheal Base	ne opera eritance: Class -	ators []. : Types - Base	, (), -> and co s of inheritanc class and der Functions	mma operat e – protecte	d access sp	ecifier				
IV	Function Templa	on overi	riding - inction	Pure vi	rtual function tes – Overlo			late –				
V	Class templates. Exception Handling: Exceptions – try, catch, throw – Rethrowing an exception – Restricting exceptions - Handling exceptions in derived classes - terminate(), abort(), unexpected(), set_terminate(). I/O Streams: Formatted I/O with ios class functions - Manipulators – Creating own manipulator – Overloading << and >> operators.											
					Total							
					Course Outc	omes						
CO1	Explain	the va	rious ba	sic con	ncepts of Obje	ct-orientatio	on.					

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

<u>FIRST YEAR – SEMESTER - II</u>

Object Oriented Programming with C++

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

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

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

- CO1: Design and create classes.Implement Stream I/O as appropriate.
- CO2: Design appropriate data members and member functions.
- CO3: Implement functions, friend functions, static members, constructors and compile-time polymorphism.
- CO4: Implement inheritance, run-time polymorphism and destructors.
- CO5: Implement templates and exceptions. Use STL class library.Implement File I/O.

List of Programs

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

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

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

Learning Resources:

Learning Resources:

Recommended Texts

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

Reference Books

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

<u>FIRST YEAR – SEMESTER – II</u>

<u>DEPARTMENTAL ELECTIVE–II</u> – Information and Cyber Laws								
							Marks	

			Marks													
Subje code		L	Т	P	S	Credits	Inst. Hours	CIA	CIA Extern al							
23UCO. 5-3						100										
Learning Objectives																
LO1	LO1 To review the basic concepts and fundamental knowledge in the field informatics.									the field						
LO2	the	impac	t of in	format	tics on	he nature of business de	cisions.	ng digital	knowledge	e society ar						
LO3	То	enligh	ten the	e socia	l infor	matics in IT	& Society									
LO4	To i	nstil 1	the imp	portan	ce of c	yber world										
LO5	Тос	create	an aw	arenes	s abou	it the cyber v	world and c	yber regi	ılations							
Prerequ	isite:	Shou	ld hav	ve stud	lied C	ommerce in	XII Std			37 0						
Unit						Contents				No. of Hours						
I	Overview of Informatics- meaning, feature and importance - Computer networks & Internet, wireless technology, cellular wireless networks, introduction to mobile phone technology, Purchase of technology, license, guarantee, and warranty. New development in informatics															
П	know up, acad web Intro	Knowledge Skills for Higher Education- Data, information and knowledge, knowledge management, Internet access methods –Dialup, DSL, Cable, ISDN, Wi-Fi. Internet as a knowledge repository, academic search techniques, creating cyber presence. Academic websites, open access initiatives, opens access publishing models, Introduction to use of IT in teaching and learning - Educational software, Academic services – INFLIBNET, NICNET, BRNET.														
III	Social Informatics- IT & Society— issues and concerns— digital divide, IT & development, IT for national integration, overview of IT application in medicine, healthcare, business, commerce, industry, defence, law, crime detection, publishing, communication, resource management, weather forecasting, education, film and media, IT in service of disabled, Futuristic IT — artificial intelligence, Virtual reality, bio computing. Health issues — guide lines for proper usage of computers, internet and mobile phones E-wastes and green computing, impact of IT on language & culture-localization issues															
IV	CYI ethi	BER cs, c	WOR yber	LD - addicti	Cybe ions,	r space, int	Formation – catego	overload ories –	person,	12						
	secu	rity &	k priva	acy iss	ues	Scope of c	king, hara									

	IT Act 2000, cyber related Provisions under IPC	
	TOTAL	60
CO	Course Outcomes	
CO1	Apply Information Security Standards compliance during software desig development	n and
CO2	Analyze the knowledge skills in informatics	
CO3	Implication of social informtics in IT & society and various consequence informatics	es in social
CO4	Understand the concept of cybercrime and its effect on outside world	
CO5	Interpret and apply IT law in various legal issues	
	Textbooks	
1	Ramesh Bangia. Learning Computer Fundamentals, Khanna Publishers,	New Delhi
2	Rajaraman, Introduction to information Technology, PHI, New Delhi.	
3	Alexis Leon & Mathews Leon. Fundamentals of Information Techno Publishing House, New Delhi.	logy, Vikas
4	Ramachandran et.al , Informatics and Cyber laws, Green Tech Books, Thiruvananthapuram	
	Reference Books	
1	Barbara Wilson. Information Technology: The Basics, Thomson Learnin	ng
2	George Beekman, Eugene Rathswohl. Computer Confluence, Pearson New Delhi.	Education,
3	IT Act 2000, 8. RohasNagpal, IPR & Cyberspace – Indian Perspective	
NOTE:	Latest Edition of Textbooks May be Used	
	Web Resources	
1	https://www.google.co.in/books/edition/INFORMATICS/jKd2BAAAQl &gbpv=1& dq=informatics%20and%20cyber%20laws&pg=PP1&printsec=frontcov	
2	https://www.google.co.in/books/edition/Cybercrime and Information TmZhF EAAAQBAJ?hl=en&gbpv=1&dq=informatics%20and%20cyber%20lav 1&printsec= Frontcover	vs&pg=PP
3	https://www.youtube.com/watch?v=NG2KAtL_QtQ&list=PLb_GOtSrd ApZw 265y35dm4QKe	rpupqX1M

Semester-II	SKILL ENHANCEMENTCOURSE-2	L	T	P	С
23UCOAN26	(NME –II) FUNDAMENTALS OF FINTECH	2			2

Learnin	Learning Objectives:							
LO1:	To educate the students to introduce Fintech							
LO2:	To gain knowledge in Financial Technology and Digital payments							
LO3:	To acquire knowledge in Cryptocurrencies							
LO4:	To know the knowledge in Block Chain Technology							
LO5:	To understand the effects of fintech on various sectors							
Course	Outcomes:							
	After the successful completion of the course, the students will be able to:							
CO1:	Identify the benefits of FinTech industry;							
CO2:	Enable a better understanding of Financial Technology and Digital Payments							
CO3:	Analyse the functioning of Cryptocurrency							
CO4:	Explain the impact of Block Chain Technology							
CO5:	Evaluate the effects of Fintech on various sectors							

Unit I: Introduction to Fintech

Introduction – Meaning of FinTech - Definitions - The History And Evolution Of The Fintech Industry - FinTech Ecosystem - Recent Developments - FinTech In India - FinTech Market Trends In India - Types Of FinTech or Transformation of Financial Services - Benefits Of FinTech - Drawbacks Of FinTech - Key Growth Drivers - Challenges

Unit II: Financial Technology and Digital Payments

Introduction -Artificial Intelligence (AI) in FinTech-Machine Learning in FinTech - Machine Learning in Accounting and Finance - Robotic Process Automation (RPA) — Financial Data Analytics - Data Science and Big Data in FinTech - Digital Payments - Cashless Society - DFS Eco System -Developing Countries and DFS: The Story of Mobile Money - RTGS networks;

Unit III: Cryptocurrencies

Cryptocurrencies - benefits - disadvantages- Examples of cryptocurrencies - Outline of cryptocurrency - types- wallet - Legal and Regulatory Implications - legal position of cryptocurrencies in India - Impact on cryptocurrencies

Unit IV: Blockchain Technology

Blockchain Technology in FinTech – An understanding of Blockchain technology, its potential, and applications - BCT in Banking – Benefits of BCT in banking - BCT in Indian Banking Sector - BCT insupply chain management

Unit V: Effects of Fin-Tech on Various Sectors

Effects of Fin-tech on Payment Innovations – The Implications of Fintech On Real Estate, Insurance, Health, And Payment Innovations – The effects of Fin-tech on Payment Innovations – Health- Real-Estate- Insurance Sector- Capital Market - Key Fin-tech trends - FinTech Around the Globe: Asia, Middle East, South America, Europe, Southeast Asia / Australia and Africa

Recent Trends in Fintech

Faculty member will impart the knowledge on recent trends in Fintech to the students and these components will not cover in the examination.

Text Books:

- 1. Dheenadhayalan V and Vijay C, 2022 Fintech, Vijay Nicole Imprints Pvt. Ltd, Chennai
- 2. Sanjay Phadke., 2020 Fintech Future: The Digital Dna Of Finance Paperback –
- 3. Agustin Rubini, 2021 Fintech in a Flash: Financial Technology Made Easy (new edition) Kindle Edition

Supplementary Readings:

- 1. Aravind Narayanan 2022 Bitcoin and Cryptocurrency Technologies: A Comprehensive Introduction
- 2. Joseph Bonneau, Edward Felten, Andrew Miller, Steven Goldfeder, 2022 Princeton University
- 3. SlavaGomzin 2020 Bitcoin for Non-Mathematicians: Exploring the foundations of Crypto, Universal Publishers, USA
- 4. The Robotics Process Automation, Handbook: A Guide to Implementing, Tom Taulli/Apress, Latest 1 ST Edition 2020 Website Reference:

 https://www.ibm.com/industries/banking-financial-markets/resources/omnichannelbanking-paper/.

 https://thefinancialbrand.com/111080/evolution-future-digital-banking-baas
- 5. Diamandis, P. H., & Kotler, S. 2020. The Future Is Faster Than You Think: How Converging Technologies Are Disrupting Business, Industries, and Our Lives. New York: Simon & Schuster

SEMESTER: III CORE-V PART: III

23UCOAC33: CORPORATE ACCOUNTING I

CREDIT: 5 HOURS: 5/W

	Learning Objectives							
LO1	To understand about the pro-rata allotmentand Underwriting of Shares							
	To know the provisions of companies Act regarding Issue and Redemption of Preference sha	res and						
LO2	debentures							
LO3	To learn the form and contents of financial statements as per Schedule III of Companies Act	2013						
LO4	To examine the various methods of valuation of Goodwill and shares							
LO5	To identify the Significance of International financial reporting standard (IFRS)							
Prere	quisite: Should have studied Financial Accounting in I Year							
Unit	Contents	No. of						
		Hours						
	Issue of Shares							
I	Issue of Shares – Premium - Discount - Forfeiture - Reissue – Pro-rata Allotment Issue of	15						
1	Rights and Bonus Shares - Underwriting of Shares and Debentures - Underwriting							
	Commission - Types of Underwriting.							
	Issue & Redemption of Preference Shares & Debentures							
II	Redemption of Preference Shares-Provisions of Companies Act- Capital Redemption							
	Reserve – Minimum Fresh Issue – Redemption at Par, Premium and Discount.	15						
	Debentures: Issue and Redemption – Meaning – Methods – In-One lot–in Instalment –							
	Purchase in the Open Market includes Ex Interest and Cum Interest - Sinking Fund							
	Investment Method.							
	Final Accounts							
III	Introduction – Final Accounts – Form and Contents of Financial Statements as Per	15						
	Schedule III of Companies Act 2013 – Part I Form of Balance Sheet – Part II Form of							
	Statement of Profit and Loss – Ascertaining Profit for Managerial Remuneration							
	Valuation of Goodwill & Shares							
13.7	Valuation of Goodwill – Meaning – Need for Valuation of Goodwill – Methods of Valuing	15						
IV	Goodwill – Average Profit – Super Profit – Annuity and Capitalisation Method. Valuation of Shares – Need for Valuation of Shares – Methods of Valuation of Shares –	15						
	Net Assets Method – Yield and Fair Value Methods.							
	Indian Accounting Standards							
	International Financial Reporting Standard (IFRS)—Meaning and its Applicability in							
	India - Indian Accounting Standards – Meaning – Objectives – Significance – Procedures							
	for Formulation of Standards – Ind AS – 1 Presentation of Financial Statement, Ind AS –							
V	2 Valuation of Inventories, Ind AS – 7 Cash Flow Statement, Ind AS – 8 Accounting	15						
	Policies, Changes in Accounting Estimate and Errors, Ind AS – 16 – Property, Plant &							
	Equipment, Ind AS 38 – Intangible Assets Ind AS – 103, Business Combinations Ind AS							
	110, Consolidated Financial Statement. (Theory Only)							
	TOTAL	75						
THE	ORY 20% & PROBLEMS 80%							
	Course Outcomes							
CO1	Prepare and account for various entries to be passed in case of issue, forfeiture and reissue of	shares						
CO1	and compute the liability of underwrites							
CO2	Asses the accounting treatment of issue and redemption of preference shares and debentures							
CO3	Construct Financial Statements applying relevant accounting treatments							
CO4	Compute the value of goodwill and shares under different methods and assess its applicabilit	<u>y</u>						
CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS							

	Textbooks							
1	S.P. Jain and N.L. Narang, Advanced Accounting Vol I, Kalyani Publication, New Delhi.							
2	R.L. Gupta and M. Radha swamy, Advanced Accounts Vol I, Sultan Chand, New Delhi.							
3	Broman, Corporate Accounting, Taxmann, New Delhi.							
4	Shukla, Grewal and Gupta- Advanced Accounts VolI,S.Chand, New Delhi.							
5	M.C.Shukla, Advanced accounting Vol I, S.Chand, New Delhi.							
	Reference Books							
1	T.S. Reddy, A. Murthy – Corporate Accounting- Margham Publication, Chennai.							
2	D.S.Rawat&NozerShroff,Students Guide To Accounting Standards ,Taxmann, New Delhi							
3	Prof. Mukeshbramhbutt, Devi, Corporate Accounting I, Ahilya Publication, Madhya Pradesh							
4	Anil Kumar, Rajesh kumar, Corporate accounting I, Himalaya Publishing house, Mumbai.							
5	PrasanthAthma, Corporate Accounting I, Himalaya Publishing house, Mumbai.							
NOTI	E: Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://www.tickertape.in/blog/issue-of-shares/							
2	https://www.taxmann.com/bookstore/bookshop/bookfiles/chapter12valuationofgoodwillandshares.pdf							
3	https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accounting-standards.html							

	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

SEMESTER: III CORE-VI PART: III

23UCOAC34: BUSINESS MATHEMATICS & STATISTICS

CREDIT: 5 HOURS: 5/W

	Learning Objectives	
LO1	To impart knowledge on the basics of ratio, proportion, indices and proportion	rtions
LO2	To learn about simple and compound interest and arithmetic, geometric at	
	progressions.	
LO3	To familiarise with the measures of central tendency	
LO4	To conceptualise with correlation co-efficient	
LO5	To gain knowledge on time series analysis	
Unit	isite: Should have studied Commerce in XII Std Contents	No. of
Omt		Hours
I	Ratio Ratio, Proportion and Variations, Indices and Logarithms.	15
	Interest and Annuity	15
II	Banker's Discount – Simple and Compound Interest - Arithmetic,	
	Geometric and Harmonic Progressions. Annuity - Meaning - Types of Annuity Applications.	
	Business Statistics Measures of Central Tendency	15
	Arithmetic Mean, Geometric Mean - Harmonic Mean - Mode and	
III	Median – Quartiles – Deciles - Percentiles. Measures of Variation –	
	Range - Quartile Deviation and Mean Deviation - Variance and	
	Standard Deviation & Co-efficient.	
	Correlation and Regression	15
IV	Correlation - Karl Pearson's Coefficient of Correlation - Spearman's	
	Rank Correlation – Regression Lines and Coefficients.	
ĺ	Time Series Analysis and Index Numbers	15
V	Time Series Analysis: Secular Trend – Seasonal Variation – Cyclical	
*	variations - Index Numbers - Aggregative and Relative Index - Chain	
	and Fixed Index – Wholesale Index – Cost of Living Index.	
	TOTAL	75
	Course Outcomes	
CO1	Learn the basics of ratio, proportion, indices and logarithm	
CO2	Familiarise with calculations of simple and compound interest and arithm geometric and harmonic progressions.	etic,
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 publis Chennai	hing house,
2	Asim Kumar Manna, Business Mathematics & Statistics, McGraw hill ed Noida	ucation,

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: 1	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/							

	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

SEMESTER: III ELECTIVE: III PART: III

23UCOAE35-1: PROGRAMMING IN JAVA AND LAB

CREDIT: 3 HOURS: 4/W

	Learning Objectives									
LO1	To provide fundamental knowledge of object-oriented programming.									
LO2	To equip the student with programming knowledge in Core Java from the basics up.									
LO3	To enable the students to use AWT controls, Event Handling and Swing for GUI.									
LO4	To gain practical expertise in coding Core Java programs									
LO5	To become proficient in the use of AWT, Event Handling and Swing.									
Prerequ	isite: Should have studied Commerce in XII Std									
Unit	Contents	No. of Hours								
I	Introduction: Review of Object-Oriented concepts - Java buzzwords (Platform independence, Portability, Threads)- JVM architecture – Java Program structure - – Java main method - Java Console output(System.out) - simple java program - Data types - Variables - type conversion and casting- Java Console input: Buffered input - operators - control statements - Static Data - Static Method - String and String Buffer Classes									
II	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	Multithreaded Programming: Thread Class - Runnable interface - Synchronization - Using synchronized methods - Using synchronized statement - Interthread Communication - Deadlock.									
V	Adapter classes - Inner classes - Java Util Package / Collections Framework: Collection & Iterator Interface- Enumeration- List and ArrayList- Vector- Comparator									
	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							
CO4	Code, debug and execute Java programs to solve the given problems							
CO5	Implement functionality using String and String Buffer classes							
	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	Progran	nming	Lab
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Core -S2EC1L

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

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

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

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

CO2: Implement multi-threading and exception-handling

CO3: Implement functionality using String and StringBuffer classes

List of Programs

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

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

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

Learning Resources:

Recommended Texts

Herbert Schildt, The Complete Reference, Tata McGraw Hill, New Delhi, 7th Edition, 2010.

Gary Cornell, Core Java 2 Volume I – Fundamentals, Addison Wesley, 1999.

Reference Books

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

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

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

SEMESTER: III ELECTIVE: III PART: III

23UCOAE35-2: WEB TECHNOLOGY(PHP) AND LAB

CREDIT: 3 HOURS: 4/W

	Learning Objectives								
LO1	To use PHP and MySQL to develop dynamic web sites for user on the Int	ernet							
LO2	To develop web sites ranging from simple online information forms to complex e-commerce sites with MySQL database, building, connectivity, and maintenance								
LO3	The objectives of this course are to have a practical understanding about h writePHP code to solve problems	The objectives of this course are to have a practical understanding about how to writePHP code to solve problems							
LO4	Test, debug, and deploy web pages containing PHP and MySQL.								
LO5	It also aims to introduce practical session to develop simple applications using PHP andMySQL.								
Prerec	uisite: Should have studied Commerce in XII Std								
Unit	Contents	No. of Hours							
I	Introducing PHP – Basic development Concepts – Creating first PHP Scripts – Using Variableand Operators – Storing Data in variable – Understanding Data types – Setting and Checkingvariables Data types – Using Constants – Manipulating Variables with Operators.								
II	Controlling Program Flow: Writing Simple Conditional Statements - Writing More ComplexConditional Statements - Repeating Action with Loops - Working with String and NumericFunctions.								
III	Working with Arrays: Storing Data in Arrays – Processing Arrays with Loops and Iterations –Using Arrays with Forms - Working with Array Functions – Working with Dates and Times.								
IV	Using Functions and Classes: Creating User-Defined Functions - Creating Classes – UsingAdvanced OOP Concepts.								
V	Working with Database and SQL: Introducing Database and SQL-Using MySQL-Adding andmodifying Data-Handling Errors – Using SQLite Extension and PDO Extension. IntroductionXML - Simple XML and DOM Extension.								
	TOTAL								
CO	Course Outcomes								

CO1	Understand the general concepts of PHP scripting language for the development of
	Internetwebsites.
CO2	Understand the basic functions of MySQL database program and XML concepts
CO3	Learn the relationship between the client side and the server side scripts.
CO4	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.
CO5	Develop a MySQL database and establish connectivity using MySQL.
	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.
NOTE	: Latest Edition of Textbooks May be Used
	Web Resources
1	https://www.w3schools.com/php/
2	https://www.phptpoint.com/php-tutorial-pdf/
3	http://www.xmlsoftware.com/

WEB TECHNOLOGY LAB

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

- The objectives of this course are to have a practical understanding about how to 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.

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

	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

SEMESTER: III SEC: IV PART: III

23UCOAS36: STOCK MARKET OPERATIONS

CREDIT: 1 HOURS: 1/W

Learni	Learning Objectives:						
LO1:	To acquaint students with knowledge of Securities Market						
LO2:	O2: To enable the students to understand the knowledge of Practice Trading on Stoom Market						
T 02							
LO3:	To impart the students to understand the legal frame work of securities Market						
LO4:	To enables the students to havedepth knowledgein different segment of stock						
LO4.	exchange						
LO5:	To understand the role of Demat Trading						
Course	e Outcomes:						
	After the successful completion of the course, the students will be able to:						
CO1:	Explain the basic concept of Securities Market						
CO2:	Practice Trading on Stock Market						
CO3:	Analyse the legal Frame work of Securities Market						
CO4:	Explain different segment of Stock Exchange						
CO5:	Perform Demat Trading						

Unit I: Introduction

Concept and types of Securities; Concept of return; Concept, types and measurement of risk; Development of Securities market in India

Unit II: Primary Market

Concept,FunctionsandImportance;FunctionsofNewIssueMarket(IPO,FPO&OFS);Methodsof Floatation- fix price method and book building method; Pricing of Issues; Offer Documents;Appointment and Role of Merchant Bankers, Underwriters, Lead Managers, Syndicate Members,Brokers,Registrars,Bankers,ASBA; SMEIPOsandListingofSecurities.

Unit III: SecondaryMarket

Concept; Functions and Importance; Mechanics of Stock Market Trading-Different Types of Orders, Screen Based Trading, Internet-Based Trading and Settlement Procedure; Types of Brokers.

Unit IV: Regulatory Framework

SEBI (Issue of Capital and Disclosure Requirements) Regulation 2018; Stock Exchanges and Intermediaries; SEBI and Investor Protection; Securities Contract Regulation Act and SEBI(ListingObligations and Disclosure Requirements) Regulation 2015.

Unit V: DematTrading

Concept and Significance; Role of Depositories and Custodian of Securities in DematTrading; SEBIGuidelines and other Regulations Relating to DematTrading; Procedure of DematTrading.

PracticalExercises:

Thelearnersarerequiredto:

- 1. Preparethestepsinvolvedin preandpostmanagementof hypotheticalcaseof IPO/FPO.
- Makeacomparative analysis of IPOstoidentifyparameters of successand causes of failure.
- $3.\ Expose themselves to trading screen of National Stock Exchange \\ (www.nsein dia.com) and demonstrate$
- a)Procedureof placingbuying/sellingorder.
- b) TradingWorkstationStation(TWS)ofspotmarketandfinancia lderivativemarkets(Futuresand Options).
- 4. Learndemattradingandinvestmentwith thehelpof relevantsoftware (Workingon Virtualtradingplatform).

Recent Trends in Stock Market

Faculty member will impart the knowledge on recent trends in Stock Market to the students and these components will not cover in the examination.

Text Books:

- 1. Gordon, E., & Natarajan, K. 2019. Financial Markets and Services. New Delhi: Himalaya Publishing House. New Delhi
- 2. Benjamin, G. 1949. The Intelligent Investor. New York: Harper Publishing.
- 3. Dalton, J.M. 2001. How The Stock Market Works? New York: Prentice Hall Press. Machiraju, H.
- 4. Machiraju, H.R. 2019. Merchant Banking. New Delhi: New Age Publishers.

Supplementary Readings:

- Gitman and Joehnk 2015, Fundamentals of Investing, Pearson Publications, New Delhi.
- 2. Chandra Prasanna, 2017, Investment Analysis and Portfolio Management, Tata McGraw Hill, New Delhi.
- 3. DamodaranAsath 2016, Investment Valuation: Tool and Techniques for Determining the value of any Asset, Wiley Finance.,New Delhi
- 4. Bhole L.M 2015, Financial Institutions and Markets Tata McGraw Hill Publishing Company Ltd, New Delhi

SEMESTER: III SEC: V PART: III

23UCOAS37: NEW VENTURE PLANNING & DEVELOPMENT

CREDIT: 2 HOURS: 2/W

Learn	ing Objectives:
LO1:	To acquaint students with knowledge of Setting up a new Business
LO2:	To enable the students to understand the legal challenges in setting up Business
LO3:	To impart the students to search for entrepreneurial capital
LO4:	To enables the students to havedepth knowledgein marketing aspects of new ventures
LO5:	To understand the role BusinessPlanPreparationforNew Ventures
Cours	e Outcomes:
	After the successful completion of the course, the students will be able to:
CO1	Generateabusinessideausingdifferenttechniquesanddescribesourcesofinnovative ideas
:	
CO2	Evaluateadvantages of acquiring anongoing venture with a case study;
:	
CO3	Present a comparative analysis of various governments chemes which are suitable for the busing the comparative analysis of various governments chemes which are suitable for the busing the comparative analysis of various governments chemes which are suitable for the busing the comparative analysis of various governments chemes which are suitable for the busing the comparative analysis of various governments chemes which are suitable for the busing the comparative analysis of various governments chemes which are suitable for the busing the comparative analysis of various governments chemes which are suitable for the busing the comparative analysis of various governments chemes which are suitable for the busing the comparative analysis of various governments chemes which are suitable for the busing the comparative and the comparative analysis of various governments and the comparative analysis of various governments and the comparative and the comparati
:	nessidea;
CO4	Developa marketingplanforabusiness idea;
:	
CO5	Prepare and presenta well-conceived Business Plan
:	

Unit I: StartingNewVentures

NewVenture:Meaningandfeatures.Opportunityidentification.Thesearchfornewideas.Sourceof innovative ideas. Techniques for generating ideas. Entrepreneurial imagination and creativity:The role of creative thinking. Developing creativity. Impediments to creativity. The pathways toNew Ventures for Entrepreneurs, Creating New Ventures. Acquiring an established Venture:Advantages of acquiring an ongoing Venture. Evaluation of key issues. Franchising: How aFranchiseworks.Franchiselaw. Evaluatingthe franchisingopportunities.

Unit II: LegalChallengesin SettingupBusiness

IntellectualPropertyProtection:Patents,Trademarks,andCopyrights.RequirementsandProcedure forfilingaPatent,Trademark,andCopyright.LegalactsgoverningbusinessesinIndia.IdentifyingForm of Organisation and theirprocedures and compliances.

Unit III: SearchforEntrepreneurialCapital

The Entrepreneur's Search for Capital. The Venture Capital Market. Criteria for evaluating New-VentureProposals. Evaluatingthe VentureCapitalist.

Financingstages. Alternate Sources of Financing for Indian Entrepreneurs. Bank Funding. Government Policy Packages. State Financial Corporations (SFCs). Business Incubators and Facilitators. Informal risk capital: Angel Investors. Government schemes for new ventures like: Startup India, Stand Up India, Makein India, etc.

Unit IV: MarketingAspectsofNew Ventures

DevelopingaMarketingPlan:CustomerAnalysis,GeographicalAnalysis,EconomicalAnalysis,LinguisticAnalysis,SalesAnalysisandCompetitionAnalysis.MarketResearch.SalesForecasting.Evaluation.PricingDecision.

Unit V: BusinessPlanPreparationforNew Ventures

BusinessPlan:Concept.PitfallstoAvoidinBusinessPlan.BenefitsofaBusinessPlan.Developing a Well-Conceived Business Plan. Elements of a Business Plan: Executive Summary.BusinessDescription.Marketing:MarketNicheandMarketShare.Research,Designand Development. Operations. Management. Finances. Critical-Risk. Harvest Strategy. MilestoneSchedule

PracticalExercises:

Thelearnersarerequiredto:

- 1. Generateabusinessideausingdifferenttechniquesanddescribesourcesof innovativeideas.
- 2. Evaluateadvantages of acquiring anongoingventurewith acasestudy.
- 3. PresentanideawhichcanhaveIPRlikepatentsalongwithcomparativeanalysi sofpatentsalreadygranted in similarfield.
- 4. Presentacomparativeanalysisofvariousgovernmentschemeswhicharesuita bleforthebusinessidea(developedin exercise 1).
- 5. Developa marketingplan for the business idea (developed inexercise 1).
- 6. Prepareandpresentawell-conceived BusinessPlan.

Recent Trends in New Venture Planning & Development

Faculty member will impart the knowledge on recent trends in New Venture Planning & Development to the students and these components will not cover in the examination.

Text Books:

- 1. Allen, K.R. (2015). Launching New Ventures: An Entrepreneurial Approach. Boston: Cengage Learning
- 2. Barringer, B.R., & Ireland, R.D. (2015). Entrepreneurship: Successfully Launching New Ventures. London: Pearson.
- 3. Kuratko, D.F., & Rao, T.V. (2012). Entrepreneurship: A South-Asian Perspective. Boston: Cengage Learning
- 4. Donold F Kuratko and Jeffrey S Hons by 2021 New Venture Management Routledge, USA

Supplementary Readings:

- 1. Colin Barrow Paul Barrow Robert Brown 2015 The Business Plan Work Book: A Practical Guide to New Venture, Kogan Page Ltd, Great Brittan
- 2. David Butler 2006 Enterprise Planning and Development Routledge USA
- 3. David Butler 2014 Business Planning for New Ventures: A Guide to Startup,Routledge USA
- 4. Robert N Lussier Joel Corman 2014 Entrepreneurial New Venture Skills Routledge USA

SEMESTER: IV CORE: VII PART: III

23UCOAC43: CORPORATE ACCOUNTING - II

CREDIT: 5 HOURS: 5/W

	LO1	To know the types of Amalgamation, Internal and external Reconstruction	
	LO2	To know Final statements of banking companies	
	LO3	To understand the accounting treatment of Insurance company accounts	
	LO4	To understand the procedure for preparation of consolidated Balance sheet	
	LO5	To have an insight on modes of winding up of a company	
	Prerequi	site: Should have studied Financial Accounting in I Year	
	Unit	Contents	No. of Hours
	I	Amalgamation, Internal & External Reconstruction Amalgamation – Meaning - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method - Types of Methods of Accounting for Amalgamation - The Pooling of Interest Method - The Purchase Method(Excluding Inter-Company Holdings). Internal & External Reconstruction Internal Reconstruction – Conversion of Stock – Increase and	15
		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
	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.	15
	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
	THEORY	Y 20% & PROBLEMS 80%	
\int		Course Outcomes	
	CO1	Understand the accounting treatment of amalgamation, Internal and external reconstruction	1
	CO2	Construct Profit and Loss account and Balance Sheet of Banking Companie accordance in the prescribed format.	
	CO3	Synthesize and prepare final accounts of Insurance companies in the prescriformat	ibed
		Give the consolidated accounts of holding companies	

	CO5	Preparation of liquidator's final statement of account					
	Textbooks						
1	S.P.	Jain and K.L Narang. Advanced Accountancy, Kalyani Publishers, New Delhi.					
2		K.S .Raman and Dr. M.A. Arulanandam , Advanced Accountancy, Vol. II, Himalaya ishing House, Mumbai.					
3	R.L.	Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, New Delhi.					
4	M.C	. Shukla and T.S. Grewal, Advanced Accounts Vol.II, S Chand & Sons, New Delhi.					
5	T.S.	Reddy and A.Murthy, Corporate Accounting II, Margham Publishers, Chennai					
		Reference Books					
1	B.Ra	aman, Corporate Accounting, Taxmann, New Delhi					
2	M.C	.Shukla, Advanced Accounting,S.Chand, New Delhi					
3	Prof	. MukeshBramhbutt, Devi Ahilya publication, Madhya Pradesh					
4	Anil Mur	kumar, Rajesh kumar, Advanced Corporate Accounting, Himalaya Publishing house, nbai.					
5	Pras	anthAthma, Corporate Accounting, Himalaya Publishing house, Mumbai.					
NO	TE: Lat	est Edition of Textbooks May be Used					
	Web Resources						
1		s://www.accountingnotes.net/amalgamation/amalgamation-absorption-and- nstruction-accounting/126					
2	https	s://www.slideshare.net/debchat123/accounts-of-banking-companies					
3	https	s://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

SEMESTER: IV CORE: VIII PART: III

23UCOAC44: COMPANY LAW

CREDIT: 5 HOURS: 5/W

	Learning Objectives						
LO1	To know Company Law 1956 and Companies Act 2013						
LO2	To have an understanding on the formation of a company						
LO3	To understand the requisites of meeting and resolution						
LO4	To gain knowledge on the procedure to appoint and remove Directors						
LO5	To familiarize with the various modes of winding up						
	isite: Should have studied Commerce in XII Std						
Unit	Contents	No. of Hours					
I	Introduction to Company law Companies Act 2013 – Definition of a Company, Characteristics of Company – Lifting or Piercing the Corporate Veil – Company Distinguished from Partnership and Limited Liabilities Partnerships – Classification of Companies – Based on Incorporation, Liability, Number of Members, Control.	15					
II	Formation of Company Formation of a Company – Promoter –Incorporation Documents e- filing – Memorandum of Association – Contents – Alteration – Legal Effects – Articles of Association - Certificate of Incorporation – Prospectus – Contents - Kinds – Liabilities – Share Capital – Kinds – Issue – Alteration – Dividend – Debentures.	15					
III	Meeting Meeting and Resolution – Types – Requisites – Voting & Poll – Quorum – Proxy - Resolution – Ordinary & Special - Audit & Auditors – Qualification, Disqualification, Appointment and Removal of an Auditor -	15					
IV	Management & Administration Management & Administration – Directors – Legal Position – Board of Directors – Appointment/ Removal – Disqualification – Director Identification Number – Directorships – Powers – Duties – Board Committees – Related Party Transactions – Contract by One Person Company – Insider Trading- Managing Director – Manager – Secretarial Audit – Administrative Aspects and Winding Up – National Company Law Tribunal (NCLT) – National Company Law Appellate Tribunal (NCLAT) – Special Courts.	15					
V	Winding up Meaning – Modes – Compulsory Winding Up – Voluntary Winding Up – Consequences of Winding Up Order – Powers of Tribunal – Petition for Winding Up – Company Liquidator.	15					
	TOTAL	75					
	Course Outcomes						
CO1	Understand the classification of companies under the act						
CO2	Examine the contents of the Memorandum of Association & Articles of	Association					
CO3	Know the qualification and disqualification of Auditors						
CO4	Understand the workings of National Company Law Appellate Tribunal	(NCLAT)					

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

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

3 – Strong, 2- Medium, 1- Low

SEMESTER: IV ELECTIVE: IV PART: III

23UCOAE45-1: RELATIONAL DATABASE MANAGEMENT SYSTEM

CREDIT: 3 HOURS: 3/W

	Learning Objectives							
LO1	Gain a good understanding of the architecture and functioning of Database							
201	Management Systems							
LO2	Understand the use of Structured Query Language (SQL) and its syntax.							
LO3	Apply Normalization techniques to normalize a database.							
	Understand the need of transaction processing and learn techniques for controlling							
LO4	the consequences of concurrent data access.	ironnig						
Prerequ	isite: Should have studied Commerce in XII Std							
	Contents	No. of						
Unit		Hours						
	Introduction to DBMS- Data and Information - Database - Database							
I	Management System - Objectives- Advantages - Components -							
	Architecture. ER Model: Building blocks of ER Diagram –							
	Relationship Degree - Classification - ER diagram to Tables - ISA							
II	relationship – Constraints –Aggregation and Composition – Advantages							
	Structure of Relational Database. Introduction to Relational Database							
	Design - Objectives - Tools - Redundancy and Data Anomaly							
III	 Functional Dependency - Normalization - 1NF - 2NF - 3NF - BCNF. Transaction Processing - Database Security. 							
	Transaction Processing – Database Security.							
	Introduction to SQL: Data Definition Commands – Data Manipulation							
***	Commands – SELECT Queries – Additional Data Definition Commands							
IV	 Additional SELECT Query Keywords – Joining Database 							
	Tables.Advanced SQL:Relational SET Operators: UNION – UNION							
	ALL – INTERSECT - MINUS.							
	SQL Join Operators: Cross Join – Natural Join – Join USING Clause –							
V	JOIN ON Clause – Outer Join.							
	Sub Queries and Correlated Queries: WHERE – IN – HAVING – ANY and ALL – FROM. SQL Functions: Date and Time Function – Numeric							
	Function – String Function – Conversion Function							
	TOTAL							
	Course Outcomes							
CO1	Describe basic concepts of database system							
CO2	Design a Data model and Schemas in RDBMS							
CO3	Competent in use of SQL							

CO4	Analyse functional dependencies for designing robust Database							
Textbooks								
1	S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Management System", Springer International Edition 2007.							
	Reference Books							
1	Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition.							
2	Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole Publications 2014, 2 nd Edition.							
NOTE:	Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://nptel.ac.in/courses/106106093/							
2	https://nptel.ac.in/courses/106106095/							
3	NPTEL & MOOC courses titled Relational Database Management Systems							

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

3 – Strong, 2- Medium, 1- Low

SEMESTER: IV ELECTIVE: IV PART: III

23UCOAE45-2: INTRODUCTION TO DATA SCIENCE

CREDIT: 3 HOURS: 3/W

	Learning Objectives							
LO1	To introduce the concepts, techniques and tools in Data Science							
LO2	To understand the various facets of data science practice, including data cand integration, exploratory data analysis, predictive modelling, descriptive and effective communication.							
LO3	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							
LO4	To describe what Data Science is, what Statistical Inference means, identify distributions, fit a model to data and use tools for basic analysis and commit	-						
Prerequ	isite: Should have studied Commerce in XII Std							
Unit	Contents	No. of Hours						
I	Introduction: Benefits and uses – Facets of data – Data science process – Big data ecosystem and data science							
II	The Data science process: Overview – research goals - retrieving data - transformation – Exploratory Data Analysis – Model building - Data Visualization							
III	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							
V	Case Study: Prediction of Disease - Setting research goals - Data retrieval – preparation - exploration - Disease profiling - presentation and automation							
	TOTAL Course Outcomes							
CO1	To describe what Data Science is, what Statistical Inference means, identif							
	distributions, fit a model to data and use tools for basic analysis and common To describe what Data Science is, what Statistical Inference means, identifi							
CO2	distributions, fit a model to data and use tools for basic analysis and comm	unication						
СОЗ	To describe what Data Science is, what Statistical Inference mean probability distributions, fit a model to data and use tools for basic a communication	•						

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

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

3 – Strong, 2- Medium, 1- Low

SEMESTER: IV SEC: VI PART: IV

23UCOAS46: BRAND MANAGEMENT

CREDIT: 2 HOURS: 2/W

Learni	Learning Objectives:							
LO1:	To familiarize the basic knowledge on branding							
LO2:	To understand brand positioning.							
LO3:	To gain knowledge on brand extension							
LO4:	To understand the elements of brand equity.							
LO5:	To know the position of retail branding.							

Course Outcomes:								
	After the successful completion of the course, the students will be able to:							
CO1:	Explain the concept of branding							
CO2:	Discuss the brand positioning and identify brands							
CO3:	Explain the elements of brand extension.							
CO4:	Summarizethe impact of celebrity brand							
CO5:	Discuss the determinants of successful brand management							

Unit I: Branding

Introduction- Advantages and Disadvantages of branding-Branding decisions-Global brand-Brand name- Branding approaches- Brand building – Brand extension and brand dilution-individual and organizational brand -Corporate branding.

Unit II: Brand Positioning

Brand Positioning - quality of successful of positioning –Positioning process-brand positioning strategy- -Building brand personality-Online brand building.

Brand identity-sources-brand personality-Brand awareness-Brand loyalty-Brand association-Brand image

Unit III: Brand Extension

Reasons for brand extensions-Evaluation of brand extension-Bases for brand extension-Types of brand extensions-Advantages and disadvantages of brand extensions. Co-branding-types-Advantages and disadvantages-Functions of brand extensions.

Unit IV: Brand Equity

Brand equity-key elements: Assets and Liabilities-Value to the Customers-Value to the firm-positive and negative brand equity-Brand personality: dimensions of brand personality-Branding and celebrity endorsement-important aspects of celebrity brand.

Unit V: Brand Management

Strategic brand management- Successful brand development-effective brand management. **Retail Branding**: Different branding strategy- retail branding in India- future of retail branding- positioning strategy for retail brands.

Text Books:

- 1. S.L. Gupta 2015 Brand Management Himalaya Publishing House Mumbai
- 2. Sundar K 2017, Essentials of Marketing, Vijay Nicole Imprints Private Ltd, Chennai
- 3. Pillai R.S.N and Bagavathi, 2017 Modern Marketing, S.Chand & Company New Delhi.
- 4 Mamoria, D and Joshi, R.L., 2015 Principles and Practices of Marketing of Services, Kitab Mahal, New Delhi.

Supplementary Readings:

- 1. Mukesh Bhatia 2013 Strategic Brand Management a process of growing & strengthening brands Regal Publications
- 2. Kotler, P., and Armstrong. 2016. Principles of Marketing, Persons Education. New York
- 3. Sherlekar. 2010 Marketing Management Himalaya Publication House. Mumbai
- 4. Kadavekar, S. 2017. Marketing and Salesmanship, Dimond Publication. Pune.
- 5. Kotler, P., Lane, K., and Keller. 2017. Marketing Management, Pearson Education, New York

SEMESTER: IV SEC: VII PART: IV

23UCOAS47: CLEARING AND FORWARDING IN EXPORT AND IMPORT

CREDIT: 2 HOURS: 2/W

Learning Objectives:								
LO1:	To educate the students how the clearing and forwarding agents acted in Ports							
LO2:	To gain knowledge how the export documents are prepared by the exporter and							
LUZ:	theses documents are handled by the shipping and forwarding agents							
LO3:	To acquire knowledge in import documentation							
LO4:	To know the how the frights are charged by the shipping and forwarding agents							
LO5:	To understand the Risk in Export and Import							
Course	Outcomes:							
	After the successful completion of the course, the students will be able to:							
CO1:	Explain the role of clearing agents in ports							
CO2:	Discuss the export procedure and documentation							
CO3:	Explain the import documentation procedure							
CO4:	EquipFreight forwarding services							
CO5 :	Discuss the determinants of Risk Management							

Unit I: Introduction

Introduction to clearing and forwarding – Role and importance of Clearing and Forwarding in International Trade- Logistics and Supply Chain Management- Roles and responsibilities of clearing and forwarding agents- Relevant legal and regulatory frame work-Documents required for clearing and forwarding

Unit II: Export Procedure Documentation

Documents required for export- Commercial Invoice-Packing list-Certificate of Origin -.GMP Certificate- Bill of Lading – Insurance – USFDA Registration Certificate- ISO 9000 certification - Export Licensing procedures and formalities- Pre-requisite of Export and Import- Negative list of Exports

Unit III: Import Procedure Documentation

Import Documentation – Import Licence under Advance Authorization- Customs Inspection, Examination and Audits – General Provisions regarding Import

Unit IV: Fright forwarding and Transportation

Fright forwarding services in import and export – Mode of Transport- Air,Sea- Freight rates-INCO terms – Packaging, labelling and cargo handling requirements

Unit V: Risk Management

Risk Assessment – Insurance coverage and claims – Methods of Export and Import Payments- Export Earning Foreign Currency – Letter of credit and international payments system- Managing trade related financial documents

Recent Trends in Clearing and Forwardin in Export and Import

Faculty member will impart the knowledge on recent trends in Clearing and Forwarding in Export and Import to the students and these components will not cover in the examination.

Text Books:

- 1. Mahajan M.I, 2021, Export Policy, Procedure and Documentation, Snow white Publications, Mumbai
- 2. Natarajan L 2022, Import and Export Procedure (Import Management), Margham Publications, Chennai.
- 3. Rathor B.S and Rathor, J.S 2022, Export Marketing, Himalaya Publishing House, New Delhi.

Supplementary Readings:

- 1. Francis Cherunilam 2021, International Trade and Export Management, Himalaya Publishing House, New Delhi
- 2. Paras Ram , 2022, Nilkhil Garg Export : What, Where and How? Anupam Publishers, New Delhi
- 3. Hand Book of Export Import Procedures: Ministry of Commerce 2020-2025 Government of India Volume No:1 and 2
- 4. Mahajan M.I, 2022, Export Do it yourself, Snow white Publications, Mumbai
- 5. Mahajan M.I, 2022, Import Policy, Procedure and Documentation, Snow white Publications, Mumbai.

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

CORE - IX: COST ACCOUNTING - I

C1-14	C- 1-	_		D	S	Credits	Inst.			
Subject		L		P			Hours	CIA	External	Total
23UCO	AC51	5				4	5	25	75	100
Learning Objectives										
LO1	To understand the various concepts of cost accounting.									
LO2		To prepare and reconcile Cost accounts.								
LO3		To gain knowledge regarding valuation methods of material.								
LO4	To fa	To familiarize with the different methods of calculating labour cost.								
LO5	To kı	To know the apportionment of Overheads.								
Prerequ	isite: S	hould h	ave	studie	d Co	mmerce in X	II 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.							agement	15	
II	Prepar	Cost Sheet and Methods of Costing Preparation of Cost Sheet - Tenders & Quotations - Reconciliation of Cost and Financial Accounts –Unit Costing-Job Costing.								15
III	Material Costing Material Control – Meaning and Objectives – Purchase of Materials – EOQ –Stores Records – Reorder Levels – ABC Analysis - Issue of Materials – Methods of Issue – FIFO – LIFO – Base Stock Method – Specific Price Method – Simple and Weighted Average Method.							aterials –	15	
IV	Labour Costing Direct Labour and Indirect Labour – Time Keeping – Methods and Calculation of Wage Payments – Time Wages – Piece Wages – Incentives – Different Methods of Incentive Payments - Idle time–Overtime – Labour Turnover - Meaning, Causes and Measurement.							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			
							TC	TAL		75
THEOR	RY 20%	& PR	OBL	EMS 8						
						Course Outco				
CO1		Remember and recall the various concepts of cost accounting								
CO2		Demonstrate the preparation and reconciliation of cost sheet.								
CO3	Analyse the various valuation methods of issue of materials.									
CO4	Examine the different methods of calculating labour cost.									
CO5	CO5 Critically evaluate the apportionment of Overheads.									
Textbooks										
1	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
3	Delhi
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications,
4	Chennai
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi
	Reference Books
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision
1	Making, 1991, McGraw–Hill, New York.
2	Jain S.P. and Narang K.L. Cost Accounting, Latest Edition.2013, Kalyani Publishers,
2	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-
1	accounting.html
2	https://www.accountingtools.com/articles/what-is-material-costing.html
3	https://www.freshbooks.com/hub/accounting/overhead-cost

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - X: BANKING LAW AND PRACTICE

Subject	L	Т	ъ	S	Credits	Inst.		Marks						
Code		1	P	3	Creatis	Hours	CIA	External	Total					
23UCOA	5				4	5	25	75	100					
C52				T	 earning Obje	etives								
				L	carning Obje	cuves								
LO1	To help	p the s	tudents	unders	tand various	provision o	f Banking F	Regulation A	ct 1949					
	* *			•	nies including									
LO2					tral bank conc		valent centra	l banking sys	stem					
1.02					les and function		1:	• •,	• ,•					
LO3		To throw light on Central Bank in India, its formation, nationalizing its organization tructure, role of bank to government, role in promoting agriculture and industry, role												
				c to go	vernment, role	e in promot	ing agricuitu	ire and indus	stry, role					
	in finar	iciai inc	clusion											
LO4	Tourd	arctand	how	nital f	and of commo	rojal banka	objectives	and process	of Assat					
LO4		To understand how capital fund of commercial banks, objectives and process of Asset												
LO5		securitization etc. To explore practical banking systems relationship of bankers and customers, crossing												
LOS	•	of cheques, endorsement etc.												
	or eneg	Contents No. of												
Unit					Content	3			Hours					
I	History Compo Develo Banks, - Bank	Introduction to Banking History of Banking- Provisions of Banking Regulations Act 1949 - Components of Indian Banking - Indian Banking System-Phases of Development - Banking Structure in India - Public Sector Banks, Private Banks, Foreign Banks, RRB, UCB, Payment Banks and Small Finance Banks - Banking System - Branch Banking - Unit Banking - Universal Banking-												
II	Central Central Commo Commo Bankin	Financial Inclusion Central Bank and Commercial Bank Central Banking: Definition –Need - Principles- Central Banking Vs Commercial Banking - Functions of Central Bank – Credit Creation. Commercial Banking: Definition - Functions – Personal Banking – Corporate Banking – Digital banking – Core Banking System (CBS) - Role of Banks in Economic Development.												
III	Dhan Y e-stater KYC n Loans classifi	of According to Ac	ounts CA Accou Banker ances — of assets	nt State Custon Lending s and in	Types of Depement vs Passher Relationsher Sources- Lencome recogn-securities of	book vs ip - Special nding Princ ition / provi	Types of C ciples-Types isioning (NF	of Loans - PA) – Repo	15					

	Nagatiable Instruments Act Magatiable Instruments Magaine 0								
IV									
	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.								
	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								
V	Wallets. ATM – Concept - Features - Types Electronic money-Meaning-	15							
	Categories-Merits of e-money - National Electronic Funds Transfer (NEFT),								
	RTGS, IMPS, UPI and Digital currency – Differences - Safety and Security								
	in Digital Banking.								
	TOTAL	75							
	Course Outcomes								
CO1	Aware of various provision of Banking Regulation Act 1949 applicable to bank companies including cooperative banks	king							
CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking	ng							
CO2	system in India and their roles and function								
	Gain knowledge about the Central Bank in India, its formation, nationalizing its								
CO3	organization structure, role of bank to government, role in promoting agricultur industry, role in financial inclusion	e and							
CO4	Evaluate the role of capital fund of commercial banks, objectives and process o securitization etc	f Asset							
CO5	Define the practical banking systems relationship of bankers and customers, creof cheques, endorsement etc.	ossing							
	Textbooks								
1	Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publication, Che	ennai							
2	Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall India Lea Private Ltd, New Delhi	rning							
3	Gupta P.K. Gordon E.Banking and Insurance, Himalaya publication, Kolkata								
4	Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication, Delh								
5	K P Kandasami, S Natarajan & Parameswaran, Banking Law and Practice, S Cl publication, New Delhi	hand							
	Reference Books								
1	B. Santhanam, Banking & Financial System, Margam Publication, Chennai								
2	KataitSanjay, Banking Theory and Practice, Lambert Academic Publishing,								
3	Henry Dunning Macleod, The Theory And Practice Of Banking, Hard Press Publishing, Old New Zealand								
4	William Amasa Scott, Money And Banking: An Introduction To The Study Of Currencies, Kesinger publication, USA								
5	NektariosMichail, Money, Credit, and Crises: Understanding the Modern Bank System, Palgrave Macmillan, London	ing							

NOTE:	NOTE: Latest Edition of Textbooks May be Used								
	Web Resources								
1	1 https://www.rbi.org.in/								
2	1 0								
3	https://www.wallstreetmojo.com/endorsement/								

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - XI: INCOME TAX LAW AND PRACTICE- I

g - :	~ -			_	_		Inst.		Ma	rks		
Subject	Code	L	T	P	S	Credits	Hours	CIA		ternal	Total	
23UCOA	C53	5				4	5	25		75	100	
					Lear	ning Obje	ctives				l	
LO1	To unc	lerstand the	hasi					the Income T	ax A	ct 1961		
LO2								e incidence			•	
LO3		npute incon						e merdence (<i>51 tu</i>	•		
LO4								eductions ar	nd the	e calcul	ation of	
		e from Hou				,						
LO5	To cor	npute the in	ncom	e fro	m Bı	usiness & l	Profession of	considering i	ts ba	sic princ	ciples &	
	specific disallowances.											
	ite: Sho	uld have stu	ıdied	Con			td					
Unit						ontents				No. of	f Hours	
	Introd	luction to I	ncon	ne Ta	ax							
I	Introduction to Income Tax – History – Objectives of Taxation – Features of Income Tax – Meaning of Income – Types – Important Definitions Under the Income Tax Act –Types of Assessee – Income exempted under Section 10.										15	
II	Residential Status Residential Status – Residential Status of an Individual – Company – HUF – Basic Conditions – Additional Conditions – Incidence of Tax and Residential Status – Problems on Residential Status and Incidence of Tax.								15			
Ш	Salary Kinds Comm	of Perquisi	Defin tes –' Pens	Type ion -	s of l	Provident I duction of	Fund - Grati	/ - Perquisite uity — Pensic rofits in Lie	on –	1	15	
IV	Income Income Gross out Se from H	e from Ho e from Ho Annual Val lf-Occupied Iouse Prope	use I use 1 ue, N d Pro	Property Net A	erty erty - annua y – I	–Basis of al Value - Deductions	Let-out vs I – Computa	Annual Valu Deemed to be ation of Ince	e let	1	15	
V	from House Property. Profits and Gains from Business or Profession Income from Business or Profession – Allowable Expenses – Expenses Disallowed - General Deductions – Depreciation – Undisclosed Income & Investments, Unexplained expenditure (Sec 69A, 69B, 69C, 69D) – Compulsory Maintenance of Books of Accounts – Audit of Accounts of Certain Persons – Special Provisions for Computing Incomes on Estimated Basis (Deemed Income) – Computation of Income from Business or Profession.								15			
	TOTAL										75	
						urse Outco	omes					
THEOR		& PROBL										
CO1	Demoi Tax A		ınder	stanc	ding	of the basic	concepts a	nd definitior	is und	der the I	ncome	

CO2	Assess the residential status of an assessee& the incidence of tax.
CO3	Compute income of an individual under the head salaries.
CO4	Ability to compute income from house property.
CO5	Evaluate income from a business carried on or from the practice of a Profession.
	Textbooks
1	V.P. Gaur, Narang, Puja Gaur and Rajeev Puri - Income Tax Law and Practice, Kalyani Publishers, New Delhi.
2	T.S. Reddy and Hariprasad Reddy, Income Tax Law and Practice, Margham Publications, Chennai.
3	DinkarPagare, Income Tax Law and Practice, Sultan & Chand Sons, New Delhi.
4	H.C. Mehrotra, Dr.Goyal S.P, Income Tax Law and Accounts, Sahitya Bhavan Publications, Agra.
5	T. Srinivasan – Income Tax & Practice –Vijay Nicole Imprints Private Limited , Chennai.
	Reference Books
1	Hariharan N, Income Tax Law & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai
2	Bhagwati Prasad, Income Tax Law and Practice, Vishwa Prakasan. New Delhi.
3	Vinod K. Singhania, Students Guide to Income Tax., U.K.Bharghava Taxman.
4	Dr. Vinod K Singhania, Dr. Monica Singhania, Taxmann's Students' Guide to Income Tax, New Delhi.
5	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Practice, Sultan & Chand Sons, New Delhi.
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1	https://cleartax.in/s/residential-status/
2	https://www.legalraasta.com/itr/income-from-salary/
3	https://taxguru.in/income-tax/income-house-properties.html

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

3 – Strong, 2- Medium, 1- Low

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

CORE -XII: PROJECT WITH VIVA-VOCE

			_	~		Inst.	Marks				
Subject Code	Ls	T	P	S	Credits	Hours	CIA	External	Total		
23UCOAD54	5				4	5	25	75	100		

(Refer to the Regulations)

THIRD YEAR – SEMESTER – V ELECTIVE: FINANCIAL MANAGEMENT

							Inst.		Mark	<u>c</u>	
Subjec	et Code	L	T	P	S	Credits	Hours	CIA	Extern		
23UCO	ACE55-1	4				3	4	25	75	100	
					Lea	arning Obj	ectives				
LO1	To introdu	uce the	e co	ncept	of fin	ancial man	agement.				
LO2	To learn t										
LO3	To gain k	nowle	dge	about	techi	niques in ca	pital budgeti	ing			
LO4					_	ent models.					
	LO5 To understand the needs and calculation of working capital in an organization. Prerequisites: Should have studied Commerce in XII Std										
Prerequi	sites: Snou	iia na	ve s	tuaiea	Cor		XII Sta			No of	
Unit						Contents				No. of Hours	
	Introduc										
	Meaning										
I			_				s of Finance				
_	Manager		12								
	Maximiza	Return –									
	Compone				Mana	agement.					
	Financial		-								
	_					_	Theories- F		ermining		
	•						Capital stru		. 1		
II		_			_		determining		-	12	
				•	•		of Preference	•			
						•	ghted Avera	•	•		
	Leverage	арпаі	(** 1	ACC)	Leve	rage – Con	cept – Opera	atilig allu i	rmanciai		
	Investme	nt Do	cicio	m							
					ning	- Process _	Cash Flow	Fetimation	. Canital		
	•	_	_		_		l Methods -		•		
III	Accounting						11100110015	1 ay out 1	1 0110 0	12	
		•				•	esent Value	(NPV) -	Internal		
	Rate of R										
	Dividend										
13.7	Meaning	– Div	ider	d Pol	icies	- Factors	Affecting Di	ividend Pa	yment –	10	
IV	Provisions on Dividend Payment in Company Law – Dividend Models -									12	
	Walter's l	Model	- G	ordon	's Mo	odel – M&N	I Model.				
	Working	Capit	tal I	Decisio	n						
	Working	Capita	al -	Meani	ng a	nd Importa	nce – Classi	fication -	Working		
V	Capital C	Cycle ·	- Fa	actors	Influ	uencing We	orking Capi	tal – Dete	ermining	12	
	_	_		_	emer	nt of Curren	t Assets: Inv	entories, A	Accounts		
	Receivabl	les and	l Ca	sh.							
						TOTAL				60	

THEOR	THEORY 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 Publications, New Delhi.								
2	M.Y. Khan and P.K.Jain, Financial Management, McGraw Hill Education, Noida.								
3	I.M. Pandey, Financial Management, Vikas Publications, Noida.								
4	Dr.S.N. Maheshwari, Elements of Financial Management, Sultan Chand & Sons, New Delhi.								
5	Dr.Kulkarni and Dr. Sathya Prasad, Financial Management, Himalaya Publishing House, Mumbai.								
	Reference Books								
1	Prasana Chandra, Financial Management, Tata McGraw Hill, NewDelhi.								
2	I.M. Pandey, Financial Management, Vikas Publishing, Noida.								
3	Khan & Jain, Financial Management, Sultan Chand &Sons, New Delhi.								
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								
1	https://efinancemanagement.com/financial-management/types-of-financial-decisions								
2	https://efinancemanagement.com/dividend-decisions								
3	https://www.investopedia.com/terms/w/workingcapital.asp								

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	3	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	3	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	2
TOTAL	15	12	13	10	15	10	13	13	15	10	11
AVERAGE	3	2.2	2.6	2	3	2	2.6	2.6	3	2	2.1

3 – Strong, 2- Medium, 1- Low

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

ELECTIVE: INDIRECT TAXATION

G 1:	4.0.1	_	T	n	G	G 114	Inst.		Marks					
Subject	t Code	L	T	P	S	Credits	Hours	CIA	Extern	nal	Total			
23UCO	AE55-2	4				3	4	25	75		100			
						Learning Obj	jectives							
LO1	To get in	ntrodu	ced	to in	dire	ct taxes								
LO2	To have	Γo have an overview of Indirect taxes												
LO3	To be fa	Γο be familiar the CGST and IGST Act												
LO4	To learn	To learn procedures under GST												
LO5	To gain	know	ledg	ge ab	out (Customs Duty.								
Prerequi	site: Sho	uld ha	ve s	studi	ed (Commerce in Y	XII Std							
Unit						Contents				No. Ho				
I	and Inc Contribu Merits	t and I direct ution t and I	Feat Tai to C	tures xes Sovei erits	of 3 -Spernme	Indirect Taxes ecial Feature ent Revenues – Indirect Taxa	of Indirect Role of Indition – Referen	Tax Led direct Taxa orms in I	vies – ation –		12			
П	Taxation – Introduction to Foreign Trade Policy (FTP) 2023 An Overview of Goods & Service Tax (GST) Introduction of Goods and Service Tax in India— Kelkar Committee - Constitutional Amendment - Goods and Service Tax: Concepts, Meaning, Significance, Features and Benefits - Important GST Common Portals – Taxes and Duties not Subsumed in GST – Rates of GST in India - Role of GSTN in Implementation of GST - Challenges in Implementation of GST.									12				
Ш	CGST & Supply Volunta Reverse Regarding Goods	& IGS - Mea ry - C charg ng E-v and Se	T A anin Com ge way ervi	g – pulso Mec Bill ces–	017 Clas ory – hani in Inte	sification — Ti - Input Tax Cre sm — E—Way GST — IGST er State Vs In	edit – Eligibi Bill - Va Act - Expor tra State Su	ility – Rev rious Pro rt and Imp pply – Pl	ersal – visions port of ace of		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		Duty s Duty	: C	once		Territorial Wa					12			
						TOTAL					60			
	1					Course Out	comes	_	_					
CO1						tax laws								
CO2	Exposed													
CO3						and IGST								
CO4	Summar	rise pro	oceo	dures	of (GST								

CO5	Discuss aspects of Customs Duty in India									
	Textbooks									
1	Vinod K Singhania, Indirect Taxes, Taxman's Publications, New Delhi.									
2	Dr. H.C. Mehrotra & Prof .V.P Agarwal, Goods and Services Tax (GST), Sahitya									
	Bhawan Publications, Agra.									
3	Rajat Mohan, Goods & Services Tax, Bharat Law Publications House, New Delhi.									
4	CA. Pushpendra Sisodia, Indirect Tax Laws, Bharat Publications, New Delhi.									
	Reference Books									
1	V.S.Datey, All About GST, Taxmann Publications, New Delhi.									
2	T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications, Chennai.									

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

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

ELECTIVE -: SOFTWARE ENGINEERING AND UML LAB

Subi	ect Code	L	Т	P	S	Credits	Inst.		Marks			
Subj	ect code		_	•		Cicuits	Hours	CIA	CIA External			
23UC	COAE56-1	2		2		3	4	25	75	100		
					Le	arning Obj	ectives	1	l			
LO1	To introdu	ce the	e sof	tware	dev	elopment li	fe cycles					
LO2	To introduce concepts related to structured and objected oriented analysis & design co											
LO3	To provide	an i	nsigh	t into	UN.	IL and softv	vare testing t	echniques				
LO4	To get far	nilia	rizec	l to t	he u	sage of UN	IL tool kit.					
LO5	To develo	p the	e abi	lity t	o ve	rify and va	lidate their	designs				
Prerequ	isite: Should	have	e stu	died	Con	merce in X	XII Std					
Unit	Contents								No. of Hours			
I	Introduction Software En Application	ginee	ering	.Soft	ware	Life cycle	models – Wa	aterfall mo				
II	Requirement Formal Syste	em S _j	pecif	icatio	on							
III	Software De Layered desi Function Ori Detailed des	ign – iented	App	roacl	nes							
IV	Object Mode Class, Intera State Chart -	eling ction	, Act	ivity		OO concep	ots – UML –	Diagrams	– Use case,			
V	Coding & T box, White-box, Testing,	ox, l	Integ	ratio	1,			on – Testin	ng – Black-			
						TOTAL	,					
					C	ourse Out	comes					
CO1	The studen using tools	ts sho	ould	be ab	le to	specify sof	tware require	ements, des	sign the softw	vare		
CO2	To write te	st cas	ses us	sing o	liffer	ent testing	techniques.					
CO3	Students n	nust	be a	ble to	o ana	alyse and d	esign the pr	oblem at	hand.			

CO4	Students should be able to use UML tools for the designing the software and									
CO4	test thecorrectness and soundness of their software through testing tools.									
	Textbooks									
	TCAUDURS									
1	Rajib Mall, "Fundamentals of Software Engineering", PHI 2018, 5th Edition.									
2	Roger S. Pressman, "Software Engineering - A Practitioner's Approach", McGraw Hill									
2	2010, 7thEdition.									
	Reference Books									
1	Pankaj Jalote, "An Integrated Approach to Software Engineering", Narosa Publishing									
1	House 2011,3rd Edition.									
NOTE:	Latest Edition of Textbooks May be Used									
	Web Resources									
	THE RESIDENCES									
1	NPTEL online course – Software Engineering - https://nptel.ac.in/courses/106105182/									

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

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

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

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

CO1: Students must be able to analyses 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	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –
Component	CSIR / GATE / TNPSC / others to be solved (To be discussed during the
	Tutorial hour)

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

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

Learning Resources:

Recommended Texts

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

Reference Books

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

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

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

ELECTIVE: OBJECT ORIENTED ANALYSIS AND DESIGN (UML LAB)

Subjec	t Code	L	Т	P	S	Credits	Inst.		Marks		
							Hours	CIA	External	Total	
23UCO	AE56-2	2		2		3	4	25	75	100	
Learning Objectives											
LO1	LO1 To make aware of the software requirements, design the software using tools										
LO2	LO2 To be acquainted with the writing of test cases using different testing techniques.									ies.	
LO3	To ge	t fami	iliariz	ed to	the us	sage of UN	IL tool kit.				
LO4				-			software ar		them appro	priately	
LO5	To de	velop	the al	oility	to ve	rify and va	lidate their	designs			
Prerequ	isite: Sh	ould h	ave st	udie	d Com	merce in Y	XII Std				
Unit						Content	S			No. of Hours	
I	Object Orientation – System development – Review of objects - inheritance - Object relationship – Dynamic binding – OOSD life cycle – Process – Analysis – Design – prototyping – Implementation – Testing- Overview of Methodologies										
II	Rambau	ıgh ı ology	method – pat	terns	•		Booch met bach – UMI				
III	Introduc Outline Develop	Dynamic modelling. Introduction - UML – Meta model - Analysis and design - more information. Outline Development Process: Overview of the process-Inception - Elaboration-construction- refactoringpatternstransmission-iterative development -use									
IV	OO Des					bility – refi ss mapping		es – Metho	ods –Access		
V	Interacti deployn diagram	nent	diagran	•				m-activity	diagram-		
						TOTAL					
						ourse Out					
CO1	The strusing t		should	d be a	able to	specify sof	tware require	ements, de	sign the softw	are	

CO2	To write test cases using different testing techniques.									
CO3	Students must be able to analyses and design the problem at hand.									
CO4	Students should be able to use UML tools for the designing the software and test the correctness and soundness of their software through testing tools.									
	Textbooks									
1	Ali Bahrami, "Object Oriented System Development", McGraw-Hill International Edition 2017.									
2	Martin Fowler, Kendall Scott, "UML Distilled", Addision Wesley									
3	Eriksson, "UML Tool Kit", Addison Wesley									
	Reference Books									
1	Booch G., "Object oriented analysis and design", Addison- Wesley Publishing Company 3 rd edition.									
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 Common for both Electives in semester V	Core - Core -S5EC1/2L
Credits 4	Lecture Hours:5 per week

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

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

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

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

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

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

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

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

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
- 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.

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

3 – Strong, 2- Medium, 1- Low

PART IV: SUMMER INTERNSHIP

Subject Code	I. T		D	C	Credits	Inst.	Marks			
Subject Code	L	1	r	3	Credits	Hours	CIA	External	Total	
23UCOAI58					2	-	25	75	100	

(Refer to the Regulations)

THIRD YEAR – SEMESTER - VI

CORE –XIII: COST ACCOUNTING - II

Cubica	4 Cada	ode						Marks			
Subjec			1	P	3		Hours	CIA	Extern	al	Total
23UCO.	AC61	6				4	6	25	75		100
					Lear	rning Obje	ectives				
LO1	To unc	derstand	the sta	andar	ds in C	Cost Accou	nting				
LO2	To kno	ow the c	oncept	s of c	contrac	ct costing.					
LO3	To be	familiar	with t	he co	ncept	of process	costing.				
LO4	To lear	rn about	opera	tion c	costing	Ţ .					
LO5	To gai	n insigh	ts into	stanc	lard co	sting.					
Prerequ	iisite: Sh	ould ha	ve stu	died	Cost A	Accounting	g in V Sem				
Unit	Contents									No. Hot	
I	Cost Accounting Standards An Introduction to CAS – Purpose of CAS – Advantages of CAS – Difference between CAS and FAR Regulations – Different Degrees of CAS Coverage – Cost Accounting Standards - Responsibility Accounting and Divisional Performance Measurement.								ees of	18	
II	Job Costing, Batch Costing and Contract Costing Definitions - Features - A Comparison - Calculation of Profit or Contracts - Cost Plus Contract - Preparation of Contract A/c.								it on	18	8
III	Process Costing Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Preparation of Process Accounts - Treatment of Loss and Gain : Normal and Abnormal Loss - Abnormal Gain - Concept of Equivalent Production - Joint Products and By Products.								18	8	
IV	Operat Transp	ort Cos	sting –		_	_	on of Operat ng–Hospital	-		18	8
V	Problems. Standard Costing and Variance Analysis Definition – Objectives – Advantages – Standard Cost and Estimated Cost – Installation of Standard Costing System – Variance Analysis – Material, Labour, Overhead, and Sales Variances – Calculation of Variances.							ysis –	18	8	
	TOTA	L								9(0
THEOR	RY 20%	& PRO	BLEN	IS 80		2					
001	Daves	h a u = ·· 1	ma a - 11	a4a 1		urse Outco					
CO1						ostina	unung				
CO2		he know				in process of	coeting				
CO3	·					_	ost and prep	are oneratin	or cost sta	temer	nt .
							ost and prep	are operatili	ig cost sta	CHIEL	11.
CO5	Set up s	standard	s anu a	marys	se vari	Textbook	G.				
1	Iain S E	and No	arang	K I 4	Cost A		<u>s</u> Kalyani Pu	hlichere No	w Dalhi		
2	Khanna		andey				Arora M.N.			Char	nd &

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

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

3 – Strong, 2- Medium, 1- Low

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

CORE - XIV: MANAGEMENT ACCOUNTING

Ch-ia-4	Cada	_	Т	ъ	C	Cradita	Inst.		Marks	<u> </u>					
Subject		L	1	P	S	Credits	Hours	CIA	Exter	nal	Total				
23UCOA	AC62	6				4	6	25	75		100				
					Le	arning Obje	ectives								
LO1	To uno	derstan	d basic	es man	agen	nent account	ing								
LO2	To kno	ow the	aspect	s of Fi	nanc	ial Statemen	t Analysis								
LO3	To familiarize with fund flow and cash flow analysis														
LO4	To learn about budgetary control														
LO5	O5 To gain insights into marginal costing.														
Prerequi	isite: Sh	ould h	ave st	udied	Fina	ncial Accou	nting in I S	emester.							
Unit						Contents					o. of ours				
	Introdu	iction	to Ma	nagem	ent A	Accounting									
	_			_		aning – Sco	_								
		-			-	Vs Cost A	Accounting	Manag	ement						
	Accoun	_				•					18				
	•			•		f Financial									
	•		• •			ncial Analy									
				ents –	Com	mon Size Sta	atement – Ti	rend Analys	S1S.						
1	Ratio A	•			A .1	T:		T £ D	-4:						
		•		_		antages – Li		• •			10				
	_	-				ty Ratios -			-		18				
	Ratios -	- Leve	erage	Kanos	- FI	reparation of	Fillaliciai	Statements	HOIII						
	Funds 1	Flow &	2 Cack	Flow	Ana	lveic									
						s Flow State	ment-Ascer	tainment of	Flow						
				_		s in Working									
					_	unds Flow S		ijustea 110	ir una		18				
			_			nning – Ad		- Limitatio	ons –		10				
						tement as p	-								
	_					ing activitie									
<u> </u>	Budget														
						us Budgets -			e		18				
						ales Budget	– Master Bu	ıdget –			10				
	Budgeta					Dester	a N. M	inol Cort							
					_	- Feature	_		_						
	_		_			t, Variable (quation- P/V									
			_			quation- P/v ne Profits Ar		Cak Even f	OIIIt -		18				
	•		•			a Product M	•	r Buy Deci	sion –		10				
1			-			ne – Chang		-							
	Factor of			_	II	Chulle	5- 01 Diame	- 1o Di							
		*;				TOTAL				(90				

THEO	RY 20% & PROBLEMS 80%							
CO	Course Outcomes							
CO1	Remember and recall basics in management accounting							
CO2	Apply the knowledge of preparation of Financial Statements							
CO3	Analyse the concepts relating to fund flow and cash flow							
CO4	Evaluate techniques of budgetary control							
CO5	Formulate criteria for decision making using principles of marginal costing.							
Textbooks								
1	Jain S.P. & Narang K.L. (2018) Cost and Management Accounting, Kalyani Publications,							
2	Rds. Maheswari, Cost and Management Accounting, Sultan Chand Sons Publications, New Delhi.							
3	Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publishers, Chennai.							
4	Jenitra L Mervin ,Daslton L Cecil, Management Accounting, Lerantec Press, Chennai.							
5	T.S.Reddy& Y. Hari Prasad Reddy, Management Accounting, MarghamPublications, Chennai.							
	Reference Books							
1	Chadwick – The Essence of Management Accounting, Financial Times Publications, England.							
2	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai.							
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/							
3	https://www.investopedia.com/terms/m/marginalcostofproduction.asp							

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	3	2	2	2	3	2	3
CO3	3	2	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	3	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	11	13	10	15	10	13	13	15	10	12
AVERAGE	3	2.1	2.6	2	2	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - VI

CORE - XV: INCOME TAX LAW AND PRACTICE - II

Subject	Codo	L	Т	P	S	Credits	Inst.		Ma	rks	
Subject			1	Г	3	Credits	Hours 6	CIA	Ex	ternal	Total
23UCO	AC63	6					75	100			
	T					rning Obje					
LO1						g to capital					
LO2			•					m other sour			
LO3	To fan Gross				g to se	et off and o	carry forwai	rd of losses	and o	deductio	ons from
LO4	To learn about assessment of individuals										
LO5	To gai	n knov	vledge	about	assess	ment proce	dures.				
Prerequ	isite: Sh	ould h	ave st	udied	Finan	cial Accou	nting in I	stSem			
Unit					Co	ontents				No. of	Hours
	Capital	Gains	5								
I	•	ation o	of Cap	ital G			•	capital assection 54, 5		1	18
II	Income From Other Sources & Clubbing of Income Chargeability - Computation of Income from Other Sources - Deductions Allowed - Clubbing of Income - Concept							s –	18		
III	Total In Gross T Forward 80CCB,	otal In d of L 80CC	come sosses	vs Tota (Simpl CCD,	al Inco e Prol 80 CC	ome - Provi blems). De EE, 80D, 8	sions for So eductions U	et-off and Colors 80C, 80C, 80E, 80E, 80E, and 80U only	arry CC, EE,	1	18
IV	_	ation (of Tota	al Inco		Individua Tax Liabil		ndividuals (Old	1	18
V	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).							nent n of n –	1	18	
	*					OTAL				9	90
THEOR	Y 20%	& PRO	OBLE	MS 80		_				1	<u> </u>

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

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER – VI

ELECTIVE - ENTREPRENEURIAL DEVELOPMENT

C-1-1-	. C. J.	_	Tr.	D	C	C 1'4	Inst.		Marks	
Subject	Code	L	T	P	S	Credits	l Total			
23UCO	AE64-1	5				3	5	25	75	100
					Le	arning Obje	ctives			
LO1	To kno	w the	e mea	ning a	nd cl	haracteristics	of entreprer	neurship		
LO2						ness opportur		•		
LO3						f setting up a				
LO4	To gair	n kno	wled	ge in t	he as	pects of lega	l Complianc	e of settin	g up of an	enterprise
LO5	To dev	elop	an ur	idersta	ndin	g of the role	of MSME in	economic	growth	
Prerequis	ite: Shoul	d ha	ve st	udied	Com	merce in XI	I Std			
Unit						Contents				No. of Hours
I	Types Entrep	ng of of E reneu	Entroperschip	reprend reneure and E	eursh ship Emplo	eur iip — Charac — Self Emp oyment — Mo — Entreprend	loyment – I eaning of En	Difference trepreneu	between r – Traits	15
П	Design Idea G Thinkii Value	Thinenera enera ng Pr Addi	nking ation ocess tion	S – Iden S – Cre – Con	ntific ativi	ation of Bus ty – Inventio and Types g Idea into B	siness Oppor n – Innovatio – Tools ar	rtunities – on – Diffe nd Techn	Design rences –	15
III	Proprie Joint S	s of S torsh tock rise	Settin iip – Com –Fea	ng Up Partn pany - sibility	an E ershi - One	interprise – F p – Limited e Man partne udy – Marl	Liability Parship – Cho	artnership ice of For	Firm – rm of an	15
IV	Busine Introdu Market	ss M ction Su Up o	odel odel rvey of an	Canva Conten – F Enterp	as an ts of und	d Formulation of Project Re Requirement - Registration	port – Proje t – Legal	ect Descr Compli	iption – ance of	15
V	MSME Govern MSME Govern DI – I NABA Govern	E's au ament for ament DIC RD, ament	t Sch Ecc t Org – K SIC' t Sc	apport emes onomic anizat hadi a VI, SI hemes	and Greater Gr	itutions Women Ent owth – MS in Entreprend Village Indu SDC, EDII, Prime Mini preneurship	ME – Defi eurship Deve stries Comm EPCCB. In ster Emplo	inition – elopment mission – ndustrial	Role of - MSME NSIC - Estates -	15
						TAL				75
					C	ourse Outco	mes			
CO1	Identify the	he va	rious	traits	of an	n entrepreneu	r			
CO2	Turn idea	s into	bus	iness o	ppor	tunities				-
CO3	Do feasib	ility	study	befor	e stai	rting a projec	t			
CO4	Identify the	he so	urces	of fu	nds fo	or funding a p	project			

CO5	Develop an understanding about the Government schemes available for women entrepreneurs
	Textbooks
1	Jayashree Suresh, (Reprint 2017) Entrepreneurial Development, Margham Publications. Chennai.
2	Dr. C.B. Gupta &Dr. S.S. Khanka (Reprint 2014). Entrepreneurship And Small Business Management, Sultan Chand & Sons, New Delhi.
3	Charantimath Poornima, (Reprint 2014.), Entrepreneurship development-Small, Pearson Education, India.
4	RajShankar,(Reprint2016),EntrepreneurshipTheoryandPractice,VijayNicoleandImprint s Pvt. Ltd, Chennai.
5	Vasant Desai, (Reprint 2017). Dynamics of Entrepreneurial Development & Management Twenty Fourth Edition. Himalaya Publishing House. Mumbai.
	Reference Books
1	Anil kumar, Poornima, Principles of Entrepreneurial development, Newage publication, Chennai.
2	Dr.A.K.singh, Entreprenuerial development and management, Laxmi publications, Chennai.
3	Dr. R.K. Singal, Entreprenuerial development and management, S.K.Kataria publishers, New Delhi.
4	Dr. M.C. Garg, Entrepreneurial Development, New Delhi.
5	E.Gordon, K.Natrajan, Entreprenuerial development, Himalaya publishing, Mumbai.
NOTE	: Latest Edition of Textbooks May be Used
Web R	esources
1.	https://www.interaction-design.org/literature/topics/design-thinking
2.	https://www.bms.co.in/steps-involved-in-setting-up-of-an-enterprise/
3.	http://www.msme.gov.in/

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER – VI ELECTIVE – HUMAN RESOURCE MANAGEMENT

Cubica	t Codo	L	Т	P	S	Credits	Inst.		Marks				
Subjec	i Code	L	ı	r	3	Credits	Hours	CIA	External	Total			
23UCO.	AE64-2	5				3	5	25	100				
					Le	arning Obj	ectives						
C1	To explo	ore to th	e as	spects	relati	ng of Huma	in resource m	nanagemer	nt				
C2	Toequip	with th	e va	arious	proce	esses of Rec	ruitment and	-					
C3	To be ac	quainte	d w	ith Tra	aining	g methods a	nd the conce	ept of Performance Appraisal					
C4	To learn	about I	ndu	strial]	Relat	ions							
C5	To assin	nilate kr	iow	ledge	on er	nployee wel	fare.						
Prerequi	isite: Sho	uld hav	e st	udied	Com	merce in X	II 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
П	RECRUITMENT AND SELECTION Definition — Objectives — Factors affecting recruitment — internal and external source of recruitment — Selection Process — Curriculum Vitae — Test- types— Kinds of employment interview — Medical Screening — Appointment Order.	12
III	TRAINING AND DEVELOPMENT Induction – Training – Methods – Techniques – Identification of the training needs – Training and Development – Performance appraisal – Transfer – Promotion and termination of services – Career Development.	12
IV	INDUSTRIAL RELATIONS Industrial Disputes and Settlements (Laws Excluded) – Settling Industrial Disputes in India – Arbitration – Adjudication – SettlementLabour Relation – Functions of Trade Unions – Forms of collective bargaining-Workers' participation in management – Types and effectiveness.	12
V	EMPLOYEE WELFARE Employee Welfare: Meaning, Objectives, Philosophy, Scope, Limitations, Types of Employee Welfare, Statutory and Non-Statutory Welfare Measures, and Labour Welfare Theories- Social Security, Health, Retirement &Other Benefits- Remuneration – Components of remuneration – Incentives – Benefits	12
	TOTAL	60
CO	Course Outcomes	
CO1	Examine the role of HRM in the new ageorganisation and plan man power requirements and implement techniques of job design.	
CO2	Formulate action plans for employee Recruitment and Selection.	

CO3	Choose appropriate methods of Trainning
CO4	Estimate, defend and handle legal compliance in HRM involving trade union disputes and employee retention.
CO5	Formulate strategies for employee welfare.
	Textbooks
1	Ashwathappa, Human Resource Management, Tata McGraw-Hill Education, Noida.
2	Mamoria, C.B. and Gaonkar, S.V, Personnel Management, Himalaya Publishing House, Mumbai.
3	Sunil Lalla and Neha Shukla, Human Resource Management, Nirali Prakashan Publishers, Pune.
4	P.Subba Rao, Personnel and Human Resource Management, Himalaya Publishing House, Mumbai.
	Reference Books
1	L.M. Prasad, Human Resource Management, Sultan and Chand sons Publications, New Delhi.
2	DeCenzo, D.A. and Robbins, S.P Human Resource Management, Wiley, India.
3	Dr.K.Sundar and Dr.J Srinivasan, Human Resource Development, Margham Publications, Chennai.
4	Jane Weightman, Human Resource Management, VMP Publishers, Mumbai.
NOTE: 1	Latest Edition of Textbooks May be Used
	Web Resources
1	https://hr.university/shrm/strategic-human-resource-management/
2	https://www.investopedia.com/terms/c/collective-bargaining.asp
3	https://www.yourarticlelibrary.com/human-resource-management-2/employee-welfare/employee-welfare/99778

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - VI

ELECTIVE - R LANGUAGE

Subject	oject Code L T P S Credits Inst. Marks												
Bubject	Couc		•		Б	Credits	Hours	CIA	External	Total			
23UCOA	E65-1		2	3		3	5	25 75 100					
				1	Lear	rning Obje	ctives		<u> </u>				
LO1	Acquir	e pro	gramn	ning s	skills i	n core R Pr	ogramming						
LO2	Acquir	e Obj	ject-or	iente	d prog	ramming sl	cills in R Pro	gramming	<u>5</u> .				
LO3	Develo	p the	skill	of des	signing	graphical-	user interfac	es (GUI) i	in R Program	ming			
LO4	Acquire	e R P	rograi	nmin	g skil	ls to move	into specific	branches					
Prerequisit	te: Shoul	d ha	ve stu	died	Comn	nerce in X	II Std						
					Li	st of Exer	cises						
	1.		a In R										
	2.		_		Vriting	Data							
	3. 4.	R A	nd Da	tabas	es								
		Fac											
	6.		scribii	ισ									
	7.			_	ipulati	on							
			a Aggı		_								
				_	aBasic	S							
			R En	•									
	11.	Prol	babilit	y An	d Distr	ributions							
	12.	Des	criptiv	e Sta	tistics	and Graphi	ics						
					_	le Tests							
		_				elation							
			•		ıriance	And The I	Kruskal–Wal	lis Test					
			ular D		0	: 0							
						•	Sample Siz	e					
			tiple I		Hand	nng							
			ear Mo	-	551011								
			istic R		ssion								
		_	vival A	_									
				-		egression							
					e Fitti	-							
	1				TO	ΓAL							
					Co	urse Outco	omes						
CO1	Γo unders	stand	the pr	oblei	n solvi	ing approac	ches						

CO2	To learn the basic programming constructs in R Programming
CO3	To practice various computing strategies for R Programming -based solutions to real world problems
CO4	To use R Programming data structures - lists, tuples, dictionaries.
CO5	To do input/output with files in R Programming

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - VI

ELECTIVE -PRACTICAL TALLY

Subject Code			Т	P	S	Credits	Inst.		Marks				
Subject	_				3	Credits	Hours (External	Total			
23UCO	AE65-2		2	3		3	5	25	75	100			
Learning Objectives													
LO1	Examin	atio	n of g	genera	acc	ounting ap	plications a	s they ar	ply to comp	outerized			
									ompletion of				
							nting applica	ations.	_				
Prerequisi	te: Shoul	d ha	ve stu	died (Comn	nerce in XI	II Std						
	List of Exercises												
	1. Preparation of Trial Balance - preparation of profit and loss												
	accounts, Balance sheet												
	2. Interest simple, compound interest calculation. Setting ledger												
	master,Interest report. 3. Receivable and payable management, meaning activating bill wise												
			vable a s, allty _l				nt, meaning	activating	biii wise				
				L			ry, cost cen	tra braaku	n ladgers				
							eceivable an						
		_	•			•	ash and fun						
							onal voucher		oook nst				
							on of bud		budget				
							n of budget						
	6. In	trod	uction	to GS	T, Ge	etting starte	d with GST	, Transferr	ing Input				
							ls, GST repo						
							rts, Imports,		d Goods,				
							tax paymen		_				
							on, Tax Co						
							e Operator,						
							ut Service D eturns, GST						
							w of the IG						
			Provis		Ctuii	i, Overviev	v or the ro	<i>51 7101,</i> C	over view,				
					oduc	tion. GST	Eco-syste	m. GST	Suvidha				
	10. GST Portal, Introduction, GST Eco-system, GST Suvidha Provider (GSP), Uploading Invoices												
	- !				TOT								
					Co	urse Outco	omes		•				
	input jour accrual-ba				entr	ies and prep	pare financia	l statemen	ts for cash an	d			
CO2	record ver	ndor,	, custo	mer, a	nd in	ventory tran	nsactions ess	ential for	maintaining a	ccounts			
	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

G 1 .	4.0.1	_	T	T D G G P Inst. Marks									
Subjec	t Code	L	T	P	S	Credits	Hours	CIA	External	Total			
23UC(OAF66	2				2	2	25	75	100			
						arning Ob							
LO1	To crea	te the	opport	unity	for le	arning acro	oss different o	disciplines	and builds e	xperience			
	for stud	ents as	they g	grow	into lif	felong learr	ners.						
LO2	To build	d expe	riences	fors	student	s as they g	row into lifele	ong learne	rs.				
LO3	To know the basic concepts of various discipline												
Prerequ	requisites: Should have studied Commerce in XII Std												
UNIT	Details												
	Indian	Polity								Hours			
		•			_	_	·		, Legislature,				
		• / .							features of				
I						_			es, Directive	6			
	_		_	-		-	-		Constitution,				
						-	lection Comn		and the states				
	Geogra		nce, E	iectic	111 5111 1	iluia aliu E	lection Comm	11551011, C <i>I</i>	4U.				
	U		of the	wor	ld _Im	nortant Ca	nals – Gulfs	- Straits	and passes –				
						•			ind systems,				
77								•	ate – Indian				
II									oistribution –	6			
	Importance Trade routes and projects, Indian naturals vegetation – Indian												
	agriculture- Major crops and its distribution, Indian Industries and its												
	Distribu												
	Econon	•	,	r Cl		3.4	1 D 1'	A . 1,					
III						•	•	_	re in India –	6			
	Union Budget – Planning in India – Poverty – Unemployment – Inclusive Development and Development issues – Industrial polices – Financial Markets.												
	History		and De	VCIO	pment	155ucs — III	dustriai pone	cs – Pillali	ciai iviaikets.				
			– fo	rmati	ion of	Indian N	ational Cons	rress – M	orley Minto				
	Modern India – formation of Indian National Congress – Morley Minto Reforms, Revolutionary activities – World War I and India's Response –												
137	Home Rule league – Montague Chelmsford reforms – Rowlett Act – Non –												
IV									port – Civil	6			
									Quit India				
	Movement and Demand for Pakistan - Cabinet Mission - Formation of												
						ition of Ind	1a.						
	Environ					livoroit. E	and aboles are	d food	h Dia Ca-				
V									eb – Bio Geo International				
•	Chemical Cycles – International Bio Diversity organisations- International Conventions – Conferences and Protocol – Indian Environmental laws and												
	Environ						mount Di		var ramb und				
	TOTAI			<u> </u>						30			
					C	ourse Out	comes						
CO1	Devel	op boa	rd kno	wled	lge of t	he differen	t components	in polity					
CO2	Under	stand	the Ge	ograj	phical 1	features acı	oss countries	and in Inc	lia				

CO3	CO3 Acquire knowledge on the aspects of Indian Economy									
CO4 Understand the significance of India's Freedom Struggle										
CO5	Gain knowledge on Ecology and Environment									

Textbooks												
	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	4 Majid Hussain- India Map Entries in Geography, GK Publications Pvt, Ltd.											
NOTE: 1	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	3 https://www.youtube.com/watch?v=Nv_Nnw01FaU											

PART V- EXTENSION ACTIVITY

Subject Code	Category]	Γ	P	S	Credi	Inst.	Marks			
						ts	Hours	CI	Externa	Total	
								A	l		
23UCOAX67	Extension Activity		Y	-	1	1		25	75	100	

(Refer to the Regulations)

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