

MOTHER TERESA WOMEN'S UNIVERSITY KODAIKANAL - 624101



DEPARTMENT OF COMMERCE

B.Com. with Computer Applications

Curriculum Framework, Syllabus, and Regulations

(Based on TANSCHE Syllabus under Choice Based Credit System -CBCS)



(For the candidates to be admitted from the Academic Year2023-24)

B.Com. with Computer Applications - Syllabus

2023 ONWARDS

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Mother Teresa Women's University, Kodaikanal Department of Commerce Choice Based Credit System (CBCS) (2023-2024 onwards) Bachelor of Commerce with Computer Applications

A. About the

The Revised, syllabus for the B.Com with Computer Applications Programme is recommended from the academic year 2023–2024 onwards. The regulations scheme of examinations and syllabus for the B.Com Programme with Computer Application is based on UGC/TANSCHE guidelines under the Choice Based Credit System (CBCS). The Bachelor's Degree in B. Com with Computer Application is awarded to the student on the basis of demonstrated achievement of outcomes (expressed in terms of knowledge, understanding, skills, attitudes, and values) and academic criteria expected ofgraduates at the end of the program. Therefore, the learning outcomes of this particular program are aimed at facilitating the students to acquire these attributes, keeping in view changes in the current socio-economic environment. The Learning Outcomes-based Curriculum Framework (LOCF) of B. Com with Computer Application has been designed keeping in view the graduate attributes, qualification descriptors, program learning outcomes, and course learning outcomes.

B. Programme Educational Objectives:

The B.Com (Computer

Applications) Programme describes accomplishments that graduates are expected to attain within five to seven years after graduation. The Programme has been designed with following objectives:

PEO1 To provide students with specific knowledge and skills relevant to their disciplines and career.

PEO2 To make the students acquainted with technical and practical concepts for understanding the real business problems using different programming languages.

- **PEO3** To train the students on practical business applications using high level programming languages in real world.
- **PEO4** To create awareness about the useful applications of different computer languages that solve real world problems.
- **PEO5** To train the students to enhance the knowledge on visual based programming language and object-oriented language in different business applications using various design principles portraying the concepts of computer applications in business activities.

C. Program Outcomes

On successful completion of the B.Com. (Computer Application) Program, students will be ableto

PO 1	Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and
	understanding of one or more disciplines that form a part of an undergraduate Programme of study
PO 2	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.
PO 3	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.
PO 4	Problem-solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicatecurriculum content knowledge; and apply one's learning to real life situations
PO 5	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.
PO 6	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
PO 7	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 togetheras a group or a team in the interests of a common cause and work efficiently as a member of a team
PO 8	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
PO 9	Reflective thinking : Critical sensibility to lived experiences, with self awareness andreflexivity of both self and society.

PO 10	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 smoothand 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/re-skilling.

D. Programme Specific Outcomes (PSO)

After the successful completion of B. Com. (Computer Application) Program, the studen	nts ¦
are expected to	

PSO 1	Placement: To prepare the students who will demonstrate		
1501	respectful		
	engagement with others' ideas, behaviors, and beliefs and apply diverse		
	framesof 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		
PSO 3	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.		
PSO 4	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		

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<u>Candidate should</u> | passed the Higher Secondary Examination or CBSE Examinationfrom school with Commerce, Accountancy and Computer

F. General Guidelines for UG Programme

G. Duration: The programme shall extend through a period of 6 consecutive semesters and the duration of a semester shall normally be 90 days or 450 hours. Examinations shall be conducted at the end of each semester for the respective subjects.

H. Medium of Instruction: English

Evaluation: Evaluation of the candidates shall be through Internal Assessment and External Examination for both Theory and Practical.

EVALUATION PATTERN	Components for Evaluation	Maximum Marks (both Theory and Practical)	Minimum Marks (both Theory and Practical)
Internal	Continuous Internal Assessment Test	25 Marks	10 Marks
Evaluation	Assignments / Snap Test / Quiz		
	Seminars		
	Attendance and Class Participation		
External	End Semester Examination-Theory and Practical	75 Marks	30 Marks
Evaluation			
	Total * Minimum credits required to pass: 140	100 Marks	40 marks

7.1 Evaluation Pattern

7.2 Internal Assessment-CIA

There shall be three tests conducted by the faculty concerned and the
average of the best two can be taken as the Continuous Internal Assessment
(CIA) for a maximum of 25 marks. The duration of each test shall be one /
one and a half hour.

7.3 Question Paper Pattern for External Examination for all Course

Papers

Max. Marks: 75

Time: 3 Hrs.

S.No.	Part	Туре	Marks
1	1 A 10*1 Marks=10		10
		Multiple Choice Questions (MCQs): 2 questions from each	
		Unit	
2	В	5*4=20	20
		Two questions from each Unit with Internal Choice (either / or)	
3	С	3*15=45	45
		Open Choice: Any three questions out of 5 : one question from	
		each unit	
	•	Total Marks	75

7.4. Methods of Assessment

	METHODS OF ASSESSMENT				
Remembering (K1)	 The lowest level of questions require students to recallinformation from the course content Knowledge questions usually require students to identifyinformation in the textbook. 				
Understanding (K2)	 Understanding off acts and ideas by comprehending organizing, comparing, translating, interpolating and interpreting in their own words. The questions go beyond simple recall and require studentsto combine data together 				
Application (K3)	 Students have to solve problems by using/applying aconcept learned in the classroom. Students must use their knowledge to determine a exactresponse. 				
Analyze (K4)	 Analyzing the question is one that asks the students tobreak down something in to its component parts. Analyzing requires students to identify reasons causes ormotives and reach conclusions or generalizations. 				

Evaluate (K5)	 Evaluation requires an individual to make judgment on something. Questions to be asked to judge the value of an idea, a character, a work of art, or a solution to a problem. Students are engaged in decision-making and problem—solving. Evaluation questions do not have single right answers.
Create	 The questions of this category challenge students to get
(K6)	engaged in creative and original thinking. Developing original ideas and problem solving skills

Project

8.1 Project Report

A student should select a topic for the Project Work at the end of the fifth semester itself and submit the Project Report at the end of the sixth semester. The Project Report shall not exceed 30 typed pages in Times New Roman font with 1.5 line space. There is a **8.2 Project Evaluation** For Project **8.2 Project Evaluation** Work. The Guide and an

External Examiner shall evaluate and conduct the Viva Voce Examination. The Project Work carries 100 marks (Internal: 25 Marks; External (Viva): 75 Marks).

K. Conversion of Marks to Grade Points and Letter Grade(Performance in a Course/Paper)

Range of	Grade Points	Letter Grade	Description
Marks			
90 - 100	9.0 - 10.0	0	Outstanding
80-89	8.0 - 8.9	D+	Excellent
75-79	7.5 - 7.9	D	Distinction
70-74	7.0 - 7.4	A+	Very Good
60-69	6.0 - 6.9	А	Good
50-59	5.0 - 5.9	В	Average
00-49	0.0	U	Re-appear
ABSENT	0.0	AAA	ABSENT

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Students
eachmust
forhave earned 75% of attendence in
appearingforthe examination.Students with 71%to 74% of attendance must apply for condonation in the Prescribed
fee. Students with 65% to 70% of attendance must apply for
condonation in the Prescribed Form with the prescribed fee along with the Medical
Certificate. Students with attendance lesser than 65% are not eligible to appear for the
examination and they shall re-do the course with the prior permission of the Head of the
Department, Principal, and the Registrar of the University.

M. Maternity

The student avails maternity leave may be considered to appear for the examination with the approval of Staff i/c, Head of the Department, Controller of Examination, and the Registrar.

N. Any Other Information

In addition to the above-mentioned regulations, any other common regulations pertaining to the UG Programmes are also applicable for this Programme.

	O. Faculty Course File Structure;		
a.	Academic Schedule	q.	Laboratory Experiments related to the Courses
b.	Students Name List	r.	Internal Question Paper
c.	Time Table	s.	External Question Paper
d.	Syllabus	t.	Sample Home Assignment Answer Sheets
e.	Lesson Plan	u.	Three best, three middle level and three average Answer sheets
f.	Staff Work load	v.	Result Analysis (CO wise and whole class)
g.	Course Design(content, CO Statement(COs), Delivery method, mapping of COs withProgrammeOutcomes(POs),AssessmentPatt ernintermsofRevisedBloom'sTaxonomy).	w.	Question Bank for Higher studies Preparation(GATE/Placement)
h.	Sample CO Assessment Tools	х.	List of mentees and their academic achievements
i.	Faculty Course Assessment Report(FCAR)		
j.	Course Evaluation Sheet		
k.	Teaching Materials(PPT,OHPetc)		
l.	Lecture Notes		
m.	Home Assignment Questions		
n.	Tutorial Sheets		
0.	Remedial Class Record, if any		
р.	Projects related to the Course		

O. Faculty Course File Structure

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				~					es as per TANSC				1	-		~	
Sem I	C r	Н	Sem II	C re	Н	Sem III	Cr e	н	Sem IV	C r	Н	Sem V	Cr e	H	Sem VI	C re	Н
	e di t			di t			di t			e d i t			di t			di t	
Part 1. Languag e – Tamil	3	6	Part1. Languag e– Tamil	3	6	Part1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	5.1 Core Course -\CCIX	4	5	6.1 Core Course – CC XIII	4	6
Part.2 Engli sh	3	6	Part2 English	3	6	Part2 English	3	6	Part2 English	3	6	5.2 Core Course – CCX	4	5	6.2 Core Course – CC XIV	4	6
1.3 Core Course – CCI	5	5	23 Core Course – CC III	5	5	3.3 Core Course – CC V	5	5	4.3 Core Course –CC VII Core Industry Module	5	5	5. 3.Core Course CC -XI	4	5	6.3 Core Cours e –CC XV	4	6
1.4 Core Course – CCII	5	5	2.4 Core Course – CC IV	5	5	3.4 Core Course – CC VI	5	5	4.4 Core Course –CC VIII	5	5	5. 4.Core Course –/ Project with viva- voce CC -XII	4	5	6.4 Elective - VII Generic/ Discipline Specific	3	5
1.5 Elective I Generic/ Discipline Specific	3	4	2.5 Elective II Generic/ Discipline Specific	3	4	3.5 Elective IIIGeneric/ Discipline Specific	3	4	4.5 Elective IV Generic/ Discipline Specific	3	3	5.5 Elective V Generic/ Discipline Specific	3	4	6.5 Elective VIII Generic/ Disciplin e Specific	3	5

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1.6 Skill	2	2	2.6 Skill	2	2	3.6 Skill	1	1	4.6 Skill	2	2	5.6 Elective	3	4	6.6	1	-
Enhance			Enhance	'		Enhancement	l		Enhance			VI Generic/			Extension		
ment			ment	'		Course SEC-4,			ment			Discipline			Activity		
Course SEC-1			Course SEC-2			(Entreprene urialSkill)			Course SEC-6			Specific					
1.7 Skill	2	2	2.7 Skill	2	2	3.7 Skill	2	2	4.7 Skill	2	2	5.7 Value Education	2	2	6.7	2	2
Enhance			Enhanceme			Enhancem			Enhancem			Education			Professio		
ment			nt Course –	'		ent Course	l		ent Course						nal Commente		
- (Foundatio			SEC-3	'		SEC-5			SEC-7						Compete		
n Course)															ncy Skill		
						3.8 E.V.S.	-	1	4.8 E.V.S	2	1	5.8 Summer Internship /Industrial Training	2				
	23	30		23	3 0		22	30		25	30		2 6	3 0		21	30
	Total – 140 Credits																

Course Code	Course Tittle	Credit	Ho	urs	CIA	EIA	Total	
		S	L	P	-			
	FIRST							
	SEMESTER							
U23TAL11	Language 1-Tamil/Other	3	6	-	25	75	100	
U23ENL11	Language 2-English	3	6	-	25	75	100	
U23CCT101	Core Theory – 1: Financial Accounting 1	5	5	-	25	75	100	
U23CCT102	Core Theory – 2: Principles of Management	5	5	-	25	75	100	
	Subject Based Elective I:				25	75	100	
U23CCE1A	1A-Programming in C and Lab /	3	2	2				
U23CCE1B	1B-Python Programming and Lab							
U23CCS11	Skill Enhancement Course SEC–1 (Subject based): Fundamentals of Information Technology	2	2	-	25	75	100	
U23CCF11	Foundation Course - Fundamentals of Commerce	2	2	-	25	75	100	
	TOTAL	23	3	60	-	-	700	
	SECOND SEMESTER					I	1	
U23TAL12	Language1-Tamil/other	3	6	-	25	75	100	
U23ENL22	Language2–English	3	6	-	25	75	100	
U23CCT203	Core Theory – 3: Financial Accounting - II	5	5	-	25	75	100	
U23CCT204	Core Theory – 4: Business Law	5	5	-	25	75	100	
U23CCE22A U23CCE22B	Subject Based Elective - II: A. Elective II-Office Automation and Lab/ B. Programming in C++ and Lab	3	2	2	25	75	100	
U23CCS22	Lab Skill Enhancement Course SEC–2: Soft Skills (Common Syllabus) - Interpersonal Development	2	2	-	25	75	100	
U23CCNM21	Naan Mudhalvan Course - 1	2	2	-	25	75	100	
	TOTAL	23	3	60	_	-	700	
	THIRD SEMESTER	I			1	1	1	
U23TAL13	Language1-Tamil/other	3	6	-	25	75	100	
U23ENL23	Language2-English	3	6	-	25	75	100	
U23CCT305	Core Thoery – 5: Corporate Accounting - I	5	5	-	25	75	100	
U23CCT306	Core Theory – 6: Company Law	5	5	-	25	75	100	
U23CCE33A U23CCE33B	Subject Based Elective III: A. Programming in JAVA Lab / B. Web Technology (PHP) Lab	3	2	2	25	75	100	
	a Woman's University Kodaikanal-62410				I	L	no 11	

	TOTAL	28	3	V	-	-	900
	ТОТАІ	28		30			000
U23CCNM54	Naan Mudhalvan Course - 4	2	2	-	25	75	100
UZSCCSIINI	Summer mærnsmp/maustrial framing	Z	-	-	23	15	100
U23CC5INT	Summer Internship/Industrial Training	2	_	-	25	75	100
U23CCVE1	Design (UML Lab) Value Education	2	2	-	25	75	100
U23CCE56A/ U23CCE56B	Discipline Specific Elective VI Software Engineering (UML Lab) / Object oriented Analysis and	3	2	1	25	75	100
	B. Indirect Taxation	2		1	27	77	100
U23CCE55A/ U23CCE55B	Discipline Specific Elective V: A. Financial Management /	3	3	-	25	75	100
U23CCT512	Core Theory – 12: Project with Viva	4	5	-	25	75	100
U23CCT511	Core Theory – 11: Income Tax Law and Practice1	4	5	-	25	75	100
U23CCT510	Core Theory-10: Banking Law and Practice	4	5	-	25	75	100
U23CCT509	Core Theory-9: Cost Accounting -I	4	5	-	25	75	100
	FIFTH SEMESTER						000
	TOTAL	25		30	-	-	800
U23CC4EVS	Environmental Studies	2	2	_	25	75	100
U23CCNM43	Commerce Practical Naan Mudhalyan	2	2		25	75	100
U23CCS44	Skill Enhancement Course SEC–4	2	2		25	75	100
U23CCE44B	B. Introduction to Data Science						
U23CCE44A/	A. Relational Database Management						
	Marketing Subject Based Elective IV –	3	4	-	25	75	100
U23CCT408	II Core Theory – 8: Principles of	5	4	-	25	75	100
U23CCT407	Core Theory – 7: Corporate Accounting	5	4	-	25	75	100
U23ENL24	Language2-English	3	6	-	25	75	100
U23TAL14	Language1-Tamil/other	3	6	-	25	75	100
	FOURTH SEMESTER		1				<u>I</u>
	TOTAL	22	3	<u> </u>	_	_	700
U23CCNM32	Naan Mudhalvan Course - 2	2	2	-	25	75	100
	Skill Enhancement Course SEC–3 (Entrepreneurial Skill) Business Plan Preparation	1	2		25	75	100

			1				
	SIXTH SEMESTER						
U23CCT613	Core Theory – 13: Cost Accounting II	4	6	-	25	75	100
U23CCT614	Core Theory – 14:	4	6	-	25	75	100
	Management Accounting						
U23CCT615	Core Theory – 15: Income Tax Law	4	6	-	25	75	100
	and Practice II						
U23CCE67A/	Discipline Specific Elective VII –	3	5	-	25	75	100
U23CCE67B	A. Entrepreneurial Development /						
	B. Artificial Intelligence in Business						
U23CCE68A/	Discipline Specific Elective VIII:	3	2	3	25	75	100
U23CCE68B	A. R Language /						
	B. Practical Tally						
U23CCEAS61	Extension Activity	1	-	-	25	75	100
U23CCNM65	Naan Mudhalvan Course - 5	2	2	-	25	75	100
	TOTAL	21	30	·	-	-	700
	GRAND TOTAL	142	18	0	-	-	4500

16. Syllabus in Detail

B.COM. WITH COMPUTER APPLICATIONS

First	Year
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Core-I

Semester I

		Category						S	Marks		
Course Code	Title of the Course		L	Т	Р	0	Credits	Inst. Hour	CIA	External	Total
U23CCT101	FINANCIAL ACCOUNTING-I	CORE-I	5	-	-	-	5	5	25	75	100

	Learning Objectives							
1	To understand the basic accounting concepts and standards.							
2	To know the basis for calculating business profits.							
3	To familiarize with the accounting treatment of depreciation.							
4	To learn the methods of calculating profit for single entry system.							
5	To gain knowledge on the accounting treatment of insurance claims.							
Prer	Prerequisites: Should have studied Accountancy in XII Std							
COURSE CONTENTS								
Fund Finan Conv Erron Erron Prepa	UNIT-I (15 Hrs) Fundamentals of Financial Accounting Financial Accounting – Meaning, Definition, Objectives, Basic Accounting Concepts and Conventions - Journal, Ledger Accounts– Subsidiary Books — Trial Balance - Classification of Errors – Rectification of Errors – Preparation of Suspense Account – Bank Reconciliation Statement - Need and Preparation							
Final	T-II (15 Hrs) al Accounts Accounts of Sole Trading Concern- Capital and Revenue Expenditure and Receipts – aration of Trading, Profit and Loss Account and Balance Sheet with Adjustments.							
Depr Depr Dimi	T-III (15 Hrs) reciation and Bills of Exchange eciation - Meaning – Objectives – Accounting Treatments - Types - Straight Line Method – nishing Balance method – Conversion method. a of Production Method – Cost Model vs Revaluation							

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Bills of Exchange – Definition – Specimens – Disc	counting of Bills – Endorsement of Bill –
Collection –	
Noting – Renewal – Retirement of Bill under rebate	
UNIT-IV	(15 Hrs)
Accounting from Incomplete Records – Single E	Entry System
Incomplete Records -Meaning and Features - L	imitations - Difference between Incomplete
Records and Double Entry System - Methods of	Calculation of Profit - Statement of Affairs
Method – Preparation of final statements by Conve	
UNIT-V	(15 Hrs)
Royalty and Insurance Claims	
Meaning – Minimum Rent – Short Working – F	Recoupment of Short Working – Lessor and
Lessee–Sublease–Accounting Treatment.	- · · ·
e	

Insurance Claims - Calculation of Claim Amount-Average clause (Loss of Stock only)

Note: Question paper will cover 20% Theory and 80% Problem

COURSE OUTCOMES

Students will be able to

CO No	CO Statement	Knowledge Level
CO1	Remember the concept of rectification of errors and Bank reconciliation Statements	K1
CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns	К3
CO3	Analyse the various methods of providing depreciation	K4
CO4	Evaluate the methods of calculation of profit	K5
CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.	К3

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

Book	s for Reference
1	Dr. Arulanandan and Raman: Advanced Accountancy, Himalaya Publications, Mumbai.
2	Tulsian, Advanced Accounting, Tata McGraw Hills, Noida.
3	Charumathi and Vinayagam, Financial Accounting, S.Chand and Sons, New Delhi.
4	Goyal and Tiwari, Financial Accounting, Taxmann Publications, New Delhi.
5	Robert N Anthony, David Hawkins, Kenneth A. Merchant, Accounting: Text and Cases. McGraw-Hill Education, Noida.
	E: Latest Edition of Text books may be used
Web]	References
1	https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1
2	https://www.slideshare.net/ramusakha/basics-of-financial-accounting
3	https://www.accountingtools.com/articles/what-is-a-single-entry-system.html

Mapping With Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	3	2	3	2	2	3	2	2
CO2	3	2	3	3	3	2	2	2	3	2	2
CO3	3	2	3	3	3	2	2	2	3	2	2
CO4	3	2	3	3	2	2	2	2	3	2	2
CO5	3	2	3	3	3	2	2	2	3	2	2

3 – Strong, 2- Medium, 1- Low

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First Year

Core – II

Semester I

		7						S		Mark	s
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Houn	CIA	External	Total
U23CCT102	PRINCIPLES OF MANAGEMENT	CORE-II	5	-	-	-	5	5	25	75	100

	Learning Objectives
1	To understand the basic management concepts and functions
2	To know the various techniques of planning and decision making
3	To familiarize with the concepts of organisation structure
4	To gain knowledge about the various components of staffing
5	To enable the students in understanding the control techniques of management
Prer	equisites: Should have studied Commerce in XII Std
	COURSE CONTENTS
Mear Adm Henr Mana UNI Plant Plant Plant (MB0 Forec	duction to Management ing- Definitions – Nature and Scope - Levels of Management – Importance - Management Vs. inistration – Management: Science or Art –Evolution of Management Thoughts – F. W. Taylor, y Fayol, Peter F. Drucker, Elton Mayo - Functions of Management - Trends and Challenges of gement. Managers – Qualification – Duties & Responsibilities. T- II (15 Hrs) ning ing – Meaning – Definitions – Nature – Scope and Functions – Importance and Elements of ing – Types – Planning Process - Tools and Techniques of Planning – Management by Objective D). Decision Making: Meaning – Characteristics – Types - Steps in Decision Making – easting.
Orga Mean Orga Depa	F-III (15 Hrs) inizing ing - Definitions - Nature and Scope – Characteristics – Importance – Types - Formal and Informal nization – Organization Chart – Organization Structure: Meaning and Types - rtmentalization– Authority and Responsibility – Centralization and Decentralization – Span of agement.

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 degree 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 – Challenges faced by women in workforce - Supervision.

Co-ordination and Control

Co-ordination – Meaning - Techniques of Co-ordination.

Control - Characteristics - Importance – Stages in the Control Process - Requisites of Effective Control and Controlling Techniques – Management by Exception [MBE].

Note: Question paper will cover 100% Theory

COURSE OUTCOMES

Students will be able to

CO No	CO Statement	Knowledge Level
CO1	Demonstrate the importance of principles of management.	K2
CO2	Paraphrase the importance of planning and decision making in an organization.	K2
CO3	Comprehend the concept of various authorizes and responsibilities of an organization.	K2
CO4	Enumerate the various methods of Performance appraisal	K1
CO5	Demonstrate the notion of directing, co-coordination and control in the management.	K2

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

(15 Hrs)

2023 ONWARDS

(15 Hrs)

Books for Reference						
1	K Sundhar, Principles Of Management, Vijay Nichole Imprints Limited, Chennai					
2	Harold Koontz, Heinz Weirich, Essentials of Management, McGraw Hill, Sultan Chand and Sons, New Delhi.					
3	Grifffin, Management principles and applications, Cengage learning, India.					
4	H.Mintzberg - The Nature of Managerial Work, Harper & Row, New York.					
5	Eccles, R. G. & Nohria, N. Beyond the Hype: Rediscovering the Essence of Management. Boston The Harvard Business School Press, India.					
NOTE:	Latest Edition of Text books May be Used					
Web Refe	erences					
1	http://www.universityofcalicut.info/sy1/management					
2	https://www.managementstudyguide.com/manpower-planning.htm					
3	https://www.businessmanagementideas.com/notes/management- notes/coordination/coordination/21392					

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME-SPECIFIC OUTCOMES

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	1	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	1	3	2	2

3 – Strong, 2- Medium, 1- Low

2023

B.COM.WITH COMPUTER APPLICATION

First Year

Elective-I

Semester-I

			~						S		Mark	S
Course Code		Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
		PROGRAMMING	ELECTIVE-	2	-	2	-	3	4	25	75	100
U230	CCE1A	IN C AND LAB	IA- PRACTICAL									
		L	earning Objectiv	es	<u>.</u>							
1	¹ Describe the core syntax and semantics of C programming language.											
2	² Discover the need for working with the strings and functions.											
3	³ Illustrate the process of structuring the data using matrix, structure.											
Prer	Prerequisites: Should have studied Commerce in XII Std											

COURSE CONTENTS

UNIT-I (**12Hrs**) Introduction to C Language: C Language Introduction-Features of C Language-Benefits of C over other languages-Compilation of C Program-First Program in C Pre-processor in C Preprocessor directives **UNIT-II** (**12Hrs**) Variables, Data Types & Operators: Variables and Keywords in C-Scope rules in C-Data Types in C-Operators & Its Types-Typecasting in C **UNIT-III** (12Hrs) Control Flow Statements: Decision Making Statements-Switch Statement in C-C Loops & ControlStructure Practice problems-Continue Statement, Break Statement Array & String Handling in C:Arrays in C-Strings in C **UNIT-IV** (12Hrs) 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 C Practice problems UNIT-V** (**12Hrs**) 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) Note: Question paper will cover 100% Practical

COURSE OUTCOMES

Students will be able to

CO No	CO Statement	Knowledge Level
CO1	Apply the concept of Control Structures to solve any given problem.	K3
CO2	Apply the concept of single and multi-dimensional arrays to solve problems related tosearching, sorting and matrix operations.	K3
CO3	Apply the concept of Strings for writing programs related to character array.	К3
CO4	Write programs using concept of user defined and recursive functions.	K1
CO5	Apply concept of structures to write programs.	K3

Books for Study

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.					
Books	Books for Reference					
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.

Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya PublishingHouse. ISBN-978-93-5299-361-1.

NOTE: Latest Edition of Text books May be Used

Web References

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

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	1	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	1	3	2	2

Mapping With Programme Outcomes and Programme Specific Outcomes

3-Strong, 2-Medium, 1-Low

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.

CO Statement: (for students: To know what they are going to learn)

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

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

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

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

CO5: Apply concept of structures to write programs.

List of Programs

- 1. Write a C program to find roots of a Quadratic equation.
- 2. Write a C program to find the total no. of digits and the sum of individual digits of a positive integer.
- 3. Write a C program to generate the Fibonacci sequence of first N numbers.
- 4. Write a C program to sum the series $S=1 x + (x^2/2!) (x^3/3!) + (x^n/n!)$
- 5. Write a C program to arrange the elements of an integer array using Bubble Sort algorithm.
- 6. Write a C program to input two matrices and perform matrix multiplication on them
- 7. Write a C program to check whether the given string is palindrome or not without using Library functions.
- 8. Write a C program to count the number of lines, words and characters in a giventext.
- 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	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
from the	Professional Communication and Transferrable Skill
Course	

Books for Study:

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

Books for Reference:

- 1. Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford UniversityP ress, 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: 978-93-3254-944-9.15
- 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.IS BN: 978-93-325-3800-9.
- 5. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya PublishingH ouse 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/

B.COM.WITH COMPUTER APPLICATION

Firs	st Yea	ır	Elective-I						S	emes	ter-I	
			ry					S	urs		Mark	S
Cours Code		Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCI	E1B	PYTHON PROGRAMMING AND LAB	ELECTIVE- IB- PRACTICAL	2	-	2	-	3	4	25	75	100
			Learning O	bjec	tive	S			-			
1	Desc	ribe the core syntax and se	mantics of Pythor	n pro	ograr	nmii	ng la	ngua	ge.			
2	Disc	over the need for working	with the strings an	nd fu	ncti	ons.						
3	Illust	trate the process of structuri	ing the data using	lists	s, dic	ction	aries	, tupl	es an	d sets		
4	Unde	erstand the usage of packag	es and Dictionarie	es								
Prerequ	isites:	Should have studied Con	nmerce in XII St	d								

COURSE CONTENTS

COURSE CONTENTS
UNIT-I (12Hrs)
Introduction: Computer algorithms-Computer Hardware-Computer Software-Python
programming language - Literals - Variables and Identifiers - Operators - Expressions and Data
types, Input / output
UNIT-II (12Hrs)
Control Structures: Boolean Expressions - Selection Control - If Statement- Indentation in Python-
Multi- Way Selection Iterative Control- While Statement- Infinite loops- Definite vs. Indefinite
Loops-Boolean Flag. String, List and Dictionary, Manipulations Building blocks of python
programs, Understanding and using ranges.
UNIT-III (12Hrs)
Functions: Program Routines- Defining Functions- More on Functions: Calling Value-
ReturningFunctions- Calling Non-Value-Returning Functions- Parameter Passing - Keyword
Arguments in Python- Default Arguments in Python-Variable Scope. Recursion: Recursive
Functions
UNIT-IV (12Hrs)
Objects and their use: Software Objects - Turtle Graphics – Turtle attributes-Modular Design:
Modules -Top-Down Design - Python Modules
UNIT-V (12Hrs)
Dictionaries and Sets: Dictionary type in Python - Set Data type. Text Files: Opening, reading and
writingtext files – Exception Handling

Note: Question paper will cover 100% Practical COURSE OUTCOMES

CON	0 CO Statement	Knowledge Level
CO1	Develop and execute simple Python programs	K3
CO2	Write simple Python programs using conditionals and looping for solving problems	K1
CO3	Decompose a Python program into functions	K3
CO4	Represent compound data using Python lists, tuples, dictionaries etc.	K3
Books 1	for Study	•
	Charles Dierbach, "Introduction to Computer Science using Python - A comp	putational
1	Problem-solving Focus", Wiley India Edition, 2015.	
	Wesley J. Chun, "Core Python Applications Programming", 3rd Edition, Pea	arson
2	Education, 2016	
	Mark Lutz, "Learning Python Powerful Object Oriented Programming", O're	eilly Media
3	2018, 5th Edition.	
Books	for Reference	
	Timothy A. Budd, "Exploring Python", Tata MCGraw Hill Education Private	e Limited
1	2011, 1 st Edition.	
	John Zelle, "Python Programming: An Introduction to Computer Science", S	econd
2	edition, Course Technology Cengage Learning Publications, 2013, ISBN	978-
	1590282410	
	Michel Dawson, "Python Programming for Absolute Beginers", Third Edition	on, Course
3	Technology Cengage Learning Publications, 2013, ISBN 978-1435455009)
NOTE	: Latest Edition of Text books May be Used	
	Web References	
1	https://onlinecourses.swayam2.ac.in/cec22_cs20/preview	

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	1	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	1	3	2	2

Mapping with Programme Outcomes and Programme Specific Outcomes

3 – Strong, 2- Medium, 1- Low

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

CO Statement: (for students: To know what they are going to learn)

CO1: To understand the problem solving approaches

CO2: To learn the basic programming constructs in Python

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

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

List of Programs

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

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*

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

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

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

Grade E: Percentage < 40

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

10. Create a Turtle graphics window with specific size.

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

Learning Resources:

• Recommended Texts

1. Charles Dierbach, "Introduction to Computer Science using Python - A computational Problem-solving Focus", Wiley India Edition, 2015.

2. Wesley J. Chun, "Core Python Applications Programming", 3rd Edition , Pearson Education, 2016

• Books for Reference

- 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.
- 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

B.COM WITH COMPUTER APPLICATION

First Year

Skill Enhancement Course

Semester I

Course		ury					ţs			Mark	s
Code	Title of the Course	Catego	L	Т	Р	0	Credit	Inst. Hours	CIA	External	Total
U23CCS11	FUNDAMENTALS OF INFORMATION TECHNOLOGY	SEC-I	2	-	-	-	2	2	25	75	100

	Learning Objectives	
1	Understand basic concepts and terminology of information technology.	
2	Have a basic understanding of personal computers and their operation	
3	Be able to identify data storage and its usage	
4	Get great knowledge of software and its functionalities	
5	Understand about operating system and their uses	
	COURSE CONTENTS	
Intr Intro Diag App UN Basi Role type Inpu Prin	IT-I (6H roduction to Computers: oduction, Definition, .Characteristics of computer, Evolution of Computer, Block gram Of a computer, Generations of Computer, Classification Of Computers, lications of Computer, Capabilities and limitations of computer IT-II (6H ic Computer Organization: e of I/O devices in a computer system. Input Units: Keyboard, Terminals and its s. Pointing Devices, Scanners and its types, Voice Recognition Systems, Vision at System, Touch Screen, Output Units: Monitors and its types. Printers: Impact ters andits types. Non Impact Printers and its types, Plotters, types of plotters, So s, Speakers.	[rs] S n
	(6H	(rs)
Prin RAN Disk Driv	rage Fundamentals: hary Vs Secondary Storage, Data storage & retrieval methods. Primary Storage: MROM, PROM, EPROM, EEPROM. Secondary Storage: Magnetic Tapes, Magnes. Cartridge tape, hard disks, Floppy disks Optical Disks, Compact Disks, Zip ve,Flash Drives	
		Hrs)
	tware:	
	ware and its needs, Types of S/W. System Software: Operating System, Utility grams Programming Language: Machine Language, Assembly Language, High el	
Lang	guage their advantages & disadvantages. Application S/W and its types: Wor cessing, Spread Sheets Presentation, Graphics, DBMS s/w	rd
14-4	har Tarasa Waman's University Kodaikanal 624101 Page	

B.Com. with Computer Applications - Syllabus

2023 ONWARDS

UNIT-V Operating System:

Functions, Measuring System Performance, Assemblers, Compilers and Interpreters.Batch Processing, Multi programming, Multi Tasking, Multiprocessing, Time Sharing,

DOS, Windows, Unix/Linux.

Note: Question paper will cover 100% Theory COURSE OUTCOMES

On completion of this course, students will be able to

CON	CO Statement	Knowledge Level
CO1	Apply the basics of computer, Construct the structure of the required things incomputer, learn how to use it.	K3
CO2	Develop organizational structure using for the devices present currently underinput or output unit.	K3
CO3	Explain the concept of storing data in computer using two header namely RAM andROM with different types of ROM with advancement in storage basis.	K5
CO4	Execute with different software, Write program in the software and applications of software.	К3
CO5	Apply Operating system in information technology which really acts as a interpreter between software and hardware.	K3
Books	for Study	
	Anoop Mathew, S. KavithaMurugeshan (2009), "Fundamental of Information Technology", Majestic Books.	l
	Alexis Leon, Mathews Leon," Fundamental of Information Technology", 2 nd Ed S. K Bansal, "Fundamental of Information Technology".	dition.
Books	for Reference	
	BhardwajSushilPuneet Kumar, "Fundamental of Information Technology"	
23	GG WILKINSON, "Fundamentals of Information Technology", Wiley-Blackwer A Ravichandran, "Fundamentals of Information Technology", Khanna Book P	
-	E: Latest Edition of Text books May be Used	uonsning
	References	
	https://testbook.com/learn/computer-fundamentals	
	https://www.tutorialsmate.com/2020/04/computer-fundamentals-tutorial.html	
3	https://www.javatpoint.com/computer-fundamentals-tutorial	
4	https://www.tutorialspoint.com/computer_fundamentals/index.htm_	
5	https://www.nios.ac.in/media/documents/sec229new/Lesson1.pdf	

(6Hrs)

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	3	2	2	2	3	3	3
CO2	3	2	3	3	2	2	2	2	3	3	3
CO3	3	2	3	3	2	2	2	1	3	3	3
CO4	3	3	2	3	2	2	2	2	3	3	3
CO5	2	2	3	3	2	2	2	1	3	3	2

Mapping With Programme Outcomes and Programme Specific Outcomes

S-Strong-3 M-Medium-2 L-Low-1

B.COM WITH COMPUTER APPLICATION

First Y	ear Foundation Course					Semester I						
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	Marks External	Total	
U23CCF11	FUNDAMENTALS OF COMMERCE	FOUNDATION COURSE	2	-	-	-	2	2	25	75	100	

	LEARNING OUTCOMES
1	To Understand the nature and purpose of Commerce
2	To Analyse the nature and Classification of Business
3	To know the various form of Business Organisation
4	To understand the services of Banking Sector
5	To understand the various modes of E-Business

COURSE CONTENTS

UNIT-I

Nature, Scope and Purpose of Commerce:

Human wants and their satisfaction, Specialization and exchange - Division of labour - Need for Commerce - Localization - Classification of productive activities - Branches of Commerce

UNIT - II

Nature and Purpose of Business:

Business: Concept- characteristics - objectives - classification of business - Industry: Types primary- secondary- tertiary - Trade: types - internal, external, wholesale and retail and auxiliaries to trade - Transportation - Warehousing- Communication - Advertising - Business risks - Social Responsibility of Business.

UNIT-III

Forms of Business Organization:

Sole Proprietorship - Partnership - Hindu Undivided Family Business - Cooperative Societies -Company - Private and public company - Meaning- features, merits and limitations - Starting a business - Sources of Business Finance.

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2023 **ONWARDS**

(6Hrs)

(6Hrs)

(6Hrs)

UNIT-IV

Business Services-Banking:

Types of bank accounts - savings, current, recurring, fixed deposit and multiple option deposit account - Banking services with particular reference to issue of bank draft ,banker's cheque(pay order), RTGS(Real Time Gross Settlement), NEFT (National Electronic Funds Transfer), Bank overdraft, Cash credits and E- banking

UNIT -V

Emerging Modes of Business:

E-business – Scope and benefits, resources required for successful e-business implementation, Typed of E-business, online transactions, payment mechanism, security and safety of business transactions.

Note: Question paper will cover 100% Theory COURSE OUTCOMES

Students will be able to

CO No	CO Statement	Knowledge Level						
CO1	Understand the nature and purpose of Commerce	К2						
CO2	Analyse the nature and Classification of Business	K3						
CO3	Know the various form of Business Organisation	K1						
CO4	Understand the services of Banking Sector	K2						
CO5	Understand the various modes of E-Business	K3						
Books for	Study							
1	Fundamentals of Commerce, V.K.Puriand Vijay Kapur, Applied Publishers Pvt. Limited, Mumbai.							
Books for 1	Reference							
1	Books on fundamentals of Commerce and Banking including E-con	nmerce						
NOTE: L	atest Edition of Text books May be Used							
Web Refer	ences							
1	https://www.bgateway.com/resources/e-commerce-and-selling-online-the- fundamentals							
2	https://www.informationpk.com/principle-of-commerce-notes-for-i-co year/	om-part-i-1st-						

(6 Hrs)

2023 ONWARDS

(6Hrs)

	PO	РО	РО	РО	РО	PO	РО	РО	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	2	2	2	2	2	1	2	2
CO2	3	2	3	3	2	2	2	2	2	2	2
CO3	3	2	3	3	2	2	2	2	2	2	2
CO4	3	2	2	3	2	2	2	2	2	2	2
CO5	3	2	3	3	2	2	2	2	2	2	2
	3 – Strong, 2- Medium,					lium,	•	1- Low	•		

Mapping With Programme Outcomes and Programme Specific Outcomes

2023 ONWARDS

B.COM WITH COMPUTER APPLICATION

First Year

Core – III

Semester II

								S		Mark	s
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCT20 3	FINANCIAL ACCOUNTING-II	CORE III	5	-	-	-	5	5	25	75	100
	Learning Obje	ctives									
1	To prepare different kinds of accounts	s such High	er pu	urcha	ase a	nd Ir	nstalln	nents	System	n.	
2	To understand the allocation of expen	ses under d	lepar	tmer	ntal a	accou	ints.				
3	To gain an understanding about partnership accounts relating to Admission andretirement.										
4	4 To provide knowledge to the learners regarding Partnership Accounts relating.										
5	5 To know the requirements of international accounting standards.										
Prerequisite	es: Should have studied Accountancy	in XII Std.									

COURSE CONTENTS

UNIT-I

(15 hrs)

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

(15 hrs)

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

(15 hrs)

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

ONWARDS

UNIT-IV

(15 hrs)

2023

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

UNIT-V

(15 hrs)

Accounting Standards for financial reporting (Theory only) Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in India Role of IFRS- IFRS Adoption vs Convergence Implementation Plan in India- Ind AS-An Introduction - Difference between Ind AS and IFRS

Note: Question paper will cover 20% Theory and 80% Problems

COURSE OUTCOMES

Students will be able to

CO No	CO Statement							
CO1	To evaluate the Hire purchase accounts and Instalment systems	K5						
CO2	To prepare Branch accounts and Departmental Accounts							
CO3	To understand the accounting treatment for admission and retirement in Partnership	К2						
CO4	To know Settlement of accounts at the time of dissolution of a firm	K1						
CO5	To elaborate the role of IFRS	K2						

Books for	Study									
1	Radhaswamy and R.L. Gupta: Advanced Accounting, Sultan Chand, New Delhi.									
2	M.C. Shukla T.S. Grewal & amp; S.C. Gupta, Advance Accounts, S Chand									
	Publishing,New Delhi.									
3	R.L. Gupta and V.K. Gupta, "Financial Accounting", Sultan Chand, New Delhi.									
4	S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers, NewDelhi.									
5	T.S. Reddy& A. Murthy, Financial Accounting, Margam Publishers, Chennai									
Books for	Reference									
1	Dr. S.N. Maheswari: Financial Accounting, Vikas Publications, Noida.									
2	Dr. Venkataraman& others (7 lecturers): Financial Accounting, VBH, Chennai.									
3	Dr.Arulanandan and Raman: Advanced Accountancy, Himalaya									
	publications,Mumbai.									

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2023 ONWARDS

4	Tulsian, Advanced Accounting, Tata MC. Graw hills, India.									
5	Charumathi and Vinayagam, Financial Accounting, S.Chand and sons, NewDelhi									
NOTE: Latest Edition of Text books May be Used										
Web Refer	Web References									
1	https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1									
2	https://www.slideshare.net/ramusakha/basics-of-financial-accounting									
3	https://www.accountingtools.com/articles/what-is-a-single-entry-system.html									

Mapping With Programme Outcomes and Programme Specific Outcomes

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

3 – Strong,

2- Medium,

1- Low

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2023 ONWARDS

B.COM.WITH COMPUTER APPLICATION

First Year

Core – IV

Semester II

		7						S		Marks		
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External		
U23CCT20 4	BUSINESS LAW	BUSINESS LAW $\begin{bmatrix} 5 \\ 0 \end{bmatrix} \begin{bmatrix} - \\ - \end{bmatrix} \begin{bmatrix} - \\ - \end{bmatrix} \begin{bmatrix} 5 \\ - \end{bmatrix} \begin{bmatrix} - \\ - \end{bmatrix} \begin{bmatrix} - \\ - \end{bmatrix} \begin{bmatrix} 5 \\ - \end{bmatrix} \begin{bmatrix} - \\ - \end{bmatrix} \begin{bmatrix} - \\ - \end{bmatrix} \begin{bmatrix} 5 \\ - \end{bmatrix} \begin{bmatrix} - \\ - \end{bmatrix} \begin{bmatrix}$				75						
Learning Objectives												
1 To know the nature and objectives of Mercantile law and the essentials of valid contract												
2	2 To gain knowledge on performance contracts											
3	3 To be acquainted with the rules of Indemnity and Guarantee											
4	To make aware of the accepticle of Beilmont and pladge											
5 To understand the provisions relating to sale of goods												
_	tes: Should have studied Accountancy	in XII Sto	d									
	COURSE	E CONTE	INTS	3								
UNIT				,					(15	5 hrs)		
	ents of Contract								X -			
of Co	In Contract Act 1872: Definition of Co ontract, Offer and Acceptance – Consic ity of Object – Contingent Contracts – V	leration -	Cap									
UNIT	Г-П											
	ormance of Contract	~								5 hrs)		
Place	ing of Performance, Offer to Perform, 1 of Performance, Reciprocal Promises, 2 act - Termination and Discharge of Cont	Assignme	nt of	Cor	ntrac			•				
UNIT	ſ-III								(1	5 hrs)		
	ract of Indemnity and Guarantee	-							• -			
	act of Indemnity and Contract of Guar		tent	of S	Sure	ty's I	Liabil	ity, K	inds c	ot		
	Guarantee, Rights of Surety, Discharge of Surety UNIT-IV (15 hrs)											
	nent and Pledge – Bailment – Concept	– Essent	ials -	- Cla	assif	icatio	on of	Bailn		· · · · · · · · · · · · · · · · · · ·		
	Lights of Bailor and Bailee – Law of Pled											
	and Lien, Rights of Pawner and Pawnee.											

UNIT-V

(15 hrs)

Sale of Goods Act 1930:

Definition of Contract of Sale – Formation - Essentials of Contract of Sale - Conditions and Warranties - Transfer of Property – Contracts involving Sea Routes - Sale by Non-owners -Rights and duties of buyer - Rights of an Unpaid Seller

Note: Question paper will cover 100% Theory

COURSE OUTCOMES

Students will be able to

CO No	CO Statement	Knowledge Level
CO1	Explain the Objectives and significance of Mercantile law	K2
CO2	Understand the clauses and exceptions of Indian Contract Act.	K2
CO3	Outline the contract of indemnity and guarantee	K2
CO4	Familiar with the provision relating to Bailment and Pledge	K1
CO5	Explain the various provisions of Sale of Goods Act 1930	K2

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

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

Mapping V	With	Programme	Outcomes	and	Programme-Spec	ific (Dutcomes
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3 – Strong, 2- Medium, 1- Low

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ONWARDS

2023

B.COM WITH COMPUTER APPLICATIONS

First	t Year	Elective-II		Semester-II					Ι		
								S		Mark	S
Course Code	Title of the Course	Category	L	T	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCE22A	OFFICE AUTOMATION AND LAB	ELECTIVE -2A	2	-	2	-	3	4	25	75	100
	Learn	ing Objectives	•		•	1	<u>. </u>	. <u></u>			
1 T	he major objective in introducin	ng the Computer	Skil	lls co	ourse	is to	o impa	art tra	ining	for stud	lents
in	Microsoft Office which has dif	ferent component	nts li	ke N	1S V	Vord	, MS	Excel	andPo	ower po	oint.
2 TI	The course is highly practice oriented rather than regular class room teaching.										
3 To	To acquire knowledge on editor, spread sheet and presentation software.										
Prerequisites:	Should have studied Comme	rce in XII Std									

COURSE CONTENTS UNIT-I (12Hrs) Introductory concepts: Hardware and Software - Memory unit - CPU-Input Devices: Key board, Mouse and Scanner. Output devices: Monitor, Printer. Introduction to Operating systems -Introduction to Programming Languages. **UNIT-II** (**12Hrs**) Word Processing: File menu operations - Editing text - tools, formatting, bullets and numbering -Spell Checker - Document formatting – Paragraph alignment, indentation, headers and footers, printing – Preview, options, merge. **UNIT-III** (**12Hrs**) Spreadsheets: Excel - opening, entering text and data, formatting, navigating; Formulas entering, handling and copying **UNIT-IV** (12Hrs) Charts – creating, formatting and printing, analysis tables, preparation of financial statements, introduction to data analytic. **UNIT-V** (**12Hrs**) Power point: Introduction to Power point - Features – Understanding slide typecasting & viewing slides – creating slide shows. Applying special object – including objects & pictures – Slidetransition – Animation effects, audio inclusion, timers.

Note: Question paper will cover 100% Practical

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COURSE OUTCOMES

Students will be able to

CO No	CO Statement	Knowledge Level
CO1	Understand the basics of computer systems and its components.	K2
CO2	Understand and apply the basic concepts of a word processing package.	K2
CO3	Understand and apply the basic concepts of electronic spreadsheet software.	K2
CO4	Understand and apply the basic concepts of database management system.	K2
CO5	Understand and create a presentation using PowerPoint tool.	K2

Books for	r Study
1	Peter Norton, "Introduction to Computers" – Tata McGraw-Hill.
Books for	r Reference
1	Jennifer Ackerman Kettel, Guy Hat-Davis, Curt Simmons, "Microsoft 2003", Tata
1	McGraw- Hill.
NOTE:	Latest Edition of Text books May be Used
Web Refe	erences

Web content from NDL / SWAYAM or open source Web References

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, excelspread sheets, power point presentations using the Microsoft suite of office tools.

To familiarize the students in preparation of documents and presentations with officeautomation tools.

CO Statement: (for students: To know what they are going to learn)

CO1: to perform documentation

1

CO2: to perform accounting operations

CO3: to perform presentation skills

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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 inword, 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 clip art, Drawing toolbar and Word Art, Formatting Images, Text boxes and Paragraphs

Excel

Excel Orientation :The instructor needs to tell the importance of MS Excel as a Spreadsheettool, 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, groupand 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, SlideLayouts, 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 B.Com. with Computer Applications - Syllabus

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

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	1	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	1	3	2	2

First Year

B.Com. with Computer Applications - Syllabus 2023

2025 ONWARDS

Semester II

B.COM WITH COMPUTER APPLICATION Elective-II

Marks Inst. Hours External Credits **Course Code Title of the Course** Т P O L Category Total CIA 4 3 25 75 PROGRAMMING **ELECTIVE-**2 100 2 --**2B U23CCE22B** IN C++ AND LAB

	Learning Objectives
1	To engender an appreciation for the need and characteristics of Object-
	orientation.
2	To impart knowledge of the C++ language grammar in order to design and implement
	programming solutions to simple problems by applying Object-oriented thinking.
	programming solutions to simple problems by apprying object-oriented uniking.
Prereq	uisites: Should have studied Commerce in XII Std
	COURSE CONTENTS
UNIT-	
-	Oriented Programming Concepts: Complexity in software - The need for object-
	tion – Abstraction – Encapsulation – Modularity – Hierarchy.Basic Elements of C++:
Classes	- Objects - Data members and member functions - private and public access specifiers -
Static r	nembers - Constructors – Singleton class - Destructors
UNIT-	II (12Hrs)
Friend	Functions and Friend Classes - Array of objects - Pointer to objects - this pointer -
Referen	ces – Dynamic memory allocation - Namespaces.Function Overloading: Overloading a
function	n - Default arguments – Overloading Constructors.Operator Overloading: Overloading an
operato	r as a member function – Overloading an operatoras a friend function
UNIT-	(
	ading the operators [], (), -> and comma operators – Conversion Functions.Inheritance:
	of inheritance – protected access specifier –Virtual Base Class – Base class and derived
	onstructors. Run-time Polymorphism: Virtual Functions
UNIT-	
	on overriding - Pure virtual function – Abstract base class.
-	tes: Function templates – Overloading a function template – Class templates.
UNIT-	
-	ion Handling: Exceptions – try, catch, throw – Rethrowing an exception – Restricting
-	ons - Handling exceptions in derived classes - terminate(), abort(), unexpected(),
	ninate().
	eams: Formatted I/O with ios class functions - Manipulators – Creating own manipulator – ding << and >> operators.

Note: Question paper will cover 100%Practical

COURSE OUTCOMES

Students will be able	to	
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CO No	CO Statement	Knowledge Level
CO1	Explain the various basic concepts of Object-orientation.	K2
CO2	Write programs to implement static binding	K1
CO3	Write programs to implement inheritance and dynamic binding	K1
CO4	Write programs to implement templates and exception handling and learn howto use STL class library.	K1
CO5	Write programs implementing File and Stream I/O.	K1

Books for	r Study
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)
Books for	r Reference
1	Bjarne Strousstrup, The C++ Programming Language, Addison Wesley, 2000.
2	J. P. Cohoon and J. W. Davidson, C++ Program Design – An Introduction to
2	Programming and Object-Oriented Design, Second Edition, McGraw Hill, 1999.
3	C. J. Lippman, C++ Primer, Third Edition, Addison Wesley, 2000.
NOTE:	Latest Edition of Text books May be Used
Web Re	ferences
1	https://cplusplus.com/
2	https://www.geeksforgeeks.org/c-plus-plus/

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	1	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	1	3	2	2

B.Com. with Computer Applications - Syllabus

2023 ONWARDS

FIRST YEAR – SEMESTER - II

Object Oriented Programming with C++

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

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

CO Statement: (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

C. 1. Write a class to represent a comlpex number which has member functions to do the following
a. Set and show the value of the comlpex number
b. Add, subtract and multiply two complec number
c. Multiplying the complex number with a scalar value
D.
E. 2. Write a Point class that represents a 2-d point in a plane.
F.
G. 3. Write member functions to
a. Set and show the value of a point.
b. Find the distance between two points.
a. Check whather 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 tospecify the type of solid.
- b. Use functions to calculate volume and surface area for different solids.

H.

- 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

I.

- 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

J.

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 asmember 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

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

Books for Study

- 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)

Books for Reference

- 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.

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2023 ONWARDS

B.COM WITH COMPUTER APPLICATION

First Year

Skill Enhancement Course-II

Semester II

								S	Marks		
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hou	CIA	External	Total
U23CCS22	SOFT SKILL - INTERPERSONAL DEVELOPMENT	SEC 2	2	-	-	-	2	2	25	75	100

LEARNING OBJECTIVES	
1. To enable the learners to make self-discovery	
2. To enhance the learners' overall personality	
3. To instill the learners with positive attitudes to li	fe
4. To enable the learners to efficiently manage their	Time in learning andworking
environments	
Prerequisites Communicative skills acquired in F	ligher Secondary
COURSE CONT	ENTS
Unit-I Soft Skills-Introduction	(6Hrs)
What are soft skills? - Importance of Soft Skills-Different	
Skills-Kinds of Soft Skills Self-Discovery-SWOC And	alysis-Advantages of SWOC analysis
Unit-II-Attitude	(6Hrs)
What is Attitude? -Formation of attitudes-Positive and	0
attitude- Obstacles in Developing Positive Attitudes- O	vercoming Negative Attitude and its
Impacts- Developing Positive Attitude	
Unit III-Time Management	(6Hrs)
Value of Time-Sense of Time management- Reasons	for procrastination- Overcoming
procrastination- Tips for Time Management-Deciding	upon Priorities- Effective Scheduling
Unit-IV-Communication Skills	(6Hrs)
Listening-Listening and Hearing- Active and Passive L	isteningSpeaking-Verb and Non-
verbal Communications Reading- Skimming, Scannir	g, Intensive, and Extensive Reading
Writing-Formal and Informal Letters-Drafting Mails a	and Memos
Unit V- Interview Skills Preparing Resume/CV	(6Hrs)
Preparing Resume/CV-Covering Letter Interview Etic	juette, Dress Code, Dos, and Don'ts
Note: Question paper will cover 100% Theorem	· · · · · · · · · · · · · · · · · · ·

Note: Question paper will cover 100% Theory

B.Com. with Computer Applications - Syllabus 2023 ONWARDS

COURSE OUTCOMES

O. No	CO Statement	Knowledge Level
CO1	Enhance ability to communicate effectively with others,.	K6
CO2	Enhance Relationship Management	K6
CO3	gain a better understanding of own emotions, behaviors, strengths, and weaknesses	K2
CO4	Know how to motivate and inspire others, provide constructive feedback, and foster a positive team environment.	K1
CO5	develop a greater appreciation for different perspectives, cultures, and backgrounds, leading to increased empathy and cultural sensitivity.	K6
Bo	oks for Study	
1. 2. <i>3</i> . 4.	 Alex, K. Soft Skills. S Chand & Co Ltd., Chennai: 2009. Butterfield, Jeff et.al. Soft Skills for Everyone. Cengage India, New Delhi: 2022. Hariharan, S., N. Sundararajan, S.P. Shanmugapriya. Soft Skills. Gauvrav Books, Chennai: 2020 Sharma, Prashant. Soft Skills: Personality Development for Success. BPB Publication 	
B	Bengalaru: 2019. ooks for Reference	
	 Almonte, Richard. A Practical Guide to Soft Skills: Communication, Psychology, and Ethics for Your Professional Life. Routledge,Oxford:2021. Bardhan, Peeta Bobby & Dr. Krishaveer Abhishek Challa. A CompleteTextb on Soft Skills. Kanishka Publisher, Chennai:2020. Mitra, Barun K.Personality Development and Soft Skills (Second Edition).O: UVP., New Delhi:2016. BAOU. Business Communication & Soft Skills. https://baou.edu.in/assets/pdf/BBAATR-304.pdf GoSkills. Learn Soft Skills. https://www.goskills.comNational Council of Educational Research and Training. <u>Soft skills for effective communication.</u> https://ncert.nic.in/textbook/pdf/kect108.pdf SIRC of ICAI. Soft Skills and Personality Development. https://www.sirc- icai.org/images/cabf/Soft Skills & Personality Development.pdf 	
	NOTE: Latest Edition of Text books May be Used b References	

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	PO	PO	PO	PO	РО	PO	PO	PO	PSO	PSO	PSO
	1	2	3	4	5	6	7	8	1	2	3
CO1	2	3	2	2	3	2	2	2	3	2	3
CO2	2	3	2	3	2	2	2	2	3	2	2
CO3	2	3	2	2	2	2	2	1	3	2	2
CO4	2	3	2	2	2	2	2	2	3	2	2
CO5	2	3	3	3	2	2	2	1	3	2	2

Mapping with Programme Outcomes and Programme Specific Outcomes

BCOM (CA) MTWU SYLLABUS 2024											
B.Com. with Computer Applications - Syllabus 2023 ONWARDS											
B.COM, Computer Applications											
First Year Semester II											
		8						rs		Mark	s
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCNM21	NAAN MUDHALVAN		2	-	-	-	2	2	25	75	100

B.Com. with Computer Applications - Syllabus

2023 **ONWARDS**

SEMESTER III

B.Com, Computer Applications Core V

First Year		Core	V						Seme	ester II	I
								s		Marl	KS
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hour	CIA	External	Total
U23CCT305	CORPORATE ACCOUNTING 1	Core V	5	-	-	-	5	5	25	75	100

	LEARNING OBJECTIVES
1	To understand about the pro-rata allotment
2	To know the provisions of companies, Act under Redemption of Preference shares and debentures
3	To learn the form and contents of financial statements as per Schedule III of Companies Act 2013
4	To examine the factors affecting goodwill of a company
5	To identify the Significance of International financial reporting standard (IFRS)

Prerequisites: Should have studied Commerce in XII Std

COURSE CONTENTS

Unit 1

(15Hrs)

(15Hrs)

(15Hrs)

Issue of Shares

Issue of Shares - Forfeiture - Reissue - Pro-rata Allotment - Right Issue - Bonus Issue - Underwriting of Shares and Debentures - Underwriting Commission - Types of Underwriting.

Unit 2

Redemption of Preference Shares & Debentures

Redemption of Preference Shares-Provisions of Companies Act- Capital Redemption Reserve -Minimum Fresh Issue - Redemption at Premium. 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.

Unit 3

Final Accounts

Introduction - Final Accounts - Form and Contents of Financial Statements as Per Schedule III of Companies Act 2013 - Part I Form of Balance Sheet - Part II Form of Statement of Profit and Loss Remuneration. Profit Prior to Incorporation. -Ascertaining Profit for Managerial

Unit 4

Valuation of Goodwill & Shares

Valuation of Goodwill and Shares - Factors Affecting Goodwill - Methods of Valuation - Acquisition of Business.

(15Hrs)

Unit 5

Indian Accounting Standards

International Financial Reporting Standard (IFRS)–Meaning and its Applicability in India - Indian Accounting Standards – Meaning – Objectives – Significance – Accounting Standards in India – Procedures for Formulation of Standards – Ind AS – 1 Presentation of Financial Statement, Ind AS – 2 Valuation of Inventories, Ind AS – 7 Cash Flow Statement, Ind AS – 8 Accounting Policies, Changes in Accounting Estimate and Errors, Ind AS 12 Income Tax Indi AS – 16, Property Equipment Ind AS – 103, Business Combinations Ind AS 110, Consolidated Financial Statement.

Note: Question Paper shall cover 20% Theory and 80% Problem COURSE OUTCOMES

At the end of the course students would be able to

CO.No		Knowled
		ge Level
1	To understand the provisions for underwriting commission	K2
2	To examine the provisions of issue and redemption of preferences shares and debentures	K3
3	To illustrate part, I and part II forms	K3
4	To value shares and goodwill	K5
5	To analyse IND AS 7, 12,16	K4
K1 - Rem	ember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	– Create

Bo	oks f	or Study							
1.	S.F	P. Jain and N.L. Narang, Advanced Accounting Vol I, Kalyani Publication, New Delhi.							
2	R.I	L. Gupta and M. Radha swamy, Advanced Accounts Vol I, Sultan Chand, New Delhi.							
3.	Bro	oman, Corporate Accounting, Taxmann, New Delhi.							
4.	4. Shukla, Grewal and Gupta- Advanced Accounts Voll,S.Chand, New Delhi.								
5.	М.	C.Shukla, Advanced accounting Vol I, S.Chand, New Delhi.							
]	Bool	ks for References							
	1	T.S. Reddy, A. Murthy – Corporate Accounting- Margham							
		Publication, Chennai.							
	2	D.S.Rawat & Nozer Shroff, Students Guide To Accounting							
		Standards, Taxmann, New Delhi							
	3	Prof. Mukeshbramhbutt, Devi,Corporate Accounting I, AhilyaPublication,							
		Madhya Pradesh							
4	4	Anil Kumar, Rajesh kumar, Corporate accounting I, HimalayaPublishing							
		house, Mumbai.							
	5	Prasanth Athma, Corporate Accounting I, Himalaya Publishinghouse,							
		Mumbai.							
		NOTE: Latest Edition of Text books May be Used							
		Web References							
	1	https://open.lib.umn.edu/financialaccounting/							

B.Com. with Computer Applications - Syllabus

2023 ONWARDS

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

Mapping with Programme Outcomes and Programme Specific Outcomes

B.Com. with Computer Applications - Syllabus

2023 ONWARDS

								S		Mark	s
Course Code	e Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U 23CCT30	6 COMPANY LAW	Core VI	5	-	-	-	5	5	25	75	100
	LEAI	RNING OBJE	CTIVES								
1	To know Company Law										
2	To have an understanding	on the formati	ion of a co	ompa	iny						
3	To understand the requisit	tes of meeting a	and resolu	ition							
4 To gain knowledge on the procedure to appoint and removeDirectors											
5To familiarize with the various modes of winding up											
Introduct	ion to Company law			a of	Con	npan	v - L	ifting			
Companie Corporate Classificat Unit- II Formatio	s Act 2013 – Definition of a Veil – Company Distingui ion of Companies – Based of n of Company	ished from Par n Incorporation	rtnership , Liability	and 1 , Nur	Lim [:] nber	ited	Liabi Memt	ilities bers, (Partn Contro	erships ol. (15Hi	s – (s)
Companie Corporate Classificat Unit- II Formation Formation Contents –	Veil – Company Distingui ion of Companies – Based or	ished from Par n Incorporation, r – Fundament Articles of Ass	thership , Liability al Docun	and 1 , Nur nents Certi	Lim nber – N ifica	ited of <u>N</u> Mem te of	Liabi Memt	ilities bers, (dum o porati	Partn Contro of Ass ion – I	erships d. (15Hi ociation Prospect	s – (s) n – tus
Companie Corporate Classificat Unit- II Formation Contents – – Contents Unit -III Meeting Meeting an	Veil – Company Distingui ion of Companies – Based or n of Company of a Company – Promoter Alternation – Legal Effects –	ished from Par n Incorporation, r – Fundament Articles of Ass capital – Kind uisites – Voting	thership , Liability al Docun sociation - ls – Issue -	and 2 , Nur nents Certi – Alto Reso	Lim nber – N ificat erna	Mem te of tion	Liabi Memt loranc Incor – Div	ilities bers, C lum o porati ridenc	Partn Contro of Ass ion – I I – Del	erships d. (15H) cociation Prospect benture (15H)	s – rs) n – tus s. rs)

Special Courts.

Unit- V

Winding up

(15Hrs)

Meaning – Modes – Compulsory Winding Up – Voluntary Winding Up – Consequences of Winding Up Order – Powers of Tribunal – Petition for Winding Up – Company Liquidator.

Note: Question Paper shall cover 100% Theory

COURSE OUTCOMES

At the end of the course students would be able to

CO. NO	CO Statement	Knowled ge level
CO1	Understand the classification of companies under the act	K1
CO2	Examine the contents of the Memorandum of Association & Articles of Association	K2
CO3	Know the qualification and disqualification of Auditors	K4
CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)	K1
CO5	Analyse the modes of winding up	K4
K1 - I	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	– Create
Boo	oks for Study	
1.]	N.D. Kapoor, Business Laws, Sultan Chand and Sons, Chennai	
2.1	R.S.N. Pillai – Business Law, S.Chand, New Delhi.	
3.1	M.V. Dhandapani, Business Laws Sultan Chand and Sons, Chennai	
4.5	Shusma Aurora, Business Law, Taxmann, New Delhi	
5.	M.C.Kuchal, Business Law, VikasPublication, Noida	
Bo	oks for References	
1.0	Gaffoor & Thothadri, Company Law, Vijay Nichole ImprintsLimited, 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.I	PreethiAgarwal, Business Law, CA foundation study material	
	NOTE: Latest Edition of Text books May be Used	
A	AA. Web References	
1.	https://www.mca.gov.in/content/mca/global/en/acts-rules/companies- act/companies-act-2013.html	
2.1	https://vakilsearch.com/blog/explain-procedure-formation-company/	
3.	https://www.investopedia.com/terms/w/windingup.asp	

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	3	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	3	3	2	2

	DC01			2.4							
	BCON	/I (CA) MTWU SY	LLABUS 20	24							
		A,Computer A						-		-	
Second Year	· SI	KILL BASED	COURSI	£			2	Seme	ster II	1	
								s		Mark	KS
Course Code	Title of the Course	egory	L	Т	Р	0	redits	Hours		ernal	_
Course Coue		Categ			•	U	Cre	Inst. F	CIA	Exter	Total
							2		25		
U23CCE33A	PROGRAMMING IN JAVA AND LAB	H	2	-	2	-	3	4	25	75	100
		SBE III									
	LEA	RNING OBJI	ECTIVES		<u> </u>						
1			hight origi		rogr	amn	ning.				
	To provide fundamental k	nowledge of o	bject-offer	nteap	nogi						
2	To provide fundamental k To equip the student with basics up							the			

COURSE CONTENTS

Unit 1 Introduction

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

Unit

Java user defined Classes

Java user defined Classes and Objects – Arrays – constructors - Inheritance: Basic concepts - Types of inheritance - Member access rules - Usage of this and Super key word - Method Overloading - Method overriding - Abstract classes - Dynamic method dispatch - Usage of final keyword

Unit

Packages

Definition - Access Protection - Importing Packages - Interfaces: Definition – Implementation – Extending Interfaces Exception Handling: try – catch - throw - throws –- finally – Built-in exceptions - Creating own Exception classes - garbage collection, finalise.

Unit 4

Multithreaded Programming:

Thread Class - Runnable interface – Synchronization – Using synchronized methods – Using synchronized statement - Interthread Communication – Deadlock

Unit

Adapter classes

Inner classes -Java Util Package / Collections Framework: Collection & Iterator Interface- Enumeration-List and Array List- Vector- Comparator

Note: Note: Question paper will cover 100%Practical

COURSE OUTCOMES

At the end of the course students would be able to

CO.NO	CO STATEMENT	Knowledge Level
CO1	Understand the basic Object-oriented concepts. Implement the basic constructs of Core Java	K2
CO2	Implement inheritance, packages, interfaces and exception handling of Core Java	К3
CO3	Implement multi-threading and I/O Streams of Core Java	K3

Books	Books for Study							
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.							
Books for References								

(12Hrs)

(12Hrs)

(12Hrs)

(12Hrs)

(12Hrs)

	BCOM (CA) MTWU SYLLABUS 2024							
1.	Head First Java, O'Rielly Publications, Y. Daniel Liang, Introduction to Java							
	Programming, 7th Edition, Pearson Education India, 2010.							
NOTE	NOTE: Latest Edition of Text books May be Used							

Web References1.Web Re

Web References from NDL Library, E-content from open-source libraries

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	3	3	2	2	2	3	3	3
CO2	3	2	2	3	2	2	2	2	3	3	3
CO3	3	2	2	3	2	2	2	2	3	3	3
CO4	3	3	2	3	2	2	2	3	3	3	3
CO5	3	3	3	3	2	2	2	3	3	3	2

Java Programming Lab	Core -S2EC1L						
Learning Objectives: (for teachers: what they have to do in the class/lab/field)							
• To gain practical expertise in coding Core Java programs							
• To become proficient in the use of AWT, Event Handling and Swing	2.						
CO Statement: (for students: To know what they are going to learn) CO1:							
Code, debug and execute Java programs to solve the given problems CO2:							
Implement multi-threading and exception-handling							
CO3: Implement functionality using String and String Buffer classes							

List of Lab Programs BCOM (CA) MTWU SYLLABUS 2024

- 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

Second Year

B.COM ,Computer Applications SKILL BASED ELECTIVE

Semester III

		5						ILS	Marks		
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hou	CIA	External	Total
U23CCE33B	WEB TECHNOLOGY (PHP) and LAB	SBE III	2	-	2	-	3	4	25	75	100

	LEARNING OBJECTIVES
1	To use PHP and MySQL to develop dynamic web sites foruser on the Internet
2	To develop web sites ranging from simple online information forms to complex e-commerce sites with MySQL database, building, connectivity, and maintenance
	COURSE CONTENTS
	(12Hrs) ction Basic development Concepts – Creating first PHP Scripts – Using Variable and Operator g Data in variable – Understanding Data types – Setting and Checking variables Data types
-	Constants – Manipulating Variables with Operators. (12Hrs)
Writing	ling Program Flow Simple Conditional Statements - Writing More Complex Conditional Statements – ng Action with Loops – Working with String and Numeric Functions.
Unit 3	(12Hrs)
Storing I	g with Arrays Data in Arrays – Processing Arrays with Loops and Iterations –Using Arrays with Forms ng with Array Functions – Working with Dates and Times.
Unit 4	(12Hrs)
0	unctions and Classes User-Defined Functions - Creating Classes – Using Advanced OOP Concepts.
Unit Workin Introduc	(12Hrs) g with Database and SQL ing Database and SQL- Using MySQL-Adding and modifying Data-Handling Errors - QLite Extension and PDO Extension. Introduction XML - Simple XML and DOM
Using S Extensio	

COURSE OUTCOMES

At the end of the course students would be able to

CO.No	CO STATEMENT	Knowledge Level
CO1	Understand the general concepts of PHP scripting language for the development of Internet websites.	K2
CO2	Understand the basic functions of MySQL database program and XML concepts	K2
CO3	Learn the relationship between the client side and the server side scripts.	K2

Books	Books for Study							
1.	VikramVaswani, "PHP A Beginner's Guide", Tata McGraw Hill 2008.							
Books for References								
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 Text books May be Used							
Web R	eferences							
1.	https://www.w3schools.com/php/							
2.	https://www.phptpoint.com/php-tutorial-pdf/							
3.	http://www.xmlsoftware.com/							

Mapping With Programme Outcomes and

Programme	Specific	Outcomes
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	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	3	2	3	2	2	3	2	2
CO2	3	2	3	3	3	2	2	2	3	2	2
CO3	3	2	3	3	3	2	2	2	3	2	2
CO4	3	2	3	3	2	2	2	2	3	2	2
CO5	3	2	3	3	3	2	2	2	3	2	2

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.

CO Statement: (for students: To know what they are going to learn)

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

List of Lab Programs

- 1. Write a PHP program which adds up columns and rows of given table
- 2. Write a PHP program to compute the sum of first n given prime numbers
- 3. Write a PHP program to find valid an email address
- 4. Write a PHP program to convert a number written in words to digit.
- 5. Write a PHP script to delay the program execution for the given number of seconds.
- 6. Write a PHP script, which changes the colour of the first character of a word
- 7. Write a PHP program to find multiplication table of a number.
- 8. Write a PHP program to calculate Factorial of a number.

9. Write a PHP code to create a student mark sheet table. Insert, delete and modify records.

10. From a XML document (email.xml), write a program to retrieve and print all the emailaddresses from the document using XML

11. From a XML document (tree.xml), suggest three different ways to retrieve the text value'John' using the DOM:

12. Write a program that connects to a MySQL database and retrieves the contents of any one of its tables as an XML file. Use the DOM.

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

B.COM, Computer Applications

Second Year

SKILL ENHANCEMENT COURSE

Semester III

								S	Marks		
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCS33	BUSINESS PLAN PREPARATION	SEC-III	2	-	-	-	1	2	25	75	100

LEARNING OBJECTIVES								
1.	To know about the business ideas							
2.	To identify the short, medium and long term goals							
3.	To create awareness about investment							
4.	Students will gained knowledge about the plant layout							
5.	Students will acquire knowledge about income expenditure statement.							

Unit 1: Generation of Business Idea (**6Hrs**) Business Ideas: Existing business, new business - Name of the company - Logo Creation -Slogan - Product Identification and Diversification - Prepare Three Plans - manufacturing and Service Sectors. **Unit2:Vision-Mission Statement** (6Hrs) Vision - Mission Statement of the business- Objectives - Short Term- Medium Term - Long Term goals. Unit3:InvestmentAvenues (6Hrs) Investment - Raising Funds - Capital Formation - Budget Preparation **Unit 4: Plant Layout** (6Hrs) Prepare Plant Layout - Two dimension and Three Dimension (Display) - Packaging -Labelling the Product – Pricing. **Unit 5: Promotion Policy** (6**H**rs) Income Expenditures Statement - Advertisement - Pamphlet Preparation - SWOT of your own business

Note: Question Paper shall cover 100% Theory.

BCOM (CA) MTWU SYLLABUS 2024 COURSE OUTCOMES

At the end of the course students would be able to

CO	CO Statement	Knowledge		
		Level		
1	Demonstrate the understanding of the business ideas	К3		
2	Assess the vision and mission of the company	K2		
3	To create budget preparation	K6		
4	Ability to prepare plant layout	К3		
5	Evaluate SWOT analysis	K5		

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Books for Study

Fundamentals of business organisation- Y.K.Bhushan, Sultan chand

Books for Reference

Modern markeging priciples and practices- R.S.N. Pillai & Bhagavathi , S.Chand

NOTE: Latest Edition of Text books May be Used

Web References

1.https://www.bigcommerce.com/articles/ecommerce/how-to-name-a-business/

2.https://sproutsocial.com/insights/how-to-design-a-logo/

3.https://clockify.me/blog/managing-tasks/short-term-planning-and-long-term-planning/

4.https://www.sec.gov/news/speech/2012-spch120312laahtm

5.https://www.visualcomponents.com/resources/blog/how-to-plan-design-a-manufacturing-plant-layout-video-examples-included/

6.https://www.semrush.com/blog/swot-analysis-examples/

7.https://online.hbs.edu/blog/post/how-to-prepare-an-income-statement

Mapping With Programme Outcomes and Programme Specific Outcomes

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

BCOM (CA) MTWU SYLLABUS 2024											
CO3	3	3	2	2	3	2	2	2	3	2	2
CO4	3	3	2	2	2	2	2	2	3	2	2
CO5	3	3	2	2	3	2	2	2	3	2	2

B.COM, Computer Applications

Second Year

SKILL ENHANCEMENT COURSE

Semester III

								S		Marl	ζS
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCNM32	NAAN MUDHALVAN		2	-	-	-	2	2	25	75	100

SEMESTER IV

B.COM ,Computer Applications Core -VII

Semester IV

Second Year

									S		Mark	S	
Course Code		Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total	
U23CCT407		CORPORATE ACCOUNTING II	CORE VII	4	-	-	-	5	5	25	75	100	
		LEARNING (OBJECTIVES										
	1.Tc	how the types of amalga	mation										
	2.To	gain an understanding abo	out reconstructi	ion									
3.To know Final statements o			banking comp	anies									
	4.To understand the legal requirements of financialaccounts												
	5.To	have an insight on modes	5.To have an insight on modes of winding up of acompany										

COURSE CONTENTS

Unit 1: Amalgamation, Absorption & External Reconstruction

Amalgamation, Absorption and External Reconstruction - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method - Types of Amalgamation (Excluding Inter-Company Holdings).

Unit 2: Alteration of Share Capital – & Internal Reconstruction

Alteration of Share Capital – Modes of Alteration - Internal Reconstruction – Conversion of Stock – Increase and Decrease of Capital – Reserve Liability.

Unit 3: 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.

Unit 4: Consolidated Financial Statements

Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Presentation of Accounts -Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).

Unit 5: Liquidation of Companies

Meaning-Modes of Winding Up – Preparation of Statement of Affairs and Deficiency Accounts - Order of Payment – Liquidators Remuneration- Liquidator's Final Statement of Accounts.

(15Hrs)

(15Hrs)

(15Hrs)

(15Hrs)

(15Hrs)

Note: Question Paper shall cover 20% Theory & 80% Problems

COURSE OUTCOMES

CO. NO	CO Statement	Knowledge Level
1	Understand the accounting treatment of amalgamation, absorption and external reconstruction	K2
2	Apply and alter the share capital and internal reconstruction	K3
3	Do the accounting procedure of non-performing assets	K4
4	Give the consolidated accounts of holding companies	K5
5	Prepare liquidator's final statements	K6
K1 -	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	Create

Books	for Study					
1.	S.P. Jain and K.L Narang. Advanced Accountancy, Kalyani Publishers, New Delhi.					
2.	Dr. K.S .Raman and Dr. M.A. Arulanandam , Advanced Accountancy, Vol. II,					
	Himalaya Publishing House, Mumbai.					
3.	R.L. Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, New Delhi.					
4.	M.C. 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					
Books	for References					
1.	B.Raman, Corporate Accounting, Taxmann, New Delhi					
2.	M.C.Shukla, Advanced Accounting, S.Chand, New Delhi					
3.	Prof. Mukesh Bramhbutt, Devi Ahilya publication, Madhya Pradesh					
4.	Anil kumar, Rajesh kumar, Advanced Corporate Accounting, Himalaya Publishing					
	house, Mumbai.					
5.	Prasanth Athma, Corporate Accounting, Himalaya Publishing house, Mumbai.					
NOTE	: Latest Edition of Text books May be Used					
Web R	eferences					
1.	https://www.accountingnotes.net/amalgamation/amalgamation-absorption-and-					
	reconstruction-accounting/126					
2.	. https://www.slideshare.net/debchat123/accounts-of-banking-companies					
3.	https://www.accountingnotes.net/liquidation/liquidation-of-companies-accounting/12862					

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	2	2	3	3	2	3	2	2	3	2	2
CO2	2	2	3	3	3	2	2	2	3	2	2
CO3	2	2	3	3	3	2	2	2	3	2	2
CO4	2	2	3	3	2	2	2	2	3	2	2
CO5	2	2	3	3	3	2	2	2	3	2	2

Mapping With Programme Outcomes and Programme Specific Outcomes

B.COM, Computer Applications Second Year **CORE PAPER -VIII** Semester IV Marks Inst. Hours Category Credits External **Course Code** Т Р 0 **Title of the Course** L CIA 5 5 25 75 4 100 ---**PRINCIPLES OF** COREVIII **U23CCT408** MARKETING **LEARNING OBJECTIVES** 1.To know the concept and functions of marketing 2.To understand the importance of market segmentation 3.To examine the stages of new product development 4.To gain knowledge on the various advertising medias

BECOMI (CAA) MITWUSSY LABBISS20224

COURSE CONTENTS

5.To analyse the global market environment

Unit 1: Introduction to Marketing

Meaning-Definition and Functions of Marketing- Evolution of Marketing Concepts- Marketing Orientation-Innovations in Modern Marketing. Marketing Management: Definitions-Functions - Role and Importance of Marketing - Classification of Markets - Niche Marketing - Characteristics of Niche Marketing - Local Marketing - Green Marketing.

Unit 2: Market Segmentation

Concept – Benefits – Types– Geographic – Demographic – Psychographic – Behavioural - Marketing Mix – Definition – 4 P's of Marketing Mix - Introduction to Consumer Behaviour –Purchase Decision – Post Purchase Behaviour - Consumer Buying Decision Process - Motives & Needs, Freud's Theory of Motivation.

Unit 3: Product & Price

Definition - Product Mix - Introduction to Stages of New Product Development - Product Life Cycle - Sales Forecasting – Methods – Criteria for a Good Forecasting – Pricing–Objectives – Factors Influencing Pricing - Kinds of Pricing - Resale Price Maintenance.

Unit 4: Promotions and Distributions

Communication Mix - Communication Process -Advertising-Media-Kinds of-Advertising Media- Sales Promotion - Personal Selling-Classification of Salesmanship - Channel Members-Types-Channel of Distribution for Consumer Goods – Channels of Distribution for Industrial Goods.

(15Hrs)

(15Hrs)

55

(15Hrs)

(15Hrs)

Total

Unit 5: Competitive Analysis and Strategies WU SYLLABUS 2024

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(15Hrs)
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Balancing Customer and Competitor Orientations–Global Market Environment–Social Responsibility and Marketing Ethics, Citizen and Publications to Regulate Marketing –Recent Trends in Marketing– A Basic Understanding of E–Marketing–E-Tailing–Consumerism– Market Research–MIS and Marketing Regulation.

Note: Question Paper shall cover 100% Theory

COURSE OUTCOME

At the end of the course students would be able to

CO. NO	CO Statement	Knowledge Level
1	Develop an understanding on the role and importance of marketing	K6
2	Apply the 4 p's of marketing in their venture	K3
3	Identify the factors determining pricing	K1
4	Use the different Channels of distribution of industrial goods	K2
5	Understand the concept of E-marketing and E-Tailing	K2
Book	s for Study	
	nilip Kotler, Principles of Marketing: A South AsianPerspective, Pearso Education. New Delhi	n
	r.C.B.Gupta&Dr. N. Rajan Nair, Marketing Management, Sultan Chand Sons, New Delhi.	l
3.I	Dr. Amit Kumar, Principles Of Marketing,Shashibhawan Publishing House, Chennai	
4.D	r. N. Rajan Nair, Marketing, Sultan Chand & Sons. New Delhi	
5.N	eeru Kapoor Principles Of Marketing, PHI Learning, NewDelhi	
K1 - F Create	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalue	ate; K6 –

Books for Reference

1.Prof Kavita Sharma, Dr Swati Agarwal, Principles of MarketingBook, Taxmann, new delhi

2.Dr. J. Jayasankar, Marketing Management, MarghamPublications, SChennai.

3.Assael, H. Consumer Behaviour and Marketing Action, USA: PWS Kent

4.Hoyer, W.D. And Macinnis, D.J., Consumer Behaviour, USA:Houghton Mifflin Company

5.Baker M,Marketing Management And Strategy, MacmillanBusiness, Bloombury Publishing, India

NOTE: Latest Edition of Text books May be Used

Web References

1. https://www.aha.io/roadmapping/guide/marketing/introduction

 $2. \quad https://www.investopedia.com/terms/m/marketsegmentation.asp$

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	2	3	3	3	2	3	2	2
CO2	2	2	3	2	3	3	3	2	3	2	2
CO3	2	2	3	2	3	3	3	2	3	2	2
CO4	2	2	2	3	3	3	2	2	3	2	2
CO5	2	2	3	3	3	3	2	2	3	2	2

Mapping With	Drogrommo	Outcomes and	Drogrommo	Specific	Autoomog
wapping with	1 rogramme	Outcomes and	1 rogramme	specific	Outcomes

Second Year

B.COM ,Computer Applications SUBJECT BASED ELECTIVE IV

Semester IV

								S		Marks	5
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCE44A	RELATIONAL DATABASE MANAGEMENT SYSTEM	SBE IV	4	-	-	-	3	4	25	75	100

LEARNING OBJECTIVES

1.To gain a good understanding of the architecture and functioning of Database Management Systems

2.To understand the use of Structured Query Language (SQL) and its syntax.

3.To apply Normalization techniques to normalize a database.

4To understand the need of transaction processing and learn techniques for controlling the consequences of concurrent data access.

COURSE CONTENTS

Unit 1: Introduction

Introduction to DBMS- Data and Information - Database - Database Management System - Objectives- Advantages - Components - Architecture. ER Model: Building blocks of ER Diagram

Unit 2:Relationship Degree

Relationship Degree – Classification – ER diagram to Tables – ISA relationship –constraints Aggregation and Composition – Advantages Structure of Relational Database. Introduction to Relational Database Design - Objectives – Tools –Redundancy and Data Anomaly

Unit 3: Functional Dependency

Functional Dependency - Normalization – 1NF – 2NF – 3NF –BCNF. Transaction Processing – Database Security.

Unit 4:SQL

Introduction to SQL: Data Definition Commands – Data Manipulation Commands – SELECT Queries – Additional Data Definition Commands – Additional SELECT Query Keywords – Joining Database Tables. Advanced SQL: Relational SET Operators: UNION – UNION ALL – INTERSECT - MINUS.

Unit 5: SQL Join Operators

SQL Join Operators: Cross Join – Natural Join – Join USING Clause – JOIN ON Clause – Outer Join. Sub Queries and Correlated Queries: WHERE – IN – HAVING – ANY and ALL – FROM. SQL Functions: Date and Time Function – Numeric Function – String Function – Conversion Function

(12Hrs)

(12Hrs)

(12Hrs)

(12Hrs)

(12Hrs)

58

Note: Question Paper shall cover 100% Theory

COURSE OUTCOMES

At the end of the course students would be able to

CO	CO Statement	Knowledge Level
CO1	Describe basic concepts of database system	К1
CO2	Design a Data model and Schemas in RDBMS	K2
CO3	Competent in use of SQL	K2
CO4	Analyse functional dependencies for designing robust Database	K4

Books for Study

1. S. Sumathi, S. Esakkirajan, "Fundamentals of Relational DatabaseManagement System", Springer International Edition 2007.

Books for Reference

- 1. Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "DatabaseSystem Concepts", McGrawHill2019, 7th Edition.
- 2. Alexis Leon & Mathews Leon, "Fundamentals of DBMS", VijayNicole Publications 2014, 2ndEdition.

NOTE: Latest Edition of Text books May be Used

Web References

- 1. <u>https://nptel.ac.in/courses/106106093/</u>
- 2. https://nptel.ac.in/courses/106106095/
 - 3. NPTEL & MOOC courses titled Relational DatabaseManagement Systems

Mapping With Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	3	3	3	3	3	3	2	3	2	2
CO2	3	3	3	3	3	3	3	2	3	2	2
CO3	3	3	3	3	3	3	3	2	3	2	2
CO4	3	3	3	3	3	3	2	2	3	2	2
CO5	3	3	3	3	3	3	2	2	3	2	2

Second Year		B.COM	I (CA) MTWU SYL ,Computer Aj CT BASED EI	pplication	S				Sem	ester]	IV	
Course Code		Little of the ConceCategoryLLLLCreditsCreditsInst. Hours								Y	Mark lau	
			Cat					Cr	Inst.	CIA	External	Total
U23CCE44B	B INTRODUCTION TO DATA SCIENCE								25	75	100	
	2	LEARNING OBJ To introduce the con and tools in DataScie To understand the va data collection and I predictive modelling communication.	cepts, techniqu ence arious facets of Integration, ex	data scien ploratory	data	anal	ysis,		ng			
Unit 1: In	trodu	ation	COURSE	CONTEN	TS						(12Hı	•a)
		s – Facets of data – D	ata science proc	cess – Big	data	eco	syste	em an	d data	a scier		5)
Overview	Unit 2: The Data science process (12Hrs) Overview – research goals - retrieving data - transformation – Exploratory Data Analysis – Model building - Data Visualization											
Unit 3:Algorithms (12Hrs) Machine learning algorithms – Modelling process – Types – Supervised – Unsupervised - Semi- supervised												
Unit 4: Introduction to Hadoop (12Hrs) Hadoop framework – Spark – replacing MapReduce– NoSQL – ACID – CAP – BASE – types												
	of Dis	udy sease - Setting researcl ad automation	n goals - Data r	etrieval –	prep	arati	on -	explo	oratior	ı - Dis		2Hrs) rofiling

Note: Question Paper shall cover 100% Theory

COURSE OUTCOMES

At the end of the course students would be able to

CO	CO STATEMENT	Knowledge Level
CO1	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication	K1
CO2	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and communication	K1
CO3	To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and Communication	K1
]	Books for Study	•
	1.Davy Cielen, Arno D. B. Meysman, Mohamed Ali, "IntroducingData 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.	
	Books for References	
	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 theLayman: No Math Added", 2015,1st Edition.	
	3.Cathy O'Neil, Rachel Schutt, "Doing Data Science Straight Talkfrom the Frontline", O'Reilly Media 2013.	
	4.Lillian Pierson, "Data Science for Dummies", 2015 II Edition	
	Note : Last Edition of Text Book May be Use	
Web	Refrences	
1.ht	tps://www.jmc.edu/econtent/pg/8262_DATASCIENCE%20WITH%20BIGD ATA.pdf	
2.ht	tps://www.javatpoint.com/types-of-machine-learning	
3.ht	tps://www.geeksforgeeks.org/hadoop-an-introduction/	

4.https://www.slideshare.net/varshakumar21/data-science-chapter456

Mapping With Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	2	2	3	3	3	2	3	2	2
CO2	3	2	2	2	3	3	3	2	1	2	2
CO3	3	2	2	2	3	3	3	2	3	2	2
CO4	3	2	2	1	3	3	2	2	3	2	2
CO5	3	2	2	2	3	3	2	2	3	2	2

B.COM ,Computer Applications SKILL ENHANCEMENT COURSE VI

Semester IV

									s		Marks	
	Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	
υ	23CCS44	COMMERCE PRACTICAL	SEC V	2	-	-	-	2	2	25	75	
	LEARNIN	NG OBJECTIVES		1								
	1.To provide practical knowledge to fill forms like insurance, bank, loan application, membership form, income tax return forms etc.											
	2.To identify the short, medium and long term goals											
	3.To cr	eate awareness about comm	erce subject ir	n practica	ıl							
	4.Studen	ts will gained knowledge in	trasacting wit	h banks a	andi	nsti	tutio	ons				

5.Students will acquire knowledge about filing various documents

COURSE CONTENTS

Unit 1: Preparation of Invoice

Second Year

Preparation of invoice, receipts, vouchers, delivery challan, entry pass, gate pass-debit andcredit notes. Preparation of Application for shares and allotment - letter of shares Allotment - transfer forms.

Unit 2: Preparation of Cheque

Drawing, endorsing and crossing of cheques- filling up of pay in slips demand draft application and preparation of demand drafts. Making entries in the passbook and filling up of account opening forms for SB account, current account and FDR's. Drawing and endorsing of bills of exchange and promissory notes.

Unit 3: Co operative Society

Filling up of application forms for admission in cooperative societies. Filling up of loanapplication forms and deposit challan. Filling up of Jewel loan application form, Procedure for releasing of jewelery in jewel loans and repayment

Unit 4: Preparation of Agenda and Minutes of Meeting

Preparation of agenda and minutes of meetings-both general body and board of directors. (students are asked to write agenda and minutes of their own and should not use printed format)Using Bin card and inventories. .Using Cost Sheets.

(6Hrs)

(6Hrs)

(6Hrs)

(6Hrs)

Unit 5: Application to LIC Policy

(6Hrs)

Filling up of an application form for L1C policy, filling up of the premium form- filling up the challan for remittance of premium. Preparation of an advertisement copy, collection of advertisement in dailies and journals, critically evaluating the advertisement copy. Filling up income -tax returns and application for permanent account number.

Note: Question Paper shall cover 100% Practical

COURSE OUTCOMES

At the end of the course students would be able to

CO.	CO Statement	Knowledge
NO		Level
1	Students can independently start up their own Business	K3
2	Students can get thorough knowledge of finance and commerce. and finance with the practical exposure helps the students to stand in organization in the field of finance and commerce	K2
3	Acquire practical knowledge on writing cheques	K4
4	Acquire the skills required for preparation of agenda and minutes of meeting	K4
5	Demonstration on taking LIC Policy	K3
K1 -]	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; H	K6 – Create

Books for Reference

1.N Chaoudhary " Banking Law "Central Law Publication Dr. O P Gupta "Company Law" SPBD Publishing House

2Hargovind Dayal "Fundamentals of Insurance" 1st Edition, Notion Press

Books for Study

1.Poonam Gandhi " Business Studies" V k Global Publication Pvt Limited

2.N D Kapoor " Company Law and Secretarial Practice" Sulthan Chand and Sons

NOTE: Latest Edition of Text books May be Use

Web	References
1	https://clickup.com/blog/meeting-agenda/
2	https://www.refrens.com/free-online-invoice-generator
3	https://extension.umn.edu/leadership-development/planning-effective-meeting-agenda

BCOM (CA) MTWU SYLLABUS 2024 Mapping With Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	1	2	3	2	3	3	3	2	3	2	2
CO2	3	2	2	3	3	3	3	2	1	2	2
CO3	1	2	3	3	3	2	2	2	3	2	2
CO4	3	2	2	1	3	3	2	2	3	2	2
CO5	3	2	2	2	3	3	2	2	3	2	2

Second Year

B.COM ,Computer Applications SKILL ENHANSEMENT COURSE V

Semester IV

								S		Mark	s
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCNM43	NAAN MUDHALVAN	,	2	-	1	-	2	2	25	75	100

Second Year

B.COM, Computer Applications ENVIRONMENTAL STUDIES

Semester IV

Durse Cod	e	Title of the Course	Category	L	Т	Р	0	Credits	Iou		al		
23CC4EV			C					Cre	Inst. Hours	CIA	External	Total	
	VS	ENVIRONMENTAL STUDIES	EVS	2	-	-	-	2	-	25	75	100	
	LI	EARNING OBJECTIVES	;										
		1.Helps to understand th Environmental policies a 2.Ability to take initiative	and practices	5				t					
		3.Students will develop t							esour	ces			
	4.Student will understand the importance of Environmentmoment												
	5.Better understanding the relevance of Environmentethics												
	COURSE CONTENTS												
Climate	chang	ronmental Policies and P ge, global warming, ozone la and agriculture		, acid rai	n an	d in	npac	cts on	hum		6Hrs)		
		onmental Laws									(6Hrs	·	
		Protection Act; Air (Preven llution) Act; Wildlife (Prot				,			r (Pre	eventi	on and	1	
		an Communities and Envi		orest etc	51130	i vai	.1011	Act.			(6Hrs	5)	
Human	popula	ation growth: Impacts on en	vironment, hur	nan heal	th ar	nd w	elfa	re F	Resett	leme		-)	
		of project affected persons											
Disaster	r mana	ter Management and Env agement: Floods, Earthquak t valley, Bishnois of Rajast	ke, Cyclones a		slide	es. E	Envi	ronm	ental	mov	(6H ement	,	
Unit 5:	Envir	onmental Ethics									-	Hrs)	
	Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness.												
		*	% Theory										
	<u></u>		Note: Question Paper shall cover 100% Theory										

At the end of the course students would be able to

CO.	CO Statement	Knowledge
NO		Level

1	Identifying and understanding the importance of environmental	K2
	protection	
2	Practicing to conserve natural resources	K3
3	Identify the different types of pollution and ways to control them	K3
4	Application of skills to improve natural habitat	K4
5	Improve the status of mind and happiness through nature	K5

Books for Study

1.Bharucha, E. (2015). Textbook of Environmental Studies.

2. Gleeson, B. and Low, N. (eds.) (1999). Global Ethics and Environment,

3.London, Routledge.

Books for Reference

1.Nandini, N., Sunitha N., & Sucharita Tandon. (2019).

2.Environmental Studies (AECC).

3.Rajit Sengupta and Kiran Pandey. (2021). State of India'sEnvironment 2021: In Figures. Centre Science and Environment

NOTE: Latest Edition of Text books May be Use

Web References

- 1.https://gcwgandhinagar.com/econtent/document/15876172160EVSA ECC01_Climate%20change.pdf
- 2. <u>http://eagri.org/eagri50/ENVS302/pdf/lec15.pdf</u>
- 3. <u>https://www.studocu.com/in/document/banaras-hindu-</u> <u>university/environment-and-management/human-population-growth-impacts-</u><u>on-</u> <u>environment-human-health-and-welfare/25698053</u>
- 4. http://www.aagasc.edu.in/Unit%207%20EVS.pdf
- 5.https://gcwgandhinagar.com/econtent/document/15876176100EVSA ECC01_Environmental%20movements.pdf

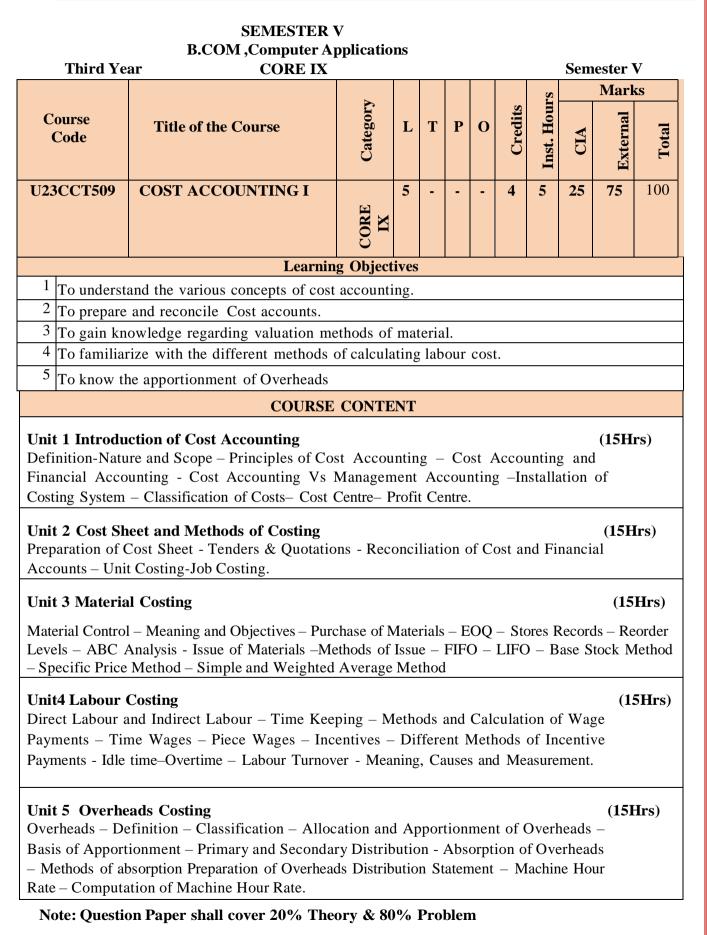
6. https://www.srcc.edu/sites/default/files/Role%20of%20religion%20in%20Enviro nment-Unit%20VII-AECC-EVS-Harvinder%20Singh.pdf

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	2	3	3	1	3	3	3	2	3	2	2
CO2	2	3	2	3	3	3	3	2	2	2	2
CO3	1	2	3	3	3	2	2	2	3	2	2
CO4	3	2	2	3	2	3	2	2	3	2	2
CO5	3	3	2	2	3	3	2	1	3	2	2

Mapping With Programme Outcomes and Programme Specific Outcomes

B.Com. with Computer Applications - Syllabus

2023 ONWARDS



2023 ONWARDS

Course Outcome

At the end of the course students would be able to

CO No	CO Statement	Knowledge Level
1	Remember and recall the various concepts of cost accounting	K1
2	Demonstrate the preparation and reconciliation of cost sheet.	K2
3	Analyse the various valuation methods of issue of materials.	K4
4	Examine the different methods of calculating labour cost.	К3
5	Critically evaluate the apportionment of Overheads.	K5
K1 - F	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	6 – Create

Books	s for Study
1	Jain S.P. and Narang K.L, Cost Accounting. Kalyani Publishers, New Delhi
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S. Chand & Co, New Delhi,
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand Publications, New Delhi
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications, Chennai
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi
NOT	E: Latest Edition of Text books May be Used
Book	s for Reference
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision Making, 1991, McGraw–Hill, New York.
2	Jain S.P. and Narang K.L. Cost Accounting, Latest Edition.2013, Kalyani Publishers, New Delhi,
3	V.K.Saxena and C.D.Vashist, Cost Accounting, Sultan Chand publications, New Delhi
4	Murthy A &Gurusamy S,Cost Accounting,Vijay Nicole Imprints Pvt. Ltd. Chennai
5	Prasad.N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Kolkata

NOTE: Latest Edition of Text books May be Used Web References

1. https://study.com/learn/lesson/cost-accounting-principles-examples-what-is-cost-accounting.html

2.https://www.accountingtools.com/articles/what-is-material-costing.html

3.https://www.freshbooks.com/hub/accounting/overhead-cost

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	2	3	3	1	3	3	3	2	3	2	2
CO2	2	3	1	2	2	2	3	2	2	3	2
CO3	1	2	3	3	3	2	2	2	3	2	2
CO4	3	2	2	3	2	3	2	2	3	2	2
CO5	3	3	3	3	3	3	3	3	3	3	3

Mapping with Programme Outcomes And Programme Specific Outcomes

2023 **ONWARDS**

Third	B.COM ,Computer Applications Third Year Core X											
Course		ĥ					s	urs		Marks		
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Ho	CIA	External	Total	
U23CCT510	BANKING LAW AND PRACTICE	CORE X	5	-	-	-	4	5	25	75	100	

	Learning Objectives
1	To help the students understand various provision of Banking Regulation Act 1949
2	To trace the evolution of central bank concept and prevalent central banking system
3	To throw light on operations of Banks
4	To understand how Commercial Banks operates
5	To explore practical banking

COURSE CONTENT

Unit1:Introduction to Banking

(15Hrs) History of Banking- Provisions of Banking Regulations Act 1949 - Components of Indian Banking - Indian Banking System-Phases of Development - Banking Structure in India - Payment Banks and Small Banks - Commercial Banking: Definition - Classification of Banks. Banking System -Universal Banking - Commercial Banking functions - Role of Banks in Economic Development. Central Banking: Definition -Need - Principles- Central Banking Vs Commercial Banking -Functions of Central Bank.

Unit2:RBI

Establishment - objective - Legal framework - Functions - SBI - Origin and History -Establishment Indian subsidiaries - Foreign subsidiaries -Non-Banking-Subsidiaries-Personal banking International banking-Trade Financing-Correspondent banking - Co-operative banks-Meaning and definition- Features-Co-operative banks vs Commercial banks-Structure.-NBFC-Role of NBFCRBI Regulations- Financial sector reforms-Sukhmoy committee 1985-Narasimham committee I and II

Unit3:BankAccount

Opening – Types of Accounts-FDR-Steps in opening Account-Saving vs Current Account-'Donatio Mortis Causa'-Passbook-Bank Customer Relationship-Special Types of currents -KYC norms.

(15Hrs)

(15Hrs)

B.Com. with Computer Applications - Syllabus

2023 **ONWARDS**

Bank Lending –Lending Sources-Bank Lending Principles-Forms of lending-Loan evaluation process- securities of lending-Factors influencing bank lending - Negotiable Instruments - Meaning Characteristics-Types. Crossing –Definition –Objectives-Crossing and negotiability-Consequences of Crossing.

Unit4:Endorsement

Meaning-Components-Kinds of Endorsements-Cheques payable to fictitious person Endorsement by legal representative -Negotiation bank-effect of endorsement-Rules regarding Endorsement -Paying banker-Banker's duty-Dishonoring of Cheques-Discharge of paying banks Payments of a crossed cheque payment. Collecting bankers-Statutory protection under section85 - Refusal of cheques Payment. Collecting Banker-Statutory protection under section 131-Collecting bankers' duty.

Unit5:E-Banking

Meaning-Services-e-banking and financial services- Initiatives-Opportunities-Internet banking Meaning-Internet banking Vs Traditional Banking-Services-Drawbacks-Frauds in Internet banking. Mobile banking-Anywhere Banking-Any Time Banking- Electronic Mobile Wallets. ATM Evolution-Concept-Features - Types-. Electronic money-Meaning-Categories-Merits of emoney - National Electronic Funds Transfer (NEFT) Real Time Gross Settlement (RTGS) Difference between NEFT & RTGS- Meaning- Steps-Benefits-Monetary policies- final sector reforms- Chakravarthy committee 1985- Narasimham Committee I &II Prudential norms capital adequacy norms- classification of assets & provisions.

Note: Question Paper shall cover 100% Theory

Course Outcome

At th	e end of the course students would be able to	
CO	CO Statement	Knowledg
No		e Level
CO1	Aware of various provision of Banking Regulation Act 1949 applicable to	K1
	banking companies including cooperative banks	
CO2	Analyse the evolution of Central Banking concept and prevalent Central	K4
	Banking system in India and their roles and function	
CO3	Gain knowledge about the Central Bank in India, its formation,	K2
	nationalizing its organization structure, role of bank to government	
CO4	Evaluate the role of capital fund of commercial banks, objectives and	K5
	process of Asset Securitization etc	
CO5	Define the practical banking systems relationship of bankers and	K4
	customers, crossing of cheques, endorsement etc.	
K1 - F	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	– Create

(15Hrs)

(15Hrs)

B.Com. with Computer Applications - Syllabus

Book	s for Study
1	Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publication, Chennai
2	Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall India Learning
	Private Ltd, New Delhi
3	Gupta P.K. Gordon E.Banking and Insurance, Himalaya publication, Kolkata
4	Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication, Delhi
5	K P Kandasami, S Natarajan & Parameswaran, Banking Law and Practice, S Chand publication, New Delhi
NO	TE: Latest Edition of Text books May be Used
Book	s for Reference
1	B. Santhanam, Banking & Financial System, Margam Publication, Chennai
2	Katait Sanjay, Banking Theory and Practice, Lambert Academic Publishing,
3	Henry Dunning Macleod, The Theory And Practice Of Banking, Hard Press Publishing, Old New Zealand
4	William Amasa Scott, Money And Banking: An Introduction To The Study Of Modern Currencies, Kesinger publication, USA
5	Nektarios Michail, Money, Credit, and Crises: Understanding the Modern Banking System, Palgrave Macmillan, London
NO	TE: Latest Edition of Text books May be Used
We	b References
1. ht	tps://www.rbi.org.in/
2. ł	https://businessjargons.com/e-banking.html
3. 1	https://www.wallstreetmojo.com/endorsement/

Mapping with Programme Outcomes And Programme-Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	3	3	3	1	3	3	2	3	2	2
CO2	3	3	3	2	2	2	3	2	2	3	2
CO3	3	2	3	3	3	2	2	2	3	2	1
CO4	3	2	2	3	2	3	2	2	3	2	2
CO5	3	3	3	3	1	3	3	3	3	3	3

3 – Strong, 2- Medium, 1- Low

B.COM, Computer Applications

Third Year

CORE XI

Semester V

										S		Marl	KS		
	ırse ode	Title o	f the Course	Category		Т	Р	0	Credits	Inst. Hours	CIA	External	Tatal		
U23(CCT511	INCOME PRACTION	CTAX LAW AND CE I	CORE XI	5	-	-	-	4	5	25	75 100			
			Learnin	g Objecti	ves										
1	To under	stand the ba	sic concepts & definit	ions under	r the	Inc	ome	Taz	x Act	,1961					
2	To comp	ute the resid	ential status of an asse	essee and t	the i	ncid	ence	e of	tax.						
3	To comp	ute income	under the head salaries												
		the concepts use property	s of Annual value, ass	ociated de	duct	ions	and	l the	calc	ulatio	on of i	income	e		
	COURSE CONTENT														
	Introduction to Income Tax – History – Objectives of Taxation - Features of Income Tax – Meaning of Income – Types – Important Definitions Under the Income Tax Act – Assessee – Types– Incomes Exempted under Section 10. UNIT 2: Residential Status (15Hrs) 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. UNIT 3: Income from Salary (15Hrs)														
UN Res Add and UN Cor	idential S litional Co Incidenc IT 3: Inc nputation	idential St tatus – Rest onditions – e of Tax. ome from S of Salary I	atus dential Status of an Ir Incidence of Tax and Salary ncome – Features of 3	Residenti Salary – A	al S	tatus wanc	s = 1	Prob – Ty	plems	on F	Reside	ndition ential S (15 nces -	s – Statu Hrs		
UN Res Add and UN Cor Perc	idential S litional Co Incidenc IT 3: Inc nputation quisites –	sidential St tatus – Rest onditions – e of Tax. ome from of Salary I Kinds of P	atus dential Status of an Ir Incidence of Tax and Salary ncome – Features of F erquisites – Types of F	Residenti Salary – A Provident 1	al S Allov Func	tatus wanc 1 - C	s = 1	Prob – Ty	plems	on F	Reside	ndition ential S (15 nces -	is – Statu Hrs		
UN Res Add and UN Cor Perc of P	idential S litional Co Incidenc IT 3: Inc nputation quisites – ension –	idential St tatus – Rest onditions – e of Tax. ome from S of Salary I Kinds of P Deduction	atus dential Status of an Ir Incidence of Tax and Salary ncome – Features of F erquisites –Types of F of Salary - Profits in I	Residenti Salary – A Provident 1	al S Allov Func	tatus wanc 1 - C	s = 1	Prob – Ty	plems	on F	Reside	(15 nces - ommut	is – Statu Hrs ation		
UN Ress Add and UN Cor Perc of P	idential S litional Co Incidenc IT 3: Inc nputation quisites – ension – IT 4: Inc	idential St tatus – Resi onditions – e of Tax. ome from S of Salary I Kinds of P Deduction	atus dential Status of an Ir Incidence of Tax and Salary ncome – Features of F erquisites – Types of F	Residenti Salary – A Provident L Lieu of Sa	al S Allov Func lary	tatus wano 1 - C	s – 1 ces - Grati	Prob – Ty uity	vpes o – Pe	on F of Al nsion	Reside	(15 nces - commut	is – Statu Hrs ation		
UN Resi Add and UN Cor Perc of P UN Inco Anr	idential S litional Co Incidenc IT 3: Inc nputation quisites – ension – IT 4: Inc ome from nual Valu	sidential St tatus – Rest onditions – e of Tax. ome from S of Salary I Kinds of P Deduction Ome from S House Prop e of Let-out	atus dential Status of an Ir Incidence of Tax and Salary ncome – Features of F erquisites –Types of F of Salary - Profits in I House Property perty –Basis of Charg Property, Self– Occu	Residenti Salary – A Provident L Lieu of Sa e – Annua spied Prop	al S Allov Func lary al Va	wano d - C	s –] ces - Gratu –Gi	Prob – Ty uity ross	vpes o – Pe Ann	on F of Al nsion ual V	Reside	ndition ential S (15 nces - commut (15H Net	s – Statu Hrs atio Hrs)		
UN Resi Add and UN Con Perc of P UN Inco Anr UN Inco Ded Inco Cer	idential S litional Co Incidenc IT 3: Inc nputation quisites – ension – IT 4: Inc ome from nual Valu IT 5: Pro ome from luctions – omes – In tain Perso	sidential St tatus – Rest onditions – e of Tax. ome from S of Salary I Kinds of P Deduction Deduction House Proj e of Let-out fits and G Business of Provisions vestments – ons – Specia	atus dential Status of an Ir Incidence of Tax and Salary ncome – Features of F erquisites –Types of F of Salary - Profits in I House Property perty –Basis of Charg	Residenti Salary – A Provident I Lieu of Sa e – Annua pied Prop r Professi ble Expen tion – De nance of E	Allow Function Allow Function All Va berty ion Isses eemee Book	wand 1 - 0 alue $ A_1$ $- N_1$ $d B_1$ $d S_2$	-Gi -Gi men ot A usin	- Ty uity ross ities	Ann Ann Dec vable Profi	on F of Al nsion ual V duction Expo ts - U Audi	Reside lowan a – Co falue, ons.	(15) (15) (15) (15) (15) (15) (15) (15)	s – Statu Hrs atio Hrs) Hrs		

COURSE OUTCOMES

At the end of the course students would be able to

CO	CO Statement	Knowledge
No		Level
CO1	Demonstrate the understanding of the basic concepts and definitions under the Income Tax Act.	K2
CO2	Assess the residential status of an assessee & the incidence of tax.	К3
CO3	Compute income of an individual under the head salaries.	K4
CO4	Ability to compute income from house property.	K1
CO5	Evaluate income from a business carried on or from the practice of a Profession.	K5
K1 - F	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	6 – Create

Book	s for Study
1	.P. Gaur, Narang, Puja Gaur and Rajeev Puri - Income Tax Law and Practice, Kalyani
	Publishers, New Delhi.
2	V 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.
NO	FE: Latest Edition of Text books May be Used
Books	for Reference
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.
NOT	E: Latest Edition of Text books May be Used

Web]	Web References									
1	https://cleartax.in/s/residential-status/									
2	https://www.legalraasta.com/itr/income-from-salary/									
3	https://taxguru.in/income-tax/income-house-properties.html									

Mapping with Programme Outcomes and Programme-Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	3	3	3	3	2	3	2	3	2	2
CO2	3	3	2	2	2	2	3	2	2	3	2
CO3	1	2	2	3	3	2	2	2	3	2	1
CO4	2	2	2	3	2	3	2	2	3	2	2
CO5	3	3	3	3	1	3	3	3	3	3	3

B.Com. with Computer Applications - Syllabus

Third Year

B.COM ,Computer Applications CORE XII

Semester V

		Category	L	Т				Ň	Marks		
Course Code	Title of the Course				Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCT512	PROJECT WITH VIVA	CORE	5	-	-	-	4	-	25	75	100

B.Com. with Computer Applications - Syllabus

2023 ONWARDS

B.COM, Computer Applications **DISCIPLINE SPECIFIC ELECIVE -V** Third Year Semester V Marks Inst. Hours Category Credits Course **Title of the Course** L Т Р 0 External Code Total CIA 3 3 3 25 75 100 U23CCE55A **FINANCIALMANAGEMENT** \triangleright DSE **Learning Objectives** 1 To introduce the concept of financial management. 2 To learn the capital structure theories. 3 To gain knowledge about techniques in capital budgeting 4 To learn about dividend payment models. 5 To understand the needs and calculation of working capital in an organization.

COURSE CONTENT

Unit1:Introduction Meaning and Objectives of Financial Management – Functions of Fin

Meaning and Objectives of Financial Management – Functions of Financial Management. Finance - Sources of Financing-Role of Financial Manager in Financial Management- Financial Goals-Profit maximization Vs. Wealth Maximization – Components of Financial Management.

Unit2:Financial Decision

Capital Structure – Definition - Meaning- Theories- Factors determining Capital Structure – Various approaches of Capital structure - Cost of Capital – Meaning - Methods - Cost of Equity

Capital – Cost of Preference Capital – Cost of Debt – Cost of Retained Earnings – Weighted Average (or) Composite Cost of Capital (WACC) Leverage – Concept – Operating and Financial Leverage on EPS.

Unit3:Investment Decision

Capital Budgeting - Meaning - Process – Cash Flow Estimation- Capital Budgeting Appraisal Methods: Traditional Methods - Payback Period – Accounting Rate of Return (ARR). Discounted Cash-flow Methods: Net Present Value (NPV) – Net Terminal Value - Internal Rate of Return – Profitability Index

Unit4:Dividend Decision

Meaning – Dividend Policies – Factors Affecting Dividend Payment – Provisions on Dividend Payment in Company Law – Dividend Models - Walter's Model - Gordon's Model – M&M Model.

(9Hrs)

(9Hrs)

(9Hrs)

(9Hrs)

Unit5:Working Capital Decision

(9Hrs)

Working Capital - Meaning and Importance – Factors Influencing Working Capital – Determining -Working Capital Operating Cycle - Management of Current Assets: Inventories, Accounts Receivables and Cash.

Note: Question Paper shall cover 40% Theory & 60% Problems COURSE OUTCOMES

CC No		Knowledge Level
1	Recall the concepts in financial management.	K1
2	Apply the various capital structure theories.	K3
3	Apply capital budgeting techniques to evaluate investment proposals.	К3
4	Determine dividend pay-outs.	K2
5	Estimate the working capital of an organization.	K5
K1 -	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	6 – Create
Book	s for Study	
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, N	loida.
3	I.M. Pandey, Financial Management, Vikas Publications, Noida.	
4	Dr.S.N. Maheshwari, Elements of Financial Management, Sultan Chand & S Delhi.	ons, New
5	Dr.Kulkarni and Dr. Sathya Prasad, Financial Management, Himalaya Publis Mumbai.	hing House,
NO	FE: Latest Edition of Text books May be Used	
ooks	for Reference	
1	Prasana Chandra, Financial Management, Tata McGraw Hill, NewDelhi.	
2	IM. 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 Text books May be Used

Web R	leferences
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

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	1	3	3	3	2	3	2	3	2	2
CO2	3	3	2	2	2	2	3	2	2	3	2
CO3	3	2	2	3	3	2	2	2	3	2	3
CO4	3	2	2	3	2	3	2	2	3	2	2
CO5	3	3	3	3	3	3	3	3	3	3	3

B.Com. with Computer Applications - Syllabus

2023 **ONWARDS**

B.COM, Computer Applications **DISCIPLINE SPECIFIC ELECIVE -V**

Semester '	V
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			y					70	ILS		Mark	KS
	ourse ode	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U230	CCE55B	INDIRECT TAXATION	DSE V	3	-	-	-	3	3	25	75	100
		Learning	Objecti	ves								
1	To get intro	oduced to indirect taxes										
2	To have an	overview of Indirect taxes										
3	To be famil	iar the CGST and IGST Act										
4	To learn pro	ocedures under GST										
5	To gain kno	owledge about Customs Duty.										

COURSE CONTENT

Unit 1: Introduction to Indirect Tax

Third Year

Concept and Features of Indirect Taxes - Difference between Direct and Indirect Taxes - Special Feature of Indirect Tax Levies - Contribution to Government Revenues - Role of Indirect Taxation -Merits and Demerits of Indirect Taxation – Reforms in Indirect Taxation.

Unit 2: An Overview of Goods & Service Tax (GST)

Introduction of Goods and Service Tax in India-History of GST in India -Constitutional Amendment under Pre-Goods and Service Tax Regime and Transitional Provisions - Goods and Service Tax: Concepts, Meaning, Significance, Dual GST, Features and Benefits. GST Common Portal – Taxes and Duties not Subsumed in GST - Rates of GST in India.

Unit 3: CGST ACT 2017 & IGST Act

Supply – Meaning – Classification – Time of Supply – Valuation – Registration – Voluntary – Compulsory - Input Tax Credit - Eligibility - Reversal - Reverse charge Mechanism - E-Way Bill Returns – IGST Act - Export and Import of Goods and Services– Inter State Vs Intra State Supply – Place of Supply. Role of GSTN in Implementation of GST- Anti Profiteering Rules - Doctrine of Unjust Enrichment- Challenges in Implementation of GST

Unit 4: 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 Applicable under GST (Period), Penalty under GST, Various Provisions Regarding E-

(9Hrs)

(9Hrs)

(9Hrs)

(9Hrs)

way Bill in GST, Mechanism of Tax Deducted at Source (TDS) and Tax Collected at Source (TCS), Audit under GST.

Unit 5: Customs Duty 1962

(9Hrs)

Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties – Valuation - Baggage Rules & Exemptions.

Note: Question Paper shall cover 40% Theory & 60% Problems

COURSE OUTCOMES

At the end of the course students would be able to

CO	CO Statement	Knowledge
No		Level
CO1	Acquaintance with Indirect tax laws	K1
CO2	Exposed to the overview of GST.	К3
CO3	Apply provisions of CGST and IGST	К3
CO4	Summarise procedures of GST	K1
CO5	Discuss aspects of Customs Duty in India	K5
K1 - I	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	6 – Create

Books for Study

	•
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	Dr. H.C. Mehrotra & Prof .V.P Agarwal, Goods and Services Tax (GST), Sahitya
	Bhawan Publications, Agra
4	Rajat Mohan, Goods & Services Tax, Bharat Law Publications House, New Delhi
5	CA. Pushpendra Sisodia, Indirect Tax Laws, Bharat Publications, New Delhi.
NOT	TE: Latest Edition of Text books May be Used
	v v
	s for Reference
Books	s for Reference
Books	s for Reference V.S.Datey, All About GST, Taxmann Publications, New Delhi.
Books 1 2	For Reference V.S.Datey, All About GST, Taxmann Publications, New Delhi. T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications, Chennai.
Books 1 2 3 4	 For Reference V.S.Datey, All About GST, Taxmann Publications, New Delhi. T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications, Chennai. Study Material on GST - The Institute of Chartered Accountants of India /The Institute of Cost Accountants of India, Chennai. Guidance material on GST issued by CBIC, Government of India.
Books 1 2 3 4	s for Reference V.S.Datey, All About GST, Taxmann Publications, New Delhi. T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications, Chennai. Study Material on GST - The Institute of Chartered Accountants of India /The Institute of Cost Accountants of India, Chennai.

Web References

1 https://iimskills.com/goods-and-services-tax/#:~:text=GST-

%20an%20acronym%20for%20Goods%20and%20Services%20Tax-

,etc.%2C%20to%20stand%20as%20a%20unified%20tax%20regime.

- 2 https://tax2win.in/guide/gst-procedure
- 3 https://www.cbic.gov.in/htdocs-cbec/customs/cs-act/cs-act-ch9

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	3	3	3	3	2	3	2	3	3	2
CO2	3	3	2	2	2	2	3	2	2	3	2
CO3	3	3	2	3	3	2	2	2	3	3	3
CO4	3	3	2	3	2	3	2	2	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	3

B.COM ,Computer Applications Third Year DISCIPLINE SPECIFIC ELECIVE -VI

Semester V

(9Hrs)

(9Hrs)

(9Hrs)

(9Hrs)

(9Hrs)

Course Code	Title of the Course	Category	L				Credits	Inst. Hours	Marks		
				Т	Р	0			CIA	External	Total
U23CCE56A	SOFTWARE ENGINEERING AND UML LAB	DSE VI	2	-	1	-	3	3	25	75	100

Learning Objectives

To introduce the software development life cycles

To introduce concepts related to structured and objected oriented analysis & design co

To provide an insight into UML and software testing techniques

COURSE CONTENT

Unit 1: Introduction

Introduction – Evolution – Software Development projects – Emergence of Software Engineering. Software Life cycle models – Waterfall model – Rapid Application Development – Agile Model – Spiral Model

Unit 2: Requirement Analysis

Requirement Analysis and Specification – Gathering and Analysis – SRS – Formal System Specification

Unit 3: Software Design

Software Design – Overview – Characteristics – Cohesion & Coupling – Layered design – Approaches Function Oriented Design – Structured Analysis – DFD – Structured Design – Detailed design

Unit 4: Object Modeling

Object Modeling using UML – OO concepts – UML – Diagrams – Use case, Class, Interaction, Activity, State Chart – Postscript

Unit 5: Coding & Testing

Coding & Testing – coding – Review – Documentation – Testing – Black-box, White-box, Integration, OO Testing, Smoke testing.

Note: Question Paper shall cover 100% Practical

BCOM MTWU SYLLABUS 2024 ONWARDS

COURSE OUTCOMES

At the end of the course students would be able to

	CO No	CO Statement			
С		The students should be able to specify software requirements, design the software using tools	К3		
С	02	To write test cases using different testing techniques.	K1		

Books for Study

1	Rajib Mall, "Fundamentals of Software Engineering", PHI 2018, 5th Edition.						
2	Roger S. Pressman, "Software Engineering - A Practitioner's Approach", McGraw Hill 2010, 7thEdition.						
NOTE: L	NOTE: Latest Edition of Text books May be Used						

Books for Reference

1 Pankaj Jalote, "An Integrated Approach to Software Engineering", Narosa Publishing House 2011,3rd Edition.

NOTE: Latest Edition of Text books May be Used

	Web Resources					
Γ	1.	NPTEL online course – Software Engineering -				
		https://nptel.ac.in/courses/106105182/				

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	3	3	3	3	2	3	2	3	3	2
CO2	3	3	2	2	2	2	3	2	2	3	2
CO3	3	3	2	3	3	2	2	2	3	3	3
CO4	3	3	2	3	2	3	2	2	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	3

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

BCOM MTWU SYLLABUS 2024 ONWARDS

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 the correctness and soundness of their software through testing tools.

LIST OF PR	LIST OF PRACTICALS						
Using UML tools produce analysis and design models for							
a. Library Ma	nagement System						
b. Automatic	Teller Machine						
c. Student Inf	ormation Management						
d. Matrimony	Service						
e. Stock Man	agement System						
Extended	Questions related to the above topics, from various competitive examinations UPSC /						
Professional	TRB / NET / UGC –						
Component	CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)						
Skills	Knowledge, Problem Solving, Analytical ability, Professional Competency,						
acquired	Professional Communication and Transferrable Skill						
from the							
Course							
•							
Extended	Questions related to the above topics, from various competitive examinations						
Professio	UPSC / TRB / NET / UGC –						

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

B.COM ,Computer Applications DISCIPLINE SPECIFIC ELECIVE -VI

Semester V

								70	Marks		
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCE56B	OBJECT ORIENTED ANALYSIS AND DESIGN AND UML LAB	DSE VI	2	-	1	-	3	3	25	75	100

Learning Objectives								
1	To make aware of the software requirements, design the software using tools							
2	To be acquainted with the writing of test cases using different testing techniques.							

COURSE CONTENTS

Unit 1: Object Orientation

Third Year

Object Orientation – System development – Review of objects - inheritance – Object relationship – Dynamic binding – OOSD life cycle – Process – Analysis – Design – prototyping – Implementation – Testing- Overview of Methodologies

Unit2:Methodology

(9Hrs)

Rambaugh methodology, OMT – Booch methodology, Jacobson methodology – patterns – Unified approach – UML – Class diagram – Dynamic modelling.

Unit 3: UML

Introduction - UML – Meta model - Analysis and design - more information. Outline Development Process: Overview of the process-Inception - Elaboration-construction- refactoring patterns transmission-iterative development -use cases.

Unit 4: OO Design

OO Design axioms – Class visibility – refining attributes – Methods – Access layer – OODBMS – Table – class mapping view layer

Unit 5: Interaction diagram

Interaction diagram-package diagram-state diagram-activity diagram-deployment diagram - UML and programming

Note: Question paper will cover 100% Practical

(9Hrs)

(9Hrs)

(9Hrs)

(9Hrs)

COURSE OUTCOMES

At the end of the course students would be able to

CO No	CO Statement	Knowledge Level
CO1	The students should be able to specify software requirements, design the software using tools	К3
CO2	To write test cases using different testing techniques.	K1

Boo	ooks for Study							
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							
NO	TE: Latest Edition of Text books May be Used							

Book	Books for Reference						
1	Booch G., "Object oriented analysis and design", Addison- Wesley Publishig Company 3 rd edition						
2	Rambaugh J, Blaha.M. Premeriani, W., Eddy F and Loresen W., "ObjectOrientedModeling and Design", PHI						
NOT	TE: Latest Edition of Text books May be Used						

Web References

1

https://www.studocu.com/in/document/university-of-madras/arts-and-science/objectoriented-analysis-and-design/26447498

Mapping with Programme Outcomes and Programme-Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	2	3	3	3	3	2	3	2	3	3	2
CO2	2	3	2	2	2	2	3	2	2	3	2
CO3	2	3	2	3	3	2	2	2	3	3	3
CO4	3	3	2	3	2	3	2	2	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	3

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 the correctness 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

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

B.COM, Computer Applications

Third Year

Semester V

										Mark	S
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCEV1	VALUE EDUCATION	VAE 1	2	-		-	2	2	25	75	100

	Learning Objectives
	Value education will enable the students to identify the personal and social values through moral learning and support system from the environment
2	Students will develop personal values
3	To prepare students to develop the art of community value
4	To train students towards developing biological values and development
5	To enable students to learn and identify the feminist values

COURSE CONTENT

Unit 1: Introduction to Value Education

Values (Valuation)- Explanation- Problem of Values-Old, New Values; Conflicts-Direct Value; Opposite Value-Adhering to Direct Values; Decaying of values- Individuals/ Community/ Impact of Decaying Values of Culture-Ways to Recover- the Impact of Decaying Values as a Culture-Values found in Tamil Literature- Concept of Individual values and Societal Values in "Thirukkural".

Unit2:PersonalValues

Personal Values- Human Advancement-Individual and Cognitive Freedom - New Economic Predation-Production and Sharing – Globalization-Liberalization-Intellectual Property Rights– Patent-Expropriation-World Trade Organization-Pricing of Drugs- Resourceful Life and Social Justice-(Peace) (Prosperity, Social, Justice)-Poverty Alleviation and Sustainability Project in India-Peace and Hygiene

Unit 3: Community Values

Community Values -Plural Community- Unity in Diversity-Social Responsibilities of Individualsconsumer rights-consumer awareness-consumer protection act-Healthy Responsibilities-Social Responsibility-Dealing with the Media with Dignity-Being Ambitious- Admiration of Psychological Values-Self-esteem-self-Recognition-Emotional Cognitive Ability-Spiritual Values and Spiritual Self-sufficiency

Unit 4: Biological

(6Hrs)

Biological Values-Biology - Medical Ethics - Acceptance - Reliability - Improper Medicine -Transplantation - Life Extension - Euthanasia - Medical Cruelty - Human Studies - Reproductive Science Rights - Contraception - Abortion - Artificial Fertility - Surrogacy- Genetically modified

(6Hrs)

(**6Hrs**)

(6**Hrs**)

8

foods – Science of Humanity - Biological warfare - Biological weapons against agriculture -Nanotechnology - Ways to recover from drug addiction - Animal use. Slave - Child labor

Unit 5: Feminist Values

Feminist Values - Gender - Obstacles to Women's Empowerment -Obstructionsto Women's Development - Violence Against Women - Abortion - Infanticide - Sexual Harassment - Sexual Violence –Harassment at Workplace-Domestic Violence - Women Stigma - Women Development -Government laws and programs for Women

Note: Question Paper shall cover 100% Theory Textbooks

COURSE OUTCOMES

At the end of the course students would be able to

СО	CO Statement	Knowled
No		ge Level
1	Explain the value system and importance of having value education	K1
2	Cultivating the personal value habits and learning out of them	K2
3	Identifying the community values and development of community	K4
4	Identifying the biological values and taking care of them	K4
5	Gender relevance- Importance of Feminist values and empowerment of	K5
	women	
K1 - R	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	– Create

Books for Study 1 Ananda Valli Mahadevan Jaya Kothaipillai (Editors) - Feminism, 2004, Published by Mother Teresa Women's University, Kodaikanal Books for Reference

1Ramathal, K.M. and Others - Protection of Women from Domestic Violence Act, 2005,
Brochure. الله. 2007. Published by Tamil Nadu State Women's Commission, Chennai

NOTE: Latest Edition of Text books May be Used

Web I	References	
1	https://www.valuesbasededucation.com	
2	https://livingvalues.net	
3	https://sim.edu.in	

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	2	3	3	3	3	2	3	2	3	3	2
CO2	2	3	2	2	2	2	3	2	2	3	2
CO3	2	3	2	3	3	2	2	2	3	3	3
CO4	3	3	2	3	2	3	2	2	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	3

3 – Strong, 2- Medium, 1- Low

(6Hrs)

B.COM, Computer Applications

Third Year

Semester V

								70		Mar	ks
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCNM54	NAAN MUDHALVAN		2	•		-	2	2	25	75	100

SEMESTER-VI

B.COM ,Computer Applications CORE XIII

Semester VI

(**18Hrs**)

(**18Hrs**)

(18Hrs)

		y						rs		Mar	ks
Course Code	Title of the Course	Catego	L	Т	Р	0	Credits	Inst. Hou	CIA	External	Total
U23CCT613	COST ACCOUNTING II	CORE XIII	6			-	4	6	25	75	100

	Learning Objectives						
1	To understand the standards in Cost Accounting						
2	To know the concepts of contract costing						
3	To be familiar with the concept of process costing						
4	To learn about operation costing.						
5	To gain insights into standard costing.						

COURSE CONTENT

Unit 1: 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.

Unit 2: Contract Costing

Third Year

Definition - Features of Contract Costing - Calculation of Profit on Contracts – Cost Plus Contract- Contract Costing and Job Costing - A Comparison -Preparation of Contract A/c.

Unit 3: Process Costing

Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Treatment of Loss and Gain : Normal and Abnormal Loss - Abnormal Gain - Joint Products, By Products – Concept of Equivalent Production – Process Accounts - Process Losses and Gains.

Unit4:Operation Costing

Operation Costing – Meaning – Preparation of Operating Cost Sheet – Transport Costing – Power Supply Costing–Hospital Costing–Simple Problems.

8

(18Hrs)

Unit5:Standard Costing

(18Hrs)

Definition – Objectives – Advantages – Standard Cost and Estimated Cost – Installation of Standard Costing – Variance Analysis – Material, Labour, Overhead, and Sales Variances – Calculation of Variances.

Note: Question Paper shall cover 20% Theory & 80% Problems

COURSE OUTCOMES

At the end of the course students would be able to

CO No	CO Statement	Knowledge Level
1	Remember and recall standards in cost accounting	K1
2	Apply the knowledge in contract costing	К3
3	Analyze and assimilate concepts in process costing	K4
4	Understand various bases of classification cost and prepare operating cost	K2
_	statement.	
5	Set up standards and analyse variances.	K6
K1 -	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	- Create
Bo	oks for study	
	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 Co, New Delhi.	S Chand &
	3 Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand publication Delhi.	ns, New
	4 T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publicat	tions,
Book	s for Reference	
	5 S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Deini. Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision	
	Making, New York, McGraw–Hill, Noida.	
2	Jain S.P. and Narang K.L. Cost Accounting, Kalyani Publishers, New Delhi.	
•	V.K.Saxena and C.D. Vashist, Cost Accounting, Sultan Chand publications, New Delhi.	
	Murthy A & Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pvt. Ltd. Chennai	
•	Prasad. N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Bangladesh.	
NO'	TE: Latest Edition of Textbooks May be Used	
	Web References	
1.	https://www.economicsdiscussion.net/cost-accounting/contract-costing/32597	
2. ht	tps://www.wallstreetmojo.com/process-costing/	
3. ht	tps://www.accountingnotes.net/cost-accounting/operating-costing/17755	

Maping with Programme	Outcomes and Programme	Specific Outcomes
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	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	3	3	3	3	2	3	2	3	3	2
CO2	3	3	2	2	2	2	3	2	2	3	2
CO3	3	3	2	3	3	2	2	2	3	3	3
CO4	3	3	2	3	2	3	2	2	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	3

B.COM, Computer Applications

	Third Year	CORE	XIV							Seme	ster V	Ι
	Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	Mar External	Total
τ	J23CCT614	MANAGEMENT ACCOUNTING	CORE XIV	6			-	4	6	25	75	100

	Learning Objectives						
1	To understand basics management accounting						
2	To know the aspects of Financial Statement Analysis						
3	To familiarize with fund flow and cash flow analysis						
4	To learn about budgetary control						
5	To gain insights into marginal costing						

COURSE CONTENT

Unit 1: Introduction to Management Accounting

(18Hrs) Management Accounting - Meaning - Scope - Importance- Limitations - Management Accounting Vs Cost Accounting – Management Accounting Vs Financial Accounting.

Unit2:Financial Statement Analysis

Analysis and Interpretation of Financial Statements – Nature and Significance – Types of Financial Analysis – Tools of Analysis – Comparative Statements – Common Size Statement – Trend Analysis. Ratio Analysis: Meaning – Advantages – Limitations – Types of Ratios - Liquidity Ratios - Profitability Ratios - Turnover Ratios - Capital Structure Ratios -Leverage Ratios - Preparation of Financial Statements from Ratios.

Unit 3: Fund Flow Analysis & Cash Flow Analysis

Introduction, Meaning of Funds Flow Statement-Ascertainment of Flow of Funds -Technique of Preparing Funds Flow Statement- Schedule of Changes in Working Capital-Adjusted Profit and Loss Account - Preparation of Funds Flow Statement.

Cash Flow Statements: Meaning – Advantages – Limitations – Preparation of Cash Flow Statement as per AS 3 – Types of Cash Flows - Operating, Financing and Investing Cash Flows.

Unit 4: Budgetary Control

Budgetary Control: Meaning - Preparation of Various Budgets - Cash Budget - Flexible Budget- Production Budget - Sales Budget.

Unit5:MarginalCosting

(18Hrs)

(18Hrs)

9

(**18Hrs**)

(18Hrs)

Meaning - Features – Fixed Cost, Variable Cost and Semi Variable Cost- Contribution-Marginal Cost Equation- P/V Ratio - Break Even Point - Margin of Safety – Cost- Volume Profits Analysis- Break Even Point – Decision Making: Selection of a Product Mix – Make or Buy Decision – Discontinuance of a product line – Change or Status quo – Limiting Factors – Exploring New Markets.

Note: Question Paper shall cover20% Theory 80% Problems

COURSE OUTCOMES

CO No	CO STATEMENT	Knowledge Level
1	Remember and recall basics in management accounting	K1
2	Apply the knowledge of preparation of Financial Statements	К3
3	Analyse the concepts relating to fund flow and cash flow	K4
4	Evaluate techniques of budgetary control	K5
5	Formulate criteria for decision making using principles of marginal costing.	K6
K1 - F	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	– Create

Book for Study

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, Margham Publications, Chennai.

Books for Reference

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.
•	Murthy A and Gurusamy S ,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.
NOT	E: Latest Edition of Textbooks May be Used
Web I	References
1	https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flow-analysis-

9

	BCOM (CA) MTWU SYLLABUS 2024
	accounting/13300
2	https://accountingshare.com/budgetary-control/
3	https://www.investopedia.com/terms/m/marginalcostofproduction.asp

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	3	3	3	3	2	3	2	3	3	2
CO2	3	3	2	2	2	2	3	2	2	3	2
CO3	3	3	2	3	3	2	2	2	3	3	3
CO4	3	3	2	3	2	3	2	2	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	3

BCOM (CA) MTWU SYLLABUS 2024 B.COM ,Computer Applications CORE XV

Semester VI

									Mar	ks	
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total
U23CCT615	INCOME TAC LAW AND PRACTICE-II	CORE XV	6			-	4	6	25	75	100

	Learning Objectives								
1	To understand provisions relating to capital gains								
2	To know the provisions for computation of income from other sources.								
3	To familiarize law relating to set off and carry forward of losses and deductions from Gross Total Income								
4	To learn about assessment of individuals								
5	To gain knowledge about assessment procedures.								

COURSE CONTENT

Unit 1: Capital Gains

(18Hrs)

(18Hrs)

Capital Gains – Kinds of Capital Assets – Computation of Capital Gains – Exemption under Section 54, 54B, 54D, 54EC, 54F, 54GA.

Unit 2: Income From Other Sources

Income from Other Sources – Income Chargeable to Tax under the Head Income from Other Sources – Procedures for Computing Income from Other Sources – Deductions Allowed – Deduction not Allowed – Problems on Computation of Income from Other Sources.

Unit 3: Set Off and Carry Forward of Losses and Deductions From Gross Total Income (18Hrs)

Provisions for Set-off and Carry Forward of Losses (Simple Problems). Deductions U/S 80C, 80CCB, 80CCC, 80CCD, 80 CCE, 80D, 80DD, 80DDB, 80E, 80EE, 80EEA, 80EEB,80G, 80GGA, 80TTA, 80TTB, and 80U only.

Unit 4: Assessment of Individuals

Assessment: Meaning and Types, Computation of Total Income and Tax Liability of an Individuals (simple problems in case of Income from salaries, HP and Profits and Gains – computed income may be given).

9

(**18Hrs**)

Unit 5: Income Tax Authorities

(18Hrs)

Administration of Income Tax Act – Income Tax Authorities – Powers of CBDT – Powers of Income – Tax Officers - Procedures for Assessment – Filing of Return – Due Dates of Filing – Voluntary Filling – Return of Loss – Related Return – Defective Return – Signing of Return – Permanent Account Number (PAN)

Note: Question Paper shall cover 40% Theory & 60% Problems

COURSE OUTCOMES

At the end of the course students would be able to

CO	CO STATEMENT	Knowledge				
No		Level				
1	Remember and recall provisions on capital gains	K1				
2	Apply the knowledge about income from other sources	K3				
3	Analyse the set off and carry forward of losses provisions	K4				
4	Learn about assessment of individuals	K5				
5	Apply procedures learnt about assessment procedures.	K3				
K1 - F	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	5 – Create				
Bo	ook for Study					
	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.					

Books for Reference

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.						
NOT	NOTE: Latest Edition of Textbooks May be Used						

Web	Web References							
1.	https://www.investopedia.com/terms/c/capitalgain.asp							
2.	https://www.incometaxmanagement.com/Direct-Taxes/AY-2021-22/assessment/1-assessment-of-an-individual.html							
3.	https://www.incometax.gov.in/iec/foportal/							

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	3	3	2	3	2	3	3	2
CO2	3	2	2	2	2	2	3	2	2	3	2
CO3	3	2	2	3	3	2	2	2	3	3	3
CO4	3	2	2	3	2	3	2	2	1	3	2
CO5	3	2	3	1	3	3	3	3	3	3	3

B.COM ,Computer ApplicationsThird YearDiscipline Specific Elective –VII

Semester VI

			A						rs		Mar	ks	
Course Code		Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External	Total	
23CC	E67A	ENTREPRENEURIAL DEVELOPMENT	DSE VII	5			-	3	5	25	75	10	
		Learning	Objectives										
1	To know	the meaning and characteristi	cs of entrep	orene	eurs	hip							
2	To ident	ify the various business oppor	unities										
3	Tounder	rstand the Process of setting u	an enternr	ice									
			*										
4	To gain 1	knowledge in the aspects of least	al Complia	nce	of s	setti	ng u	ıp of	an e	enterp	orise		
5	To devel	op an understanding of the rol	e of MSMF	Eind	⁵ To develop an understanding of the role of MSME in economic growth								
			0 01 10101011	2 111 1	ecoi	IOIII	ne g	1000	11				
Mear	ning of E		SE CONTI	ENT epre	neu	rshi	p –	Тур	es of		Irs)		
Mean Entre Empl Entre Unit Idea – Cre and T	ning of En epreneurs loyment epreneuria 2: Desig Generatio eativity –	COUR duction to Entrepreneur ntrepreneurship – Characteris hip – Self Employment – Diff – Meaning of Entrepreneur al Scenario in India. 27 Thinking n – Identification of Business Invention – Innovation – D cools and Techniques of General	SE CONTI ics of Entr erence betv - Traits – Opportuniti fferences -	epre veen Cla es –	neu En ssif	rshi trep icati sign Ad	p – rene ion	Typ- eursh – Fu inkin	es of ip an incti	nd ons -	- (15Hr	s)	
Mean Entre Empl Entre Unit Idea – Cre and T Busin Proce – Par Man	ning of En- epreneurs loyment epreneuria 2: Desig Generatio eativity – Types – T ness Opp 3: Settir ess of Set thership partnership	COUR duction to Entrepreneur ntrepreneurship – Characteris hip – Self Employment – Diff – Meaning of Entrepreneur al Scenario in India. 27 Thinking n – Identification of Business Invention – Innovation – D cools and Techniques of General	SE CONTI ics of Entre erence betv - Traits – Opportuniti fferences - ating an Id as of an En ip Firm – terprise –F	epre veen Cla - Va ea – terpi	neu En ssif De alue Tu	rshi trep icati Sign Ad rnin — S tock	p – rene ion ditie g Id ole	Type eursh – Fu inkin on – ea ir Prop	es of ip an incti- g Pro Con ito prieto ny –	orship orship	(15Hr (15Fr (15)		
Mean Entre Emp Entre Unit Idea – Cre and T Busin Unit Proce – Par Man Tech Unit Intro Fund	ning of En- epreneurs loyment epreneuria 2: Desig Generatio eativity – Types – T ness Opp 3: Settir ess of Set thership partnership nical, Fin 4: Busir duction – Require	COUR duction to Entrepreneur Intrepreneurship – Characteris hip – Self Employment – Diff – Meaning of Entrepreneur al Scenario in India. gn Thinking In – Identification of Business Invention – Innovation – D cools and Techniques of Generation ortunity. ng Up an Enterprise ting Up an Enterprise – Form – Limited Liability Partnership – Choice of Form of an Enterprise	SE CONTI ics of Entre erence betw – Traits – Opportuniti fferences – ating an Id as of an En ip Firm – terprise –F omical. mulation of Project Dec of Setting	epre veen Cla es – Va ea – terpi Join Veasi of P scrip	neu En ssiff De alue Tu rise t S bilit bilit	rshi trep icati sigr Ad rnin - S tock ty S ect n - 1	p – rena ion 1 Th ditid g Id ole c Co tudy Rej Mar	Type eursh – Fu inkin on – ea ir Prop mpa y - N port ket S	es of ip an incti- g Pr- Con to orieto ny – farko	ocess ncept	(15Hr (15Fr (15)	(Hrs)	

Government Schemes and Women Entrepreneurship – Importance of MSME for Economic Growth – MSME – Definition – Role of Government Organizations in Entrepreneurship Development – MSME DI – DIC – Khadi and Village Industries Commission – NSIC – NABARD, SICVI, SFC, SDC, EDII, EPCCB. Industrial Estates – Government Schemes – Prime Minister Employment Generation Programme – Women Entrepreneurship in India.

Note: Question Paper shall cover 100% Theory

Course Outcomes

At the end of the course students would be able to

CO.N 0	CO Statement	Knowled ge level
1	Identify the various traits of an entrepreneur	K1
2	Turn ideas into business opportunities	K3
3	Do feasibility study before starting a project	K2
4	Identify the sources of funds for funding a project	K1
	Develop an understanding about the Government schemes available for women entrepreneurs	K6
K1 - R	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	– Create

Book for S	btudy
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,VijayNicoleandIm prin ts Pvt. Ltd, Chennai.
5	Vasant Desai, (Reprint2017).Dynamics of Entrepreneurial Development & Management Twenty Fourth Edition. Himalaya Publishing House. Mumbai.

Books for H	Reference
1	Anilkumar, Poornima, Principles of Entrepreneurial
	development, Newage publication, Chennai.
2	Dr.A.K.singh, Entrepreneurial development and management,
	Laxmi publications, Chennai.
3	Dr. R.K. Singal, Entrepreneurial development and
	management, S.K.Kataria publishers, New Delhi.

NOTE: Latest Edition of Textbooks May be Used

Web]	References
1	https://www.interaction-design.org/literature/topics/design-thinking
2	https://www.bms.co.in/steps-involved-in-setting-up-of-an-enterprise/
3	http://www.msme.gov.in/

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	3	3	2	2	2	3	3	2
CO2	3	2	2	2	2	2	3	2	2	3	2
CO3	2	2	2	2	3	2	2	2	3	3	3
CO4	3	2	2	3	2	3	2	2	1	3	2
CO5	3	2	3	1	3	3	3	3	3	3	3

B.COM ,Computer ApplicationsThird YearDiscipline Specific Elective –VII

Semester VI

Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	Mar External	rs Total
U23CCE67B	ARTIFICIAL INTELLIGENCE IN BUSINESS	SB	5			-	3	5	25	75	100

	Learning Objectives
	To understand the fundamentals of AI technologies, including machine learning, natural language processing, and computer vision.
	To explore real-world applications of AI in various business domains such as marketing, finance, supply chain management, and human resources.
	To learn how to collect, preprocess, and analyze data using AI tools and techniques to extract actionable insights.
	To understand the ethical, legal, and societal implications of AI in business and developing frameworks for responsible AI deployment.
5	To develop AI-driven solutions to business challenges and opportunities

COURSE CONTENT

Unit 1: Introduction To Artificial Intelligence

Introduction Artificial Intelligence: Concept, benefits, and scope. Differences between AI, Machine Learning (ML) and Deep Learning (DL) - AI applications, capabilities and competitive advantage; Industry drivers; AI strategy for the enterprise - Considerations for an AI strategy, AI & Startups. Internet of Things (IoT), Introduction to mobile computing and Cloud computing.

Unit 2:AI Algorithm

Ai Led Strategic Interventions Algorithm: New member in the boardroom, Accelerated decision making with real time analytics, AI in operational models in an organisation, AI: future of AI in HR, Talent sciences, Algorithms & Talent Acquisitions (TA), AI & transformation in Finance & Accounting, CFO of tomorrow, Changing role of Chief Information Officer (CIO): Industry 4.0.

Unit 3: AI In Banking

Introduction - Meaning- AI in Banking & Insurance Redefined banking industry – adoption of Analytics, AI powered financial services, Fraud mitigation in banks with AI, Reorienting customer retention, Risk management with AI, AI driven transformation in Insurance, Digital based insurance model.

(15Hrs)

(15Hrs)

(15Hrs)

9

Unit 4: AI in Retail

(15Hrs)

AI in Retail -AI interventions in Retail Outlets. Emergence of smart customers, ad content predictions, Evolution of smart retailers, Omni channel experience, AI in consumer packaged goods, Fluid supply chain transformation with AI. AI-Led marketing transformations, Data to Clusters - Ad content prediction - AI based Ad buy and CPC optimization, AI driven campaign management. AI for Sales: Data to Classes - Insides Sales Rep workflow automation - Improved Lead, Opportunity Ranking and Reminder.

Unit 5:AI And Technology

(15Hrs)

Exponential Technologies Beating cyber-attacks with Analytics, AI in automotive industry: driverless cars and drones, IoT Analytics: extracting value and transforming business, Real time streaming analytics, Cryptocurrency Analytics, AI for customer service-data to scores, AI for Portfolio Management, Chatbots, Call center rep automation.

Note: Question paper will cover 100% Theory

Course Outcomes

At the end of the course students would be able to

CO.N	CO Statement	Knowled							
0		ge level							
1	identify how the AI is being leveraged by start-ups as a success tool	K4							
2	analyse and interpret the applicability of AI in HR functions	K4							
3	explain how algorithms is changing the board room landscape	K6							
4	discuss the customer services provided by various banks using AI	K4							
5	demonstrate the role of AI in transforming the retail sector	K2							
K1 - R	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	– Create							
Book	Book for Study								
1	Dhanrajani, S. "AI & Analytics: Accelerating BusinessDecisions." New Jersey Wiley. (2018).	y:							

Books for Reference Russell, S. J., & Norvig, P. "Artificial Intelligence: A ModernApproach", 3rd 1 Edition. NewJersey: Prentice Hall. (2019). Akerkar, R. "Artificial Intelligence for Business". 2 Basingstoke: Springer Nature" (2018). Altemeyer, B. Making the business case for AI in HR: twocase studies. 3 Strategic HR Review, 18(2), 66-70. Retrieved from https://www.emerald.com/insight/content/doi/10.1108/SHR-12-2018-0101/full/html (2019) Web references https://www.geeksforgeeks.org/difference-betweenartificial-intelligence-vs-machine-learning-vs-deep-learning/

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2	https://www.geeksforgeeks.org/artificial-intelligence- an-introduction/
3	https://www.javatpoint.com/ai-in-banking
4	https://www.diva- portal.org/smash/get/diva2:1246905/FULLTEXT01.pdf
5	https://www.javatpoint.com/chatbot-vs-conversational-ai
6	https://www.linkedin.com/pulse/ai-led-strategy-boards-new-counselor-sameer- dhanrajani
7	https://www.gartner.com/smarterwithgartner/the-cios- guide-to-artificial- intelligence

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	3	3	2	2	2	3	3	2
CO2	3	2	2	2	2	2	3	2	2	3	2
CO3	2	2	2	2	3	2	2	2	3	3	3
CO4	3	2	2	3	2	3	2	2	1	3	2
CO5	3	2	3	1	3	3	3	3	3	3	3

B.COM, Computer Applications

Third Year

DISCIPLINE SPECIFIC ELECTIVE -VIII

Semester VI

Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External [BM	rks Total
U23CCE68A	R LANGUAGE	DSE VIII	2		3	-	3	5	25	75	100

	Learning Objectives
1	Acquire programming skills in core R Programming
2	Acquire Object-oriented programming skills in R Programming
3	Develop the skill of designing graphical-user interfaces (GUI) in R Programming
4	Acquire R Programming skills to move into specific branches

List of Exercises
1. Data In R
2. Reading And Writing Data
3. R And Databases
4. Dates
5. Factors
6. Subscribing
7. Character Manipulation
8. Data Aggregation
9. Reshaping DataBasics
10. The R Environment
11. Probability And Distributions
12. Descriptive Statistics and Graphics
13. One- And Two-Sample Tests
14. Regression And Correlation
15. Analysis Of Variance And The Kruskal–Wallis Test
16. Tabular Data
17. Power And The Computation Of Sample Size
18. Advanced Data Handling
19. Multiple Regression
20. Linear Models
21. Logistic Regression
22. Survival Analysis
23. Rates And Poisson Regression
24. Nonlinear Curve Fitting

Note: Question paper will cover 100% Practical

Course Outcome

At the end of the course students would be able to

CO No	Co Statement	Knowledge Level
CO1	To understand the problem solving approaches	K2
CO2	To learn the basic programming constructs in R Programming	K2
CO3	To practice various computing strategies for R Programming -based solutions to real world problems	K2
CO4	To use R Programming data structures - lists, tuples, dictionaries.	К3
CO5	To do input/output with files in R Programming	К3

Books	for Study
1	Maria Dolors Ugarte, Ana F. Militino, Alan T. Arnholt "Probability and Statistics With R" 2 Edition on ,CRS Press, 2016.
2	P.Dalgaard . Introductoty Statistics With R, 2 nd Edition. Springer, 2008.

Mapping with Programme Outcomes and Programme Specific Outcomes

	PO	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	1	2	3
CO1	3	2	3	3	3	2	2	2	3	3	2
CO2	3	2	2	2	2	2	3	2	2	3	2
CO3	2	2	2	2	3	2	2	2	3	3	3
CO4	3	2	2	3	2	3	2	2	1	3	2
CO5	3	2	3	1	3	3	3	3	3	3	3

Third Ye VI		B.COM ,Computer Applications DISCIPLINE SPECIFIC ELECTIVE -VIII									
Course Code	Title of the Course	Category	L	Т	Р	0	Credits	Inst. Hours	CIA	External E	Total si
U23CCE68B	PRACTICAL TALLY	DSE VIII	2	-	3	-	3	5	25	75	100

Learning Objectives

¹ Examination of general accounting applications as they apply to computerized financial records for each step of the accounting cycle to the completion of financial statements, as well as management accounting applications.

List of Exercises

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

Note: Question paper will cover 100% Practical

BCOM (CA) MTWU SYLLABUS 2024 COURSE OUTCOMES

Students will be able to

СО	CO Statement	Knowledg e level
CO1	input journal entries, adjust entries and prepare financial statements for cash and accrual-based businesses	К3
CO2	record vendor, customer, and inventory transactions essential for maintaining accounts payable, accounts receivable, and inventory subsidiary ledgers	К3

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME-SPECIFIC OUTCOMES

Course Outcomes	Programme Outcomes (POS)						Prog (PSC	Means Score of COS						
	1	2	3	4	5	1	2	3	4	5	6	7	8	
CO-1	4	4	4	4	3	3	3	3	4	3	4	3	4	43/13=3.30
CO-2	4	3	4	3	3	3	3	4	4	3	3	3	4	44/13=3.38
CO-3	3	3	4	3	3	4	4	4	4	3	4	3	3	46/13=3.53
CO-4	4	3	4	3	4	4	3	4	3	4	3	4	4	47/13=3.61
CO-5	3	4	3	4	3	4	4	3	3	3	4	3	4	45/13=3.46 17.28/5=3.4 56

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Semester VI

		Category						rs		S	
Course Code	Title of the Course		L	Т	Р	0	Credits	Inst. Hou	CIA	External	Total
U23CCNM65	NAAN MUDHALVAN		2	-	-	-	2	2	25	75	100