E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014. (*An Autonomous Institution – Affiliated to Madurai Kamaraj University*) Re-accredited (**3rd Cycle**) with Grade **A**⁺ & **CGPA 3.51** by NAAC

DEPARTMENT OF COMMERCE



TANSCHE-CBCS with OBE

MASTER OF COMMERCE (Computer Applications)

PROGRAMME CODE - PC

COURSE STRUCTURE

(w.e.f. 2023 – 2024 Batch onwards)

E.M.G.YADAVA WOMEN'S COLLEGE, MADURAI-14

(An Autonomous Institution – Affiliated to Madurai Kamaraj University) Re-accredited (3rd Cycle) with Grade A⁺ with CGPA 3.51by NAAC TANSCHE CBCS with OBE

DEPARTMENT OF COMMERCE M.Com with Computer Applications (w.e.f. 2023- 2024 onwards)

VISION

- 1. To empower the students with the knowledge and problem solving skills and make them to realize their potential and assure them to cope with the competitiveness globally.
- 2. To envision the Department of Commerce as an ICMA Centre with excellence and create more Chartered Accountants.

MISSION

- 1. To empower the students to become innovative entrepreneurs, to contribute to the success of business and betterment to the society.
- 2. To prepare students for higher education in Commerce, Management and Business studies.
- 3. To inculcate the use of information and communication technology in the Teaching Learning Process.
- 4. To establish internship with industry, business, professionals and government so as to enhance the experience and gain knowledge of the students.
- 5. To develop the students to become socially responsible and globally employable through our Course Structure.

S.No	On completion of the Programme, the student will be able to
PEO1	To became experts in Accounting Methodology and enhance Professionalism through innovative practices to be tactful to face unforeseen demand and change situational roles in industry and academics.
PEO2	Stimulate the student's capabilities towards innovation and creativity in problem solving skills in business modeling with societal impact.
PEO3	To adopt innovative opportunities, latest technologies and develop new businesses. Educate and to deal with the complex issues of the business community in particular and society at large.
PEO4	Communicate effectively by reading with insight, writing effective reports, speaking independently, listening to give effective response, and comprehending & designing in documentation.
PEO5	Uphold and improve the students technical and managerial competencies through career and professional learning Viz., Chartered Accountants(CA), Cost & Management Accountants (CMA), Company Secretary (CS) and advanced degree programmes in the field of Commerce.

Programme Educational Objectives (PEOs) M.Com (CA)

Programme Outcomes (POs) with Graduate Attributes

	Togramme Outcomes (105) with Oraduate Attributes								
Sl.No	Graduate Attributes	On completion of the Programme, the student will be able to							
PO1	Problem Solving	Apply knowledge of Management Theories and Human							
	Skill & Decision	Resource Practices to solve business problems through							
	Making Skill	research in global context. Foster analytical and critical							
		thinking abilities to enable decision-making based on data							
PO2	Employability Skill	Develop business acumen to enhance employability skills in							
	& Entrepreneurial	the competitive environment. Equip with skills and							
	Skill	competencies to become an entrepreneur							
PO3	Contribution to	Succeed in career endeavours and contribute significantly to							
	Society	society.							
PO4	Communication	Develop communication, managerial and interpersonal skills.							
	Skill								
PO5	Individual and	Lead oneself and the team to achieve organizational goals.							
	Team Leadership								
	Skill								
PO6	Lifelong learning	Acquire knowledge and skills, including "learning how to							
		learn"							

Programme Specific Outcomes (PSOs) with Graduate Attributes

Sl.No	Graduate	On completion of the Programme, the student will be able to
	Attributes	
PSO1	Entrepreneurship	Exhibit entrepreneurial ability by enhancing critical thinking, problem solving, decision making and leadership skills that will facilitate startups and high potential organisations.
PSO2	Research and Development	Design and implement accounting, marketing, finance and HR systems and practices grounded in research that comply with mercantile laws, leading the organisation towards growth and development.
PSO3	Contribution to the Society	Contribution to the Society
PSO4	Placement	Demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply in diverse frames of decisions and actions.
PSO5	Contribution to Business World	Facilitate production of employable, ethical and innovative professionals to sustain in the dynamic business world.

Eligibility for Admission: Pass in B.Com.,

Duration of the Course:

The students shall undergo prescribed courses of study for the period of two academic years under CBCS semester pattern with Outcome Based Education.

Medium of Instruction: English

System: TANSCHE - Choice Based Credit System with Outcome Based Education.

Nature of the Course

Courses are classified according to the following nature

- 1. Knowledge & Skill
- 2. Employability Oriented
- 3. Entrepreneurship Oriented

Outcome Based Education (OBE) & Assessment

Students understanding must be built on and assessed for wide range of learning activities, which includes different approaches and are classified along several bases, such as

1. Based on purpose:

- Formative (Internal tests, Assignment, Seminar, Quiz, Documentation, Case lets, ICT based Assignment, Mini Projects administered during the learning process)
- Summative (Evaluation of students learning at the end of instructional unit)

2. Based on Domain knowledge: (Post Graduate Up to K5 Levels)

• Assessment through K1, K2,K3, K4 & K5

Evaluation

Continuous Internal Assessment Test (CIA)	: 25 Marks
Summative Examination	: 75 Marks
Total	: 100 Marks

Total

CIA-Continuous Internal As	ssessment: 25 Marks
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Components	Marks
Test (Average of two tests)	
(Conduct for 120 marks and converted into 12 marks)	12
Creative Assignment	3
Assignment	5
Seminar	5
Total	25

- Centralized system of Internal Assessment Tests
- There will be a two Internal Assessment Tests
- Duration of Internal Assessment Test I and II will be 2 1/2 hours.
- Students shall write retest on the genuine grounds if they are absent in either Test I & Test II with the approval of Head of the Department.

Question Paper Pattern for Continuous Internal Assessment Test I and Test II

Section	Marks
A – Multiple Choice Questions (8x1Mark)	8
B – Short Answer (6 x 2 Marks)	12
C – Either Or type (4/8 x 5 Marks)	20
D – Open Choice type (2/4 x 10 Marks)	20
Total	60

Conducted for 120 marks and converted into 15 marks

Question Paper Pattern for Summative Examination

Section	Marks
A – Multiple Choice Questions without choice	10
(10x 1Mark)	
B – Short Answer Questions without choice (5 x 2 Marks)	10
C – Either Or type (5/10 X 5Marks)	25
D – Open Choice type(3out of 5 X 10Marks)	30
Total	75

- In respect of external examinations passing minimum is **45%** for Post Graduate Courses and in total, aggregate of **50%**.
- Latest amendments and revisions as per UGC and TANSCHE Norms are taken into consideration in curriculum preparation.

Blooms Taxonomy	Internal A	External Assessment	
	Ι	II	
Knowledge (K1	8 %	8 %	5 %
Understanding (K2)	8 %	8 %	14 %
Apply (K3)	24 %	24 %	27%
Analyze (K4)	30 %	30 %	27%
Evaluate (K5)	30%	30%	27%

Distribution of Marks in % with K levels CIAI, II & External Assessment

BLUE PRINT FOR INTERNAL ASSESSMENT–I Articulation Mapping –K Levels with Course Learning Outcomes(CLOs)

			Sect	ion A	n A Section B Section C S	Section D			
SI.No	CLOs	K-Level		e e		Short Answers (NoChoice)		(Open Choice)	Total
			No. of Questions	K-Level	No. of Questions	K-Level			
1	CLO1	Upto K5	1 2	K1 K2	1 1	K 1 K 3	1(K3) 1(K5)	1(K4)	
2	CLO2	Upto K5	2 1	K1 K2	1 1	K 1 K 2	1(K3) (Each setofquest ionsmust be inthesame level)	1(K4) 1(K5)	
3.	CLO3	Upto K5	1 1	K1 K2	1 1	K 2 K 3	1(K4)	1(K5)	
N	o. of Ques tobeaske		8		6		8	4	26
]	No.ofQues Beansw	stionsto	8		6		4	2	20
	Marks for eachquestion		1		2		5	10	
	Fotal Mar eachsect		8		12		40	40	100

BLUE PRINT FOR INTERNAL ASSESSMENT- II Articulation Mapping –K Levels with Course Learning Outcomes (CLOs)

			Secti	onA	Sectio	onB	SectionC	SectionD			
SI.No	CLOs	K-Level		CQs hoice)		Short Answers (NoChoice)		((Open Choice)	Total
			No. of Questions	K-Level	No. of Questions	K-Level					
1	CLO3	Upto K5	1 2	K1 K2	1 1	K1 K3	1(K3) 1(K5)	1(K4)			
2	CLO4	Upto K5	2 1	K1 K2	1 1	K1 K2	1(K3) (Each setofquest ionsmust be in Thesamel evel)	1(K4) 1(K5)			
3.	CLO5	Upto K5	1 1	K1 K2	1 1	K2 K3	1(K4)	1(K5)			
N	o. of Ques tobeaske		8		6		8	4	26		
	No.ofQues Beansw		8		6		4	2	20		
	Marks for eachquestion		1		2		5	10			
,	Total Mar eachsect		8		12		40	40	100		

CIA	K Levels	Section- AMCQ (No choice)	Section –B (Short Answer (No choice)	Section- C (Either or Type)	Section-D (Open Choice)	Total Marks	% of Marks
	K1	4	4			8	8
Ι	K2	4	4			8	12
	K3		4	20		24	40
	K4			10	20	30	40
	K5			10	20	30	20
	Marks	8	12	40	40	10 0	100
	K1	4	4			8	8
п	K2	4	4			8	12
	K3		4	20		24	40
	K4			10	20	30	40
	K5	<u> </u>		10	20	30	20
	Marks	8	12	40	40	1 0 0	100

Distribution of Marks with choice K Levels CIA I – CIA and II-CIA

Articulation Mapping –K Levels with Course Learning Outcomes (CLOs) for Internal Assessment (SEC)

No	Os	Section A Section B MCQs Short Answers			Section C	Section D	Total		
SI.No	CLOS	Ι	(Nocl	hoic	(Nochoice)		(Either/or Type)	(open choice)	
			No. of Questio	K- Level	No. of Questio	K- Level			
1	CLO1	Upto K4	ns 2	K1	ns		2(K3&K3)	1(K3)	
2	CLO1 CLO2	Upto K4 Upto K4	2	K1 K1			2(K3&K3) 2(K3&K3	1(K3) 1(K4)	
3	CLO2 CLO3	Upto K4	2	K1	2	K2	2(K4&K4)	1(K4) 1(K4)	
4	CLO4	Upto K5			2	K2	2(K5&K5)	1(K5)	
5	CLO5	Upto K5			2	K2		1(K5)	
	o. of Ques asked		4		3		8	5	20
	o. of Ques answered		4		3		4	2	13
Ma	arksforea	chquestion	1		2		5	10	
	tal Mark		4		6		20	20	50 (Marks)

K Levels	SectionA (MCQ'S) (No choice)	Section B (Short Answer) (No choice)	Section C (Either or Type)	Section D (Open choice)	Total Marks	% of Marks
K1	4				4	4
K2		6			6	6
K3			2 0	10	30	30
K4			1 0	20	30	30
K5			1 0	20	30	30
Total Marks	4	6	4 0	50	10 0	

Distribution of Section-wise Marks with K Levels for Internal Assessment (SEC)

K1 – Remembering and recalling facts with specific answers.

K2- Basic understanding of facts and stating main ideas with general answers.

K3- Application oriented Solving Problems, Justifying the statement and deriving inferences

K4- Examining, analyzing, presentation and make inferences with evidences.

K5- Evaluating, making Judgments based on criteria

Articulation Mapping –K Levels with Course Learning Outcomes(CLOs) for External Assessment

		K-Level	Sect A		Section	on B	Section C	Section D	Total
SI.N	cL0	K-L	MC (No choice)		Short Answers (No choice)		(Either/or Type)	(open choice)	
			No. of Questi ons	K- Level	No. of Questi ons	K- Level			
1	CLO1	Upto K4	2	K1&K 2	1	K1	2(K2&K2)	1(K3)	
2	CLO2	Upto K4	2	K1&K 2	1	K2	2(K3&K3)	1(K4)	
3	CLO3	Upto K4	2	K1&K 2	1	K3	2(K3&K3)	1(K4)	
4	CLO4	Upto K5	2	K1&K 2	1	K4	2(K4 &K4)	1(K5)	
5	CLO5	Upto K5	2	K1&K 2	1	K5	2(K5 &K5)	1(K5)	
N	o. of Que to beas		10		5		1 0	5	30
No. of Questions to beanswered		10		5		5	3	23	
Ma	arksforea	chquestion	1		2		5	10	
	otal Mark		10		10		2 5	30	75 (Marks)

K Levels	SectionA (MCQ'S) (No choice)	Section B (Short Answer) (No choice)	Section C (Either or Type)	Section D (Open Choice)	Total Marks	% of Marks
K1	5	2	-	-	7	5
K2	5	2	1 0	-	17	14
К3	-	2	2 0	10	32	27
K4	-	2	1 0	20	32	27
K5	-	2	1 0	20	32	27
Total Marks	10	10	5 0	50	12 0	100

Distribution of Section-wise Marks with K Levels for External Assessment

K1- Remembering and recalling facts with specific answers.

- K2- Basic understanding of facts and stating main ideas with general answers.
- K3- Application oriented Solving Problems Justifying the statement and deriving inferences
- K4- Examining, analyzing, presentation and make inferences with evidences.
- K5- Evaluating, making Judgments based on criteria

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DEPARTMENT OF COMMERCE – M.Com (CA) TANSCHE-CBCS with OBE COURSE STRUCTURE –SEMESTER WISE (w.e.f. 2023 – 2024 Batch onwards)

					VOIT	М	AX. MAI	RKS	ş
Semester	PART	COURSE CODE	COURSE TITLE	HOURS	EXAM DURATION (HRS)	CIA	EXT	Total	CREDITS
Ι	Part	230PCCA11	Core I – Business Finance	7	3	25	75	100	5
	Ι	23OPCCA12	Core II –Digital Marketing	7	3	25	75	100	5
		230PCCA13	Core III –Banking and Insurance	6	3	25	75	100	4
		230PCCADSE1B	DSEC- I	5	3	25	75	100	3
		23OPCCADSE1D	DSEC - II	5	3	25	75	100	3
			Total	30					20
	Part	23OPCCA21	Core IV -Strategic Cost Management	6	3	25	75	100	5
	I	23OPCCA22	Core V -Corporate Accounting	6	3	25	75	100	5
II		230PCCA23	Core VI- Setting up of Business Entities	6	3	25	75	100	4
		230PCCADSE2A	DSEC III	5	3	25	75	100	3
		23OPCCADSE2D	DSEC IV	5	3	25	75	100	3
	Part II	23OPCCASEC21	SEC – I Internet & its Applications	2	3	25	75	100	2
			Total	30					22

DSEC – Discipline Specific Elective Course SEC – Skill Enhancement Course

DSEC – Discipline Specific Elective Course

Semester I :

DSEC – I (Choose any one)

- 1. Introduction to Industry 4.0 23OPCCADSE1A
- 2. Big Data Analytics 23OPCCADSE1B

DSEC – II (Choose any one)

- 1. Enterprise Resource Planning 23OPCCADSE1C
- 2. Database Management System 23OPCCADSE1D

Semester II :

DSEC - III (Choose any one)

- 1. Data Mining and Data Interpretation 23OPCCADSE2A
- 2. Technology in Banking 23OPCCADSE2B

DSEC - IV (Choose any one)

- 1. Financial Analytics (Practical) 23OPCCADSE2C
- 2. Management Information System 23OPCCADSE2D

]	M.Co	om (CA)
Sem	Course	Course Code	Course Title	Credits	Contact	CIA	SE	Total
	Туре				Hours			
					/week			
Ι	Core-I	230PCCA11	Business	5				
			Finance		7	25	75	100

Nature of the Course						
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented				
✓	\checkmark					

Course Objectives:

- 1. To outline the fundamental concepts in finance
- 2. To estimate and evaluate risk in investment proposals
- 3. To evaluate leasing as a source of finance and determine the sources of startup financing
- 4. To examine cash and inventory management techniques
- 5. To appraise capital budgeting techniques for MNCs

Course Content:

UNIT : I - Introduction to Business Finance and Time vale of money Business Finance: Meaning, Objectives, Scope -Time Value of money: Meaning, Causes – Compounding – Discounting – Sinking Fund Deposit Factor – Capital Recovery Factor – Multiple Compounding– Effective rate of interest – Doubling period (Rule of 69 and Rule of 72) – Practical problems.

UNIT : II - Risk Management

Risk and Uncertainty: Meaning – Sources of Risk – Measures of Risk – Measurement of Return – General pattern of Risk and Return – Criteria for evaluating proposals to minimise Risk (Single Asset and Portfolio) – Methods of Risk Management – Hedging currency risk.

UNIT : III - Startup Financing and Leasing

Startup Financing: Meaning, Sources, Modes (Bootstrapping, Angel investors, Venture capital fund) - Leasing: Meaning – Types of Lease Agreements – Advantages and Disadvantages of Leasing – Financial evaluation from the perspective of Lessor and Lessee.

UNIT : IV - Cash, Receivable and Inventory Management

Cash Management: Meaning, Objectives and Importance – Cash Cycle – Minimum Operating Cash – Safety level of cash – Optimum cash balance - Receivable Management: Meaning – Credit policy – Controlling receivables: Debt collection period, Ageing schedule, Factoring – Evaluating investment in accounts receivable -Inventory Management: Meaning and Objectives – EOQ with price breaks – ABC Analysis.

UNIT : V - Multi National Capital Budgeting

Multi National Capital Budgeting: Meaning, Steps involved, Complexities, Factors to be considered – International sources of finance – Techniques to evaluate multi-

national capital expenditure proposals: Discounted Pay Back Period, NPV, Profitability Index, Net Profitability Index and Internal Rate of Return – Capital rationing -Techniques of Risk analysis in Capital Budgeting.

Books for study:

- 1. Maheshwari S.N., (2019), "Financial Management Principles and Practices", 15th Edition, Sultan Chand &Sons, New Delhi.
- Khan M.Y &Jain P.K, (2011), "Financial Management: Text, Problems and Cases", 8th Edition, McGraw Hill Education, New Delhi.
- 3. Prasanna Chandra, (2019), "Financial Management, Theory and Practice", 10th Edition, McGraw Hill Education, New Delhi.
- 4. Apte P.G, (2020), "International Financial Management" 8th Edition, Tata McGraw Hill, New Delhi.

Books for reference:

- 1. Pandey I. M., (2021), "Financial Management", 12th Edition, Pearson India Education Services Pvt. Ltd, Noida.
- 2. KulkarniP. V. &Satyaprasad B. G., (2015), "Financial Management", 14thEdition, Himalaya Publishing House Pvt Ltd, Mumbai.
- 3. Rustagi R. P., (2022), "Financial Management, Theory, Concept, Problems", 6th Edition, Taxmann Publications Pvt. Ltd, New Delhi.
- 4. ArokiamaryGeetha Rufus, Ramani N. & Others, (2017), "Financial Management", 1st Edition, Himalaya Publishing House Pvt Ltd, Mumbai.

Web references:

- 1. https://resource.cdn.icai.org/66674bos53808-cp8.pdf
- 2. https://resource.cdn.icai.org/66677bos53808-cp10u2.pdf
- 3. https://resource.cdn.icai.org/66592bos53773-cp4u5.pdf
- 4. https://resource.cdn.icai.org/65599bos52876parta-cp16.pdf

Pedagogy :

Chalk and Talk, PPT, group discussion, OHP presentations, quiz, on the spot test

Rationale for Nature of Course:

Understand the procedure of various Business financing with their managements and techniques used in future evaluation of capital budgeting.

Activities to be Given : Preparing the students to appear in professional activities of different types of Inventory management activities involved in business finance and make them to reveals with best proforma of management.

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

	Course Outcomes	Knowledge Level
CLO1	Explain important finance concepts	Upto K4
CLO2	Estimate risk and determine its impact on return	Upto K4
CLO3	Explore leasing and other sources of finance for startups	Upto K4
CLO4	Summarise cash receivable and inventory management	Upto K5
	techniques	
CLO5	Evaluate techniques of long term investment decision	Upto K5
	incorporating risk factor	

K1 - Remembering and recalling facts with specific answers

K2 - Basic understanding of facts and stating main ideas with general answers

K3– Application oriented – Solving Problems

K4 - Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	3	3	1	3	3	3
CLO2	3	3	2	3	3	3
CLO3	2	2	1	2	2	2
CLO4	2	2	1	2	2	2
CLO5	3	1	2	3	3	3
1 D.	aria Larval	2 Inter	andiota I areal		2 Advision as La	1

1 - Basic Level 2-

2- Intermediate Level

3-Advance Level

LESSON PLAN : 105 hrs

UNI	DESCRIPTION		
TS		No. of	Mode of
		Hours	Teaching
Ι	Business Finance: Meaning, Objectives, Scope -Time Value of money: Meaning, Causes – Compounding – Discounting Sinking Fund Deposit Factor – Capital Recovery Factor – Multiple Compounding Effective rate of interest – Doubling period (Rule of 69 and Rule of 72) – Practical problems.	21	Chalk & Talk , Spot Test, Demo Coding
	Risk and Uncertainty: Meaning – Sources of Risk – Measures of		
	Risk – Measurement of Return		
	General pattern of Risk and Return – Criteria for evaluating		Chalk & Talk
	proposals to minimise Risk (Single Asset and Portfolio)		, D
	Methods of Risk Management – Hedging currency risk	21	Demo Coding
Π		21	
	Startup Financing: Meaning, Sources, Modes (Bootstrapping, Angel investors, Venture capital fund) Leasing: Meaning –		
	Types of Lease Agreements – Advantages and Disadvantages of		Chalk & Talk,
III	Leasing Financial evaluation from the perspective of Lessor and		Spot Test
	Lessee.	21	Demo Coding

IV	Cash Management: Meaning, Objectives and Importance – Cash Cycle – Minimum Operating Cash - Safety level of cash – Optimum cash balance - Receivable Management: Meaning – Credit policy – Controlling receivables: Debt collection period, Ageing schedule, Factoring - Evaluating investment in accounts receivable - Inventory Management: Meaning and Objectives – EOQ with price breaks – ABC Analysis.	21	Chalk & Talk Demo Coding Spot Test
V	Multi National Capital Budgeting: Meaning, Steps involved, Complexities, Factors to be considered International sources of finance – Techniques to evaluate multi- national capital expenditure proposals: Discounted Pay Back Period, NPV, Profitability Index, Net Profitability Index and Internal Rate of Return – Capital rationing -Techniques of Risk analysis in Capital Budgeting.	21	Chalk & Talk, Spot Test Demo Coding Students Seminar

Course Designer Mrs.G.Jyothi

							Ι	M.Com
Sem	Course	Course Code	Course Title	Credits	Contact	CIA	SE	Total
	Type				Hours			
					/week			
Ι	Core-II	230PCCA12	Digital	5				
			Marketing		7	25	75	100

Nature of the Course					
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented			
✓	\checkmark				

Course Objectives:

- 1. To assess the evolution of digital marketing
- 2. To appraise the dimensions of online marketing mix
- 3. To infer the techniques of digital marketing
- 4. To analyse online consumer behaviour
- 5. To interpret data from social media and to evaluate game based marketing

Course Content:

UNIT : I - Introduction to Digital Marketing

Digital Marketing – Transition from traditional to digital marketing – Rise of internet – Growth of e-concepts – Growth of e-business to advanced e-commerce – Emergence of digital marketing as a tool – Digital marketing channels – Digital marketing applications, benefits and limitations – Factors for success of digital marketing – Emerging opportunities for digital marketing professionals.

UNIT : II - Online marketing mix

Online marketing mix – E-product – E-promotion – E-price – E-place – Consumer segmentation – Targeting – Positioning – Consumers and online shopping issues – Website characteristics affecting online purchase decisions – Distribution and implication on online marketing mix decisions.

UNIT : III - Digital media channels

Digital media channels – Search engine marketing – ePR – Affiliate marketing – Interactive display advertising – Opt-in-email marketing and mobile text messaging, Invasive marketing – Campaign management using – Facebook, Twitter, Corporate Blogs – Advantages and disadvantages of digital media channels – Metaverse marketing.

UNIT : IV - Online consumer behavior

Online consumer behavior – Cultural implications of key website characteristics – Dynamics of online consumer visit – Models of website visits – Web and consumer decision making process – Data base marketing – Electronic consumer relationship management – Goals – Process – Benefits – Role – Next generation CRM.

UNIT : V - Analytics and Gamification

Digital Analytics - Concept - Measurement framework - Demystifying web data -

Owned social metrics – Measurement metrics for Facebook, Twitter, YouTube, Slide Share, Pinterest, Instagram, Snapchat and LinkedIn – Earned social media metrics - Digital brand analysis – Meaning – Benefits – Components – Brand share dimensions – Brand audience dimensions – Market influence analytics – Consumer generated media and opinion leaders – Peer review – Word of mouth – Influence analytics – Mining consumer generated media – Gamification and game based marketing – Benefits – Consumer motivation for playing online games.

Books for study:

- 1. Puneet Singh Bhatia, (2019) "Fundamentals of Digital Marketing", 2nd Edition, Pearson Education Pvt Ltd, Noida.
- 2. Dave Chaffey, Fiona Ellis-Chadwick, (2019) "Digital Marketing", Pearson Education Pvt Ltd, Noida.
- 3. Chuck Hemann& Ken Burbary, (2019) "Digital Marketing Analytics", Pearson Education Pvt Ltd, Noida.
- 4. Seema Gupta, (2022) "Digital Marketing" 3rd Edition, McGraw Hill Publications Noida.
- 5. Kailash Chandra Upadhyay, (2021) "Digital Marketing: Complete Digital Marketing Tutorial", Notion Press, Chennai.
- 6. Michael Branding, (2021) "Digital Marketing", Empire Publications India Private Ltd, New Delhi.

Books for reference:

- 1. VandanaAhuja, (2016) "Digital Marketing", Oxford University Press. London.
- 2. Ryan Deiss& Russ Henneberry, (2017) "Digital Marketing", John Wiley and Sons Inc. Hoboken.
- 3. Alan Charlesworth,(2014), "Digital Marketing A Practical Approach", Routledge, London.
- 4. Simon Kingsnorth, Digital Marketing Strategy,(2022) "An Integrated approach to Online Marketing", Kogan Page Ltd. United Kingdom.
- 5. MaityMoutusy, (2022) "Digital Marketing" 2nd Edition, Oxford University Press, London.

Web references:

- 1. <u>https://www.digitalmarketer.com/digital-marketing/assets/pdf/ultimate-guide-to-digital-marketing.pdf</u>
- 2. <u>https://uwaterloo.ca/centre-for-teaching-excellence/teaching-resources/teaching-tips/educational-technologies/all/gamification-and-game-based-learning</u>
- 3. https://journals.ala.org/index.php/ltr/article/download/6143/7938

Pedagogy :

Chalk and Talk, PPT, group discussion, OHP presentations, quiz, on the spot test

Rationale for Nature of Course: It makes the students to communicate with consumer effectively

Activities to be Given : To collect the date for production details and sales promotion

CLOs	Course Outcomes	Knowledge Level
CLO1	Explain the dynamics of digital marketing	Upto K4
CLO2	Examine online marketing mix	Upto K4
CLO3	Compare digital media channels	Upto K4
CLO4	Interpret online consumer behavior	Upto K5
CLO5	Analyse social media data	Upto K5

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3– Application oriented – Solving Problems

K4 –Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

PO1	PO2	PO3	PO4	PO5	PO6
3	3	2	3	3	3
3	3	2	3	3	3
3	3	2	2	3	2
3	3	2	2	3	3
3	3	1	3	3	2
	PO1 3 3 3 3 3 3 3	PO1 PO2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	PO1 PO2 PO3 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 1	PO1 PO2 PO3 PO4 3 3 2 3 3 3 2 3 3 3 2 2 3 3 2 2 3 3 2 2 3 3 1 3	PO1 PO2 PO3 PO4 PO5 3 3 2 3 3 3 3 2 3 3 3 3 2 3 3 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 1 3 3

1 - Basic Level

2- Intermediate Level

3-Advance Level

LESSON PLAN : 105 hrs

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
I	Digital Marketing – Transition from traditional to digital marketing – Rise of internet – Growth of e- concepts - Growth of e-business to advanced e- commerce – Emergence of digital marketing as a tool – Digital marketing channels Digital marketing applications, benefits and limitations – Factors for success of digital marketing – Emerging opportunities for digital marketing professionals.	21	Chalk & Talk , Spot Test, Demo Coding
П	Online marketing mix – E-product – E-promotion – E-price – E-place – Consumer segmentation - Targeting – Positioning – Consumers and online shopping issues – Website characteristics affecting online purchase decisions Distribution and implication on online marketing mix decisions.	21	Chalk & Talk , Demo Coding

Ш	Digital media channels – Search engine marketing – ePR – Affiliate marketing – Interactive display advertising - Opt-in-email marketing and mobile text messaging, Invasive marketing – Campaign management using -Facebook, Twitter, Corporate Blogs – Advantages and disadvantages of digital media channels – Metaverse marketing	21	Chalk & Talk, Spot Test Demo Coding
IV	Online consumer behavior – Cultural implications of key website characteristics – Dynamics of online consumer visit - Models of website visits – Web and consumer decision making process – Data base marketing - Electronic consumer relationship management – Goals – Process – Benefits – Role – Next generation CRM.	21	Chalk & Talk Demo Coding Spot Test
V	Digital Analytics – Concept – Measurement framework – Demystifying web data - Owned social metrics – Measurement metrics for Facebook, Twitter, YouTube, Slide Share, Pinterest, Instagram Snapchat and LinkedIn – Earned social media metrics - Digital brand analysis – Meaning – Benefits – Components – Brand share dimensions – Brand audience dimensions – Market influence analytics - Consumer generated media and opinion leaders – Peer review – Word of mouth – Influence analytics – Mining consumer generated media – Gamification and game based marketing – Benefits –	21	Chalk & Talk, Spot Test Demo Coding Students Seminar
	leaders – Peer review – Word of mouth – Influence analytics – Mining consumer generated media –		

Course Designer : Mrs.D.Reena

							IM.C	Com (CA)
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours /week	CIA	SE	Total
Ι	Core-III	230PCCA13	Banking and Insurance	4	6	25	75	100

Nature of the Course						
Knowledge and Skill OrientedEmployability OrientedEntrepreneurship oriented						
✓ <i>✓</i>	√					

Course Objectives:

- 1. To understand the evolution of new era banking
- 2. To explore the digital banking techniques
- 3. To analyse the role of insurance sector
- 4. To evaluate the mechanism of customer service in insurance and the relevant regulations
- 5. To analyze risk and its impact in banking and insurance industry

Course Content:

UNIT : I - Introduction to Banking

Banking:Brief History of Banking - Rapid Transformation in Banking: Customer Shift -Fintech Overview - Fintech Outlook - The Financial Disruptors - Digital Financial Revolution - New Era of Banking.Digital Banking – Electronic Payment Systems– Electronic Fund Transfer System – Electronic Credit and Debit Clearing – NEFT – RTGS –VSAT–SFMS–SWIFT.

UNIT : II - Contemporary Developments in Banking

Distributed Ledger Technology – Blockchain: Meaning - Structure of BlockChain - Types of Block Chain - Differences between DLT and Blockchain - Benefits of Blockchain and DLT - Unlocking the potential of Blockchain – Crypto currencies, Central Bank Digital Currency (CBDC) - Role of DLT in financial services - AI in Banking: Future of AI in Banking - Applications of AI in Banking - Importance of AI in banking - Banking reimagined with AI. Cloud banking - Meaning - Benefits in switching to Cloud Banking.

UNIT : III - Indian Insurance Market

History of Insurance in India – Definition and Functions of Insurance – Insurance Contract – Indian Insurance Market – Reforms in Insurance Sector – Insurance Organisation – Insurance organisation structure. Insurance Intermediaries: Insurance Broker – Insurance Agent - Surveyors and Loss Assessors - Third Party Administrators (Health Services) – Procedures - Code of Conduct

UNIT : IV - Customer Services in Insurance

Customer Service in Insurance – Quality of Service - Role of Insurance Agents in Customer Service-Agent's Communication and Customer Service –Ethical Behaviour in Insurance – Grievance Redressal System in Insurance Sector –Integrated Grievance Management System- Insurance Ombudsman - Insurance Regulatory and Development Authority of India Act (IRDA) – Regulations and Guidelines.

UNIT : V - Risk Management

Risk Management and Control in banking and insurance industries – Methods of Risk Management – Risk Management by Individuals and Corporations – Tools for Controlling Risk.

Books for study:

- 1. Indian Institute of Banking and Finance (2021), "Principles & Practices of Banking", 5th Edition, Macmillan Education India Pvt. Ltd, Noida, Uttar Pradesh.
- 2. Mishra M N & Mishra S B, (2016), "Insurance Principles and Practice", 22nd Edition, S. Chand and Company Ltd, Noida, Uttar Pradesh.
- 3. Emmett, Vaughan, Therese Vaughan M., (2013), "Fundamentals of Risk and Insurance", 11th Edition, Wiley & Sons, New Jersey, USA.
- 4. TTheo Lynn, John G. Mooney, PierangeloRosati, Mark Cummins (2018), Disrupting Finance: FinTech and Strategy in the 21st Century (Palgrave Studies in Digital Business & Enabling Technologies), Macmillan Publishers, NewYork (US)

Books for reference:

- 1. SundharamKPM&Varshney P. N., (2020), "Banking Theory, Law and Practice", 20th Edition, Sultan Chand & Sons, New Delhi.
- 2. Gordon &Natarajan, (2022), "Banking Theory, Law and Practice", 9th Edition, Himalaya Publishing House Pvt Ltd, Mumbai.
- 3. Gupta P. K. (2021), "Insurance and Risk Management" 6th Edition, Himalaya Publishing House Pvt Ltd, Mumbai.
- 4. Susanne Chishti., & Janos Barberis(2016), The Fintech book: The financial technology handbook for investors, entrepreneurs and visionaries. John Wiley & Sons.

Web references:

- 1. <u>https://corporatefinanceinstitute.com/resources/knowledge/finance/fintech-financial-technology</u>
- 2. <u>https://mrcet.com/downloads/digital_notes/CSE/IV%20Year/CSE%20B.TECH%</u> 20IV%20YEAR%20II%20SEM%20BCT%20(R18A0534)%20NOTES%20Final%2 PDF.pdf
- 3. <u>https://www.irdai.gov.in/ADMINCMS/cms/frmGeneral_Layout.aspx?page=Page</u> <u>No108&flag=1</u>

Pedagogy :

Chalk and Talk, PPT, group discussion, OHP presentations, quiz, on the spot test

Rationale for Nature of Course: Will be able to acquire knowledge about both banking and insurance

Activities to be Given : Different types of Indian Insurance market and Digital Transaction

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge Level
CLO1	Relate the transformation in banking from traditional to new	Upto K4
	age	
CLO2	Apply modern techniques of digital banking	Upto K4
CLO3	Evaluate the role of insurance sector	Upto K4
CLO4	Examine the regulatory mechanism	Upto K5
CLO5	Assess risk mitigation strategies	Upto K5

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3– Application oriented – Solving Problems

K4 - Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	2	2	1	3	3	3
CLO2	3	3	3	3	3	3
CLO3	2	2	1	2	2	2
CLO4	3	2	2	1	2	2
CLO5	3	3	1	3	3	3
1 - Basic	Level	2- Intermediate	Level	3-Advanc	e Level	•

1 - Basic Level

LESSON PLAN : 90 hrs

UNI	DESCRIPTION		
TS		No. of	Mode of
Ι	Banking:Brief History of Banking - Rapid Transformation in Banking: Customer Shift - Fintech Overview - Fintech Outlook -The Financial Disruptors - Digital Financial Revolution - New Era of Banking.Digital Banking Electronic Payment Systems–Electronic Fund Transfer System – Electronic Credit and Debit Clearing – NEFT – RTGS –VSAT–SFMS–SWIFT.	Hours	Teaching Chalk & Talk, Spot Test, Demo Coding

II	Distributed Ledger Technology – Blockchain: Meaning - Structure of BlockChain - Types of Block Chain - Differences between DLT and Blockchain - Benefits of Blockchain and DLT - Unlocking the potential of Blockchain – Crypto currencies, Central Bank Digital Currency (CBDC) -Role of DLT in financial services - AI in Banking: Future of AI in Banking - Applications of AI in Banking - Importance of AI in banking - Banking reimagined with AI. Cloud banking - Meaning - Benefits in switching to Cloud Banking.	18	Chalk & Talk, Spot Test, Demo Coding
ш	History of Insurance in India – Definition and Functions of Insurance – Insurance Contract – Indian Insurance Market -Reforms in Insurance Sector – Insurance Organisation – Insurance organisation structure. Insurance Intermediaries: Insurance Broker – Insurance Agent - Surveyors and Loss Assessors - Third Party Administrators (Health Services) – Procedures - Code of Conduct.	18	Chalk & Talk, Spot Test, Demo Coding
IV	Customer Service in Insurance – Quality of Service - Role of Insurance Agents in Customer Service- Agent's Communication and Customer Service - Ethical Behaviour in Insurance – Grievance Redressal System in Insurance Sector –Integrated Grievance Management System - Insurance Ombudsman - Insurance Regulatory and Development Authority of India Act (IRDA) – Regulations and Guidelines	18	Chalk & Talk, Spot Test, Demo Coding
V	Risk Management and Control in banking and insurance industries - Methods of Risk Management – Risk Management by Individuals and Corporations Tools for Controlling Risk.	18	Chalk & Talk, Spot Test, Demo Coding

Course Designer : Ms.A.Nazima.

	I M.Com (CA)								
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours /week	CIA	SE	Total	
Ι	Elective- I	230PCCADSE1 A	Introduction to Industry 4.0	3	5	25	75	100	

Nature of the Course					
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented			
✓	\checkmark				

Course Objectives:

- 1. To enable the students to comprehend the change from industry 1.0 to 4.0
- 2. To gain knowledge on the challenges and future prospects of applying artificial intelligence
- 3. To learn the applications of big data for industrial growth and development
- 4. To understand the applications of IoT in various sectors
- 5. To understand why education has to be aligned with industry 4.0

Course Content:

UNIT : I - Introduction

Industry: Meaning, Types - Industrial Revolution: Industrial Revolution 1.0 to 4.0: Meaning, Goals and Design Principles - Technologies of Industry 4.0 - Big Data – Artificial Intelligence (AI) – Industrial Internet of Things - Cyber Security – Cloud – Augmented Reality.

UNIT : II - Artificial Intelligence

Artificial Intelligence (AI): Need, History and Foundations -The AI - environment -Societal Influences of AI – Application Domains and Tools - Associated Technologies of AI - Future prospects of AI – Challenges of AI.

UNIT : III - Big Data

Evolution - Data Evolution - Data : Terminologies - Essential of Big Data in Industry 4.0 - Big Data Merits and Limitations - Big Data Components : Big Data Characteristics - Big Data Processing Frameworks - Big Data Tools - Big Data Applications - Big Data Domain Stack : Big Data in Data Science – Big Data in IoT - Big Data in Machine Learning - Big Data in Databases - Big Data Usecases: Big Data in Social Causes - Big Data for Industry - Big Data Roles - Learning Platforms; Internet of Things (IoT) : Introduction to IoT – Architecture of IoT Technologies for IoT - Developing IoT Applications - Applications of IoT - Security in IoT.

UNIT : IV - Applications of IoT

IoT in Manufacturing – Healthcare – Education – Aerospace and Defence – Agriculture – Transportation and Logistics – Impact of Industry 4.0 on Society: Impact on Business, Government, People - Tools for Artificial Intelligence - Big Data and Data Analytics -Virtual Reality - Augmented Reality –IoT - Robotics.

UNIT : V - Industry 4.0

Education 4.0 – Curriculum 4.0 – Faculty 4.0 – Skills required for Future - Tools for Education – Artificial Intelligence Jobs in 2030 – Jobs 2030 - Framework for aligning Education with Industry 4.0.

Books for study:

- 1. SeemaAcharya J, SubhashiniChellappan, (2019) "Big Data and Analytics", 2nd Edition, Wiley Publication, New Delhi.
- 2. Russel S, Norvig P (2010), "Artificial Intelligence: A Modern approach", 3rdEdition, Prentice Hall, New York.
- 3. Pethuru Raj and Anupama C. Raman, (2017),"The Internet of Things: Enabling Technologies, Platforms, and Use Cases", Auerbach Publications

Books for reference:

- 1. Judith Hurwitz, Alan Nugent, Fern Halper, Marcia Kaufman, "Big Data for Dummies", John Wiley & Sons, Inc.
- 2. Nilsson (2000), Artificial Intelligence: A new synthesis, Nils J Harcourt Asia PTE Ltd.

Web references:

- 1. <u>https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SEEA1403.pdf</u>
- 2. <u>https://library.oapen.org/bitstream/handle/20.500.12657/43836/external_content.pd</u> <u>f? sequence=1</u>
- 3. https://www.vssut.ac.in/lecture_notes/lecture1428643004.pdf

Pedagogy :

Chalk and Talk , PowerPoint Presentation , Group Discussion , Student Seminar, Spot Test, Assignments , Quiz.

Rationale for Nature of Course: Quickly analyzing large amounts of data from different sources, in many different formats and types

Activities to be Given : Practice to Create Data Collection, Group Discussion, Seminar.

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge Level
CLO1	Discuss on the change from industry 1.0 to 4.0	Upto K4
CLO2	Discover the challenges and future prospects of applying artificial intelligence	Upto K4
CLO3	Apply big data for industrial growth and development	Upto K4
CLO4	Apply IoT in various sectors like Manufacturing, Healthcare, Education, Aerospace and Défense	Upto K5
CLO5	Appraise why education has to be aligned with industry 4.0	Upto K5

- K1- Remembering and recalling facts with specific answers
- K2- Basic understanding of facts and stating main ideas with general answers
- K3- Application oriented Solving Problems
- K4 -- Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	2	2	2	3	3	3
CLO2	2	3	2	3	3	3
CLO3	2	3	2	3	3	3
CLO4	2	3	2	3	3	3
CLO5	2	3	2	3	3	3
1 - Basic I	[eve]	2- Intermediate	Level	3-Advanc	e Level	

1 - Basic Level2- Intermediate Level3-Advance Level

LESSON PLAN : 75 hrs

UNI	DESCRIPTION]
TS		No. of Hours	Mode of Teaching
Ι	Industry: Meaning, Types - Industrial Revolution: Industrial Revolution 1.0 to 4.0: Meaning, Goals and Design Principles - Technologies of Industry 4.0 - Big Data – Artificial Intelligence (AI) – Industrial Internet of Things - Cyber Security – Cloud – Augmented Reality.	15	Chalk & Talk , Spot Test, Demo Coding
П	Artificial Intelligence (AI): Need, History and Foundations -The AI - environment - Societal Influences of AI – Application Domains and Tools - Associated Technologies of AI - Future prospects of AI – Challenges of AI.	15	Chalk & Talk , Spot Test, Demo Coding
III	Evolution - Data Evolution - Data : Terminologies - Essential of Big Data in Industry 4.0 - Big Data Merits and Limitations - Big Data Components : Big Data Characteristics - Big Data Processing Frameworks - Big Data Tools - Big Data Applications - Big Data Domain Stack : Big Data in Data Science – Big Data in IoT - Big Data in Machine Learning - Big Data in Databases - Big Data Usecases: Big Data in Social Causes - Big Data for Industry -Big Data Roles - Learning Platforms; Internet of Things (IoT) : Introduction to IoT – Architecture of IoT Technologies for IoT - Developing IoT Applications - Applications of IoT - Security in IoT.	15	Chalk & Talk , Spot Test, Demo Coding
IV	IoT in Manufacturing – Healthcare – Education – Aerospace and Defence – Agriculture – Transportation and Logistics – Impact of Industry 4.0 on Society: Impact on Business, Government, People - Tools for Artificial Intelligence - Big Data and Data Analytics - Virtual Reality - Augmented Reality –IoT - Robotics.	15	Chalk & Talk , Spot Test, Demo Coding
V	Education 4.0 – Curriculum 4.0 – Faculty 4.0 – Skills required for Future - Tools for Education – Artificial Intelligence Jobs in 2030 – Jobs 2030 - Framework for aligning Education with Industry 4.0.	15	Chalk & Talk , Spot Test, Demo Coding

Course Designer : Mrs.M.Sharmiladevi

							I M.C	om (CA)
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours /week	CIA	SE	Total
Ι	Elective- I	230PCCADSE1B	Big Data Analytics	3	5	25	75	100

Nature of the Course					
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented			
\checkmark	\checkmark				

Course Objectives:

- 1. To understand the various aspects of data science and applying them in health care
- 2. To learn the applications of big data for industrial growth and development
- 3. To understand the characteristics of 5 V's
- 4. To know the big data problems
- 5. To understand the Hadoop

Course Content:

UNIT : I - Introduction to Data Science

Introduction to data science – Case Studies – Data Science in Biomedicine and Healthcare – Sequence Processing – Medical Image Analysis – Natural Language Processing – Network Modelling and Probabilistic Modelling.

UNIT : II - Big Data

Big data: Meaning – Importance of Big Data – Example of Big Data – Source of Big Data - Machine -Generated Data - Advantages – Big Data generated by people – Organization of Generated Data - Integrating the data.

UNIT : III - Characteristics of Big Data

Characteristics of big data volume – Variety –Velocity – Characteristics of Big Data – Veracity – Valence and Value – Getting value out of Big Data using 5-step process to structure your analysis.

UNIT : IV - Data Science: Getting value out of Big Data

Building a Big Data Strategy – Happening of Big Data science – Five Components of Data Science. Steps in Data Science: Acquiring Data, Preprocessing and Exploring Data – Analysing Data – Communicating results – Turning insights into action.

UNIT : V - Big Data Systems and Hadoop

Meaning of Distributed File System – Scalable Computing over the Internet – Programming Models for Big Data – Introduction to Hadoop systems – The Hadoop Distributed File System: A Storage System for Big Data – YARN: A Resource Manager for Hadoop – Map Reduce: Simple Programming for Big Results – When to Reconsider Hadoop? – Cloud Computing: An important Big Data enabler.

Books for study:

- 1. Peter Guerra and Kirk Borne (2016), "Ten Signs of Data Science Maturity", O'Reily Media Pvt Ltd, USA
- 2. Tom White (2012), "Hadoop: The Definitive Guide" Third Edition, O'Reily Media, USA.
- 3. SeemaAcharya (2015), SubhasiniChellappan, "Big Data Analytics", Wiley, USA

Books for reference:

- 1. Howard Wen, Big Ethics for Big Data, O'Reilly Media, USA.
- 2. Michael Mineli, Michele Chambers, AmbigaDhiraj (2013), Big Data, Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses, Wiley Publications, USA.
- **3.** Judith S.Hurwitz, Alan Nugent, Fern Halper, Marcia Kaufman (2015), "Big Data for Dummies", John Wiley & Sons, Inc., USA.

Web references:

- 1. https://www.coursera.org/learn/big-data-introduction/home/welcome
- 2. https://www.coursera.org/learn/bioconductor?action=enroll&authMode=login

Pedagogy :

Chalk and Talk , PowerPoint Presentation , Group Discussion , Student Seminar, Spot Test, Assignments , Quiz.

Rationale for Nature of Course: Quickly analyzing large amounts of data from different sources, in many different formats and types

Activities to be Given : Practice to Create Data Collection, Group Discussion, Seminar.

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge Level
CLO1	Describe the Big Data landscape including examples of real	Upto K4
	world big data problems	
CLO2	Explain the advantages of Big Data.	Upto K4
CLO3	Explain the Vs of Big Data and its impacts of data	Upto K4
	collection, monitoring, storage, analysis and reporting	
CLO4	Identify what are and what are not big data problems and be	Upto K5
	able to recast big data problems as data science questions	
CLO5	Explain Hadoop technology	Upto K5

K1- Remembering and recalling facts with specific answers

- K2- Basic understanding of facts and stating main ideas with general answers
- K3– Application oriented Solving Problems
- K4 -Examining, analyzing, presentation and make inferences with evidences

Mapping of Course	Learning Outcome	s (CLOs) with Progra	mme Outcomes (POs)
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CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	2	2	2	2	1	2
CLO2	2	2	2	3	1	3
CLO3	3	3	3	3	2	3
CLO4	2	2	2	2	1	2
CLO5	3	3	3	3	3	3
1 - Basic Level2- Intermediate Level3-Advance Level		e Level				

LESSON PLAN : 75 hrs

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
Ι	Introduction to data science – Case Studies – Data Science in Biomedicine and Healthcare - Sequence Processing – Medical Image Analysis -Natural Language Processing – Network Modelling and Probabilistic Modelling.	15	Chalk & Talk , Spot Test, Demo Coding
П	Big data: Meaning – Importance of Big Data – Example of Big Data - Source of Big Data - Machine -Generated Data – Advantages - Big Data generated by people – Organization of Generated Data - Integrating the data.	15	Chalk & Talk , Spot Test, Demo Coding
III	Characteristics of big data volume – Variety – Velocity - Characteristics of Big Data – Veracity – Valence and Value - Getting value out of Big Data using 5-step process to structure your analysis.	15	Chalk & Talk , Spot Test, Demo Coding
IV	Building a Big Data Strategy – Happening of Big Data science - Five Components of Data Science. Steps in Data Science: Acquiring Data - Preprocessing and Exploring Data – Analysing Data – Communicating results – Turning insights into action.	15	Chalk & Talk , Spot Test, Demo Coding
V	Meaning of Distributed File System – Scalable Computing over the Internet – Programming Models for Big Data - Introduction to Hadoop systems – The Hadoop Distributed File System: A Storage System for Big Data - YARN: A Resource Manager for Hadoop – Map Reduce: Simple Programming for Big Results – When to Reconsider Hadoop? – Cloud Computing: An important Big Data enabler.	15	Chalk & Talk , Spot Test, Demo Coding

Course Designer : Ms.A.Josephine

]	[M.C	om (CA)
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours /week	CIA	SE	Total
T	Elective		Entorma		/week			
	– II	230PCCADSE 1C	Enterprise Resource Planning	3	5	25	75	100

Nature of the Course					
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented			
✓	\checkmark				

Course Objectives:

- 1. To learn the history and growth of ERP
- 2. To understand the risks involved while using ERP
- 3. To gain knowledge on the various ERP technologies
- 4. To learn the dynamics of ERP marketplace
- 5. To choose appropriate ERP solutions or packages

Course Content:

UNIT : I - Enterprise an Overview

Business Functions and Business Processes - Integrated Management Information -Business Modelling - Integrated Data Model. Business Processes: Major Business Processes. Introduction to ERP: Common ERP Myths - A Brief History of ERP - Reasons for the Growth of ERP Market - Advantages of ERP.

UNIT : II - Risk of ERP

People Issues - Process Risks - Technological Risks - Implementation Issues-Operation and Maintenance Issues - Unique Risks of ERP Projects - Managing Risks on ERP Projects. Benefits of ERP: Information Integration - Reduction of Lead Time - On-Time Shipment - Reduction in Cycle Time - Improved Resource Utilization - Better Customer Satisfaction - Improved Supplier Performance - Increased Flexibility - Reduced Quality Costs - Better Analysis and Planning Capabilities - Improved Information Accuracy and Decision Making Capability - Use of Latest Technology.

UNIT : III - ERP and Related Technologies

Business Process Reengineering (BPR) - Business Intelligence (BI) - Business Analytics (BA) - Data Warehousing- Data Mining - On - Line Analytical Processing (OLAP) - Product Life Cycle Management (PLM) - Supply Chain Management (SCM) - Customer Relationship Management (CRM) - Geographic Information Systems (GIS) - Intranets and Extranets. Advanced Technology and ERP Security: Technological Advancements - Computer Crimes - ERP and Security - Computer Security - Crime and Security.

UNIT : IV - ERP Market Place and Market Place Dynamics

Market Overview - ERP Market Tiers. Market Place Dynamics - Industry - Wise ERP Market Share - ERP: The Indian Scenario. Business Modules of an ERP Package: Functional Modules of ERP Software: Integration of ERP, Supply Chain, and Customer Relationship Applications.

UNIT : V - ERP Implementation

Benefits of Implementing ERP - Implementation Challenges. ERP Implementation Life Cycle: Objectives of ERP Implementation - Different Phases of ERP Implementation-Reasons for ERP Implementation Failure. ERP Package Selection: ERP Package Evaluation and Selection - The Selection Process - ERP Packages: Make or Buy.

Books for study:

- 1. Alexis Leon (2008), "Enterprise Resource Planning", 2nd edition, Tata McGraw-Hill, Noida.
- 2. Jagan Nathan Vaman (2008), "ERP in Practice", Tata McGraw-Hill, Noida.
- 3. MahadeoJaiswal and Ganesh Vanapalli (2009), "ERP", Macmillan India, Noida.

Books for reference:

- 1. Sinha P. Magal and Jeffery Word (2012), "Essentials of Business Process and Information System", Wiley India, USA.
- 2. Summer (2008), "ERP", Pearson Education, Noida.
- 3. Vinod Kumar Grag and N.K. Venkitakrishnan (2006), "ERP- Concepts and Practice", Prentice Hall of India, New Delhi.

Web references:

- 1. https://mrcet.com/downloads/digital_notes/CSE/III%20Year/ERP%20Digital% 20notes.pdf
- 2. https://mrcet.com/downloads/digital_notes/ME/III%20 year/ERP%20Complete%20Digital%20notes.pdf
- 3. https://www.vssut.ac.in/lecture_notes/lecture1428643004.pdf

Pedagogy :

Chalk and Talk , PowerPoint Presentation, Group Discussion, Student Seminar ,Spot Test Practical Labs , Assignments , Quiz.

Rationale for Nature of Course: To learn about data storage techniques and query processing Students will gain knowledge of PL/SQL systems by doing programs.

Activities to be Given : Practice to Create own programs, Group Discussion, Seminar.

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge Level
CLO1	Recall the history and growth of ERP	Upto K4
CLO2	Appraise the risks involved while using ERP	Upto K4
CLO3	Select from among various ERP technologies	Upto K4
CLO4	Analyse the dynamics of ERP marketplace	Upto K5
CLO5	Distinguish and choose appropriate ERP solutions or	Upto K5
	packages	

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented - Solving Problems

K4 - Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	2	1	2	2	3	3
CLO2	3	3	2	3	3	3
CLO3	3	3	2	3	3	3
CLO4	3	3	2	3	3	3
CLO5	3	3	2	3	3	3
1 - Basic Level		2- Intermediat	e Level	3-Advan	ce Level	

Basic Level

2- Intermediate Level

3-Advance Level

LESSON PLAN : 75 hrs

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
Ι	Business Functions and Business Processes - Integrated Management Information - Business Modelling - Integrated Data Model. Business Processes: Major Business Processes. Introduction to ERP: Common ERP Myths - A Brief History of ERP - Reasons for the Growth of ERP Market - Advantages of ERP.	15	Chalk & Talk , Spot Test, Demo Coding
Π	People Issues - Process Risks - Technological Risks - Implementation Issues-Operation and Maintenance Issues - Unique Risks of ERP Projects - Managing Risks on ERP Projects. Benefits of ERP: Information Integration - Reduction of Lead Time - On-Time Shipment - Reduction in Cycle Time - Improved Resource Utilization - Better Customer Satisfaction - Improved Supplier Performance - Increased Flexibility - Reduced Quality Costs - Better Analysis and Planning Capabilities - Improved Information Accuracy and Decision Making Capability - Use of Latest Technology.	15	Chalk & Talk , Spot Test, Demo Coding
III	Business Process Reengineering (BPR) - Business Intelligence (BI) - Business Analytics (BA) - Data Warehousing- Data Mining - On - Line Analytical Processing (OLAP) - Product Life Cycle Management (PLM) - Supply Chain Management (SCM) - Customer Relationship Management (CRM) - Geographic Information Systems (GIS) - Intranets and Extranets. Advanced Technology and ERP Security: Technological Advancements - Computer Crimes - ERP and Security - Computer Security - Crime and Security.	15	Chalk & Talk , Spot Test, Demo Coding
IV	Market Overview - ERP Market Tiers. Market Place Dynamics - Industry - Wise ERP Market Share - ERP: The Indian Scenario. Business Modules of an ERP Package: Functional Modules of ERP Software: Integration of ERP, Supply Chain, and Customer Relationship Applications.	15	Chalk & Talk , Spot Test, Demo Coding

Challenges.ERPImplementationLifeCycle:Talk , SpotObjectives of ERP Implementation - Different Phases of ERP Implementation- Reasons for ERP Implementation Failure.15Talk , Spot Test, Demo Coding15	V	Benefits of Implementing ERP - Implementation		Chalk &
Selection Process - ERP Packages: Make or Buy.		Challenges. ERP Implementation Life Cycle: Objectives of ERP Implementation - Different Phases of ERP Implementation- Reasons for ERP Implementation Failure. ERP Package Selection:	15	Talk , Spot Test, Demo

Course Designer : Mrs.S.Nivithitha

]	[M.C	om (CA)
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours	CIA	SE	Total
	51				/week			
Ι	Elective – II	230PCCADSE 1D	Database Management System	3	5	25	75	100

Nature of the Course					
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented			
\checkmark	✓				

- 1. To introduce the basic concepts of Relational Database Management System and the working knowledge of Linux environment
- 2. To understand designing databases and queries in SQL
- 3. To learn RDBMS
- 4. To upskill the functions and operators
- 5. To understand the constraints, locks and MySQL

Course Content:

UNIT : I - Introduction to Database Systems and Linux

Introduction to File and Database systems Database System Structure - Data Models Introduction to Network Models: ER Model, Relational Model - Introduction to Linux Operating System - Properties of Linux - Desktop Environment - Linux basics commands -Working with Files - Text Editors - I/O Redirections - Pipes, Filters, and Wildcards -Changing Access Rights.

UNIT : II - SQL Definition and Normalization

SQL – Data Definition - Queries in SQL - Updates - Views - Integrity and Security. Relational Database design – Functional dependences and Normalization for relational databases (up to BCNF) - Query Forms

UNIT : III - Files and RDBMs

Record Storage and Primary File Organization - Secondary Storage Devices - Operations on Files - Heap File - Sorted Files - Hashing Techniques - Index Structure for Files -Different Types of Indexes - B-Tree - B+Tree - Query Processing - Multimedia Databases - Basic Concepts and Applications - Indexing and Hashing - Text Databases - Overview of RDBMs - Advantages of RDBMs over DBMs – Introduction to Data Mining.

UNIT : IV - Data Definition and Manipulation Language

Data Definition Language - Data Manipulation Language - Transaction Control - Data Control Language Grant - Revoke Privilege Command - Set Operators - Joins- Kinds of Joins - Table Aliases - Sub queries - Multiple and Correlated Sub Queries - Functions -Single Row - Date, Character, Numeric, Conversion and Group Functions

UNIT : V - Constraints and MYSQL

Constraints - Domain, Equity, Referential Integrity Constraints - Locks - Types of Locks, Table Partitions - Synonym - Introduction to PL/SQL - Introduction - MySQL as an RDBMS Tool - Data types and Commands.

Books for study:

- 1. Ramakrishnan Raghu and Gehrke Johannes, "Database Management Systems", McGraw-Hill, USA.
- 2. Rajendra Prasad Mahapatra and GovindVerma, "Database Management System", Khanna Publications, New Delhi.

Books for reference:

- 1. Ramon A Mata-Toledo and Pauline K Cushman, "Database Management System", Schaun's Outlines, New York.
- 2. Abraham Silberschatz, Henry F Korth and S. Sudarshan, "Database System Concepts" McGraw–Hill, USA.

Web references:

1. http://education-portal.com/academy/lesson/what-is-a-database-management-

systempurpose-and-function.html.

- 2. http://www.comptechdoc.org/os/linux/usersguide/linux_ugbasics.html.
- 3. http://www.dummies.com/how-to/content/common-linux-commands.html.

Pedagogy :

Chalk and Talk , PowerPoint Presentation, Group Discussion, Student Seminar ,Spot Test Practical Labs , Assignments , Quiz.

Rationale for Nature of Course: To learn about data storage techniques and query processing Students will gain knowledge of PL/SQL systems by doing programs.

Activities to be Given : Practice to Create own programs, Group Discussion, Seminar.

CLOs	Course Outcomes	Knowledge Level
CLO1	Identify models and schemas in DBMS and LINUX	Upto K4
CLO2	Demonstrate Queries in SQL	Upto K4
CLO3	Discuss handling files and databases	Upto K4
CLO4	Apply skills on functions and operators in RDBMS	Upto K5
CLO5	Apply constraints and locks in SQL	Upto K5

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

K1- Remembering and recalling facts with specific answers

- K2- Basic understanding of facts and stating main ideas with general answers
- K3– Application oriented Solving Problems
- K4 Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	2	3	3	3	2	2
CLO2	3	3	2	3	3	3
CLO3	1	2	2	2	1	2
CLO4	3	3	3	3	3	3
CLO5	3	3	3	3	1	2
1 - Basic I	Level	2- Intermediate Level 3-Advance Level				

1 - Basic Level

LESSON PLAN : 75 hrs

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
Ι	Introduction to File and Database systems Database System Structure - Data Models Introduction to Network Models: ER Model - Relational Model - Introduction to Linux Operating System - Properties of Linux - Desktop Environment - Linux basics commands - Working with Files - Text Editors - I/O Redirections - Pipes, Filters, and Wildcards - Changing Access Rights.	15	Chalk & Talk , Spot Test, Demo Coding
II	SQL – Data Definition - Queries in SQL - Updates - Views - Integrity and Security - Relational Database design - Functional dependences and Normalization for relational databases (up to BCNF) - Query Forms.	15	Chalk & Talk , Spot Test, Demo Coding
III	Record Storage and Primary File Organization - Secondary Storage Devices - Operations on Files - Heap File - Sorted Files - Hashing Techniques - Index Structure for Files - Different Types of Indexes - B-Tree - B+Tree - Query Processing - Multimedia Databases - Basic Concepts and Applications - Indexing and Hashing - Text Databases - Overview of RDBMs - Advantages of RDBMs over DBMs – Introduction to Data Mining.	15	Chalk & Talk , Spot Test, Demo Coding
IV	Data Definition Language - Data Manipulation Language - Transaction Control - Data Control Language Grant - Revoke Privilege Command - Set Operators - Joins- Kinds of Joins - Table Aliases - Sub queries - Multiple and Correlated Sub Queries - Functions - Single Row - Date, Character, Numeric, Conversion and Group Functions	15	Chalk & Talk , Spot Test, Demo Coding
V	Constraints - Domain, Equity, Referential Integrity Constraints - Locks - Types of Locks - Table Partitions - Synonym - Introduction to PL/SQL – Introduction - MySQL as an RDBMS Tool - Data types and Commands.	15	Chalk & Talk , Spot Test, Demo Coding

Course Designer : Mrs.S.Chitradevi

	I M.Com (CA)								
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours	CIA	SE	Total	
					/week				
Π	Core –IV	23OPCCA21	Strategic Cost Management	5	6	25	75	100	

Nature of the Course					
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented			
\checkmark	✓				

- 1. To analyse the aspects of strategic and quality control management
- 2. To analyse and select cost control techniques
- 3. To apply activity based costing for decision making
- 4. To utilise transfer pricing methods in cost determination
- 5. To apply cost management techniques in various sectors

Course Content:

UNIT : I - Introduction to Strategic Cost Management

Introduction to Strategic Cost Management (SCM) – Need for SCM – Differences between SCM and Traditional Cost Management - Value Chain Analysis: Meaning and steps - Quality Cost Management: Meaning of Quality and Quality Management – Cost of Quality –Indian Cost Accounting Standard 21 on Quality Control - Introduction to Lean System – Benefits of Lean System – Just in Time (JIT) – Kaizen Costing.

UNIT : II - Cost Control and Reduction

Cost Management Techniques: Cost Control: Meaning and Prerequisites - Cost Reduction: Meaning and Scope – Differences between Cost control and cost reduction - Pareto Analysis: Meaning, importance and applications - Target Costing: Meaning, steps and Principles – Life Cycle Costing: Meaning, Strategies for each stage of product life cycle, Benefits – Learning Curve: Meaning, Learning curve ratio and applications.

UNIT : III - Activity Based Cost Management

Activity Based Cost Management: Concept, Purpose, Stages, Benefits, Relevance in Decision making and its Application in Budgeting – Practical problems.

UNIT : IV - Transfer Pricing

Transfer Pricing: Meaning, Benefits, Methods: Pricing based on cost, Market price on transfer price, Negotiated pricing and Pricing based on opportunity costs – Practical Problems.

UNIT : V - Cost Management in Agriculture and IT sector

Agriculture Sector: Features, Cost Structure, Cost Management, Tools to measure the performance, Minimum Support Price and International Perspective – Information

Technology Sector: Features, Cost Structure, Cost Management and International Perspective.

Books for study:

- 1. Ravi M Kishore (2018), "Strategic Cost Management", 5th Edition, Taxmann Publications Pvt. Ltd, New Delhi.
- 2. Bandgar P. K., (2017), "Strategic Cost Management", 1stEdition, Himalaya Publishing House Pvt Ltd, Mumbai.
- 3. Sexena V. K., (2020), "Strategic Cost Management and Performance Evaluation", 1st Edition, Sultan Chand & Sons, New Delhi

Books for reference:

- 1. John K Shank and Vijay Govindarajan(2008), Strategic Cost Management, Simon & Schuster; Latest edition, UK
- 2. JawaharLal, (2015), "Strategic Cost Management", 1st Edition, Himalaya Publishing House Pvt Ltd, Mumbai.)
- 3. Arora M. N., (2021), "A Text Book of Cost and Management Accounting", 11th Edition, Vikas Publishing House Pvt. Ltd., New Delhi.

Web references:

- 1. <u>https://www.accountingtools.com/articles/strategic-cost-management.html#:~:text=</u> <u>Strategic%20cost%20management%20is%20the,it%20or%20have%20no%20impact</u>.
- 2. <u>https://ca-final.in/wp-content/uploads/2018/09/Chapter-4-Cost-Management-</u> <u>Techniques.pdf</u>
- 3. https://resource.cdn.icai.org/66530bos53753-cp5.pdf

Pedagogy :

Chalk and Talk, PPT, group discussion, OHP presentations, quiz, on the spot test

Rationale for Nature of Course: Can be cost controller, financial consultants, chief accountant and internal auditors

Activities to be Given : Assign the cost to the products and calculating the efficiency of the cost usage.

CLOs	Course Outcomes	Knowledge
		Level
CLO1	Discuss strategic cost management and QC	Upto K4
CLO2	Choose the appropriate technique for cost control	Upto K4
CLO3	Utilise activity based costing in practice	Upto K4
CLO4	Adopt transfer pricing methods	Upto K5
CLO5	Build cost structure for Agriculture and IT sector	Upto K5

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3– Application oriented – Solving Problems

K4 -Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (PC))

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	3	3	3	3	3	3
CLO2	3	3	2	3	3	3
CLO3	3	3	2	3	3	3
CLO4	3	3	2	3	3	3
CLO5	3	3	1	3	3	3

1 - Basic Level

2- Intermediate Level

3-Advance Level

LESSON PLAN : 90 hrs

UNI TS	DESCRIPTION	No. of Hours	Mode of Teaching
Ι	Introduction to Strategic Cost Management (SCM) – Need for SCM – Differences between SCM and Traditional Cost Management - Value Chain Analysis: Meaning and steps - Quality Cost Management: Meaning of Quality and Quality Management – Cost of Quality - Indian Cost Accounting Standard 21 on Quality Control - Introduction to Lean System – Benefits of Lean System – Just in Time (JIT) – Kaizen Costing.	18	Chalk & Talk , Spot Test, Demo Coding
Π	Cost Management Techniques: Cost Control: Meaning and Prerequisites - Cost Reduction: Meaning and Scope - Differences between Cost control and cost reduction - Pareto Analysis: Meaning, importance and applications - Target Costing: Meaning, steps and Principles - Life Cycle Costing: Meaning, Strategies for each stage of product life cycle, Benefits – Learning Curve: Meaning, Learning curve ratio and applications.	18	Chalk & Talk , Spot Test, Demo Coding
III	Activity Based Cost Management: Concept, Purpose, Stages, Benefits - Relevance in Decision making and its Application in Budgeting - Practical problems.	18	Chalk & Talk , Spot Test, Demo Coding
IV	Transfer Pricing: Meaning, Benefits, Methods: Pricing based on cost - Market price on transfer price, Negotiated pricing and Pricing based on opportunity costs - Practical Problems.	18	Chalk & Talk , Spot Test, Demo Coding
V	Agriculture Sector: Features, Cost Structure, Cost Management, Tools to measure the performance - Minimum Support Price and International Perspective - Information Technology Sector: Features, Cost Structure, Cost Management and International Perspective.	18	Chalk & Talk , Spot Test, Demo Coding

Course Designer : Mrs.D.Reena

	I M.Com (CA)								
Sem	Course	Course Code	Course Title	Credits	Contact	CIA	SE	Total	
	Туре				Hours				
					/week				
II	Core –V	230PCCA22	Corporate						
			Accounting	5	6	25	75	100	

Nature of the Course				
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented		
✓	\checkmark			

- 1. To understand the accounting treatment for issue of shares
- 2. To determine profits for fire and marine insurance
- 3. To prepare consolidated financial statements
- 4. To account for price level changes
- 5. To adopt financial reporting standards

Course Content:

UNIT : I - Issue of Shares and Final Accounts of Companies

Issue of Shares: ESOPs - ESPS - Sweat Equity Shares - Book Building- Buy-back of Shares - Conversion of debentures into shares - Final accounts of Companies as per Schedule III of the Companies Act, 2013 – Managerial remuneration.

UNIT : II - Insurance Company Accounts

Insurance Company Accounts: Types of Insurance - Final accounts of life assurance Companies- Ascertainment of profit- Valuation Balance Sheet-Final accounts of Fire, Marine and miscellaneous Insurance Companies.

UNIT : III - Consolidated financial statements

Consolidated financial statements as per AS 21: Consolidated Profit and Loss Account – Minority interest – Cost of control – Capital reserve – Inter-company holdings – Preparation of consolidated Balance Sheet.

UNIT : IV - Contemporary Accounting Methods

Accounting for price level changes – Social responsibility accounting – Human resource accounting - Forensic Accounting.

UNIT : V - Financial reporting

Financial reporting: Meaning, Objectives, Characteristics – Indian Accounting Standards (AS 5, AS 10, AS 19, AS 20) – Corporate Social Responsibility: Meaning, Key provisions of Companies Act, 2013, Accounting for CSR expenditure, Reporting of CSR, Presentation and disclosure in the financial statements.

Books for study:

- 1. Gupta R. L. &Radhaswamy M. (2021), "Corporate Accounting Volume I & II", 14thEdition, Sultan Chand &Sons, New Delhi.
- Maheshwari S. N., Sharad K. Maheshwari&Suneel K. Maheshwari, (2022), "Advanced Accountancy - Volume I &II", 11thEdition, Vikas PublishingHouse Pvt. Ltd., New Delhi.
- Jain S. P., Narang K. L., SimmiAgrawal and Monika Sehgal (2019), "AdvancedAccountancy - Corporate Accounting – Volume - II", 22ndEdition, KalyaniPublishers, New Delhi.
- **4.** Reddy T. S. &Murthy A., (2022), "Corporate Accounting Volume I &II", 17th Edition, Margham Publications, Chennai.

Books for reference:

- 1. ArulanandamM.A&Raman K.S., (2021), "Advanced Accounting (Corporate Accounting II)", 8thEdition, Himalaya Publishing House Pvt Ltd, Mumbai.
- 2. Shukla M C, Grewal T S and Gupta S C, (2022), "Advanced Accounts Volume II",19thEdition, Sultan Chand &Sons, New Delhi.
- 3. Gupta R. L., (2022), "Problems and Solutions in Company Accounts", 2ndEdition,Sultan Chand &Sons, New Delhi.

Web references:

- 1. https://resource.cdn.icai.org/66550bos53754-p1-cp9.pdf
- 2. https://resource.cdn.icai.org/66545bos53754-p1-cp4.pdf
- 3. https://resource.cdn.icai.org/66638bos53803-cp1.pdf
- 4. htt<u>tp://ppup.ac.in/download/econtent/pdf/MBA%201st%20sem%20Lecture%20not</u> <u>e%20on</u>%20forensic%20accounting%20by%20Anjali.pdf

Pedagogy :

Chalk and Talk, PPT, group discussion, OHP presentations, quiz, on the spot test

Rationale for Nature of Course: Make the students to prepare the process of company's financial transcations.

Activities to be Given : Prepare the financial transactions and activities of a branded company.

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge
		Level
CO1	Prepare Financial Statements of companies as per	Upto K4
	schedule III of Companies Act,2013	
CO2	Apply the provisions of IRDA Regulations, 2002 in	Upto K4
	the preparation of final accounts of Life Insurance	
	and General Insurance Companies.	

CO3	Prepare Consolidated Financial Statements of	Upto K4
	Holding Companies in accordance with AS21.	
CO4	Assess contemporary accounting methods	Upto K5
CO5	Examine Financial Reporting based on appropriate	Upto K5
	Accounting Standards and provisions of Companies	
	Act 2013 with respect to Corporate Social	
	Responsibility	

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3– Application oriented – Solving Problems

K4 - Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	3	3	2	3	3	3
CLO2	3	3	3	3	2	3
CLO3	3	3	2	3	3	3
CLO4	3	3	3	3	3	3
CLO5	3	3	3	3	3	3

1 - Basic Level

2- Intermediate Level

3-Advance Level

LESSON PLAN : 90 hrs

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
Ι	Issue of Shares: ESOPs - ESPS - Sweat Equity Shares - Book Building- Buy-back of Shares - Conversion of debentures into shares - Final accounts of Companies as per Schedule III of the Companies Act, 2013 - Managerial remuneration.	18	Chalk & Talk , Spot Test, Demo Coding
Π	Insurance Company Accounts: Types of Insurance - Final accounts of life assurance Companies - Ascertainment of profit- Valuation Balance Sheet - Final accounts of Fire, Marine and miscellaneous Insurance Companies.	18	Chalk & Talk , Spot Test, Demo Coding
III	Consolidated financial statements as per AS 21: Consolidated Profit and Loss Account – Minority interest - Cost of control – Capital reserve – Inter- company holdings - Preparation of consolidated Balance Sheet.	18	Chalk & Talk , Spot Test, Demo Coding
IV	Accounting for price level changes - Social responsibility accounting - Human resource accounting - Forensic Accounting.	18	Chalk & Talk , Spot Test, Demo Coding

Course Designer : Dr.(Mrs).T.Karthiyayini

]	M.C	om (CA)
Sem	Course	Course Code	Course Title	Credits	Contact	CIA	SE	Total
	Туре				Hours			
					/week			
Π	Core –VI	230PCCA23	Setting up of Business Entities	3	5	25	75	100

Nature of the Course				
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented		
\checkmark	\checkmark			

- 1. To understand the startup landscape and its financing
- 2. To analyse the formation and registration of Section 8 company
- 3. To outline the concept of LLP and business collaboration
- 4. To understand the procedure for obtaining registration and license
- 5. To create awareness about the legal compliances governing business entities

Course Content:

UNIT : I - Startups in India

Types of business organisations – Factors governing selection of an organisation - Startups – Evolution – Definition of a Startup – Startup landscape in India – Startup India policy – Funding support and incentives – Indian states with Startup policies – Exemptions for startups – Life cycle of a Startup – Important points for Startups – Financing options available for Startups – Equity financing – Debt financing – IPO – Crowd funding – Incubators - Mudra banks – Successful Startups in India.

UNIT : II - Not-for-Profit Organisations

Formation and registration of NGOs – Section 8 Company – Definition – Features – Exemptions – Requirements of Section 8 Company – Application for incorporation – Trust: Objectives of a trust – Persons who can create a trust – Differences between a public and private trust – Exemptions available to trusts – Formation of a trust - Trust deed – Society – Advantages – Disadvantages – Formation of a society – Tax exemption to NGOs.

UNIT : III - Limited Liability Partnership and Joint Venture

Limited Liability Partnership: Definition – Nature and characteristics – Advantages and disadvantages – Procedure for incorporation – LLP agreement – Annual compliances of LLP-Business collaboration: Definition – Types –Joint venture: Advantages and disadvantages – Types – Joint venture agreement - Successful joint ventures in India – Special Purpose Vehicle – Meaning – Benefits – Formation.

UNIT : IV - Registration and Licenses

Registration and Licenses: Introduction - Business entity registration - Mandatory

registration – PAN – Significance – Application and registration of PAN – Linking of PAN with Aadhar –TAN – Persons liable to apply for TAN – Relevance of TAN – Procedure to apply for TAN –GST: Procedure for registration – Registration under Shops and Establishment Act –MSME registration – Clearance from Pollution Control Board – FSSAI registration and license – Trade mark, Patent and Design registration.

UNIT : V - Environmental Legislations in India

Geographical Indication of Goods (Registration and Protection) Act, 1999: Objectives, Salient Features - The Environmental Protection Act, 1986: Prevention, control and abatement of environmental pollution - The Water (Prevention And Control of Pollution) Act, 1974: The Central and State Boards for Prevention and Control of Water Pollution -Powers and Functions of Boards - Prevention and Control of Water Pollution - Penalties and Procedure- The Air (Prevention and Control of Pollution) Act, 1981: Central and State Boards for The Prevention and Control of Air Pollution - Powers And Functions -Prevention and Control of Air Pollution - Powers And Functions -Prevention and Control of Air Pollution - Penalties and Procedure.

Books for study:

- 1. Kailash Thakur, (2007) "Environment Protection Law and Policy in India", 2nd Edition, Deep & Deep Publication Pvt. Ltd., New Delhi.
- 2. Avtar Singh, (2015), "Intellectual Property Law", Eastern Book Company, Bangalore
- 3. Zad N.S and DivyaBajpai, (2022) "Setting up of Business Entities and Closure" (SUBEC), Taxmann, Chennai
- **4.** AmitVohra&RachitDhingra (2022) "Setting Up Of Business Entities & Closure", 6th Edition, Bharath Law House, New Delhi

Books for reference:

- 1. Setting up of Business Entities and Closure (2021), Module 1, Paper 3, The Institute of Company Secretaries of India, MP Printers, Noida
- 2. The Air (Prevention and Control of Pollution) Act, 1981, Bare Act, 2022 Edition, Universal/LexisNexis, Noida
- 3. The Water (Prevention and Control of Pollution) Act, 1974, Bare Act, 2022 Edition, Universal/LexisNexis, Noida
- 4. Cliff Ennico, (2005) "Small Business Survival Guide Starting Protecting and Securing your Business for Long-Term Success", Adams Media, USA
- 5. Daniel Sitarz, (2011) "Sole Proprietorship: Small Business Start-up Kit", 3rd Edition, Nova Publishing, USA

Web references:

- 1. <u>https://www.icsi.edu/media/webmodules/FINAL_FULL_BOOK_of_EP_</u> SBEC_2018.pdf
- 2. <u>https://www.mca.gov.in/MinistryV2/incorporation_company.html</u> 3)
- 3. <u>https://legislative.gov.in/sites/default/files/The%20Limited%20Liability%20</u> <u>Partnership%20 A</u>ct,%202008.pdf
- 4. https://legislative.gov.in/sites/default/files/A1999-48.pdf https://www.indiacode.nic.in/bitstream/123456789/6196/1/the_environment_protecti on_act%2C1986.pdf

Pedagogy :

Chalk and Talk, PPT, group discussion, OHP presentations, quiz, on the spot test

Rationale for Nature of Course: To know about the policies and procedures to be followed during setting up of an business entity

Activities to be Given : It Helps the students to start their own new startup companies.

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge Level
CLO1	Build a startup and acquire finance	Upto K4
CLO2	Comply with the legal requirements for Section 8	Upto K4
	Company	
CLO3	Initiate the proceedings for LLP	Upto K4
CLO4	Illustrate the registration and licensing procedure	Upto K5
CLO5	Examine the compliance of regulatory framework	Upto K5

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3– Application oriented – Solving Problems

K4 –Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	3	3	3	3	3	3
CLO2	3	2	2	3	2	3
CLO3	3	3	2	3	3	3
CLO4	3	3	3	3	3	3
CLO5	3	3	3	3	3	3

1 - Basic Level

2- Intermediate Level

3-Advance Level

LESSON PLAN : 90 hrs

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
Ι	Types of business organisations – Factors governing selection of an organisation - Startups – Evolution – Definition of a Startup – Startup landscape in India – Startup India policy - Funding support and incentives – Indian states with Startup policies – Exemptions for startups – Life cycle of a Startup – Important points for Startups - Financing options available for Startups – Equity financing – Debt financing – IPO – Crowd funding – Incubators - Mudra banks – Successful Startups in India.	18	Chalk & Talk , Spot Test, Demo Coding
П	Formation and registration of NGOs – Section 8 Company – Definition – Features – Exemptions – Requirements of Section 8 Company - Application for incorporation – Trust: Objectives of a trust – Persons who can create a trust – Differences between a public and private trust – Exemptions available to trusts - Formation of a trust - Trust deed –Society – Advantages – Disadvantages – Formation of a society – Tax exemption to NGOs.	18	Chalk & Talk , Spot Test, Demo Coding
III	Limited Liability Partnership: Definition – Nature and characteristics – Advantages and disadvantages – Procedure for incorporation - LLP agreement – Annual compliances of LLP- Business collaboration: Definition – Types –Joint venture: Advantages and disadvantages - Types – Joint venture agreement - Successful joint ventures in India – Special Purpose Vehicle – Meaning – Benefits – Formation.	18	Chalk & Talk , Spot Test, Demo Coding
IV	Registration and Licenses: Introduction – Business entity registration – Mandatory registration – PAN – Significance – Application and registration of PAN - Linking of PAN with Aadhar –TAN – Persons liable to apply for TAN – Relevance of TAN – Procedure to apply for TAN –GST: Procedure for registration – Registration under Shops and Establishment Act – MSME registration – Clearance from Pollution Control Board – FSSAI registration and license – Trade mark, Patent and Design registration.	18	Chalk & Talk , Spot Test, Demo Coding

		Annexure-4
Geographical Indication of Goods (Registration and Protection) Act, 1999: Objectives, Salient Features - The Environmental Protection Act, 1986: Prevention, control and abatement of environmental pollution - The Water (Prevention And Control of Pollution) Act, 1974: The Central and State Boards for Prevention and Control of Water Pollution - Powers and Functions of Boards - Prevention and Control of Water Pollution - Penalties and Procedure	18	Chalk & Talk , Spot Test, Demo Coding

- The Air (Prevention and Control of Pollution	n) Act,	
1981: Central and State Boards for The Prev	rention	
and Control of Air Pollution - Powers And Fur	octions	
- Prevention and Control of Air Pollution - Pe	nalties	
and Procedure.		

Course Designer : Mrs.B.Lalithasubanam

V

]	[M.C	om (CA)
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours	CIA	SE	Total
					/week			
II	Elective – III	230PCCADSE2 A	Data Mining and Data Interpretation	3	5	25	75	100

Nature of the Course					
Knowledge and Skill Oriented Employability Oriented Entrepreneurship oriented					
✓	√				

- 1. To understand the basic concepts, principles and need of data warehousing
- 2. To gain knowledge on the data warehouse architecture, modelling and its implementation.
- 3. To understand steps in implementing data mart and its various dimensions
- 4. To learn the features, types and challenges of data mining
- 5. To aid the students to understand the various data mining tools and techniques

Course Content:

UNIT : I - Data Warehouse

Definition - history of data warehouse - features of data warehouses - characteristics of data warehouse - goals of data warehousing- principles of data warehousing - need for data warehouse - benefits of data warehouse - need for separate data warehouse - difference between database and data warehouse - applications of data warehouses - components of data warehouse- data staging component.

UNIT : II - Data Warehouse Architecture

Data warehouse architecture - properties of data warehouse architectures - types of data warehouse architectures- three-tier data warehouse architecture - ETL (extract, transform, and load) process - selecting an ELT tool- Difference between ETL and ELT types of data warehouses - data warehouse modelling - data modelling life cycle - types of datawarehouse models- data warehouse design - data warehouse implementation-implementation guidelines - meta data - necessary of metadata in data warehouses - types of metadata- metadata repository - benefits of metadata repository.

UNIT : III - Data Mart

Data Mart- Reasons for creating a data mart- Types of Data Marts- Steps in Implementing a Data Mart- Difference between Data Warehouse and Data Mart. - Dimensional Modeling-Objectives of Dimensional Modeling- Advantages of Dimensional Modeling -Elements of Dimensional Modeling - Dimension Table- Multidimensional Data Model-Data Cube.

UNIT : IV - Data Mining

Definition - History of Data Mining- Features of Data Mining - Types of Data Mining - Data Mining Vs Data Warehousing- Advantages and Disadvantages of Data Mining - Data

Mining Applications - Challenges of Implementation in Data mining - Steps involved in Data Mining - Classification of Data Mining Systems.

UNIT : V - Data Mining Tools & Techniques

Data Mining Implementation Process - Data Mining Architecture - Clustering in Data Mining - Different types of Clustering - Text Data Mining - Bitcoin Data Mining - Data Mining Vs Big Data - Data Mining Models - Trends in Data Mining.

Books for study:

- 1. Jiawei Han, MichelineKamber (2011), Data Mining, Concepts and Techniques, Morgan Kauffman Publishers, California.
- 2. Pang Ning Tan, Michael Steinbach, Vipin Kumar (2005), Introduction to Data Mining, Addison Wesley, USA.
- **3.** K.P. Soman, ShyamDiwakar, V. Ajay (2006), Insight into Data Mining: Theory & Practice, Prentice Hall of India, New Delhi.

Books for reference:

- 1. BPB Editorial Board (2004), "Data Mining", BPB publications, Noida.
- 2. Ian H. Witten &Eibe Frank (2011), "Data Mining, Practical Machine Learning Tools and Techniques", Morgan Kaufmann series.
- 3. Ramesh Sharda, DursunDelen, Efraim Turban (2018), "Business Intelligence", Pearson Education Services Pvt Ltd, Noida.

Web references:

- 1. https://mrcet.com/downloads/digital_notes/ME/III%20 year/ERP%20 Complete%20Digital%20notes.pdf
- https://mrcet.com/pdf/Lab%20Manuals/IT/DATA%20WAREHOUSING%20AND % 020DATA%20MINING%20(R18A0524).pdf00

Pedagogy :

Chalk and Talk, PowerPoint Presentation, Group Discussion, Student Seminar, Spot Test, Practical Labs, Assignments, Quiz.

Rationale for Nature of Course: To learn about data warehouse and data mining techniques. Students will gain knowledge on database searching, inferring data relationships.

Activities to be Given : Practice the students to do mini projects related to product and price comparison, image caption related to data mining.

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge Level
CLO1	Explain the basic concepts, principles and need of data warehousing	Upto K4
CLO2	Appraise data warehouse architecture, modelling and its implementation.	Upto K4
CLO3	Choose various steps in implementing data mart and its dimensions	Upto K4
CLO4	Recall the features and types of data mining	Upto K5
CLO5	Apply various data mining tools and techniques	Upto K5

K1- Remembering and recalling facts with specific answers

- K2- Basic understanding of facts and stating main ideas with general answers
- K3– Application oriented Solving Problems
- K4 –Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	1	1	1	1	2	3
CLO2	2	3	2	2	2	3
CLO3	3	3	3	3	3	3
CLO4	3	3	3	3	3	3
CLO5	3	3	3	3	3	3

- 1 Basic Level
- 2- Intermediate Level

3-Advance Level

LESSON PLAN : 75 hrs

UNI	DESCRIPTION		
TS		No. of	Mode of
Ι	Definition - history of data warehouse - features of data warehouses - characteristics of data warehouse - goals of data warehousing - principles of data warehousing - need for data warehouse - benefits of data warehouse - need for separate data warehouse - difference between database and data warehouse - applications of data warehouses - components of data warehouse- data staging component	Hours	Teaching Chalk & Talk, Spot Test, Demo Coding

Π	Data warehouse architecture - properties of data warehouse architectures - types of data warehouse architectures- three-tier data warehouse architecture - ETL (extract, transform, and load) process - selecting an ELT tool- Difference between ETL and ELT types of data warehouses - data warehouse modelling - data modelling life cycle - types of data warehouse models- data warehouse design - data warehouse implementation - implementation guidelines - meta data - necessary of metadata in data warehouses - types of metadata- metadata repository - benefits of metadata repository.	15	Chalk & Talk, Spot Test, Demo Coding
III	Data Mart- Reasons for creating a data mart- Types of Data Marts- Steps in Implementing a Data Mart- Difference between Data Warehouse and Data Mart - Dimensional Modeling-Objectives of Dimensional Modeling- Advantages of Dimensional Modeling - Elements of Dimensional Modeling - Dimension Table- Multidimensional Data Model-Data Cube.	15	Chalk & Talk, Spot Test, Demo Coding
IV	Definition - History of Data Mining- Features of Data Mining - Types of Data Mining - Data Mining Vs Data Warehousing- Advantages and Disadvantages of Data Mining - Data Mining Applications - Challenges of Implementation in Data mining - Steps involved in Data Mining - Classification of Data Mining Systems.	15	Chalk & Talk, Spot Test, Demo Coding
V	Data Mining Implementation Process - Data Mining Architecture - Clustering in Data Mining - Different types of Clustering - Text Data Mining - Bitcoin Data Mining - Data Mining Vs Big Data - Data Mining Models - Trends in Data Mining.	15	Chalk & Talk, Spot Test, Demo Coding

Course Designer : Mrs.M.Sharmiladevi

]	[M.C	om (CA)
Sem	Course	Course Code	Course Title	Credits	Contact	CIA	SE	Total
	Туре				Hours			
					/week			
II	Elective – III	230PCCADSE2	Technology	2	5	25	75	100
		250FCCADSE2	In Banking	- 3	5	25	15	100
		В						

Nature of the Course					
Knowledge and Skill Oriented Employability Oriented Entrepreneurship oriented					
\checkmark	\checkmark				

- 1. To understand the network essentials for an operational core banking system
- 2. To provide an overview of customer centric electronic banking.
- 3. To understand the evolution of electronic fund transfer systems in the banking sector
- 4. To analyse the digital technologies offered in banking services.
- 5. To understand the information security system

Course Content:

UNIT : I - Introduction to Core Banking Computerization

EssentialsofBankComputerization–StandAloneandMulti-UserSystem–LocalAreaNetwork and Wide Area Network: Features, Advantages and Limitations – Core Banking:EssentialRequirementsandBenefits.

UNIT : II - Electronic Payment System and Banking Facilities

ElectronicPaymentSystems-ATM:Features-Advantages-Disadvantages-BrownLabe land White ATM. PIN, Electro Magnetic Cards, Credit Cards, Label Debit Cards and SmartCards:Features,BenefitsandLimitations-MultiplePininSmartCard ElectronicPurse _ ElectronicCheque – ElectronicCash – ElectronicBanking – HomeBanking(CorporateandPersonal) – Update Facilities - Internet Banking - Mobile Banking: Features, Advantages and Limitations -Signature Storage and Retrieval System - Cheque Truncation - MICR and OCR: Characteristics-AdvantagesandLimitations.

UNIT : III - Electronic Fund Transfer and Its Transitions

Electronic Fund Transfer System – Electronic Credit and Debit Clearing – NEFT, RTGS,VSAT, SFMS,SWIFT:Features,AdvantagesandLimitations–DigitalSignature -UnifiedPayments Interface(UPI):Concept,MechanismandServicesCovered – DigitalWallets (E-Wallets):Features,BenefitsandTypes.

UNIT : IV - Trends in Banking Technology

Recent Developments in Banking Technology: Digital Account Opening – Application Programming Interface – Video Collaboration – Person-to-Person Payments – Cloud Computing – NUUP (National Unified USSD Platform), AePS (Aadhaar enabled Payment System) –APBS (Aadhaar Payments Bridge System) - Role of IDBRT (Institute of Development and Research in Banking) in banking technology development - Status of E-banking in India - Process of E-Banking - Benefits of E-banking - Emerging challenges in banking industry - Scope of IT to tackle the key challenges.

UNIT : V - Information Security System

Information security - Software based security systems - Hardware based security systems (smart card, M chip) – Hackers: Techniques used by the hackers, Phishing, Pharming, Key loggers, Screen loggers, Phishing - Trojans transaction poisoning - Card related fraud - Site cloning – False merchant site - Authentication methodologies and security measures (Password protection - Smart cards - Biometric characteristics) - Encryption and security - Customer confidentiality - Regulatory environment of internet banking - Legal Framework for Electronic Transactions – Cyber security as per Information Technology Act, 2000 – RBI Guideline son Internet Banking.

Books for study:

- 1. SangeethaR,(2013) "Technology in Banking", 1st Edition, Charulatha Publications, Chennai.
- 2. Sohani, A K, (2012) "Technology in Banking Sector", SBS Publishers and Distributors Pvt Ltd, New Delhi.
- 3. Uppal R K and Dhiraj Sharma, (2017) "Banking with Technology: A New Vision 2020", Bharti Publication, New Delhi
- **4.** Indian Institute of Banking and Finance, (2017) "Information Technology, Data Communications and Electronic Banking", 3rd Edition, Macmillan Publishers India Private Limited, Noida.

Books for reference:

- Vadlamani Ravi, (2007) "Advances in Banking Technology and Management: Impacts of ICT and CRM", 1st Edition, Information Science Reference, Hershey, (USA).
- 2. Lucian Morrisand Tim Walker, (2021) "The Handbook of Banking Technology", John Wiley & Sons, New York.
- 3. Indian Institute of Banking and Finance, (2017), "Security in Electronic Banking", 3rd Edition, Macmillan Publishers India Private Limited, Noida.
- 4. Uppal R.K., AgrimUppal(2008) "Banking Services and Information Technology: The Indian Experience", New Century Publications, New Delhi.

Web references:

- 1. https://rbidocs.rbi.org.in/rdocs/Bulletin/PDFs/64767.pdf
- https://www.researchgate.net/profile/Ravi-Vadlamani/publication/237383828_Chapter_I_Introduction_to_Banking_Technolo gy_and_Management/links/572a89bc08aef7c7e2c4fbc3/Chapter-I-Introduction-to-Banking-Technology-and-Management.pdf
- 3. <u>https://eprocure.gov.in/cppp/rulesandprocs/kbadqkdlcswfjdelrquehwuxcfmijmuixngudufgbuub</u> gubfugbububjxcgfvsbdihbgfGhdfgFHytyhRtMjk4NzY=#:~:text=%5B9th%20June %2C%202000%5D%20An,communication%20and%20storage%20of%20information%2C

Pedagogy :

Chalk and Talk, PowerPoint Presentation, Group Discussion, Student Seminar, Spot Test, Practical Labs, Assignments, Quiz.

Rationale for Nature of Course: To learn about data warehouse and data mining techniques. Students will gain knowledge on database searching, inferring data relationships.

Activities to be Given : Practice the students to do mini projects related to product and price comparison, image caption related to data mining.

Course Learning Outcomes(CLO)

On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge Level
CLO1	Explain the basic concepts, principles and need of data warehousing	Upto K4
CLO2	Appraise data warehouse architecture, modelling and its implementation.	Upto K4
CLO3	Choose various steps in implementing data mart and its dimensions	Upto K4
CLO4	Recall the features and types of data mining	Upto K5
CLO5	Apply various data mining tools and techniques	Upto K5

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3– Application oriented – Solving Problems

K4 –Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	1	1	1	1	2	3
CLO2	2	3	2	2	2	3
CLO3	3	3	3	3	3	3
CLO4	3	3	3	3	3	3
CLO5	3	3	3	3	3	3

1 - Basic Level

2- Intermediate Level

3-Advance Level

LESSON PLAN : 75 hrs

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
Ι	EssentialsofBankComputerization–StandAloneandMulti- UserSystem–LocalAreaNetwork and Wide Area Network: Features, Advantages and Limitations – Core Banking:EssentialRequirementsandBenefits.	15	Chalk & Talk, Spot Test, Demo Coding
Π	ElectronicPaymentSystems-ATM:Features-Advantages- Disadvantages-BrownLabe land White Label ATM, PIN, Electro Magnetic Cards, Credit Cards, Debit Cards and SmartCards:Features,BenefitsandLimitations- MultiplePininSmartCard – ElectronicPurse – ElectronicCheque –ElectronicCash – ElectronicBanking – HomeBanking(CorporateandPersonal) – Update Facilities – Internet Banking – Mobile Banking: Features, Advantages andLimitations – Signature Storage and Retrieval System – Cheque Truncation – MICR and OCR:Characteristics-AdvantagesandLimitations.	15	Chalk & Talk, Spot Test, Demo Coding
III	Electronic Fund Transfer System – Electronic Credit and Debit Clearing – NEFT, RTGS,VSAT, SFMS, SWIFT: Features, Advantages and Limitations–Digital Signature – Unified Payments Interface(UPI): Concept, Mechanism and Services Covered – Digital Wallets (E- Wallets):Features, Benefits and Types.	15	Chalk & Talk, Spot Test, Demo Coding
IV	Recent Developments in Banking Technology: Digital Account Opening – Application Programming Interface – Video Collaboration – Person-to-Person Payments – Cloud Computing – NUUP (National Unified USSD Platform), AePS (Aadhaar enabled Payment System) –APBS (Aadhaar Payments Bridge System) - Role of IDBRT (Institute of Development and Research in Banking) in banking technology development - Status of E-banking in India - Process of E-Banking - Benefits of E-banking - Emerging challenges in banking industry - Scope of IT to tackle the key challenges.	15	Chalk & Talk, Spot Test, Demo Coding

V	Information security - Software based security systems - Hardware based security systems (smart card, M chip) – Hackers: Techniques used by the hackers, Phishing, Pharming, Key loggers, Screen loggers, Phishing - Trojans transaction poisoning - Card related fraud - Site cloning – False merchant site - Authentication methodologies and security measures (Password protection - Smart cards - Biometric characteristics) - Encryption and security - Customer confidentiality - Regulatory environment of internet banking - Legal Framework for Electronic Transactions – Cyber security as per Information Technology Act, 2000 – RBI Guideline son Internet Banking.	15	Chalk & Talk, Spot Test, Demo Coding

Course Designer : Mrs.M.Sharmiladevi

]	M.Co	om (CA)
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours	CIA	SE	Total
					/week			
II	Elective – IV	230PCCADSE2 C	Financial Analytics (Practicals)	3	5	25	75	100

Na	ture of the Course	
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented
\checkmark	√	

- 1. To understand the statistical concepts relating to Probability, decision making under uncertainty and analysis of exploratory data
- 2. To learn the use of regression, time series analysis and building of models using accounting data
- 3. To gain knowledge on R and python programming
- 4. To prepare, analyse and forecast financial statements using cash flow statements
- 5. To gain knowledge on concept, application, and issues in capital budgeting

Course Content:

UNIT : I – Statistical Concepts

Probability, Normal, Lognormal distribution properties, Decision making under uncertainty - Cleaning and pre-processing financial data, Exploratory Data Analysis in Finance.

UNIT : II - Simple Linear Models

Use of Regression in Finance, Building Models using Accounting Data, Understanding stock price behaviour, time series analysis in finance.

UNIT : III - Using R for Analysis of Data

Quick introduction to R and Python, understanding data in finance, sources of data, Using R for analysis of data.

UNIT : IV - Cash Flow Concepts

Cash flow statement – Prepare and Analyse, Modelling and forecasting of financial statements.

UNIT : V - Capital Budgeting

NPV, IRR – Concept, application, and issues, Use of real options for better financial outcomes.

Books for study:

- 1. Azam, M (2012), "Management Information System", McGrawHill Education, Noida.
- 2. Laudon, K., Laudon, J. and Dass, R. (2010), "Management Information Systems -

Managing the Digital Firm", 11th Edition, Pearson, Noida.

3. Murdick, R.G., Ross, J.E. and Claggett, J.R. (2011), "Information Systems for Modern Management", 3rd Edition, PHI, New Delhi.

Books for study:

- 1. Gary Koop, "Analysis of Economic Data", 4th Edition, Wiley, USA.
- **2.** David Ruppert, David S. Matteson, "Statistics and Data Analysis for Financial Engineering: with R examples", Springers, USA.

Web references:

- 1. https://personal.ntu.edu.sg/nprivault/MH8331/financial_risk_analytics.pdf
- 2. https://dynamics.microsoft.com/en-us/finance/what-is-financial-analytics/

Pedagogy :

Chalk and Talk, PowerPoint Presentation, Group Discussion, Student Seminar, Spot Test, Practical Labs , Assignments, Quiz.

Rationale for Nature of Course: To make the students to know about the IT systems and procedures are in line with the organization's objectives, information system managers must be familiar with the business operations and strategy of the organization.

Activities to be Given : It helps the students to make decisions and analyse and interpret the data

CLOs	Course Outcomes	Knowledge Level
CLO1	Analyse decisions under uncertainty and also analyse exploratory	Upto K4
CLO2	Build models using accounting data and analyse using regression and time series tools	Upto K4
CLO3	Apply R and python programming	Upto K4
CLO4	Estimate and analyse financial statements using cash flow statements	Upto K5
CLO5	Select appropriate capital budgeting techniques for decision making	Upto K5

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

K1- Remembering and recalling facts with specific answers

- K2- Basic understanding of facts and stating main ideas with general answers
- K3– Application oriented Solving Problems
- K4 –Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	3	3	1	3	3	2
CLO2	3	3	1	3	3	2
CLO3	3	3	1	3	3	2
CLO4	3	3	1	3	3	2
CLO5	3	3	1	3	3	2

1 - Basic Level

2- Intermediate Level

3-Advance Level

LESSON PLAN : 75 hrs

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
Ι	Probability, Normal, Lognormal distribution properties, Decision making under uncertainty - Cleaning and pre-processing financial data, Exploratory Data Analysis in Finance.	15	Chalk & Talk , Spot Test, Demo Coding
II	Use of Regression in Finance, Building Models using Accounting Data, Understanding stock price behaviour, time series analysis in finance.	15	Chalk & Talk , Spot Test, Demo Coding
III	Quick introduction to R and Python, understanding data in finance, sources of data, Using R for analysis of data.	15	Chalk & Talk , Spot Test, Demo Coding
IV	Cash flow statement – Prepare and Analyse, Modelling and forecasting of financial statements.	15	Chalk & Talk , Spot Test, Demo Coding
V	NPV, IRR – Concept, application, and issues, Use of real options for better financial outcomes.	15	Chalk & Talk , Spot Test, Demo Coding

Course Designer : Mrs.B.Kalyani

]	I M.C	om (CA)
Sem	Course Type	Course Code	Course Title	Credits	Contact Hours	CIA	SE	Total
	турс				/week			
II	Elective –		Management					
	IV	230PCCADSE2	Information System	3	5	25	75	100
		D	System					

Na	ture of the Course	
Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented
\checkmark	\checkmark	

- 1. To understand the basic concept of Information system
- 2. To identify the importance of MIS
- 3. To understand the Functional Management Information System
- 4. To learn the role of system analyst
- 5. To apply the concept of Enterprise Resource Planning

Course Content:

UNIT : I –Information System

Introduction to information system - Management - Structure and Activities - Information needs and sources - Types of management decisions and information need - System classification - Elements of system, input, output, process and feedback.

UNIT : II - Types of Management Information Systems

Transaction Processing Information System - Information system for managers - Intelligence information system - Decision support system - Executive information systems.

UNIT : III - Functional Management Information Systems

Functional Management Information System: Production Information system - Marketing Information Systems - Accounting Information System - Financial Information System -Human Resource Information System.

UNIT : IV - System design and Database

System Analysis and Design: The work of a system analyst - SDLC- System design – Requirement analysis - Data flow diagram - Relationship diagram - Design - Implementation - Evaluation and maintenance of MIS - Database System: Overview of Database - Components - Advantages and disadvantages of database.

UNIT : V - Enterprise Resource Planning

Enterprise Resource Planning (ERP) System - Benefits of the ERP - How ERP is different from conventional packages - Need for ERP - ERP components - Selection of ERP Package - ERP implementation - Customer Relationship management - Organisation&

Types - Decision Making - Data & information - Characteristics & Classification of information - Cost & value of information - Various channels of information and MIS

Books for study:

- 4. Azam, M (2012), "Management Information System", McGrawHill Education, Noida.
- 5. Laudon, K., Laudon, J. and Dass, R. (2010), "Management Information Systems Managing the Digital Firm", 11th Edition, Pearson, Noida.
- 6. Murdick, R.G., Ross, J.E. and Claggett, J.R. (2011), "Information Systems for Modern Management", 3rd Edition, PHI, New Delhi.

Books for reference:

- 1. O'Brien, J.A., Morakas, G.M. and Behl, R. (2009), "Management Information Systems", 9th Edition, Tata McGraw-Hill Education, Noida.
- 2. Saunders, C.S. and Pearson, K.E. (2009), "Managing and Using Information Systems", 3rd Edition, Wiley India Pvt. Ltd., New Delhi.
- 3. Stair, R. and Reynolds, G. (2012), "Information Systems", 10th Edition, Cengage Learning, Noida.

Web references:

- 1. https://cleartax.in/g/terms/mis-meaning-mis-full-form-marketing-informationsystem/amp
- 2. https://www.techtarget.com/searchitoperations/definition/MIS-management-information-systems

Pedagogy :

Chalk and Talk, PowerPoint Presentation, Group Discussion, Student Seminar, Spot Test, Practical Labs, Assignments, Quiz.

Rationale for Nature of Course: To make the students to know about the IT systems and procedures are in line with the organization's objectives, information system managers must be familiar with the business operations and strategy of the organization.

Activities to be Given : It helps the students to make decisions and analyse and interpret the data

Course Learning Outcomes(CLO) On completion of the course, behind the students will be able to:

CLOs	Course Outcomes	Knowledge Level
CL01	Identify the basic concept of Information system	Upto K4
CLO2	Discuss the importance of MIS	Upto K4
CLO3	Explain the functional MIS	Upto K4
CLO4	Describe the role of system analyst	Upto K5

CLO5 Apply the concept of Enterprise resource planning Upto K5

- K1- Remembering and recalling facts with specific answers
- K2- Basic understanding of facts and stating main ideas with general answers
- K3– Application oriented Solving Problems

K4 –Examining, analyzing, presentation and make inferences with evidences

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	1	1	2	2	1	2
CLO2	2	2	2	2	1	2
CLO3	3	3	3	3	1	2
CLO4	3	3	3	3	2	3
CLO5	3	3	3	3	2	3

1 - Basic Level

3-Advance Level

LESSON PLAN : 75 hrs

UNI	DESCRIPTION		
TS		No. of	Mode of
		Hours	Teaching
Ι	Introduction to information system - Management - Structure and Activities - Information needs and sources - Types of management decisions and information need - System classification - Elements of system, input, output, process and feedback.	15	Chalk & Talk , Spot Test, Demo Coding
II	Transaction Processing Information System - Information system for managers - Intelligence information system - Decision support system - Executive information systems.	15	Chalk & Talk , Spot Test, Demo Coding
III	Functional Management Information System: Production Information system - Marketing Information Systems - Accounting Information System - Financial Information System - Human Resource Information System.	15	Chalk & Talk , Spot Test, Demo Coding
IV	System Analysis and Design: The work of a system analyst - SDLC- System design – Requirement analysis - Data flow diagram - Relationship diagram - Design -Implementation - Evaluation and maintenance of MIS - Database System: Overview of Database - Components - Advantages and disadvantages of database.	15	Chalk & Talk , Spot Test, Demo Coding

²⁻ Intermediate Level

Annexure-4

V	Enterprise Resource Planning (ERP) System - Benefits of the ERP - How ERP is different from conventional packages - Need for ERP - ERP components - Selection of ERP Package - ERP implementation - Customer Relationship	15	Chalk & Talk , Spot Test, Demo Coding
	management – Organisation & Types - Decision Making - Data & information - Characteristics & Classification of information - Cost & value of information - Various channels of information and MIS	15	

Course Designer : Mrs.S.Niveethitha

	I M.Com (CA)							om (CA)
Sem	Course	Course Code	Course Title	Credits	Contact	CIA	SE	Total
	Туре				Hours			
					/week			
II	Skill	23OPCCASEC21	Internet &					
	Enhance		Its	2	2	25	75	100
	ment		Applications					
	Course							
	SEC-I							

Nature of the Course

Knowledge and Skill Oriented	Employability Oriented	Entrepreneurship oriented
\checkmark	\checkmark	

Course Objectives:

- 1. Explore the basics of the Internet
- 2. Able to browse Internet using search engines
- 3. Learn how to download files multiple files.
- 4. Study about various types of Protocols
- 5. Send and receive emails through an email account and store and retrieve addresses from the address book

Course Content:

UNIT : I - Internet: An Introduction- Types of Internet Connections: Mobile-WIFI Hotspot-Dial Up-Broad band-DSL-Cable-Satellite-ISDN.

UNIT : II - Internet/Web Browsing: Introduction-What is a browser?-Types of Browser: Google Chrome-Mozilla Firefox-Opera.

UNIT : III - Internet Addressing: What is Internet Addressing?-IP Address-Domain Name-Uniform Resource Locator

UNIT : IV - Internet Protocols: Transmission Control Protocol/ Internet Protocol-File Transfer Protocol-Hyper Text Transfer Protocol

UNIT : V - E-Mail: Introduction-E-mail Messages-Finding E-mail Address Advantages and Disadvantages-E-mail Security.

Book for Study

Alexis Leon, Mathews Leon, *Internet for Everyone*, Leon Tech world, Vikas Publishing House Pvt Ltd, New Delhi, 2019.

Books for Reference

- 1. Douglas E. Comer, *The Internet III Edition*, Pearson Education Ltd, New Delhi, 2015
- 2. Raj Kamal, *Internet and Web Technologies*. Tata Mc Graw Hill Education Pvt. Ltd, New Delhi, 2015.
- 3. Dr. Vaka Murali Mohan, S. Pratap Singh, *The Modern Approach to Web Technologies*, Scitech Publications (India) Pvt Ltd, 2014.

4. Harley Hahn, *The Internet Complete Reference*, Tata McGraw Hill Publications, New Delhi,2000

Web Resources

- 1. <u>https://www.encyclopedia.com/computing/news-wires-white-papers-and-books/internet-applications</u>
- 2. <u>http://oer.nios.ac.in/wiki/oer/ictapplication/internetanditsusage/internet_applications_a_nd_services.html</u>

Pedagogy: Chalk and Talk, Materials, PPT, Assignment, Seminar and Demonstration.

Rationale for nature of Course: Students can able to use Internet frequently and can apply in many internet applications in various ways.

Activities to be given

- 1. The students can identify the different types of browsers by browsing various types of information with its speed.
- 2. Create their own E-mail ID and can apply the security features..

Course Learning Outcome (CLOs)

On completion of the course, behind the students would be able to:

CLOs	Course Learning Outcomes	Knowledge Level (According to Blooms Taxonomy)
CLO 1	Know how the Internet Connection is made and Learn the Internet service features.	UptoK4
CLO 2	Learn about browser and its types.	UptoK4
CLO 3	Internet Addressing with Domain name and URL.	UptoK4
CLO 4	Study Internet protocol with IP Address.	UptoK5
CLO 5	Understand about E-mail and finding E-mail Address.	UptoK5

K1- Remembering facts with specific answers

K2- Basic understanding of facts.

K3- Application oriented

K4- Analyzing, examining, and making presentations with evidences.

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs)

	CLOs	PO1	PO2	PO3	PO4	PO5	PO6	
	CLO1	2	2	2	2	2	1	
	CLO2	3	2	3	3	2	2	
	CLO3	2	3	3	2	3	2	
	CLO4	2	2	2	3	2	3	
	CLO5	2	2	3	2	2	2	
1	- Basic Le	evel	2- Intermediate Level			3-Advance Level		

UNI	DESCRIPTION		
TS		No. of Hours	Mode of Teaching
Ι	Internet: An Introduction- Types of Internet Connections: Mobile - WIFI Hotspot-Dial Up-Broad band-DSL - CableSatellite-ISDN.	6	Chalk & Talk , Spot Test, Demo Coding
Π	Internet/Web Browsing: Introduction- What is a browser? - Types of Browser: Google Chrome - Mozilla Firefox- Opera.	6	Chalk & Talk , Spot Test, Demo Coding
III	Internet Addressing: What is Internet Addressing? - IP Address-Domain Name - Uniform Resource Locator.	6	Chalk & Talk , Spot Test, Demo Coding
IV	Internet Protocols: Transmission Control Protocol - Internet Protocol-File Transfer Protocol - Hyper Text Transfer Protocol	6	Chalk & Talk , Spot Test, Demo Coding
V	E-Mail: Introduction-E-mail Messages - Finding E-mail Address Advantages and Disadvantages - E-mail Security.	6	Chalk & Talk , Spot Test, Demo Coding

LESSON PLAN : 30 hrs

Course Designer : Mrs.A.Kavitha