P.K.R. ARTS COLLEGE FOR WOMEN

(Re-Accredited with 'A' grade by NAAC)

Autonomous Institution- Affiliated to Bharathiar University, Coimbatore

No.127, Pariyur Road, GOBICHETTIPALAYAM – 638 476.

DEPARTMENT OF COMMERCE

Bachelor of Commerce with

Computer Applications

Syllabus

SCHOLASTIC COURSES

AND

CO-SCHOLASTIC COURSES

for the candidates admitted from the

Academic Year 2024-2025 and onwards

Under CBCS PATTERN

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PG & RESEARCH DEPARTMENT OF COMMERCE
BACHELOR OF COMMERCE WITH CA DEGREE- PROGRAMME STRUCTURE

Category	Components	No. of Courses	Credit(s)/ Course	Total credits	Proposed Semester
Part – I	**Language**	4	3	12	I - IV
Part – II	**English**	4	3	12	I - IV
Part - III	**Core Courses:** A).**Core/Allied/Elective and Open Elective:** (Theory/Practical/Online Exam)	26	2/3/4/5	94	I-VI
	B). Projects: i. Institutional Training	1	1	1	V
Part – IV	**A) Foundation:** i. Environmental Studies ii. Yoga &Ethics	2	2	4	I-II
	B). Non-Major Electives : i. Indian Women and Society / Advanced Tamil	1	2	2	III
	C). Skill Enhancement: i. Ms Excel in Business Application ii. Desktop Publishing iii. Commerce Practical	1 1 1	2 2 2	6	IV V VI
	D). Ability Enhancement : i. Information Security ii. Consumer Rights	1 1	2 **2**	4	III IV
Part-V	**A).Proficiency Enhancement:** 1. Business and Commercial Knowledge (Self study) **B) Competency Enhancement:**	1	2	2	V
	i. NSS/YRC/RRC/CCC/PHY. EDU /Others	1	1	1	I - VI
	ii. Professional Grooming - Life Skills	1	1	1	
	iii. Students Social Activity	1	1	1	

Total Credits: 140   **Total Marks: 3900**

LIST OF ALLIED SUBJECTS

SEMESTER	ALLIED NUMBER	TITLE OF THE PAPER
I	I	E-Banking
II	II	Statistics for Business
III	III	Business Economics
IV	IV	Commercial Law

LIST OF SKILL ENHANCEMENT COURSE

Course Code	Semester	Skill Based Subject Number	Title of the papers	Contact Hours	Contact Hours perweek	Exam Duration	Maximum Marks
24SECCU01	IV	I	Ms-Excel for Business Applications	36	3	3	50
24SECCU02	V	II	Desktop Publishing (Practical)	36	3	3	50
24SECCU03	VI	III	Commerce Practical	36	3	3	50

LIST OF ABILITY ENHANCEMENT PAPERS

SEMESTER	ABILITY ENHANCEMENT SUBJECT NO.	TITLE OF THE PAPER
III	I	Information Security
IV	II	Consumer Rights

LIST OF ELECTIVE PAPERS
(Choose any one paper as Elective)

ELECTIVES	TITLE OF THE PAPER
ELECTIVE I: (Semester V)	
A	Entrepreneurial Development programme
B	Business Finance
C	Application of IT in Commerce
ELECTIVE II: (Semester VI)	
A	Project Management
B	Working Capital Management
C	Web Designing with PHP
ELECTIVE III: (Semester VI)	
A	Women in Business
B	Export Finance
C	Project Work and Viva voce

EXTRA CREDIT COURSES (Self-study courses):

1. Courses offered by parent department for ALL STUDENTS OF THE PROGRAMME

2. Courses offered by parent department for ADVANCED LEARNERS OF THE PROGRAMME

3. Courses offered in a department under PART-III for STUDENTS OF OTHER
   PROGRAMMES – Inter-disciplinary courses

4. Credit transferability for Disciplinary / Inter-disciplinary / Trans-disciplinary / General
   courses offered in UGC SWAYAM MOOCS

5. Comprehension Courses

List of courses offered for ADVANCED LEARNERS ONLY (Self-study)

Course Code	Department	Courses offered for ADVANCED LEARNERS ONLY
21	Department of Commerce	1) Event Management 2) Secretarial Practices 3) Business Legislations 4) E-Governance

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BACHELOR OF COMMERCE WITH COMPUTER APPLICATIONS
Programme Scheme and Scheme of Examinations
(For students admitted from 2024-2025 & onwards)
(For branches offering Part-I and Part-II for two semesters)

Scholastic courses:

Part	Category	CourseCode	Title of the Course	Hours/ week	Exam Hours.	CIA	ESE	Total	Credits
			SEMESTER-I						
Part I	Language: I	24LTU01/ 24LHU01/ 24LFU01/ 24LKU01/ 24LMU01/ 24LSU01	Tamil - I/ Hindi - I/ French - I/ Kannada - I/ Malayalam - I/ Sanskrit - I	4	3	25	75	100	3
Part II	English : I	24LEU01	English - I	4	3	25	75	100	3
Part III	Core : I	24CCU01	Principles of Accountancy	7	3	25	75	100	5
Part III	Core : II	24CCU02	Introduction to InformationTechnology	5	3	25	75	100	3
Part III	Core : III Practical I	24CCU03	Computer Applications Practical–I (Ms-Office)	3	-	-	-	-	-
Part III	Core : IV Allied : I	24CCU04	E – Banking	5	3	25	75	100	4
Part IV	Foundation : I	24FCU01	Environmental Studies	2	3	50	-	50	2
			TOTAL	30				550	20
			SEMESTER – II						
Part I	Language : II	24LTU02/ 24LHU02/ 24LFU02/ 24LKU02/ 24LMU02/ 24LSU02	Tamil - II/ Hindi - II/ French - II/ Kannada - II/ Malayalam - II/ Sanskrit - II	4	3	25	75	100	3

Part II	English : II	24LEU02	English - II	4	3	25	75	100	3
Part III	Core : V	24CCU05	Financial Accounting	6	3	25	75	100	5
Part III	Core : VI	24CCU06	Business Correspondence	3	3	25	75	100	2
Part III	Core : VII	24CCU07	Database Management System	3	3	25	75	100	3
Part III	Core : III Practical I	24CCU03	Computer Applications Practical –I (Ms-Office & Oracle)	3	3	40	60	100	3
Part III	Core : VIII Allied : II	24CCU08	Statistics for Business	5	3	25	75	100	4
Part IV	Foundation : II	24FCU02	Yoga and Ethics	2	3	50	-	50	2
			TOTAL	**30**				**750**	**25**
			SEMESTER – III						
Part I	Language: III	24LTU03/ 24LHU03/ 24LFU03/ 24LKU03/ 24LMU03/ 24LSU03	Tamil - III/ Hindi - III/ French - III/ Kannada - III/ Malayalam - III/ Sanskrit - III	4	3	25	75	100	3
Part II	English:III	24LEU03	English - III	4	3	25	75	100	3
Part III	Core : IX	24CCU09	Advanced Accounting	7	3	25	75	100	5
Part III	Core : X Practical II	24CCU10	Computer Applications Practical II- C Programming	6	3	40	60	100	4
Part III	Core : XI Allied : III	24CCU11	Business Economics	5	3	25	75	100	4
Part IV	Ability Enhancement: I	24AEU01	Information Security	2	3	50	-	50	2
Part IV	Non - Major Elective	24NMU01A/ 24NMU01B	Indian Women and Society/ Advanced Tamil	2	3	50	-	50	2
			TOTAL	**30**				**600**	**23**

			SEMESTER – IV						
Part I	Language: IV	24LTU04/ 24LHU04/ 24LFU04/ 24LKU04/ 24LMU04/ 24LSU04	Tamil - IV/ Hindi - IV/ French - IV/ Kannada - IV/ Malayalam - IV/ Sanskrit – IV	4	3	25	75	100	3
Part II	English:IV	24LEU04	English - IV	4	3	25	75	100	3
Part III	Core: XII	24CCU12	Corporate Accounting	5	3	25	75	100	4
Part III	Core : XIII	24CCU13	Object oriented Programming concepts with C++	4	3	25	75	100	3
Part III	Core : XIV Practical III	24CCU14	Computer Applications Practical – III (C++)	3	3	40	60	100	2
Part III	Core : XV Allied : IV	24CCU15	Commercial Law	5	3	25	75	100	4
Part IV	Skill Enhancement : I	24SECCU01	Ms-Excel for Business Applications	3	3	50	-	50	2
Part IV	Ability Enhancement : II	24AEU02	Consumer Rights	2	3	50	-	50	2
			TOTAL	**30**				**700**	**23**
			SEMESTER – V						
Part III	Core : XVI	24CCU16	Direct Tax Laws and Practice	6	3	25	75	100	5
Part III	Core : XVII	24CCU17	VB.Net	4	3	25	75	100	**3**
Part III	Core : XVIII	24CCU18	Business Analytics	5	3	25	75	100	**4**
Part III	Core : XIX	24CCU19A / 24CCU19B / 24CCU19C	Institutional Training/ Articleship Training/ Mini Project	-	-	100	-	100	1
Part III	Core : XX Practical IV	24CCU20	Computer Applications Practical–IV (VB.NET)	3	-	-	-	-	-
Part III	Core : XXI (Open Elective)	****	Opted by students offered by other departments	4	3	25	75	100	2

Part III	Core : XXII Elective – I	24CCU21A / 24CCU21B / 24CCU21C	Entrepreneurial Development Programme/ Business Finance / Application of Information Technology in Commerce	5	3	25	75	100	4
Part IV	Skill Enhancement II	24SECCU02	Desktop Publishing (Practical)	3	3	50	-	50	2
Part V	Proficiency Enhancement	24PECCU01	Business and Commercial Knowledge (Self - Study)	-	3	-	100	100	2
			TOTAL	**30**				**750**	**23**
			SEMESTER – VI						
Part III	Core :XXIII	24CCU22	Cost & Management Accounting	7	3	25	75	100	5
Part III	Core : XX Practical IV	24CCU20	Computer Applications Practical–IV (VB.NET)	5	3	40	60	100	4
Part III	Core : XXIV Practical V	24CCU23	Computer Applications Practical–V (Business Analytics)	5	3	40	60	100	4
Part III	Core : XXV Elective II	24CCU24A / 24CCU24B / 24CCU24C	Project Management / Working Capital Management/ Web Designing With PHP	5	3	25	75	100	4
Part III	Core : XXVI Elective III	24CCU25A / 24CCU25B / 24CCU25C	Women in Business/ Export Finance/ Project Work and Viva Voce	5/ 5/ -	3/ 3/ -	25/ 25/ 20	75/ 75/ 80	100	4
Part IV	Skill Enhancement : III	24SECCU03	Commerce Practical	3	3	50	-	50	2
			TOTAL	**30**				**550**	**23**
Part V	Competency Enhancement		NSS/YRC/RRC/CCC/ PHY.EDU/ Others	SEMESTER I - VI					1
			Professional Grooming - Life Skills	SEMESTER I - VI					1
			Students Social Activity	SEMESTER I - VI					1

Total Marks: 3900   **Total credits: 140**

SYLLABUS
முதற்பருவம்

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART : I	LANGUAGE : I	24LTU01	Tamil –I	48	3

Contact hours per week: 4

Year	Semester	Internal Marks	External marks	Total Marks
I	I	25	75	100

முகப்புரை:

தமிழ்மொழி குறித்த அடிப்படை அறிவினையும் வகைமையினையும் அறிதல்.

COURSE OUTCOME:

பொதுத்தமிழைப் படிப்பதன் வாயிலாக கீழ்க்கண்ட திறன்களைப் பெறுவர்.

COs	CO Statement	Knowledge Level
CO1	தமிழ் இலக்கிய வகைமைகளைக் கற்றல்	K1
CO2	மொழியை பிழையில்லாமல் எழுதவும் பேசவும் கற்றல்	K2
CO3	பெண்ணியம் சார்ந்த சிந்தனைகளை வளர்த்தல்	K3
CO4	புதுக்கவிதை, சிறுகதை உத்திகளை திறனாய்தல்	K4
CO5	படைப்பாளர்களாக உருவாக்கம் பெறுதல்	K5

K1: Remember Level , K2:Understand Level , K3: Apply Level , K4: Analyze Level, K5: Evaluate Level

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	9	3	3	9	9
CO2	9	9	9	9	3	3	3
CO3	9	3	9	9	9	3	3
CO4	9	3	9	9	3	3	3
CO5	9	9	9	3	9	9	3
Total contribution of COs to POs	45	27	45	33	27	27	21
Weighted Percentage of COs contribution to POs	2.29	1.71	2.84	2.10	2.24	2.22	1.94

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs

COURSE CONTENT

அலகு 1 இயற்கை   *8 மணி நேரம்*

காலைப்பொழுது, அந்திப்பொழுது, மழை – பாரதியார்
ஆறு – பாரதிதாசன்
இயற்கை வாழ்வு –கவிமணி
நெய்தல் நீர் - சுரதா
மரங்கள் - மு.மேத்தா

அலகு 2 பெண்ணியம்   *10 மணி நேரம்*

நவீன தாலாட்டு - வைரமுத்து
பெண்ணுரிமை பேணுநர் - பொன்மணி வைரமுத்து
அம்மா - இளம்பிறை

அலகு 3 சிறுகதைகள் - சமுதாயம்   *10 மணி நேரம்*

கன்னி – இந்திரா பார்த்தசாரதி
அம்மாவுக்கு ஓய்வு – ஜோதர்லதா கிரிஜா
கழிவு– ஆண்டாள் பிரியதர்சினி
பூக்களும் விற்பனைக்கே – திலகவதி

அலகு 4 இலக்கணம்   10   *மணி நேரம்*

வல்லினம் மிகும் இடங்கள்
வல்லினம் மிகா இடங்கள்
ந ண ன, ல ள ழ, ர ற வேறுபாடு
மரபுச் சொற்கள்

அலகு 5 இலக்கிய வரலாறு   10   *மணி நேரம்*

புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும்
சிறுகதையின் தோற்றமும் வளர்ச்சியும்
படிமம் - குறியீடு பற்றிய விளக்கங்கள்

பயிற்சிக்குரியன - கடிதம் வரைதல், விண்ணப்பம் எழுதுதல்

பாடநூல்கள் :

1. மகாகவி பாரதியார் கவிதைகள், ஸ்ரீ செண்பகா பதிப்பகம், கிருஷ்ணா தெரு, தியாகராயநகர், சென்னை-600 017. எட்டாம் பதிப்பு: 2005.

2. உவமைக்கவிஞர் சுரதா கவிதைகள்(முதற்தொகுதி), வள்ளுவர் தமிழ்ப்பீடம், 56-அ, டாக்டர் லட்சுமணசாமி சாலை, கலைஞர் கருணாநிதி நகர், சென்னை-600 078 முதற்பதிப்பு: பிப்ரவரி 2007.

3. மு.மேத்தா கவிதைகள் (தேர்ந்தெடுத்த கவிதைகள்) கவிதா பப்ளிகேஷன், 8,மாசிலாமணி தெரு, பாண்டிபஜார்,தி.நகர், சென்னை-600 017 இரண்டாம் பதிப்பு: ஆகஸ்ட் 2011.

4. வைரமுத்து கவிதைகள், சூர்யா லிட்ரேச்சர்(பி)லிட், 22,நான்காம் குறுக்குத்தெரு,,டிரஸ்ட் புரம், சென்னை-24 பத்தாம் பதிப்பு: ஜூலை 2009.

5. பொன்மணி வைரமுத்து கவிதைகள், சூர்யா லிட்ரேச்சர்(பி)லிட், 22,நான்காம் குறுக்குத்தெரு, டிரஸ்ட் புரம், சென்னை-24. நான்காம் பதிப்பு: 1996

பார்வை நூல் :

வல்லிக்கண்ணன், புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும், சீதை பதிப்பகம், சென்னை 600005, 6 ஆம் பதிப்பு 2014.

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credit
PART – II	ENGLISH: I	24LEU01	ENGLISH - I	48	3

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	25	75	100

Contact hours per week: 4

PREAMBLE:
To impart basic knowledge about the English Language and various genres in Literature.

COURSE OUTCOME:
On the successful completion of the course, Students will be able to

COs	CO Statement	Knowledge Level
CO1	Identify the main ideas of the different genres.	K1
CO2	Enhance their four skills of language learning.	K2
CO3	Avoid the common grammatical errors.	K3
CO4	Detect the correct usage of vocabulary.	K4
CO5	Interpret the grammatical forms of English through activities, assignments, reading the texts.	K5

K1 – Remember;K2 – Understand;K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	3
CO2	9	3	3	3	3	1	1
CO3	9	3	3	1	1	1	1
CO4	3	3	1	1	1	1	1
CO5	3	1	1	1	1	1	0
Total contribution of COs to POs Weightage	33	19	17	15	9	7	6
Weight Percentage of COs contribution to POs	2.42	1.73	1.87	1.94	2.34	2.17	2.48

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs.

COURSE CONTENT

UNIT I: Poetry (7 Hours)

1. All the world's a stage – William Shakespeare
2. On Killing a tree – Gieve Patel
3. Night of the Scorpion - Nissim Ezekiel

UNIT II: Prose (8 Hours)

1 Good Manners **-** J.C. Hill
2. Of love – Francis Bacon
3. The worship of wealthy- G.K. Chesterton

UNIT III: Short Stories (9 Hours)

1. The Lost Child – Mulk Raj Anand
2. Happy Prince - Oscar Wilde
3. The Lottery Ticket - Anton Chekhov

UNIT IV: One-Act Play (10 Hours)

1. Refund – Fritz Karinthy
2. The Never, Never nest – Cedric Mount.

UNIT V: Grammar and Composition (14 Hours)

1. Parts of Speech
2. Nouns
3. Pronouns
4. Verbs
5. Adjectives
6. Adverbs
7. Prepositions
8. Conjunctions and Interjections

TEXT BOOK: BLOSSOM

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : I	24CCU01	PRINCIPLES OF ACCOUNTANCY	84	5

Contact hours per week: 7

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	25	75	100

PREAMBLE:

To equip the learners with fundamental principles of accountancy for sole trading and non-profit organizations.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the meaning of various accounting terms, consignment,joint venture and bill of exchange.	K1
CO2	demonstrate the basic accounting rules, concepts and conventions.	K2
CO3	apply the accounting rules and concepts in preparation of finalaccounts of trading entities and compute interest on the basis of average due date, value of unsold stock and abnormal loss in consignment.	K3
CO4	differentiate trade bill from accommodation bill, consignment from joint venture and receipts and payments account from income and expenditure account.	K4
CO5	determine the financial results of trading and non-trading entities, Consignment and joint venture businesses.	K5

K1 – Remember;   K2 – Understand;   K3 – Apply;   K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	3	1	3
CO2	9	9	9	3	3	1	3
CO3	9	9	9	3	3	3	3
CO4	9	9	9	3	3	3	3
CO5	9	9	9	3	3	3	3
Total Contribution of COs to POs	45	45	45	15	15	11	15
Weighted Percentage of COs Contribution to POs	2.54	2.54	2.50	1.07	2.00	1.06	2.50

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation; 9- High correlation between COs and POs.

COURSE CONTENT

UNIT I (16 Hours)

Fundamentals of Book- Keeping:

Accountancy: Meaning, Scope and Objectives - Fundamentals of Book Keeping – Accounting Concepts and Conventions – Journal – Ledger - Subsidiary books-Purchase book, Purchase return book, Sales book, Sales return book, Single column, Double column and Triple column cash book-Petty cash book.

UNIT II **(18 Hours)**

Final Accounts:

Trial Balance – Rectification of errors -Preparation of Final accounts for soleproprietors with adjustments.

UNIT III **(16 Hours)**

Bank Reconciliation Statement and Bill of Exchange:

Bank Reconciliation Statement –Account Current and Average Due Date - Bill ofExchange- Accommodation Bills.

UNIT IV (**17 Hours)**

Consignment and Joint Venture:

Consignment: Features - Accounting treatment in the books of the consignor and consignee. Joint Venture Account: Existing and Separate Book - Consignment Vs Joint venture.

UNIT V **(17Hours)**

Accounts of Non-Profit Organizations:

Accounts of Non-Profit Organizations: Receipts and Payments account and Income and Expenditure account and Balance sheet- Receipt and Payment A/c Vs Income andExpenditure A/c.

Note: Distribution of Marks: Theory 20 % and Problem 80%

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Reddy.T.S & Murthy.A	Financial Accounting	Margham Publication, Chennai	2012

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Grewal.T.S	Introduction to Accountancy	S.Chand & Sons, New Delhi	2003
2	Gupta.R.L,GuptaV.K&, Shukla.M.C	FinancialAccounting	S. Chand &Sons, NewDelhi	2009
3	Maheswari.S.K & Reddy.T.S	Advanced Accountancy	Vikas Publishing House, New Delhi.	1996
4	Vinayakam.N, Mani.P.L& Nagarajan .K.L	Principles of Accountancy	S. Chand &Sons, NewDelhi	2002

WEB REFERENCES:

1. https://www.vedantu.com/commerce/accounting-concepts
2. https://www.slideshare.net/sukirat91/accounting-concepts-and-conventions
3. https://ncert.nic.in/ncerts/l/keac103.pdf
4. https://www.uvm.edu/sites/default/files/Division-of-Finance/UserGuides/journalentry.pdf
5. https://www.allaccountingcareers.com/accounting-terms
6. https://www.icai.org/post.html?post_id=14447
7. https://cloudcampus.icai.org/
8. https://www.youtube.com/watch?v=UYICi2TQD-w
9. https://www.selfstudys.com/uploads/pdf/LNiz1VcZlh3JiTEWX1y9.pdf
10. http://mastermindsindia.com/13.%20BRANCH%20ACCOUNTS_%20Assignment%20Soluti ons.pdf

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE :II	24CCU02	INTRODUCTION TO INFORMATION TECHNOLOGY	60	3

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	25	75	100

PREAMBLE:

To enrich the learners with fundamental concepts of computers, networks and related technology which are necessary to compete in the electronic environment.

COURSE OUTCOME:

After completion of the course, the leaners will be able to

COs	CO Statement	Knowledge Level
CO1	posses the basic knowledge of computers, network, operating system, E-commerce, System analysis and design,Artificial Intelligence	K1
CO2	describe the functions of operating system, data processing units, internet and E-Commerce	K2
CO3	use of computer system, MIS and DSS to automate the routine work in various areas of business	K3
CO4	analyze the ethics of programming and use appropriate toolsfor a computer program	K4
CO5	discover the innovative use of programming and ArtificialIntelligence	K5

K1 – Remember;   K2 – Understand;   K3 – Apply;   K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	1	3	1
CO2	9	9	9	9	1	3	1
CO3	9	9	9	9	3	9	3
CO4	9	9	9	9	3	3	3
CO5	9	9	9	9	3	3	3
Total Contribution ofCOs to POs	45	45	45	45	11	21	11
Weighted Percentage of COs Contributionto POs	2.25	2.54	2.50	3.21	1.47	2.02	1.84

**Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9-Highcorrelation between COs and POs.**

COURSE CONTENT

UNIT I (12 Hours)

Fundamentals of Computer:

Basic components and functioning of the computer-Evolution of computer – characteristics – uses of computers – computer systems – Hardware and Software-importance of computers in business - Data and Information, data processing, data storage and data retrieval capabilities, computer applications in various areas of business, computer related jobs in business.

UNIT II   (**12 Hours)**

Types of Computers:

Micro, Mini, Mainframe and Super Computers. Analog, Digital and Hybrid Computers- Business and Scientific Computer Systems-Generations of Computers - First, Second, Third, Fourth and Fifth Generation Computers, Laptop or Notebook Computers, Data Processing System: Batch, Online, Real time system-Time sharing, Multiprogramming and Multiprocessing systems-Net workings: LAN, WAN and WWW.

UNIT III   (12 **Hours)**

Input and Output Devices:

Input ,Output and Storage devices- hard disk, Blue Ray Disk, SSD- Software: System Software and Application Software, Programming language - Machine language - Assembly language, High level language: Flowchart and Program Flowcharts - Steps in developing a computer program.

UNIT IV

Operating systems: (**12 Hours)**

Operating systems –Definition – types- functions – Mobile Operating system: Android -Internet - Extranet – E-mail and its uses - World Wide Websites.

UNIT - V

Artificial Intelligence, IoT & Robotics: (**12 Hours)**

Artificial Intelligence: Introduction – Needs – History – Architecture – Applications:Banking, Business, Education, Finance. IoT – Meaning – Applications – Robotics – Meaning –Applications.

TEXT BOOK:

Author	Title	Publisher	Year of Publication
Saravana Kumar.R Parameswaran.R Jayalakshmi.T	A Text book of Information Technology	S.Chand & Sons, New Delhi	2014

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Alexis Leon & Mathews Leon	Fundamentals of InformationTechnology,	Leon Tech World, Chennai	1999
2	Brightman.R.W & Dimsdab .J.M	Using Micro Computers, 1ST Edition,	Galgotia PublicationPvt Limited, New Delhi	1995
3	Hunt Roger and Shelly John	Computers and Commonsense	Prentice Hall of India Pvt Ltd, New Delhi,	1994
4	Lucas Henry .C,	Information Technology for Management	Tata Mc Graw Hill Education Pvt Limited, New Delhi	2010
5	Taxali.K.R,	PC Software Made Simple	Tata McGraw HillEducation Pvt Ltd., NewDelhi	2001

WEB REFERENCES:

1. https://ncert.nic.in/textbook/pdf/kecs101.pdf
2. https://ocw.mit.edu/courses/sloan-school-of-management/15-561-information-technology-essentials-spring-2005/lecture-notes
3. https://www.d.umn.edu/~rmaclin/cs1011/index.html
4. http://teamslive.com/DOWNLOADS/Bharathiar%20University%20Study%20Materials/UG/B.Com%20Computer%20Application/First%20Year/Introduction%20to%20Information%20Technology.pdf
5. http://www.tmv.edu.in/pdf/Distance_education/BCA%20Books/BCA%20I%20SEM/BCA-121%20Computer%20Fundamental.pdf
6. https://app1.unipune.ac.in/external/syllabus/Computer-Concept-RanjeetPatil-Wani-Sir-27-4-15.pdf

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART -III	CORE III PRACTICAL -I	24CCU03	COMPUTER APPLICATIONS PRACTICAL – I (MS-OFFICE)	36	-

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	-	-	-

PREAMBLE :
        To explore the practical applications of Ms-Word, Ms-Excel, Ms-PowerPoint and M-access in business situations.

COURSE OUTCOME:
After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the basic tools of MS-Word, MS-Excel, MS-PowerPoint, Ms-Access.	K1
CO2	demonstrate the procedure of creating documents, worksheets, slide presentation, creating database.	K2
CO3	make use of menus, wizards for formatting the document, apply formulae for mathematical operation, apply queries to filter the data in Ms-Access	K3
CO4	Examine the features of mail merge, clip art, relational database in MS-Word, MS-Excel, MS-Access.	K4
CO5	evaluate the valid results of mathematical operations in MS-Excel and various effects of slideshow in MS-PowerPoint	K5

K1 – Remember;   K2 – Understand;   K3 – Apply;   K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	1
CO2	9	9	9	9	3	9	1
CO3	9	9	9	9	3	9	1
CO4	9	9	9	9	3	9	1
CO5	9	9	9	9	3	9	1
Total Contribution of COs to POs	45	45	45	45	15	45	6
Weighted Percentage of COs Contribution to POs	**2.25**	**2.54**	**2.50**	**3.21**	**2.00**	**4.32**	**1.00**

**Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9-High correlation between COs and POs.**

COURSE CONTENT

MS-WORD   **(10Hours)**

1. Preparing a document with different font styles, font sizes, paragraph formatting, header &footer.
2. Prepare a Class Time Table and perform the following operations: Inserting the table, Data Entry, Alignment of Rows and Columns, Inserting and Deleting the Rows and Columns andChange ofTable Format.
3. Prepare a mail merge for an interview call letter

MS-EXCEL   **(10 Hours)**

1. Prepare a mark list of your class and perform the following operations: Data Entry, Total, Average, Result and Ranking by using arithmetic and logical functions and sorting.
2. Prepare a Salary bill in a worksheet showing Basic Pay, DA, HRA, Gross salary, PF, IT, NetSalary using suitable Excel features.
   - Select a column and change the yellow color whose net salary is >=50000.
   - Select a column and apply a formula to calculate Gross salary(GS= Basic pay + DA + HRA)
   - Select a column and apply a formula to calculate Deduction(Deduction= PF + IT)
   - Select a column and apply a formula to calculate Net salary (Gross Salary-Deduction)

MS-POWERPOINT   **(6Hours)**

1. Create a power point presentation for promoting sales of your company's product. It shouldcontain slides covering profile of the company, product features, different offers, payment modes and contact address.
2. Prepare an Invitation for college day function.

MS- ACCESS   **(10 Hours)**

1. Create a suitable database with necessary information using students mark list.
2. Prepare a Salary bill in a Ms-Access showing Basic Pay, DA, HRA, Gross salary, PF, IT, NetSalary using suitable Access features.
   - Write a query to display the maximum salary.
   - Write a query to display the salary in ascending order.
   - Write a query to calculate gross salary and net salary.

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE : IV ALLIED : I	24CCU04	E-BANKING	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	25	75	100

PREAMBLE

To make the students to understand the concept of e-banking transactions and overview of e-banking security.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	define the various terms such as-banking, Truncated cheque, E-Cheque, Internet Banking, Tele banking, Electronic Payment System, Digital cash, Digital lending, mobile banking	K1
CO2	demonstrate the modern functions of banking such as Automatic Teller Machine (ATM), e-banking delivery channels (debit card, credit card, smart card, tele banking, internet banking, NEFT,EFT,RTGS,SWIFT,E-WALLET), different facets of e banking	K2
CO3	make use of different electronic banking techniques to execute business and personal transactions smoothly	K3
CO4	examine the aspects of e-banking, telephone banking. E-banking models, cluster approach, high-tech banking services, cybercrime and e-security solutions	K4
CO5	judge the effectiveness of modern e-banking systems	K5

K1 – Remember;   K2 – Understand;   K3 – Apply;   K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	1	3	9	3
CO2	9	3	9	1	1	9	3
CO3	9	3	3	1	1	9	1
CO4	9	3	3	1	1	9	1
CO5	1	1	3	1	1	3	1
Total Contribution of COs to POs	37	19	27	5	7	39	9
Weighted Percentage of COs Contribution to POs	1.85	1.07	1.50	0.36	0.93	3.74	1.50

Level of Correlation: 0-No Correlation; 1-Low Correlation; 3-Medium Correlation; 9-High Correlation between COs and POs

COURSE CONTENT

UNIT I

Banker and Customer: (12 Hours)

Banker-Meaning and Definition-Banking and Other Business Customer-Meaning and Definition -Relationship between a Banker and a Customer-General relationship, Special relationship-Statutory Obligation to Honour Cheques- Banker's Lien, Banker's Duty to maintain secrecy of customer account-Precautions for opening account-KYC Norms.

UNIT II

Banking System in India: (12 Hours)

Indigenous Bankers-Commercial Banks-Women's Bank-Payments Banks-Small Finance Banks-Commercial Bank Vs Small Finance Banks-Cooperative Banks-Regional Rural Banks-Foreign banks-Private Sector Banks-Development Banks-Industrial Development Banks-Agricultural Development Banks-EXIM Bank.

UNIT III

E-Banking: (12 Hours)

Meaning – Traditional Banking Vs E- Banking – E- Banking in Indian Scenario – Facets of E-Banking – E- Banking and financial services – Models for E- Banking – Significance and limitations of E- Banking – Constraints in E- Banking. Internet Banking – Meaning – Mechanics of Internet Banking – services – Mobile banking – Definition – Features – Mechanism-Tele banking- Definition – Features – Mechanism-Frauds in Internet Banking-Security measures.

UNIT IV

Electronic Banking Services   (12 Hours)

Electronic Payment System – Meaning – Features – Process – Payment methods – Digital Cash – Digital SB Account- Digital Lending- Truncated Cheque and Electronic Cheque- E-Purse – Electronic Card – ATM –   Smart – Debit Card – Credit Card – Society for World Wide Inter Bank Financial Telecommunications (SWIFT) –Real Time Gross Settlement (RTGS) – National Electronic Fund Transfer (NEFT) – Immediate Payment System (IMPS)-Crypto currency and Block Chain in banking (Basic concepts only).

UNIT V

Cyber Security in Banking: (12 Hours)

Introduction – Security concepts – Security Attacks – Skimming – PIN capturing – Phishing – Pharming - Social Engineering – Malware – Trojans. E- Builder Solutions: E- Security solutions – Multi factor authentication – firewalls- Encryption – E-Locking technique – Digital Signature – Digital certificate – Electronic signature.

TEXT BOOKS:

Authors	Title	Publisher	Year of Publication
Gordon , E. and Natarajan.K	Banking Theory Law and Practice	29th Edition, Himalaya Publishing House, Mumbai	2023
Gurusamy S	Banking Theory Law and Practice	Vijay Nicole imprints private Limited.	2017

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1.	Bhushan Dewan,	E-Commerce	Sultan Chand Limited, New Delhi	2012
2.	Kaptan SS, ,	Indian Banking in Electronic Era	New Century Publications, New Delhi	2003
3.	Shekhar K.C Lekshmy Shekar	Banking Theory Law and Practice	Vikas publishing house, New Delhi	2013
4.	Sundaram K.P.M Varshney.P	Banking Theory Law and Practice	Sultan Chand Limited, New Delhi	2011

WEB REFERENCES:

1. https://www.youtube.com/watch?v=lS2Bobram64
2. https://www.slideshare.net/abhishektanna/e-banking-25603805
3. https://www.academia.edu/27264233/Role_of_E_Banking_Delivery_Channel_in_Developing_Loyalty_A_study_on_Salaried_Employees?auto=download
4. https://www.youtube.com/watch?v=SNo4B74k_TI
5. https://www.lkouniv.ac.in/site/writereaddata/siteContent/202005031242173294Rajiv_Applied_E-banking-Updated.pdf
6. https://rbidocs.rbi.org.in/rdocs/PublicationReport/Pdfs/21595.pdf
7. https://www.researchgate.net/publication/46533323_E-BANKING-_MODERN_BANKING_SERVICES
8. http://www.ismsedu.com/E-Banking%20Management.pdf

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – IV	FOUNDATION: I	24FCU01	ENVIRONMENTAL STUDIES	24	2

Contact hours per week: 2

Year	Semester	Internal Marks	External Marks	Total Marks
I	I	50	-	50

PREAMBLE

To bring about an awareness of a variety of environmental concerns and to create a pro-environmental attitude and a behavioural pattern in society that is based on creating sustainable lifestyle

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	Define environment, ecosystem, biodiversity, environmental pollution and social issues.	K1
CO2	Explain the natural resources, types of ecosystem, geographical classification of India, causes of environmental pollution and the problems related to the society.	K2
CO3	Identify the information related to environment and the resources to protect it.	K3
CO4	Analyze the classification of natural resources, energy flow in the ecosystem, threats to biodiversity, disaster management and the role of information technology in environment and human health.	K4
CO5	Assess the environmental issues with a focus on sustainability.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	1
CO2	9	9	9	9	3	9	1
CO3	9	9	9	9	3	9	1
CO4	9	9	9	9	3	9	1
CO5	9	9	9	9	3	9	1
Total Contribution of COs to POs	45	45	45	45	15	45	6
Weighted Percentage of COs Contribution toPOs	2.25	2.54	2.50	3.21	2.00	4.32	1.00

**Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-Highcorrelation between COs and POs.**

COURSE CONTENT

UNIT I (4 Hours)

Multidisciplinary Nature of Environmental Studies:
Environment: Definition, Components, Segments and Types. **Natural Resources:** Meaning, Components: (1. **Forest**-Meaning, Importance and Types 2. **Water**- Meaning, Types and Problems 3. **Mineral**- Meaning and Classification 4.**Food**-Meaning and Problems 5.**Energy**- Meaning, Forms and Types 6.**Land**- Meaning, Structure and Functions, Components), **Classification**: Renewable and Non-Renewable Resources, Role of an Individual in Conservation of Natural Resources.

UNIT II (5 Hours)

Ecosystems – Definition, Features, Structure and Function of an Ecosystem, Producers, Consumers and Decomposers, Energy Flow in the Ecosystem (Water, Carbon ,Nitrogen, Oxygen and Energy), Food Chains, Food Webs and Ecological Pyramids
Introduction Types, Characteristics Features, Structure and Function of the following Ecosystem:
- Forest Ecosystem
- Grassland Ecosystem
- Desert Ecosystem
- Aquatic Ecosystems (Ponds, Streams, Lakes, Rivers, Ocean, Estuaries)

UNIT III (5 Hours)

Biodiversity and its Conservation

Introduction – Definition – Genetic, Species and Ecosystem Diversity, Bio geographical Classification of India -Value of Biodiversity – Consumptive Use, Productive Use, Social, Ethical, Aesthetic and Option Value- Bio diversity at Global, National and Local Levels- India as a Mega-Diversity Nation- Hot-Spots of Biodiversity- Threats to Biodiversity – Habitat Loss, Poaching of Wildlife, Man-Wildlife Conflicts- Endangered and Endemic Species of India Conservation of Biodiversity – In-situ and Ex-situ and Conservation of Biodiversity.

UNIT IV (5 Hours)

Environmental Pollution:

Definition, Causes, Effects, control measures and Prevention Acts for Air, Water, Soil, Noise,
Thermal Pollutions and Nuclear Hazards. Solid Waste Management: Meaning, Causes, effects and
control measures of urban and industrial wastes. **Disaster Management**: Meaning, Types of Disasters: floods, earthquake, cyclone and landslides. **Environmental Ethics:** Issues and possible solutions- Climate change, global warming, acid rain, ozone layer depletion, nuclear - accidents and holocaust. Consumerism and waste products, Public Awareness.

UNIT V (5 Hours)

Social Issues and the Environment:

From Unsustainable to Sustainable development- Urban problems related to energy- Water conservation, rain water harvesting, watershed management- Resettlement and rehabilitation of people; its problems and concerns.
Human Population and the Environment: Population growth and distribution- Population explosion – Family Welfare Programme-Environment and human health- HIV/AIDS- Role of Information Technology in Environment and human health- Medical transcription and bio-informatics.

WEB REFERENCES:

1. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
2. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad
3. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
4. Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
5. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001,
6. Environmental Encyclopedia, Jaico Publ. House, Mumabai, 1196p
7. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
8. Down to Earth, Centre for Science and Environment (R)
9. Gleick, H.P. 1993. Water in crisis, Pacific Institute for Studies in Dev.,
10. Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p
11. Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural
12. History Society, Bombay (R)
13. Heywood, V.H & Waston, R.T. 1995. Global Biodiversity Assessment,CambridgeUniv. Press 1140p.
14. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws, HimalayaPub. House, Delhi 284 p.
15. Mckinney, M.L. & School, R.M. 1996. Environmental Science systems &Solutions,Web enhanced edition. 639p.
16. Mhaskar A.K., Matter Hazardous, Techno-Science Publication (TB)
17. Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co. (TB)
18. Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA, 574p
19. Rao M N. & Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Publ.Co. Pvt.Ltd.345p.
20. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut
21. Survey of the Environment, The Hindu (M)
22. Townsend C., Harper J, and Michael Begon, Essentials of Ecology, BlackwellScience(TB)

இரண்டாம் பருவம்

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART : I	LANGUAGE: II	24LTU02	Tamil - II	48	3

Contact hours per week : 4

Year	Semester	Internal Marks	External Marks	Total Marks
I	II	25	75	100

முகப்புரை:

நீதி இலக்கியம் சார்ந்த நூல்களைப் படிப்பதன் மூலம் வாழ்வில் அற உணர்வினைப் பெறுவர்.

COURSE OUTCOME:

இதனைக் கற்பதன் மூலம் கீழ்க்காணும் நிலையை அடைவர்.

COs	CO Statement	Knowledge Level
CO1	அறஇலக்கிய வகைமைகளை அறிந்து கொள்ளுதல்.	K1
CO2	அறஇலக்கியங்கள் வழிகாட்டும் ஒழுக்கங்களைக் கற்றல்.	K2
CO3	மனித நேய மாண்புடன் விளங்குதல்.	K3
CO4	இலக்கியங்களுக்கிடையே உள்ள உறவு நிலைகளைத் தொடர்புப்படுத்துதல்.	K4
CO5	சுற்றுச்சூழல் குறித்த விழிப்புணர்வைக் கொண்டு சமூகத்தை மதிப்பிடல்.	K5

K1:RememberLevel , K2:UnderstandLevel , K3: Apply Level , K4: Analyze Level, K5: Evaluate Level

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	9	9
CO2	9	3	3	9	9	9	3
CO3	9	9	9	3	9	3	3
CO4	9	9	9	9	3	3	3
CO5	9	3	9	3	3	3	3
Total contribution of COs to POs Weightage	45	33	39	33	33	27	21
Weight Percentage of COs contribution to POs	2.29	2.09	2.46	2.10	2.74	2.22	1.94

**Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs.**

COURSE CONTENT

அலகு - 1 அறநூல்கள்   10 மணி

1. திருக்குறள் - அ) இன்னா செய்யாமை (1-10)

   ஆ) சொல்வன்மை (1-10)

2. நாலடியார் - அ) கல்வி (1-10)

   ஆ) நட்பாராய்தல் (1-10)

3. நன்னெறி - 10 பாடல்கள் (4,5,8,9,11,15,16,18,19,24)

அலகு - 2 தனிப்பாடல் திரட்டு   10 மணி

1. அருணாச்சலக் கவிராயர் - 'வெண்ணெயுற்று நெய்தேட்…'

2. அவ்வையார் - 'வான்குருவியின் கூடு…'

   'சித்திரமும் கைப்பழக்கம்…'

   'சொல்லாமலே பெரியர்…'

   'கற்றது கைமண்ணளவு…'

   'எட்டேகால் லட்சணமே…'

   மதியாதார் முற்றம் மதித்து…'

3. காளமேகப் புலவர் - 'வாரிக்ககளத்து அடிக்கும்…'

அலகு - 3 உரைநடை   10 மணி

1. கைகேயி உள்ளம் - தீப.நடராஜன்

2. வியர்வையின் வெகுமதி - வெ.இறையன்பு

3. கோ.வை. கோதைநாயகி அம்மாள் - பைம்பொழில் மீரான்

4. நண்பரின் பண்பு - தமிழண்ணல்

அலகு– 4 -இலக்கணம்   8 மணி

சொல் வகைகள் - பெயர்ச்சொல் - இடுகுறிப்பெயர், காரணப்பெயர்

வினைச்சொல் - தெரிநிலை வினைமுற்று, ஏவல் வினைமுற்று, வியங்கோலள்
வினைமுற்று, குறிப்பு வினைமுற்று, இடைச்சொல்லின் இலக்கணம் - வகைகள், உரிச்சொல்லின்
இலக்கணம் -வகைகள்

அலகு– 5 இலக்கிய வரலாறு   10 மணி

1. பதினெண் கீழ்க்கணக்கு நூல்கள்

2. உரைநடையின் தோற்றமும் வளர்ச்சியும்

பயிற்சிக்குரியன - மொழிபெயர்ப்பு (ஆங்கிலத்திலிருந்து தமிழில்)

பாடநூல்கள் :

1. ச.வே.சுப்பிரமணியன், இலக்கிய வரலாறு, மணிவாசகர் பதிப்பகம் 31, சிங்கர் தெரு பாரிமுனை, சென்னை 600 108

2. தண்டபாணி தனிப்பாடல் திரட்டு உரை (மூலமும் உரையும்), உமா பதிப்பகம், 58 ஐயப்ப செட்டி தெரு, மண்ணடி, சென்னை 600 001.

3. பேரா. முனைவர் மு.பெரி.மு.இராமசாமி, திருக்குறள், ஸ்ரீ இந்து பப்ளிகேஷன்ஸ், 40 பஞ்சால் சுப்பிரமணிய தெரு, சென்னை 600 017.

4. பேரா. மாணிக்கம், நாலடியார் தெளிவுரை, மணிவாசகர் பதிப்பகம், சென்னை 6 ஆம் பதிப்பு, ஆகஸ்ட் 2014.

5. கவிஞர் பத்மதேவன், நீதி நூல் களஞ்சியம், கொற்றவை வெளியீடு, 4/2 சுந்தரம் தெரு, சென்னை - 600017. முதற்பதிப்பு 2014

6. எளிய நடையில் தமிழ் இலக்கணம் - சுரா பதிப்பகம், அண்ணாநகர், சென்னை-40. முதற்பதிப்பு 2012.

பார்வை நூல்:

ச.வே.சுப்பிரமணியன், பதினெண் கீழ்க்கணக்கு நூல்கள் (மூலமும் தெளிவுரையும்) , மணிவாசகர் பதிப்பகம், 31 சிங்கர் தெரு, பாரிமுனை, சென்னை 600 108.

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credit
PART – II	ENGLISH: II	24LEU02	ENGLISH - II	48	3

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
I	II	25	75	100

PREAMBLE :

To make the students understand the various literary forms in English Literature.

COURSE OUTCOME:

On the successful completion of the course, Students will be able to

COs	CO Statement	Knowledge Level
CO1	Recognize contextual meaning of the word.	K1
CO2	Communicate effectively using wider range of vocabulary.	K2
CO3	Apply their acquired knowledge to identify the sentence structure.	K3
CO4	Examine the themes and literary devices.	K4
CO5	Assess the passages for logical arrangement of sentences in a given text.	K5

K1 – Remember; K2 – Understand; K3 – Apply;   K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	3	3	3
CO2	9	3	3	3	1	1	1
CO3	3	3	3	1	1	1	1
CO4	3	1	1	1	1	1	1
CO5	1	1	1	1	1	0	0
Total contribution of COs to POs Weightage	25	17	17	9	7	6	6
Weight Percentage of COs contribution to POs	1.84	1.55	1.87	1.16	1.82	1.86	2.48

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT

UNIT I: Poetry (7 Hours)

1. Stopping by woods on a snowy evening - Robert Frost

2. How do I Love thee? - Elizabeth Barrett browning

3. Don'ts– D.H.Lawrence

UNIT II: Prose (8 Hours)

1. Positive Thinking- Francie Baltazar-Schwartz

2. The Last Cab Ride- Kent Nerburn

3. Toasted English – R.K.Narayan

UNIT III: Short Stories (9 Hours)

1. The Postmaster - Rabindranath Tagore

2. Springtime- O.Henry

3. The Lady, or the Tiger? - Frank R. Stockton

UNIT IV: One-Act Play (10 Hours)

1. The Death Trap – Saki

2. **Moonshine -** Arthur Hopkins

UNIT V: Grammar and Composition (14 Hours)

1. Tenses

2. Articles

3. Letter Writing

TEXT BOOKS: SEVENTH SENSE

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE: V	24CCU05	FINANCIAL ACCOUNTING	72	5

Contact hours per week: 6

Year	Semester	Internal Marks	External Marks	Total Marks
I	II	25	75	100

PREAMBLE

To enable the students to make use of financial accounting applications in the real life situation.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the concepts of single entry system, depreciation, branch,departments, hire purchase and installment purchase system.	K1
CO2	explain the features of single entry system, types of branches, methods of providing depreciation and royalty accounts.	K2
CO3	compare single entry system with double entry system, wholesale profit with retail profit and hire purchase with installment purchasesystem.	K3
CO4	compute the amount of depreciation, amount of interest in hire purchase and installment purchase system, minimum rent and shortworkings in royalty accounts.	K4
CO5	evaluate the financial results of departments and branches.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	3	1	3
CO2	9	9	9	3	3	1	3
CO3	9	9	9	3	3	3	3
CO4	9	9	9	3	3	3	3
CO5	9	9	9	3	3	3	3
Total Contribution of COs to POs	45	45	45	15	15	11	15
Weighted Percentage of COs Contribution toPOs	2.25	2.54	2.50	1.07	2.00	1.06	2.50

Level of correlation:0–No correlation;1–Lowcorrelation;3–Mediumcorrelation; 9-High correlation between COs and POs.

COURSE CONTENT

UNIT I (13 Hours)

Single Entry system:

Meaning, Features, Defects - Difference between Single entry and Double entry system - Statement of Affairs Method – Conversion Method

UNIT II **(14 Hours)**
Departmental Accounts and Branch Accounting:
      Departmental Accounts: Meaning-need-Basis for allocation of expenses-Inter department transfer at cost or selling price.
      Branch Accounting: Meaning-Types of branches-Dependent branches system-Stock and debtors system-Distinction between wholesale profit and retail profit-Independent branch (excluding foreign branches)

UNIT III **(15 Hours)**
Depreciation Accounts:
      Depreciation – Meaning, Need, Causes and methods of providing depreciation - Straight Line Method- Written down Value Method (Excluding Change in Method), Annuity method, Sinking fund method, Insurance policy method, Revaluation method, Depletion method and Machine hour rate method

UNIT IV **(15 Hours)**
Hire Purchase and Installment Accounts:
      Hire Purchase: Meaning–Features-Installment purchase system: Meaning-Features- difference between hire purchase method and installment purchase method – Calculation of Interest – default and repossession–Hire purchase trading account: Debtors method –Stock and debtors method.
UNIT V **(15 Hours)**
Royalty accounts:
   Meaning of Royalty – Minimum Rent – Short Workings – Recoupment of Stock-Workings – Entries in the books of Lessor and Lessee (Excluding sublease)
Note: Distribution of Marks: Theory 20 % and Problem 80 %.

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Reddy.T.S& Murthy.A	FINANCIAL ACCOUNTING	Margham Publication, Chennai.	2012

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	GuptaR.L& Gupta.V.K	AdvancedAccounting	S.Chand & Sons,NewDelhi	1994
2	Jain.S.Pand Narang.K.L	Financial Accounting-I	S.Chand & Sons, New Delhi, New Delhi	2012
3	Maheswari .S.N	Financial Accounting	VikasPublishingHouse,NewDelhi.	2012
4	Raman.B.S	Financial Accounting	United Publishers, Mangalore	2012

WEB REFERENCES:
1. https://www.open.edu/openlearn/money-business/financial-accounting-and-reporting/content-section---references
2. https://cloudcampus.icai.org/
3. https://www.slideshare.net/RekhaInfoline/single-entry-ppt-153442817
4. https://www.icai.org/post/sm-foundation-p1-may2021onwards
5. https://ncert.nic.in/ncerts/l/keac107.pdf
6. https://www.youtube.com/watch?v=_PtF5eMv_Lk
7. https://www.youtube.com/watch?v=QN2jke_BxjU
8. http://mastermindsindia.com/13.%20BRANCH%20ACCOUNTS_%20Assign ment% 20Solutions.pdf

9. https://castudyweb.com/wp-content/uploads/2019/05/CH-7-Departmental.pdf

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : VI	24CCU06	BUSINESS CORRESPONDENCE	36	2

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
I	II	25	75	100

PREAMBLE

To enrich the skill to draft business letters, banking and company orrespondenceeffectively.

COURSE OUTCOME

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	spell out the meanings of the various terminologies such as, businesscommunication, business letters, agenda, minutes and report writing, agency correspondence, application letters, job offer and acceptance letter, tele conferencing, video conferencing	K1
CO2	explain the various domain concepts such as importance, objectives, media and barriers of communication, business letter, duties ofcompany secretary, preparation of Agenda and minutes.	K2
CO3	analyze the effectiveness of media of communication and to make trade enquiries, execution of orders, drafting sales and circular letters, bank and agency correspondence and company correspondence.	K3
CO4	classify the various types of business letters, banking and insurance correspondence, modern communication methods	K4
CO5	evaluate the pros and cons of modern communication methods.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	9	3
CO2	9	9	9	3	3	3	3
CO3	9	9	9	3	3	3	3
CO4	9	9	9	3	3	3	3
CO5	9	3	3	1	1	3	1
Total Contribution of COs to POs	45	39	39	19	19	21	13
Weighted Percentage of COs Contributionto POs	**2.25**	**2.54**	**2.50**	**1.07**	**2.00**	**1.06**	**2.50**

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT

UNIT I **(8 Hours)**

Introduction to Business Communication:

Business Communication: Meaning – Importance of Effective Business Communication. Business Letters: Essentials of Effective Business Letters– Functions - Kinds- Layout of abusiness letter.

UNIT II **(7 Hours)**

Business Letters:

Trade Enquiries – Offers and quotations- Orders and Order Execution letters – Complaintletters -Sales Letters – Circular Letters.

UNIT III **(7 Hours)**

Banking & Insurance Correspondence:

Banking Correspondence, Insurance Correspondence (Life Insurance only)- Agency Correspondence

UNIT IV **(7 Hours)**

Company Correspondence:

Company Correspondence – Correspondence with Directors and shareholders – Duties of company secretary– Preparation of Notice-Meeting-Agenda – Minutes-Report writing.

UNIT V

Report Writing and Modern Communication Methods: **(7 Hours)**

Report writing- Importance of reports -Oral and written reports -Types of businessreports- Characteristics of a good report. Application Letters – Preparation of Resume - Modern Communication Methods: Internet, E-mail,Tele conferencing, E-Communication and Video conferencing.

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Rajendra Pal & Korlahalli.J.S	Essentials of Business Communication	S. Chand & Sons, New Delhi,	2009

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Mathur. S.P	Business Communication	New Age International Pvt Ltd, New Delhi,	2013
2	Ramesh. M. S& Pattanshetti.C.C	Business Communication,	Tata Mc Graw Hill Education (India) Pvt. Ltd., New Delhi	2013
3	Rodriques. M.V	EffectiveBusiness Communication	Concept PublishingCompany, New Delhi	2003

WEB REFERENCES:

1. https://ddceutkal.ac.in/Syllabus/MA_English/Paper_21.pdf
2. https://www.freebookcentre.net/business-books-download/Business-Communication.html
3. https://www.researchgate.net/publication/328630849_The_Importance_of_Communication_in_Business_Management
4. http://www.mim.ac.mw/books/Business%20Communication.pdf
5. https://www.slideshare.net/AkshayKumar409/business-communication-52615299
6. https://www.pinterest.com/pin/business-communication-ppt-- 786441153677386857/
7. https://www.youtube.com/watch?v=r3TRZyrkYmY

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE :VII	24CCU07	DATABASE MANAGEMENT SYSTEM	36	3

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
I	II	25	75	100

PREAMBLE

To equip the learners with fundamental concepts of Database Management System

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	gain the basic knowledge of elements of DBMS, SQL, Transactions, Concurrency Control and Industry 5.0	K1
CO2	illustrate the structure of database, data model andRelational algebra	K2
CO3	design a data base using modeling tools such as ER-Model, Schema,SQL queries	K3
CO4	analyze the functional dependencies of database andapply the normalization theory	K4
CO5	assess the relationship of tables and convert into E-Rmodel and formulate	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	1
CO2	9	9	9	9	3	3	1
CO3	9	9	9	9	3	9	3
CO4	9	9	9	9	3	9	3
CO5	9	9	9	9	3	9	3
Total Contribution of COs to POs	45	45	45	45	15	33	11
Weighted Percentage of COs Contributionto POs	2.25	2.54	2.50	3.21	2.00	3.17	1.84

**Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-High correlation between COs and POs.**

COURSE CONTENT

UNIT I (7 Hours)

Data Management in Industry 5.0:

Data: Definition – Types of Digital Data – Big Data – Characteristics. Database: Introduction-Data independence- Abstraction-Organization of a database-DBMS: Benefits, Functions-Components of DBMS- Data Dictionary-Database users

UNIT II **(7 Hours)**

Database Architecture:

Logical Schema-Conceptual Schema-Physical Schema-Database languages-Database design-Design Constraints.

Data model:

Hierarchical, Network, Relationship Models, E-R Model, Object Oriented Model - Object-Relational Model

UNIT III **(7 Hours)**

E-R Model:

Components of E-R Model-Relationships: Degree, Connectivity, Cardinality, Dependency, Participation. Constraints-Composite entities-Entity List-E-R diagrams-Types. Normalization: Functional Dependencies, Keys, Relationships-INF, 2NF, 3NF, BCNF

UNIT IV **(7Hours)**

Relational Algebra:

Relational Algebraic operations: Unary and binary operations. SQL:SQL data types-Characteristics-Types of SQL Commands-SQL Operators-Aggregate functions(Insert, Update, Delete, Join, Cartesian Product statements)

UNIT V **(8 Hours)**

Transaction Management and Concurrency Control:

Transaction-ACID properties-database Structures-Transaction States. Concurrency Control Schemes: Locking-Two phase Locking-Deadlock-Granularity. Transaction Management in SQL: User defined Transactions- Commit, Roll back, Save Point Commands

TEXT BOOK:

Author	Title	Publisher	Year of Publication
Alexis Leon And MathewsLeon	Fundamentals of DBMS	Vijay Nicole Imprints Private Limited, Chennai	2014

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1.	Abraham Silberchatz and Henry F. Korth	Database System Concepts	Tata McGraw Hill, New Delhi	2006
2.	Date C.J	An Introductionto Database Systems	Tata McGraw Hill, New Delhi	2006

WEB REFERENCES:

1. https://mrcet.com/downloads/digital_notes/ECE/III%20Year/DATABASE%20MANAGEMENT%20SYSTEMS.pdf
2. http://www.ddegjust.ac.in/studymaterial/mca-3/ms-11.pdf
3. https://www.jbiet.edu.in/coursefiles/cse/HO/cse2/DBMSI-III.pdf
4. https://www.bput.ac.in/lecture-notes-download.php?file=lecture_note_420507181042070.pdf
5. https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=7

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE III PRACTICAL - I	24CCU03	COMPUTER APPLICATIONS PRACTICAL – I (Ms- Office & Oracle)	36	3

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
I	II	40	60	100

PREAMBLE

To explore the knowledge of database management system using DDL commands, DML Commands and PL/SQLPrograms

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the basicsyntax of PL/SQL	K1
CO2	Demonstrate the DDL/DML commands and built in functions of SQL	K2
CO3	Recording the use of SQL statement to formulate a database for a given problemdescription	K3
CO4	analyze the database values to avoid data redundancy	K4
CO5	evaluate the SQL queries for data storage and retrieval	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	1
CO2	9	9	9	9	3	9	1
CO3	9	9	9	9	3	9	1
CO4	9	9	9	9	3	9	1
CO5	9	9	9	9	3	9	1
Total Contribution of COs to POs	45	45	45	45	15	45	5
Weighted Percentage of Cos Contributionto POs	**2.25**	**2.54**	**2.50**	**3.21**	**2.00**	**4.32**	**1.00**

**Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9-High correlation between COs and POs.**

ORACLE   **(36 Hours)**

1.   Create the table library with the following fields

Name	Type
-----------	------------------------
BOOKNO	NUMBER(5)
SID	NUMBER(5)
SNAME	VARCHAR(20)
BOOKNAME	VARCHAR(20)
AUTHOR NAME	VARCHAR(20)
PRICE	NUMBER(4)
NO.OF .COPIES	NUMBER(4)

Insert the details of 5 students and implement the following queries

a) Alter the table by adding a new column 'Publisher name'.

b) Modify the column price values into float.

c) Drop the column name   'Author name'.

d) Describe the structure of the table

e) Display book no from the table library avoiding the duplicated values.

2.   Create a table called EMP with the following structure.

Name	Type
------------	------------------------
EMPNO	NUMBER(6)
ENAME	VARCHAR2(20)
DESIGNATION	VARCHAR2(10)
DEPTNO	NUMBER(3)
SAL	NUMBER(7,2)

i.   Insert more than a record into emp table using a single insert command.

ii. Update the emp table to set the salary of all employees to Rs15000/- who are working as a 'Head of thedepartment'.

iii. Delete only those who are working as a 'trainees'

iv. Select the name of the employee whose department is 'English'

v.   List the records in the emp table order by salary in ascending order

3. Implement the data and built in functions in SQL

a)Verify the Character/String Function commands of   upper, lower, nitcap ,ltrim ,rtrim, concat,length, replace, translate

b) Verify the date and time functions of   sysdate ,round, addmonths, lastday, nextday

c) Verify the numerical functions ofround, ceil, floor, trunc, sign ,abs

d) Verify the Mathematical commands of power, mod, exp, sqrt

4. Create the table for ticket booking reservation with the following fields

Name	Type
Passenger name	VARCHAR2(20)
Passenger ID	NUMBER(4)
Gender	VARCHAR2(20)
Address	VARCHAR2(10)
Source	VARCHAR2(20)
Class	VARCHAR2(20)
Destination	VARCHAR2(20)

Name	Type
TrainId	NUMBER(3)
Train name	VARCHAR2(20)
Seats	NUMBER(10)
Date	DATE
Travelling Cost	NUMBER(5,2)

1)Find the total number of passengers who travelled in "First Class".

2)Get the details of the passengers who travelled form Delhi to Bombay.

3)Display the status of the train where the train number= '2333'.

4) Update the train details where the seat number='476'.

5)Check the train is available on the given date.

5. Create the table 'Sales' with the following fields

Name	Type
Product No	Number 6
Product Name	Character(15)
Units	Character(15)
Quantity	Number(6)
Price	Number(8)

a) Find the total number products in a table

b) Selects all products with a price between 10 and 20:

c) Finds the price of the most expensive product and the price of cheapest product

d) List the product name if the records in the product table that quantity >100

e) Selects all products with a name starting with "E"

6. Write a PL/SQL program to calculate payroll details for all the employees

7. Write a trigger to add two numbers.

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART –III	CORE : VIII ALLIED : II	24CCU08	STATISTICS FOR BUSINESS	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
I	II	25	75	100

PREAMBLE

To enable the students to learn the Statistical methods and their applications in Commerce

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recall the basic definitions of statistics, measures of central tendency, correlation, regression, time series and probability	K1
CO2	explain the concept based on statistics, measures of central tendency, correlation, regression, time series and probability	K2
CO3	apply various formulae to solve the problems on statistics, measures of central tendency, correlation, regression, time series and probability.	K3
CO4	Analyze the relations between Mean Median, Mode, correlation and regression	K4
CO5	evaluate the problems on statistics, measures of central tendency, correlation, regression, time series and probability	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	3
CO2	9	9	9	9	3	9	3
CO3	9	9	9	9	3	3	1
CO4	9	9	9	9	3	3	1
CO5	9	9	9	9	3	3	0
Total Contribution of COs to POs	45	45	45	45	15	27	8
Weighted Percentageof COs Contribution to POs	**2.25**	**2.54**	**2.50**	**3.21**	**2.00**	**2.59**	**1.34**

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation; 9-Highcorrelation between COs and POs.

COURSE CONTENT

UNIT I   **(12 Hours)**
     STATISTICS: Introduction to statistics- Meaning - Definition – Methods of collecting data – Primary and Secondary data- Classification and tabulation – Diagrammatic and graphical representation.

UNIT II   **(12 Hours)**
     MEASURES OF CENTRAL TENDENCY: Mean Median, Mode, Geometric Mean and Harmonic Mean - Merits and demerits.

UNIT III   **(12 Hours)**
     CORRELATION: Meaning - Definition –Scatter diagram, Karl Pearson's co-efficient of correlation, Spearman's Rank correlation, advantages and limitations of correlation.
REGRESSION: Regression Analysis – Meaning of regression and linear
prediction –Regression in two variables – Uses of regression.

UNIT IV   **(12 Hours)**
     TIME SERIES: Definition of Time Series - Components of Time Series-Methods of estimating trend – Graphic, Semi-average, Moving average and Method of Least squares – Advantages and Disadvantages

UNIT V   **(12 Hours)**
     PROBABILITY: Definition – Concept – Addition and Multiplication theorems.
 (No derivation and proof, Simple Problems only).
    ** Note : Distribution of marks Theory – 20% Problems – 80%

TEXT BOOK:
   Navanitham. PA.(2012) - **"Business Mathematics and Statistics"**, Jai publishers,Trichy.

REFERENCE BOOKS:
   1. Gupta. S.P. (2016) - ‒Statistical Methods‖, Sultan Chand & Sons, New Delhi.
   2. Vittal. P.R. (2013) - ‒Mathematical Statistics‖, Margham Publishers, Chennai.

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – IV	FOUNDATION :II	24FCU02	YOGA AND ETHICS	24	2

Contact hours per week: 2

Year	Semester	Internal Marks	External Marks	Total Marks
I	II	50	-	50

PREAMBLE

To enable the learners to acquire the knowledge on basic yogasanas and values and practice them in real life.

COURSE OUTCOME

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the basic terminologies in yoga and value education	K1
CO2	demonstrate the importance of yoga, mental exercises, principles of life and components of values.	K2
CO3	apply the techniques of dynamic & mental exercises and philosophical values in real life	K3
CO4	classify the different types of asanas, stages of mind, analysis of thought, ethical values and social values.	K4
CO5	evaluate how the yoga and value education make a person strong both physically and mentally	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	1	1	3
CO2	9	9	9	3	3	1	3
CO3	9	9	9	3	3	3	3
CO4	9	9	9	3	3	3	3
CO5	9	9	9	3	3	3	3
Total Contribution of COs to Pos	45	45	45	15	13	11	15
Weighted Percentage of COs Contribution to POs	**2.25**	**2.54**	**2.50**	**1.07**	**1.73**	**1.06**	**2.50**

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-Highcorrelation between COs and POs.

COURSE CONTENT
UNIT I **(4 Hours)**
YOGA AND HEALTH
Theory:
    Yoga-Meaning- Importance of Yoga – Pancha Koshas - Benefits of Yoga-General Guidelines.
Practice:
    Dynamic Exercise- Surya Namaskar-Basic Set of Asanas-Pranayama & Kriya.

UNIT II **(5 Hours)**
ART OF NURTURING THE MIND
Theory:
    Ten Stages of Mind-Mental Frequency – Methods for Concentration - Eradication of Worries- Benefits of Blessings- Greatness of Friendship- Individual Peace andWorld Peace
Practice: - Worksheet

UNIT III **(5 Hours)**
PHILOSOPHY AND PRINCIPLES OF LIFE
Purpose and Philosophy of Life - Introspection – Analysis of Thought -Moralization of Desires - neutralization of Anger. Vigilance and Anti – Corruption - Redressal mechanism - Urban planning and Administration.
Practice – Worksheet

UNIT IV **(5 Hours)**
VALUE EDUCATION (Part-I)
Ethical Values: Meaning – Need and Significance- Types - Value education – Aim of education and value education- Components of value education: Individual values – Self discipline, Self Confidence, Self Initiative, Empathy, Compassion, Forgiveness, Honesty, Sacrifice, Sincerity, Self-control, Tolerance and Courage.
Practice - Worksheet

UNIT V **(5 Hours)**
VALUE EDUCATION (Part-II)
Family Values
Constitutional or National values – Democracy, Socialism, Secularism, Equality, Justice - Liberty, Freedom and Fraternity.
Social values – Pity and probity, self control, universal brotherhood - Professional values – Knowledge thirst, sincerity in profession, regularity, punctuality andfaith.
Religious values – Tolerance, wisdom, character.
Practice - Worksheet

REFERENCE BOOKS:
1 Vethathiri Maharishi (2015), _Yoga for human excellence'- Sri Vethathiri Publications.
2. Value Education for human excellence- study material by Bharathiar University.
3. Value Education - Study Material by P.K.R Arts College for Women.

மூன்றாம் பருவம்

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART : I	LANGUAGE: III	24LTU03	Tamil - III	48	3

Contact hours per week : 4

Year	Semester	Internal marks	External marks	Total Marks
II	III	25	75	100

முகப்புரை:

காப்பியங்கள் , நவீன இலக்கியம் மற்றும் அணியிலக்கணம் குறித்து அறிவர்.

COURSE OUTCOME:

பொதுத்தமிழ் கற்பதன் மூலம் கீழ்க்காணும் பயிற்றியினை பெறுவர்.

COs	CO Statement	Knowledge Level
CO1	காப்பியங்கள் உணர்த்தும் அன்பு நெறியை உணர்தல்	K1
CO2	நவீன இலக்கியங்களின் தன்மைகளைப் புரிந்து கொள்ளுதல்.	K2
CO3	அணி இலக்கணம் கற்று கொள்வதன் வாயிலாக படைப்பாளுமையை வளர்த்தல்.	K3
CO4	இலக்கணங்களைப் பயில்வதன் மூலம் இலக்கணங்களை உருவாக்க முடியும்.	K4
CO5	காப்பியங்கள் வாயிலாக பெண் கதாபாத்திரத்தைத் திறனாய்தல்.	K5

K1:Remember Level , K2:UnderstandLevel , K3: Apply Level , K4: Analyze Level, K5: Evaluate Level

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	3
CO2	3	9	9	9	9	9	9
CO3	9	9	3	9	9	3	9
CO4	9	9	9	9	3	3	3
CO5	9	3	9	9	9	3	3
Total contribution of COs to POs Weightage	39	39	39	45	33	27	27
Weight Percentage of COs contribution to POs	1.98	2.47	2.46	2.87	2.74	2.22	2.49

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs.

COURSE CONTENT

அலகு— 1 காப்பியங்கள் 10 மணி

சிலப்பதிகாரம் - ஊர்சூழ் வரி (75 வரிகள்)
இயேசுகாவியம் - பாரச்சிலுவை,தாயும் சேயும்,கசிந்தநெஞ்சங்கள்.
சீறாப்புராணம் - மானுக்குப் பிணைநின்றபடலம்.

அலகு— 2 புராணம் 10 மணி

கம்பராமாயணம் - கைகேயி சூழ்வினைப்படலம் (40 பாடல்கள்)
பெரியபுராணம் - காரைக்கால் அம்மையார் புராணம் (66 பாடல்கள்)

அலகு— 3 நாவல் 10 மணி

வாடிவாசல் - சி.சு.செல்லப்பா

அலகு— 4 இலக்கணம் 10 மணி

அணி இலக்கணம்

உவமையணி—எடுத்துக்காட்டுஉவமையணி—வஞ்சப் புகழ்ச்சியணி—சொற்பொருள் பின்வருநிலையணி—தீவகயணி.

அலகு— 5 இலக்கிய வரலாறு 8 மணி

புதினத்தின் தோற்றமும் வளர்ச்சியும்,
காப்பியங்களின் தோற்றமும் வளர்ச்சியும் (ஐம்பெருங்காப்பியங்கள்,ஐஞ்சிறுங்காப்பியங்கள்)
பொதுக்கட்டுரை.

பாடநூல்கள்:
1.ந.மு.வேங்கடசாமிநாட்டார் - சிலப்பதிகாரம் - ராமையாபதிப்பகம்,சென்னை - 600 014.
2.ந.மு. வேங்கடசாமிநாட்டார்,ஒளவை சு. துரைசாமிப்பிள்ளை - மணிமேகலை - சாரதாபதிப்பகம், ஜி-4,சாந்திஅடுக்ககம்,ராயப்பேட்டை,சென்னை.
3.உமறுப்புலவர்,சீறாப்புராணம்,முல்லைநிலையம், 9,பாரதிநகர்,தி.நகர்,சென்னை. முதற்பதிப்பு -2009.
4.வ.த.இராமசுப்பிரமணியம் - பெரியபுராணம்,திருமகள் நிலையம்,தி.நகர்,சென்னை.
5.வாடிவாசல் - சி.சு.செல்லப்பா,காலச்சுவடுபதிப்பகம்,பதிப்பு 2009, 669,கே.பி.ரோடு,நாகர்கோவில்

பார்வை நூல்:
1. தமிழ் இலக்கியவரலாறு—பேரா.மது.ச.விமலானந்தம்,முல்லைநிலையம், 9,பாரதிநகர்,- முதல் தெரு,தி.நகர்,சென்னை - 17

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credit
PART – II	ENGLISH :III	24LEU03	ENGLISH - III	48	3

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
II	III	25	75	100

PREAMBLE :

To cater the most required LSRW skills in students along with bridging the gap among perception, communication and practice of the English Language.

COURSE OUTCOME   :

On the successful completion of the course, Students will be able to

COs	CO Statement	Knowledge Level
CO1	Recognize the genres in literature.	K1
CO2	Explain the literary devices and themes used in the works.	K2
CO3	Make oral presentation on any given situation.	K3
CO4	Examine the sentence structure and types of advertisements.	K4
CO5	Assess the situations and concepts to construct dialogues and slogans.	K5

K1 – Remember; K2 – Understand;   K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	3	3	3
CO2	9	9	3	3	3	1	1
CO3	9	3	3	1	1	1	1
CO4	3	3	1	1	1	1	0
CO5	3	3	1	1	0	0	0
Total contribution of COs to POs	33	27	17	9	8	6	5
Weight Percentage of COs contribution to POs	2.42	2.45	1.87	1.16	2.08	1.86	2.07

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;

9- High correlation between COs and POs.

COURSE CONTENT

UNIT I: POETRY **(9 Hours)**

1. The Highwayman - Alfred Noyes

2. Do Not Go Gentle into That Good Night **-** Dylan Thomas

3. A Different History - Sujata Bhatt

UNIT II: PROSE **(9 Hours)**

1. Tree Speaks - C.Rajagopalachary

2. Third thoughts – E.V.Lucas

3. On the Rule of the Road – A.G.Gardiner

UNIT III: SHORT STORIES **(9 Hours)**

1. The Monkey' Paw – W.W.Jacobs

2. The Thief's Story - Ruskin Bond

3. A Hero- R.K.Narayan

UNIT IV: ONE-ACT PLAY **(8 Hours)**

1. Mother's Day – J.B.Priestly

2. The Proposal – Anton Checkhov

UNIT V: GRAMMAR AND COMPOSITION **(13 Hours)**

1. Concord

2. Dialogue writing

3. E-Mail writing

TEXT BOOK: LILACS

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE :IX	24CCU09	ADVANCED ACCOUNTING	84	5

Contact hours per week: 7

Year	Semester	Internal Marks	External Marks	Total Marks
II	III	25	75	100

PREAMBLE

To familiarize the students with the accounting principles and practice of partnership.

COURSE OUTCOME

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	Explain the concepts of Partnership accounts, insurance claimand royalty accounts.	K1
CO2	Solve problems on admission of partner, Retirement and death of partner, dissolution and insolvency of partner.	K2
CO3	Assess the value of goodwill at the time of admission andretirement of partners.	K3
CO4	Apply the rules of Garner vs Murray case.	K4
CO5	Analyze the accounting treatment at the time of admission andretirement of partners.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	1	1	3
CO2	9	9	9	9	1	1	3
CO3	9	9	9	9	1	1	1
CO4	9	9	9	3	1	1	1
CO5	9	3	9	3	0	0	0
Total Contribution ofCOs to POs	45	39	45	33	4	4	8
Weighted Percentage ofCOs contribution to POs	2.25	2.20	2.50	2.36	0.53	0.38	1.34

**Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-High correlation between COs and POs.**

COURSE CONTENT

UNIT I (17 Hours)

Partnership Accounts- Admission of Partner:

Admission of a partner- Treatment of Goodwill- Revaluation of Assets and Liabilities-Calculation of Ratios for Distribution of Profits- Capital Adjustments.

UNIT II   (17 Hours)
Retirement and Death of Partner:

Retirement of partner- Calculation of Gaining ratio- Revaluation of Assets and Liabilities- Treatment of Goodwill-Adjustment of Goodwill through Capital A/C only- Settlement of Accounts- Retiring Partner's Loan Account with equal Installments only- death of partner- calculation of profit upto the date of a partner.

UNIT III   (17 Hours)
Dissolution and Insolvency of a Partner:

Dissolution- Insolvency of Partners- Garner Vs. Murray –Insolvency of all Partners- Deficiency A/C- Piecemeal Distribution- Proportionate Capital Method Only-Insolvency of Individuals and Firms.

UNIT IV   (16 Hours)
Insurance Claims Accounts:

Computation of Insurance Claims – Loss of stock – Calculation of total stock on the date of Fire – Ratio of Gross Profit – Average clause – Loss of Profit

UNIT V   (17 Hours)
Insolvency accounts:

Meaning of insolvent - Relevant Acts - Procedure under insolvency Acts - Distinction between insolvency of an individual and a partnership firm - Difference between Balance Sheet and Statement of affairs -Preparation of the statement of affairs - Preparation of statement of affairs of a sole trader - Statement of affairs and deficiency account of a sole trader.

Note: Distribution of Marks: Theory- 20% and Problems- 80%.

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Reddy T.S & Murthy.A	Financial Accounting Volume I	Margham publications, Chennai	2011

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Gupta R.L & Radhasamy .M	Advanced Accountancy	Sultan Chand & Sons, New Delhi	2009
2	Jain S.P andNarang K.L	Advanced Accountancy Volume I	Kalyani publishers, NewDelhi	2014
3	Shukla.M.C., Grewal T.S andGupta S.L	Advanced Accountancy, Volume I	Sultan Chand & Sons,New Delhi	2011

WEB REFERENCES:

1. https://www.yourarticlelibrary.com/accounting/problems-accounting/top-5-problems-on-admission-of-a-partner-with-solution/79039
2. https://www.accountancyknowledge.com/profit-and-loss-appropriation-account-problems-and-solutions/
3. https://www.youtube.com/watch?v=vHPJ2pXcA5I
4. https://www.youtube.com/watch?v=UV5QDV4HYIM
5. https://www.youtube.com/watch?v=_DSaK8Xuij8
6. https://www.youtube.com/watch?v=IMSV41MlnqE
7. https://www.tutorialspoint.com/financial_accounting/financial_accounting_insurance_claims.htm

8. https://quickbooks.intuit.com/in/resources/accounting-taxes/royalties-accounting/
9. https://www.tutorialspoint.com/financial_accounting/financial_royalty_accounts.htm

Category	Course Type	Course Code	Course Title	Contact Hours/ Semester	Credits
PART - III	CORE: X PRACTICAL II	24CCU10	COMPUTER APPLICATIONS PRACTICAL II – C PROGRAMMING	72	4

Contact hours per week: 6

Year	Semester	Internal Marks	External Marks	Total Marks
II	III	40	60	100

PREAMBLE

To learn, practice and innovate using C language.

COURSE OUTCOME

On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Define the basics of arithmetic operations using C tokens.	K1
CO2	Choose the True/ False statements for checking the given numbers using decision making.	K2
CO3	Classify the given input based on iteration process	K3
CO4	Analyze the array operations in various formats	K4
CO5	Define the use of functions , structure and union	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

POs \ COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	3	3	3
CO2	9	3	3	3	3	3	3
CO3	9	3	3	3	3	3	3
CO4	9	3	3	3	3	3	3
CO5	9	3	3	1	1	1	0
Total Contribution of COs to POs	45	21	21	13	13	13	12
Weighted Percentage of COs Contribution to POs	2.60	1.38	1.52	1.13	1.46	1.82	1.69

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT

1. Write a C program to print character data types.
2. Write a C program to illustrate Arithmetic operators.
3. Write a C program to illustrate Relational operators.
4. Write a C program to illustrate Logical operators.
5. Write a C program to illustrate Bitwise operators.
6. Write a C program to find the largest of three numbers.
7. Write a C program to check whether the given year is leap year or not.
8. Write a C program to print the entered digit in word form.
9. Write a C program to find whether the given number is prime or not.
10. Write a C program to count the number of digits in the given number.
11. Write a C program to reverse a 3- digit number.
12. Write a C program to print Right half Pyramid. (star/ numbers/ alphabets)
13. Write a C program to print Full half Pyramid. (star/ numbers/ alphabets)
14. Write a C program to print Inverted Left half Pyramid. (star/ numbers/ alphabets)
15. Write a C program to print Rhombus Pattern. (star/ numbers/ alphabets)
16. Write a C program to print Hollow Square Pattern. (star/ numbers/ alphabets)
17. Write a C program to print Hollow Inverted Full Pyramid Pattern. (star/ numbers/ alphabets)
18. Write a C program to print Hollow Diamond Pattern. (star/ numbers/ alphabets)
19. Write a C program to print Floyd's Triangle. (star/ numbers/ alphabets)
20. Write a C program to sort the 1D-array in the ascending order.
21. Write a C program to print the largest and the second largest element of the 1D-array.
22. Write a C program to search an element in the given 1D-array.
23. Write a C program to remove the duplicate elements in the given 1D-array.
24. Write a C program to insert an element in the given list of sorted 1 D-array.
25. Write a C program to transpose a given matrix. (2d-array)
26. Write a C program to access and to print the 1D array elements using pointers.
27. Write a C program to swap two numbers using pointers.
28. Write a C program to count the number of vowels in a string using null character.
29. Write a C program to access and to print the string using pointers.
30. Write a C program to copy the content of one string to another string using pointers.
31. Write a C program to add two numbers using function.
32. Write a C program to check whether the given string is palindrome or not.
33. Write a C program to swap 2 numbers using functions.
34. Write a C program to sort the numbers in the descending order using functions.
35. Write a C program to find the factorial if given number using recursive method.
36. Write a C program to print the Fibonacci series using recursive method.
37. Define a structure that will describe the following information. Student name, Class, Roll number, Subject, Marks and Total. Using student declare an array stu_list with 30 elements. Write program in C to read the information about all the 30 students and to display the information.
38. Define a union that will describe the following information. Student name, Class, Roll number, Subject, Marks and Total. Using student declare an array stu_list with 30 elements. Write program in C to read the information about all the 30 students and to display the information.

Category	Component	CourseCode	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE : XI ALLIED : III	24CCU11	BUSINESS ECONOMICS	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
II	III	25	75	100

PREAMBLE

To equip the learners with the basic concepts of economic laws/theories relevant to business

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	Para phrase the different economic terminologies and laws.	K1
CO2	illustrate the important economic concepts and theories applied inbusiness economics	K2
CO3	identify the factors determining demand, elasticity of demand and supply	K3
CO4	examine the various methods of demand forecasting, pricing strategiesunder different market conditions and interpret the laws of productions and cost curves.	K4
CO5	evaluate the pricing and output decisions under different market structureand theories of factor pricing.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	1	1	1
CO2	9	9	9	3	1	1	1
CO3	9	9	9	3	1	1	1
CO4	9	9	9	3	1	1	1
CO5	9	9	3	3	1	1	1
Total contribution of COs to POs	45	45	39	15	5	5	5
Weighted percentage of COs	2.25	2.54	2.16	1.07	0.67	0.48	0.83

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9-High correlation between COs and POs.

COURSE CONTENT

UNIT I

Business Economics (12 Hours)

Meaning, Definition, Nature and Scope of economics-Tools of Economic analysis-Micro and Macro Economics-Business Economics-Role of economics in decision making - Economic theories applied to business analysis-Objectives of business economics-Profit maximization-Sales maximization-Rate of growth-Objectives of Firm in different economic systems.

UNIT II   **(12 Hours)**
Utility Analysis:

Law of diminishing marginal utility-Law of Equi-Marginal utility- Indifference curve. Demand analysis-Meaning-Determinants of demand-Law of demand, Elasticity of demand- Price, Income and Cross demand-Demandestimation and Demand forecasting-types

UNIT III   **(12 Hours)**
Production function:

Factors of production-Law of diminishing returns-Law of variable proportion-Returns to scale-Scale of production-Law of supply-Cost and Revenue-Types of cost of production-Long run and short run cost curve.

UNIT IV   **(12 Hours)**
Product pricing:

Meaning, Definition, Types-Equilibrium under Perfect competition of firm and Industry-Pricing under Imperfect competition – Monopoly - Price discrimination-Pricing under Monopolistic competition-Pricing under Oligopoly-Kinked demand curve.

UNIT V   **(12 Hours)**
Factor pricing:

Marginal ProductivityTheory-Theories of Rent -Wages- Interest – Profit.

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Sundharam.K.P.M & Sundharam.E.N	Business Economics	S.Chand& Sons, New Delhi	2010

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year Publication
1	H.L.Ahuja	Managerial Economics: Analysis of Managerial decision Making	S.Chand Publishing,New Delhi	2017
2	Sankaran .S	Business Economics	Margham Publication, Chennai	2001
3	Seth .M.L	Principles of Economics	Lakshmi Narain Agarwal Publications,Agra	2017
4.	M.L.Jhingan	Microeconomics	Vrinda Publication S P LT , New Delhi	2016

WEB REFERENCES:
1. https://www.icsi.edu/WebModules/BUSINESS%20ECONOMICS.pdf
2. https://studentzonengasce.nmims.edu/content/Business%20Economics/Business_Economics_Book_trOWJ916T5.pdf
3. https://www.ncertbooks.guru/b-com-economics-notes/
4. http://gurukpo.com/Content/B.Com/Business%20_Economics-B.Com.pdf
5. https://old.mu.ac.in/wp-content/uploads/2020/01/FYBCOM-BUSSINES-ECO-I- Eng.pdf
6. http://www.ddegjust.ac.in/studymaterial/bba/bba-103.pdf
7. https://www.tutor2u.net/economics/reference/business-economics-diagram-in-your- pocket
8. https://www.indiainfoline.com/article/news-top-story/economics-for-everyone-%E2%80%93-economics-and-concept-of-curves-115070200254_1.html

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART – IV	ABILITY ENHANCEMENT: I	24AEU01	INFORMATION SECURITY	24	2

Contact hours per week: 2

Year	Semester	Internal Marks	External Marks	Total Marks
II	III	50	-	50

PREAMBLE :
To learn about the basics of Information Security.

COURSE OUTCOME:
After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	Recall the fundamental concepts of Information Security, Risk and Security policies	K1
CO2	Discuss the concepts of Risks, vulnerabilities, ethical and privacy issues	K2
CO3	Apply the ideas in security planning and construct the policies	K3
CO4	Categorize the Privacy, Ethical Issues, Laws, Software Issues and Crimes	K4
CO5	Summarize Cryptography, cipher text and threats in information security	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO – PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	9	9
CO2	9	9	9	9	9	9	3
CO3	9	9	9	9	3	3	3
CO4	9	9	9	9	3	3	3
CO5	9	9	9	9	3	1	1
Total Contribution of COs to POs	45	45	45	45	27	16	19
Weighted Percentage of COs Contribution to POs	2.25	2.54	2.50	3.21	3.60	1.54	3.17

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;

9-Highcorrelation between COs and POs.

COURSE CONTENT

UNIT I (5 Hours)
Introduction to Information Security:
Information Security: Principles, Concepts and Definitions - The need for Information Security - Benefits of Information Security. The Security Problem in Computing: The Meaning of Computer Security - Computer Criminals.

UNIT II (5 Hours)
Information Risk:
Information Risk: Threats and Vulnerabilities of Information Systems – Introduction to Risk Management. Information Security Management Policy, Standards and Procedures.

UNIT III (5 Hours)
Security Planning:
Administering Security: Security Planning - Security Planning Team Members- Assuring Commitment to a Security Plan - Business Continuity Plan - Incident Response Plan - Organizational Security Policies, Physical Security.

UNIT IV (5 Hours)
Privacy and Ethical Issues in Information Security:
Legal Privacy and Ethical Issues in Information Security: Protecting Programs and Data - Information and the Law - Rights of Employees and Employers - Software Failures - Computer Crime - Ethical Issues in Information Security.

UNIT V (4 Hours)
Cryptography:
Cryptography: Introduction to Cryptography -What is Cryptography – Plain Text –Cipher Text – Substitution Ciphers - Transposition Ciphers.

TEXT BOOK:
1. Sumitra Kisan and D.Chandrasekhar Rao, Information Security Lecture Notes, Department of Computer Science and Engineering & Information Technology, Veer Surendra Sai University of Technology (Formerly UCE, Burla) Burla, Sambalpur, Odisha.

REFERENCE BOOKS:
1. Andy Taylor (Editor), David Alexander, Amanda Finch & David Sutton, Information Security Management Principles An ISEB Certificate, The British Computer Society, 2008.

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART – IV	NON- MAJOR ELECTIVE	24NMU01A	INDIAN WOMEN AND SOCIETY	24	2

Contact hours per week: 2

Year	Semester	Internal Marks	External Marks	Total Marks
II	III	50	-	50

PREAMBLE :
　　　　To familiarize students with the specific cultural contexts of women in India

COURSE OUTCOME :
　　　　After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	know women status in Indian society as an academic discipline	K1
CO2	interpret the various roles of women, challenges and issues faced by them in the society	K2
CO3	find out solutions to their legal issues and product themselves from the violence against women emphasize on women entrepreneurship for their empowerment	K3
CO4	critically analyze the lifestyle and challenges of women	K4
CO5	discuss the importance of women health and issues related to women in general	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

COs – POs MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	0	0	0
CO2	9	9	9	9	3	0	3
CO3	9	9	9	9	9	9	9
CO4	3	3	3	9	9	9	9
CO5	3	3	1	1	1	9	9
Total Contribution of COs to POs	33	33	31	37	22	27	30
Weighted Percentage of COsContribution to POs	**1.65**	**1.87**	**1.72**	**2.64**	**2.93**	**2.59**	**5.01**

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9- Highcorrelation between COs and POs.

COURSE CONTENT

UNIT I   **(5 Hours)**
Historical Background:
       History of Women's status from Vedic times, Women's participation in India's Pre and Post Independence movement and Economic Independence, fundamental rights and importance of women in Modern Society

UNIT II   **(5 Hours)**
Role of Women (Challenges &Remedies):

       Women in Family, Agriculture, Education, Business, Media, Defense, Research and Development, Sports, Civil Services, Banking Services, Social Work, Politics and Law

UNIT III   **(5 Hours)**
Women and Health:
       Women and health issues, Malnutrition, Factors leading to anemia, Reproductive maternal health and Infant mortality, Stress

UNIT IV   **(5 Hours)**
Issues of Women:
       Women's issues, Dowry Related Harassment and Dowry Deaths, Gender basedviolenceagainst women, Sexual harassment, Loopholes in Practice to control women issues

UNIT V   **(4 Hours)**
Women Empowerment:
   Meaning, objectives, Problems and Issues of Women Empowerment, Factors leading to Women Empowerment, Role and Organization of National Commission for Women, Central and State Social Welfare Board for Women Empowerment, Reality of women empowerment in the era of globalization

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Mala Khullar	Writing the Women's Movement: A Reader	Zubaan	2005
2	IAWS	The State and the Women's Movement in India	IAWS, Delhi	1994
3	Kosambi,Meera	Crossing Thresholds: Feminist Essays in Social History	Permanent Black	2007
4	T Rowbotham, Sheila	Hidden from History: Women's Oppressionand the Fight against It	Pluto Press, London	1975
5	Susheela Mehta	Revolution and the Status of Women	Metropolitan Bookco.pvt ltd, New Delhi	1989

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART: IV	NON- MAJOR ELECTIVE	24NMU01B	அடிப்படைத் தமிழ் (Advanced Tamil)	24	2

Contact hours per week : 2

Year	Semester	Internal marks	External marks	Total Marks
II	III	50	-	100

முகப்புரை:

எழுத்துக்களின் வகைமைகள், சொற்றொடர் அமைப்பு, மாற்றம் குறித்து அறிந்து கொள்வர்.

COURSE OUTCOME

அடிப்படைத் தமிழ் கற்பதன் வாயிலாகக் கீழ்க்காணும் தன்மைகளை அறிவர்.

COs	CO Statement	Knowledge Level
CO1	தமிழ் மொழியின் அடிப்படைக் கூறுகளை அறிவர்.	K1,K2
CO2	எழுத்துக்களின் வகைமைகளைக் கற்பர்.	K3
CO3	சொற்பொருள் மாற்றங்களை அறிந்து பின்பற்றுவர்.	K3,K5
CO4	சொற்றொடர் அமைப்பினைப் பகுத்தாராய்வர்.	K4
CO5	தமிழ் மொழியின் மேன்மையை உணர்ந்து மதிப்பிடுவர்.	K5

K1:RememberLevel , k2:UnderstandLevel , K3: Apply Level , K4: Analyze Level, K5: Evaluate Level

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	3	3	9	3	9
CO2	9	9	9	3	3	3	3
CO3	9	9	9	9	3	9	3
CO4	9	9	9	9	3	9	9
CO5	9	9	9	9	9	3	9
Total Contribution of COs to POs	45	45	39	33	27	27	33
Weightage Percentage of COs contribution to POs	**2.29**	**2.85**	**2.46**	**2.10**	**2.24**	**2.22**	**3.04**

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs.

இளங்கலை 2021-22 கல்வியாண்டு முதல் சேர்வோர்க்குரியது

(12-ஆம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு)

புற மதிப்பீட்டுத் தேர்வு மட்டும்

1. தமிழ் மொழியின் அடிப்படைக் கூறுகள்.

   எழுத்துகள்   : முதலெழுத்துகள் (உயிர் எழுத்து, மெய் எழுத்து, உயிர்மெய் எழுத்து)

   சொற்கள்   :   பெயர்ச்சொல், வினைச்சொல், இடைச்சொல், உரிச்சொல்

   தொடர்   :   தொடரமைப்பு (எழுவாய், செயப்படுபொருள், பயனிலை)

2. குறிப்பு எழுதுதல் : பத்துப் பதினைந்து தொடர்களில் குறிப்பு வரைதல்

   பிழைநீக்கி எழுதுதல் : (ஒற்றுப்பிழை, எழுத்துப்பிழை)

2021– 2022 கல்வியாண்டு முதல் பயில்பவர்களுக்குப் பின்வரும் வினாத்தாள் அமைப்பு பின்பற்றப்பட வேண்டும்.

Course	Sections	Assessment Domain	Marks and Unit Weightage	Total ESE
Non-Major Elective I (Basic Tamil)	**Section A**	K1: Remember Level K2: Understand Level	4 X 5 = 20 Four out of Six *(Open choice)* *(At least one question from each unit)*	50*
	Section B	K3: Apply Level K4: Analyze Level K5: Evaluate Level	3 X 10 = 30 Three out of Five *(Open choice)* *(At least one question from each unit)*	

நான்காம் பருவம்

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART: I	LANGUAGE : IV	24LTU04	TAMIL -IV	48	3

Contact hours per week : 4

Year	Semester	Internal marks	External marks	Total Marks
II	IV	25	75	100

முகப்புரை:

சங்க இலக்கிய நூல்களின் அறிமுகத்தினையும் பாடல் மேன்மையையும் அறிவர்.

COURSE OUTCOME:

பொதுத்தமிழ் நான்கு கற்பதன் வழி கீழ்காணும் தன்மையைப் பெறுவர்.

COs	CO Statement	Knowledge Level
CO1	எட்டுத்தொகை நூல்கள் மற்றும் பத்துப்பாட்டு நூல்கள் குறித்த அறிவைப் பெறுவர்..	K1
CO2	சங்ககால மக்களின் வாழ்வியல் விழுமியங்களை சங்க இலக்கிய அகப்புறப் பாடல்களின் வழி கற்பர்.	K2
CO3	சங்கப் பாடல்களில் புலப்படும் உவமை , உருவகம், உள்ளுறை,இறைச்சி தன்மையை இன்றைய நவீன இலக்கியங்களுள் பொருத்திப் பார்ப்பர்.	K3
CO4	பட்டினப்பாலை உணர்த்தும் பண்டைய வணிகவியல் முறையோடு நவீன வணிக மேலாண்மையியலுடன் ஒப்பிட்டு பகுத்தாராய்வர்.	K4
CO5	கலித்தொகைப் பாடல்,பிசிராந்தையார் நாடகம் இவற்றின் மூலம் நாடகத்துறையின் பரிணாம வளர்ச்சியினை அறிந்து மதிப்பிடுவர்.	K5

K1:Remember Level , K2:UnderstandLevel , K3: Apply Level , K4: Analyze Level, K5: Evaluate Level

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	3	9	9	9	9
CO2	9	9	3	9	9	9	3
CO3	9	3	9	9	3	3	3
CO4	9	3	9	3	3	3	3
CO5	9	9	9	3	3	3	3
Total contribution of COs to POs Weightage	45	33	33	33	27	27	21
Weightage Percentage of COs contribution to POs	**2.29**	**2.09**	**2.08**	**2.10**	**2.24**	**2.22**	**1.94**

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs.

COURSE CONTENT

அலகு– 1   10 மணி

நற்றிணை:குறிஞ்சி (83) பெருந்தேவனார் - "எம்ஊர் வாயில் உண்துறைத் தடையிய"
குறுந்தொகை : குறிஞ்சி(24)ஔவையார் -"அகவன் மகளேஅகவன் மகளே"
ஐங்குறுநூறு:அன்னாய் வாழிபத்து–கபிலர் (203) - "அன்னாய் வாழிவேணடன்னைநம் படைப்பை"
பதிற்றுப் பத்து–ஐந்தாம்பத்து–42 ஆம் பாடல் - பரணர் - "இரும்பனம் புடைய ஃகைவான்கழல"
பரிபாடல் :வையை 7 – ஆம் பாடல் - "இறுவரைபுரையுமாறு இருகரையேமத்து" (வரி- 40 -50)
புறநானூறு– 243 ஆம் பாடல் - குடவாயிற் கீத்தனார் - இளையோர் சூடார் வளையோர் கொய்யார்"

அலகு– 2   10 மணி
    பத்துப்பாட்டு
    பட்டினப்பாலைமுழுவதும்

அலகு– 3   10 மணி
    நாடகம் - பிசிராந்தையார் - பாரதிதாசன்

அலகு– 4   10 மணி
    அகத்திணைப் பாகுபாடுகள்
புறத்திணைப் பாகுபாடுகள்

அலகு– 5   8 மணி
    எட்டுத்தொகை-விளக்கம்
    பத்துப்பாட்டு-விளக்கம்

படைப்பிலக்கியப் பயிற்சி
    கவிதை,சிறுகதை,எழுதச்செய்தல்.

படைப்பிலக்கியப் பயிற்சி
    கவிதை,சிறுகதை,எழுதச்செய்தல்.

பாடநூல்கள்:
1. குறுந்தொகை–கழகவெளியீடு–சென்னை,
2. நற்றிணை–கழகவெளியீடு–சென்னை,
3. பட்டினப்பாலை - நியூ செஞ்சுரிபுக் ஹவுஸ்,அம்பத்தூர்,சென்னை
4. பிசிராந்தையார் - பாரதிதாசன் மணிக்கவாசகர் பதிப்பகம் சென்னை-8
5. புறநானூறு –திருமகள் பதிப்பகம், 55,வெங்கட் நாராயணாசாலை,திநகர்   சென்னை - 17
6. புதிற்றுப்பத்து–வர்த்தமானன் பதிப்பகம்,ஏ.ஆர்.ஆர். காம்ப்ளெக்ஸ் , 141 உஸ்மான் சாலை,திநகர் சென்னை -17
7. ஐங்குறுநூறு–சைவசித்தாந்த நூற்பதிப்புக் கழகம்,சென்னை - 18
8. பரிபாடல் -சாரதாபதிப்பகம்,சென்னை -14 –முதற்பதிப்பு 2009.
9. கலித்தொகை - சாரதாபதிப்பகம்,சென்னை -14 –முதற்பதிப்பு 2009.
10. அகநானூறு - சாரதாபதிப்பகம்,சென்னை -14 – மூன்றாம் பதிப்பு 2012.

பார்வை நூல்:
    1.இலக்கிய வரலாறு - கா.கோ. வேங்கடராமன்,கலையகவெளியீடுபரமத்திவேலூர் ,நாமக்கல்

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART – II	ENGLISH: IV	24LEU04	ENGLISH- IV	48	3

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
II	IV	25	75	100

PREAMBLE :

To acquaint the students an idea about the genres of English Literature with enhancing the communication competence among them.

COURSE OUTCOME:

On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Find the genres in literature.	K1
CO2	Summarize the literary devices used in the works.	K2
CO3	Make use of wider range of words and expressions in their writing.	K3
CO4	Examine the themes and techniques in literary works.	K4
CO5	Select appropriate words for writing.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	3
CO2	9	9	3	3	3	1	1
CO3	3	3	3	1	1	1	1
CO4	3	3	1	1	1	1	0
CO5	3	1	1	1	1	0	0
Total contribution of COs to POs Weightage	27	25	17	15	9	6	5
Weight Percentage of COs contribution to POs	1.98	2.27	1.87	1.94	2.34	1.86	2.07

**Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs.**

COURSE CONTENT

UNIT I: POETRY (8 Hours)

1. The Bird Sanctuary - Sarojini Naidu

2. The Justice of the Peace – Hilaire Belloc

3. The Pulley - George Herbert

UNIT II: PROSE (9 Hours)

1. I Won't let him go –Madhavan Kutty

2. A Little Bit of What You Fancy - Desmond Morris

3. Character is Destiny – Dr.S. Radhakrishnan

UNIT III: SHORT STORIES (9 Hours)

1. An Astrologer's Day – R.K.Narayan

2. Valiant Vicky – Flora Annie Steel

3. The Nightingale and the rose- Oscar Wilde

UNIT IV: ONE-ACT PLAY (10 Hours)

1. The Bishop's Candlesticks – Norman McKinnel

2. The Count's Revenge - J.H. Walsh

UNIT V: GRAMMAR AND COMPOSITION (12 Hours)

1. Framing Questions

2. Resume Writing

3. Agenda & Minutes

TEXT BOOK: MODERN VOICES

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XII	24CCU12	CORPORATE ACCOUNTING	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
II	IV	25	75	100

PREAMBLE

To enable the students to have a comprehensive knowledge for the preparation ofCorporate Accounts as per the provisions of the Company's Act.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	summarize the concepts of shares, debentures, goodwill and procedure for liquidation of companies.	K1
CO2	identify the types of shares and debentures	K2
CO3	distinguish between voluntary winding up and compulsory winding up of companies.	K3
CO4	determine the managerial remuneration of a company	K4
CO5	compute valuation of goodwill and valuation of shares.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	1	1	3
CO2	9	9	9	9	1	1	3
CO3	9	9	9	9	1	1	1
CO4	9	9	9	3	1	1	1
CO5	9	3	9	3	0	0	0
Total Contribution of COs to POs	45	39	45	33	4	4	8
Weighted Percentage ofCOs Contribution to POs	**2.25**	**2.20**	**2.50**	**2.36**	**0.533**	**0.38**	**1.34**

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation; 9-Highcorrelation between COs and POs.

COURSE CONTENT

UNIT I

Issue of Shares and Underwriting: (12 Hours)

Issue of Shares: Par, Premium and Discount – Forfeiture – Reissue – Right Issue – Bonus Share – (Theory and Problem) – Surrender of Shares (Theory only).Underwriting: meaning – Importance of underwriting – Underwriting Commission – Types of Underwriting

– re underwriting (Problems only) – Partial Underwriting(Theory only), SEBI-DEMAT (Theory only)

UNIT II

Redemption of Preference Shares and Debentures: (12 Hours)

Redemption of preference Shares: Redemption without Fresh Issue of Shares-Redemption at par out of Profits – Redemption at a premium out of profits – Redemption at Par out Fresh Issue – Redemption at a Premium, Partly out of profits and partly out of fresh issue- Redemption at a premium and fresh issue at premium-Redemption at par and Fresh issue at premium- Issue of Bonus shares by using Capital Redemption Reserve-Minimum Fresh issue of Shares.

Debenture - Meaning of Debenture- Types of Debenture - Difference between Shares and Debenture - Issue of Debenture - Redemption of Debenture: Sinking fund method only.

UNIT III

Final Accounts of Companies: (12 Hours)

Profit prior to Incorporation- Calculation of Managerial Remuneration Final Accounts of Companies (New Format) – (Simple problems only).

UNIT IV

Valuation of Goodwill and Shares: (12 Hours)

Goodwill: Meaning – Definition – Nature of Goodwill – Factors affecting the value of Goodwill – methods of valuing Goodwill : Average profit method ,Weighted Average profit Method, Super profit method and Capitalization method.

Valuation of Shares: Meaning – Importance – Factors Affecting the value of Shares – Methods of Valuation of Shares : Net Asset method, Yield Value method And Fair Value Method.

UNIT V

Liquidation of Companies: (12 Hours)

Liquidation-meaning- odes of liquidation – Statement of Affairs - Deficiency A/C – Liquidators Final Statement of Account.

Note: Distribution of Marks: Theory 20 % and Problem 80 %.

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Reddy.T.S & Murthy.A	Financial Accounting,	Margham Publication Chennai.	2012

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Gupta.R.L & Radhasamy.M	Advanced Accountancy	Sultan Chand & Co,New Delhi	2004
2	Maheswari.K. Suneel	Corporate Accounting	Vikas Publishing House, New Delhi,	2009
3	Shukla .M.C, Grewal.T.S& Gupta S.C	AdvancedAccounts	Sultan Chand & Company Ltd, NewDelhi	2012

WEB REFERENCES:

1. https://www.icsi.edu/media/webmodules/publications/Company%20Accounts,%20Cost%20and%20Management%20Accounting.pdf

2. https://www.toppr.com/guides/accounting-and-auditing/introduction-to-company-accounts/issue-of-debentures/

3. https://www.toppr.com/guides/accounting-and-auditing/introduction-to-company-accounts/\

4. https://www.slideshare.net/afukhan/valuation-of-goodwill-and-shares-with-solution-of-problems?next_slideshow=1

5. https://www.slideshare.net/AdalineDharshini/liquidation-of-companies

6. https://gurukpo.com/Content/B.Com/Corporate_Accounting(B.Com)P-1.pdf

7. https://www.slideshare.net/cpjcollege/corporate-accounting-125032473

8. https://www.icsi.edu/media/webmodules/Corporate%20and%20Management%20Accounti ng.pdf

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE: XIII	24CCU13	OBJECT ORIENTED PROGRAMMING CONCEPTS WITH C++	48	3

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
II	IV	25	75	100

PREAMBLE
    To equip the learners with the knowledge of Object-Oriented Programming with C++.
COURSE OUTCOME
After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	relate the object oriented problem solving approaches with structure oriented problems	K1
CO2	interpret the classes and objects from the given problem description and solve it using C++	K2
CO3	experiment with code reusability and extensibility by means of inheritance and polymorphism	K3
CO4	simplify the given program using arrays, constructors and overloading	K4
CO5	recommend the program logic statement for any problem using control structure	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	1
CO2	9	9	9	9	3	3	1
CO3	9	9	9	9	3	9	3
CO4	9	9	9	9	3	9	3
CO5	9	9	9	9	3	9	3
Total Contribution of COs to POs	45	45	45	45	15	33	11
Weighted Percentage of COs Contributionto POs	2.25	2.54	2.50	3.21	2.00	3.17	1.84

**Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-High correlation between COs and POs.**

COURSE CONTENT

UNIT I   **(8 Hours)**
Object Oriented Programming Concepts:
OOPs, A New Paradigm –Evaluation of Programming Paradigm- POP vs OOPS – Basic concepts: Objects –Classes –Encapsulation - Data Abstraction –Inheritance – Delegation – Polymorphism –Message Communication –Popular OOPs Languages –Merits and Demerits of OOPs Methodology –Application of OOPs.

UNIT II   **(10 Hours)**
Introduction to C++:
Key concepts of Object-Oriented Programming – Structure of C++ Program –Tokens, Expression -Basic Data Types –Symbolic Constants – Declaring Data Types -Reference Variables –Operator in C++ -Scope Resolution Operator – Expressions and Implicit Conversions –Control Structures –Functions in C++ Call by Reference –Call by Value – Inline Functions –Default Arguments –Constant Arguments –Classes and Objects – Defining Member Functions –Nesting Member Function –Private Member Function –Static Member Function.

UNIT III   **(10 Hours)**
Array, Constructor and Functions:
Array of Objects –Friend Function –Returning Objects –Constant Member Function – Pointer to Members –Constructors with Default Arguments –Copy Constructor –Dynamic Constructor –Destructor –Operator Overloading and Type Conversions –Rules for Operator Overloading – Function Overloading –Function Overloading with Arguments –Special Features of Function Overloading.

UNIT IV   **(10 Hours)**
Inheritance:
Inheritance –Types - single, Multilevel, Multiple, Hierarchical,Hybrid – Visibility– Polymorphism - Virtual Functions – Pure Virtual Function – Pointer to Derived Classes.

UNIT V   **(10 Hours)**
Console I/O Operations:
C++ Streams –Stream classes – Unformatted I/O Operation – Classesfor File Stream Operations – Opening and Closing a file – Templates - Exception Handling

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Balagurusamy.E	Object-Oriented Programming with C++	Tata Mc GrawHill, New Delhi	2013

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Ashok N Kamthane	Object-Oriented Programming with AnsiAnd Turbo C++	Pearson Education, U.K	2003
2	Maria Litvin & Gray Litvin,	C++ for you	Vikas publication, Chennai	2002

Power Point presentation, Quiz, Assignment, Experience Discussion,Brain Storming, Group Discussion, Seminar.

WEB REFERENCES:
1. https://www.tutorialspoint.com/cplusplus/cpp_tutorial.pdf
2. https://mrcet.com/downloads/digital_notes/HS/OOP_10122018.pdf
3. https://www.cet.edu.in/noticefiles/285_OOPS%20lecture%20notes%20Complete.pdf
4. https://thatchna.weebly.com/uploads/4/1/9/3/4193382/std_c_notes_03.pdf
5. http://www.lmpt.univ-tours.fr/~volkov/C++.pdf

Category	Component	CourseCode	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE :XIV PRACTICAL -III	24CCU14	COMPUTER APPLICATIONS PRACTICAL- III (C++)	36	2

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
II	IV	40	60	100

PREAMBLE:

To equip the learners with the knowledge of Object-Oriented Programming with C++.

COURSE OUTCOME :

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the basic syntax of C++ program	K1
CO2	illustrate the I/O statements of C++ program	K2
CO3	apply the control structure statements for a given problem	K3
CO4	analyse the data members and functions of class for any problem	K4
CO5	evaluate the compile time and runtime results of C++ program	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	1
CO2	9	9	9	9	3	9	1
CO3	9	9	9	9	3	9	1
CO4	9	9	9	9	3	9	1
CO5	9	9	9	9	3	9	1
Total Contribution of COs to POs	45	45	45	45	15	45	6
Weighted Percentage of COs Contributionto POs	**2.25**	**2.54**	**2.50**	**3.21**	**2.00**	**4.32**	**1.00**

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT   (36 Hours)

1. Write a simple program to calculate simple interest.

2. Write a simple program to calculate total income.

3. Write a program to calculate compound interest using class.

4. Write a program to calculate income expenditure using class.

5. Write a program to calculate balance sheet using nested class.

6. Write a program to calculate student mark details using array of objects.

7. Write a program to depreciation using straight line method and diminishing methodusing Inheritance

8. Write a program for banking transaction using multiple in heritance.

9. Write a program to calculate margin of safety using multilevel inheritance.

10. Write a program to calculate increase or decrease in working capital using operator overloading.

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XV ALLIED : IV	24CCU15	COMMERCIAL LAW	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
II	IV	25	75	100

PREAMB LE :

To make the students to acquire the knowledge on the legal provisions relating to commercial law.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	remember the various terms defined in the commercial law	K1
CO2	illustrate the formation of contract, remedies in breach of contract discharge of contract, indemnity and guarantee.	K2
CO3	identify the duties relating to the bailer, bailee and surety.	K3
CO4	examine case law with relating to minor, a person of unsound mind, a person disqualified by law, conditions and warranties.	K4
CO5	assess the validity of an offer, acceptance and person capacity to contract.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	1	1	1	3
CO2	9	9	9	1	1	1	3
CO3	9	9	9	1	1	1	3
CO4	9	3	9	3	1	1	3
CO5	9	3	9	3	1	1	3
Total Contribution of COs to POs	45	33	45	9	5	5	15
Weighted Percentage of COs Contribution toPOs	**2.25**	**1.87**	**2.50**	**0.64**	**0.67**	**0.48**	**2.50**

**Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-High correlation between COs and POs.**

COURSE CONTENT

UNITI **(12 Hours)**

Contract Act:

Law of contract-Law - meaning - Law of contract- Essential elements of valid contract- Types of contract- Offer- Legal rules relating offer- Acceptance- Essential elements of a validacceptance- Revocation of offer and acceptance - Consideration - Essential elements of a valid consideration.

UNIT II   **(12 Hours)**
Capacity and Qualification of contract:
    Capacity to contract- Law relating to minor, unsound mind, person disqualified by law-Freeconsent-coercion-undue-influence-misrepresentation-fraud and mistake-Quasi contract- Contingent - contract-Void agreement.

UNIT III   **(12 Hours)**
Performance and Remedies of contract:
        Performance and discharge of contract-Remedies for breach of contract-Contract of Agency- Agency by ratification- Rights and Duties of a Principal and Agent - Conditions and effects- Termination of agency.

UNIT IV   **(12 Hours)**
Indemnity and Guarantee:
Contract of Indemnity and Guarantee-Rights and liabilities of surety- Bailment and pledge.

UNIT V   **(12 Hours)**
 Sale of Goods Act:
        Law of sale of goods-Sale and Agreement to sell-Conditions and
Warranties-Transfer of ownership-Performance of contract of sale-Carriage of goods.

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Pillai R.S.N & Bagavathi.V	Business Law	S.Chand & Company Ltd, NewDelhi.	2010

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Kapoor N.D	Business Law	S.Chand&Sons,New Delhi	2017
2	Kathiresan& Radha .V	Commercial Law	Prasanna Publishers & Distributors, Chennai.	2014
3	Shukla M C	Mercantile Law	S.Chand&Sons,New Delhi.	1998

WEB REFERENCES:
1. https://www.legalmatch.com/law-library/article/what-is-commercial-law.html
2. https://www.kbmanage.com/concept/commercial-law
3. https://www.toppr.com/guides/business-laws/indian-contract-act-1872-part-ii/capacity-to-contract/
4. https://www.upcounsel.com/capacity-to-contract-means
5. https://www.toppr.com/guides/business-laws-cs/indian-contract-act-1872/remedies- for-breach-of-contract/
6. https://millerlawpc.com/6-remedies-breach-of-contract/
7. https://www.gordonsllp.com/whats-difference-indemnity-guarantee/
8. https://www.legalserviceindia.com/legal/article-4039-contract-of-indemnity-and-guarantee.html
9. https://www.toppr.com/guides/business-law/the-sale-of-goods-act-1930/

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART – IV	SKILL ENHANCEMENT: I	24SECCU01	MS-EXCEL FOR BUSINESS APPLICATIONS	36	2

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
II	IV	50	-	50

PREAMB LE :
        To explore the practical applications of Ms-Excel inbusiness situations.

COURSE OUTCOME:
        Upon completion of the course the students will be able to

COs	CO Statement	Knowledge Level
CO1	Retell mathematical and logical functions in MS Excel	K1
CO2	Use different formulas and functions for the business exercise	K2
CO3	Categorize the vlook up, count if ,sum if, macros and other logical formulas	K3
CO4	Estimate the net profit or loss, financial position, average sales and closing inventory	K4
CO5	Adopt the vlook up, macros, count if, reference cell and other logical functions for the real time business	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	3	3
CO2	9	9	9	9	3	3	3
CO3	9	9	9	9	3	1	1
CO4	9	3	9	9	3	0	1
CO5	9	3	3	3	3	0	0
Total Contribution of COs to POs	45	33	39	39	21	7	8
Weighted Percentage of COs contribution to POs	2.25	1.87	2.16	2.79	2.80	0.67	1.34

Level of Correlation: 0-No Correlation; 1-Low Correlation; 3-Medium Correlation; 9-High Correlation between COs and POs

LIST OF PRACTICALS:

1. Preparation of financial statement using sum functions.

2. Generation of automatic invoice bill using vlook up and macros

3. Preparation of employee's attendance using count if.

4. Preparation of company's growth using chats and pivot table.

5. Preparation of sales report using count if, maximum, minimum, sum, average.

6. Preparation of salary sheet using logical formulas.

7. Preparation of automatic report card.

8. Designing a form

9. Automated inventory management

10. Record maintenance in sales & purchase entry.

11. Automatic ID card generation based on cell value.

12. Generate BAR code

13. Interest & Loan calculation

14. Preparation of mark sheet using Goal Seek

15. Creating debit and credit ledger accounts

16. Creating Day book report

17. Total income calculations

18. TDS deductions, deposit, return in excel sheet

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – IV	ABILITY ENHANCEMENT: II	24AEU02	CONSUMER RIGHTS	24	2

Contact hours per week: 2

Year	Semester	Internal Marks	External Marks	Total Marks
II	IV	50	-	50

PREAMBLE

This paper seeks to familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	Memorize the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards	K1
CO2	Explain the Consumer Protection Law in India	K2
CO3	Impart sound practical grounding about the practice ofconsumer law and the procedure followed	K3
CO4	Evaluate the regulations and legal actions that helps to protect consumers	K4
CO5	Analyze the knowledge and skills needed for a career in this field	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	1	0	1
CO2	9	9	9	9	1	0	1
CO3	9	9	9	3	3	1	1
CO4	9	3	1	1	3	3	3
CO5	9	1	3	0	9	9	9
Total Contribution of COs to POs	45	31	31	22	17	13	15
Weighted Percentage of COs Contribution to POs	**2.25**	**1.75**	**1.72**	**1.57**	**2.27**	**1.25**	**2.50**

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9-Highcorrelation between COs and POs.

COURSE CONTENT

UNIT 1

Conceptual Framework: **(6 Hours)**
Consumer and Markets: Concept of Consumer, Nature of markets: Liberalization and Globalization of markets with special reference to Indian Consumer Markets, E-Commerce withreference to Indian Market, Concept of Price in Retail and Wholesale, Maximum Retail Price (MRP), Fair Price, GST, labeling and packaging along with relevant laws, Legal Metrology.
Experiencing and Voicing   Dissatisfaction: Consumer buying process, Consumer Satisfaction/dissatisfaction-Grievances-complaint, Consumer   Complaining Behaviour:Alternatives available to Dissatisfied Consumers; Complaint Handling Process: ISO 10000 suite

UNIT 2

The Consumer Protection Law in India: **(5 Hours)**
        Objectives and Basic Concepts: Consumer rights and UN Guidelines on consumer protection, Consumer goods, defect in goods, spurious goods and services, service, deficiency in service, unfair trade practice, and restrictive trade practice.
        Organizational set-up under the Consumer Protection Act: Advisory Bodies: Consumer Protection Councils at the Central, State and District Levels; Adjudicatory Bodies: District Forums, State Commissions, and National Commission: Their Composition, Powers, and Jurisdiction (Pecuniary and Territorial), Role of Supreme Court under the CPA with important case law.

UNIT 3

Grievance Redressal Mechanism under the Indian Consumer Protection Law.   **(5 Hours)**
        Grounds of filing a complaint; Limitation period; Procedure for filing and hearing of a complaint; Disposal of cases, Relief/Remedy available; Temporary Injunction, Enforcement of order, Appeal; Offences and penalties. **Leading Cases decided under Consumer Protection law by Supreme Court/National Commission**: Medical Negligence; Banking; Insurance; Housing & Real Estate; Electricity and Telecom Services; Education; Defective Products; Unfair Trade Practices.

UNIT 4

Role of Industry Regulators in Consumer Protection: **(4 Hours)**
i. Banking: RBI and Banking Ombudsman
ii. Insurance: IRDA and Insurance Ombudsman
iii. Telecommunication: TRAI
iv. Food Products: FSSAI
v. Electricity Supply: Electricity Regulatory Commission
vi. Real Estate Regulatory Authority

UNIT 5

Contemporary Issues in Consumer Affairs: **(4 Hours)**
Consumer Movement in India: Evolution of Consumer Movement in India, Formation of consumer organizations and their role in consumer protection, Misleading Advertisements andsustainable consumption, National Consumer Helpline, Comparative Product testing, Sustainable consumption and energy ratings.
Quality and Standardization: Voluntary and Mandatory standards; Role of BIS, Indian Standards Mark (ISI), Ag-mark, Hallmarking, Licensing and Surveillance; Role of International Standards: ISO an Overview
Note: Unit 2 and 3 refers to the Consumer Protection Act, 1986. Any change in law would be added appropriately after the new law is notified

REFERENCE BOOKS:
1. Khanna, Sri Ram, Savita Hanspal, Sheetal Kapoor, and H.K. Awasthi. (2007) *ConsumerAffairs,* Universities Press.
2. Choudhary, Ram Naresh Prasad (2005). *Consumer Protection Law Provisions andProcedure,* Deep and Deep Publications Pvt Ltd.
3. G. Ganesan and M. Sumathy. (2012). *Globalisation and Consumerism: Issues andChallenges*, Regal Publications
4. Suresh Misra and Sapna Chadah (2012). Consumer Protection in India: Issues andConcerns,IIPA, New Delhi
5. Rajyalaxmi Rao (2012), *Consumer is King,* Universal Law Publishing Company
6. Girimaji, Pushpa (2002). *Consumer Right for Everyone* Penguin Books.
7. E-books :- www.consumereducation.in
8. Empowering Consumers e-book,
9. ebook, www.consumeraffairs.nic.in
10. *The Consumer Protection Act, 1986 and its later versions.* www.bis.org

Articles
1. Misra Suresh, (Aug 2017) ‒Is the Indian Consumer Protected? One India One People.
2. Raman Mittal, Sonkar Sumit and Parineet Kaur (2016) Regulating Unfair Trade Practices: An Analysis of the Past and Present Indian Legislative Models, Journal of Consumer Policy.
3. Chakravarthy, S. (2014). MRTP Act metamorphoses into Competition Act. CUTS Institutefor Regulation and Competition position paper. Available online at www.cuts-international.org/doc01.doc.
4. Kapoor Sheetal (2013) ‒Banking and the Consumer‖ Akademos (ISSN 2231-0584)
5. Bhatt K. N., Misra Suresh and Chadah Sapna (2010). Consumer, Consumerism andConsumer Protection, Abhijeet Publications.
6. Kapoor Sheetal (2010) ‒Advertising-An Essential Part of Consumer's Life-Its Legal and Ethical Aspects‖, Consumer Protection and Trade Practices Journal, October 2010.
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Periodicals
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2. Recent issues of magazines: International Journal on consumer law and practice, NationalLawSchool of India University, Bengaluru
3. ‗Consumer Voice', Published by VOICE Society, New Delhi.

WEB REFERENCES:
www.ncdrc.nic.in
www.consumeraffairs.nic
.inwww.iso.org.
www.bis.org.in
www.consumereducation.
inwww.consumervoice.in
www.fssai.gov.in

SEMESTER – V

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE : XVI	24CCU16	DIRECT TAX LAWS AND PRACTICE	72	5

Contact hours per week: 6

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE
To familiarize and update the students with the provisions of Income Tax Act and computation of Income Tax for individuals.

COURSE OUTCOME:
After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	spell out the definitions of assessment year, previous year, assessee and various heads of income under Income Tax Act, 1961.	K1
CO2	describe the concepts of income, exempted income, residential status of assessee, basis of charge and various provisions and rules under Income Tax Act including permissible deductions and set-off and carry forward of losses.	K2
CO3	apply the income tax provisions, tax rate slabs, rebate and surcharge in computation of total income and income tax liability of individuals.	K3
CO4	analyse the deductions permissible under section 80 C to 80 U.	K4
CO5	determine the tax liability of an individual	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	3	3	3
CO2	9	9	9	3	3	3	3
CO3	9	9	3	3	3	3	9
CO4	9	9	3	3	1	3	9
CO5	9	9	3	3	1	3	9
Total Contribution of COs to POs	45	45	27	15	11	15	33
Weighted Percentage of COs Contribution to POs	2.25	2.54	1.50	1.07	1.47	1.44	5.51

Level of Correlation: 0-No Correlation; 1-Low Correlation; 3-Medium Correlation; 9-High Correlation between COs and POs

COURSE CONTENT

UNIT I   **(15 Hours)**

Basic Concepts of Income tax

　　Income Tax Act – Definition of Income– Assessment year – Previous year - Assessee – Basis of Charge: Residential status – Scope of Total Income – Exempted Incomes.

UNIT II   **(14 Hours)**

Heads of Income – I

　　Income from Salaries - Income from House property.

UNIT III   **(14 Hours)**

Heads of Income – II

　　Profits and Gains of Business or Profession – Income from other sources

UNIT IV   **(14 Hours)**

Heads of Income –III & Deductions

　　Capital gains–Deductions from Gross Total Income

UNIT V   **(15 Hours)**

Tax Liability and Tax planning

　　Set-off and Carry Forward of Losses – Computation of tax liability – Assessment of Individuals – Tax planning: Meaning, Objectives, Types- Tax evasion Vs Tax avoidance.

Note: Distribution of marks: Theory 40% and Problems 60%

TEXT BOOK:

Authors	Title	Publisher	Year of Publication
Gaur.V.P. &Narang.D.B.	Income Tax Law & Practice	Kalyani Publishers, New Delhi.	2017

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Dinkar Pagare	Tax Laws	S.Chand& Sons, New Delhi	2017
2	Lal.B.B, Vanshist. N.	Direct Taxes	I.K. International Publishers, New Delhi	2017
3	Mehrotra.H.C.	Income Tax Law & Accounts	Sahithya Bhavan Publishers, Agra	2017

WEB REFERENCES:

1. https://www.scribd.com/doc/48730434/B-Com-INCOME-TAX-STUDY-MATERIAL

2. https://gurujionlinestudy.com/income-tax-law-accounts-study-material-notes-in-hindi/

3. https://www.slideshare.net/puneetarora171/residential-status-26793962

4. https://www.slideshare.net/altacitglobal/exempted-income-under-income-tax-act

5. https://www.incometaxindia.gov.in/pages/tools/income-tax-calculator.aspx

6. https://cleartax.in/s/80c-80-deductions

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XVII	24CCU17	VB.NET	48	3

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE :

To equip the learners with fundamental concepts of visual basic .Net

COURSE OUTCOME

After completion of the course, the learners will be:

COs	CO Statement	Knowledge Level
CO1	recalling the basic concepts of event driven programming and database	K1
CO2	demonstrate the components of IDE and dialog boxes usingproperties and methods	K2
CO3	build the GUI –program using the controls and functions	K3
CO4	test the accessibility of each module to handle the user errors	K4
CO5	determine the appropriate controls to incorporate the IDE windowwith database software	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	5	5	5	5	3	3	1
CO2	5	5	5	5	3	3	1
CO3	5	5	5	5	3	5	3
CO4	5	5	5	5	3	5	3
CO5	5	5	5	5	3	5	3
Total Contribution ofCOs to POs	25	25	25	25	15	21	11
Weighted Percentageof COs Contribution to POs	**1.25**	**1.41**	**1.39**	**1.79**	**2.00**	**2.02**	**1.84**

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9-High correlation between COs and POs.

COURSE CONTENT

UNIT I   **(8 Hours)**

Visual studio-VB.NET- Introduction – History – features of VB.NET - OOPS with VB.NET (basic concepts) – Integrated Development Environment (IDE) –Form window, code designer, Solution explorer window, server explorer window, output window, Command window, Properties window.

UNIT II   **(10 Hours)**

Tool box: Properties, Events, Methods of form, Label ,Text box, List Box, Combo box, Radio Button, Check Box, Daytime Picker, Calendar, Picture Box, Hscroll Bar, VScroll Bar, Group box ,Tool tip, Timer– Event Driven Programming.

UNIT III   **(10 Hours)**

Variable declaration – Data Types – Operators – Expression – Control Structures: Decision Making –Looping Statements – Array.

UNIT IV   **(10 Hours)**

Working with Windows forms: Properties, Events – SDI – MDI - Dialog Boxes – Input Box – Messagebox - Functions - Procedures.

UNIT V   **(10 Hours)**

ADO.NET – Introduction – various Databases – Connectivity Using ADO.NET- Data Source – Data Grid View. Crystal Reports: Introduction – Kinds of reports – Report generation.

TEXT BOOK:

Author	Title	Publisher	Year ofPublication
C Muthu	Visual Basic. Net	McGraw Hill Education	2008
Steven Holzner	Visual Basic .NET ProgrammingBlack Book	Dreamtech Press	2005

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1.	Jeremy Shapiro	Visual Basic.Net: The CompleteReference	McGraw Hill Education	2017

WEB REFERENCES:

1. https://www.mheducation.co.in/visual-basic-r-net-the-complete-reference-9780070495111-india
2. https://www.amazon.in/Visual-Basic-NET-Programming-Black/dp/8177226096
3. https://www.tutorialspoint.com/vb.net/index.htm
4. https://www.javatpoint.com/vb-net

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE: XVIII	24CCU18	BUSINESS ANALYTICS	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE
To develop programming skills in Python for effective decision making in business

COURSE OUTCOME
After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the basic concepts data, big data , Object Oriented Programming Concepts (OOPs), programming in Python, control structure, list and string functions, python file operations and summon up the various terminology used in Tableau software.	K1
CO2	visualize the python program using Python comments, control structures, list and visualize the data using tableau charts, data on the web and time series analysis	K2
CO3	applying the python scripts , python comments to create tables and files. experiment data to link multiple sources such as web data, control panel actions, graphs, containers, table calculations, and more.	K3
CO4	analyze the need of different business application fields by running a python programs using different python functions and solve the business issues in pertaining to business by applying tableau programs	K4
CO5	evaluate business analysis techniques for decision making using python. forecasting the business activity efficiently by using tableau forecasting methods	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	9	3
CO2	9	9	9	9	1	9	1
CO3	9	9	9	3	1	3	1
CO4	9	3	9	3	1	3	1
CO5	9	3	3	3	1	3	1
Total Contribution of COs to POs	45	33	39	27	13	27	7
Weighted Percentage of COs Contribution to POs	2.25	1.87	2.16	1.93	1.73	2.59	1.17

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-High Correlation between COs and POs.

COURSE CONTENT

UNIT I (12 Hours)

Introduction to data:

Data – Big Data - Types of Data, Types of Digital Data, Types of data sets – Data quality - Data Collection, Data mining - Data warehousing–DBMS – RDBMS - **Business Analytics:** Introduction to Business Analytics- Concept of Analytics, Types of Analytics, organization and source of data, dealing with missing or incomplete data.

UNIT II (12 Hours)

Object oriented Programming Concepts (OOPs) with Python:

Python Object Oriented Programming Concepts: class – object – inheritance - polymorphism – encapsulation – Data abstraction. Python- numbers, strings, variables, operators, Input/output statements. **Control Structures:** if statement, if-else statement – **looping statement**: While and for loops .**Collections:** List –set - tuple and dictionary.

UNIT III (12 Hours)

File and Database Concepts in Python:

Reading files, Writing files in python, Understanding read functions, read(), readline(), readlines(). Understanding write functions, write() and writelines() .Connecting to a database, Creating Tables, INSERT, UPDATE, DELETE and READ operations, Transaction Control, Disconnecting from a database, Exception Handling in Databases.

UNIT IV (12 Hours)

Introduction to Tableau:

Business Intelligence (BI) Evolution- Introduction to Tableau- Getting started - Tableau file- Data Types and Terminology–Work sheet. **Data visualization**: Types of charts-calculated field and Parameters-Bins-Table calculations. **Tableau dashboard:** Connecting to various sources- Connecting to web data –Building dash boards-Dashboard actions-Layouts-Formatting-Story points.

UNITV (12Hours)

Level of Detail Calculations:

Row level access and column level access-Control charts-Using INDEX to sort multiple columns-SQL Overview- Joins- UNION vs UNION ALL, WITH Statements. **Time Series Analysis and Forecasting:** Perform calculations with time series data in Tableau.

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Ben Jones	Communicating Data with Tableau: Designing, Developing, and Delivering Data Visualizations,	O'Reilly Media, Inc.	2014
2	Charles Dierbach	Introduction to Computer Science using Python	Wiley Publication	2015
3	Frank J. Ohlhorst,	Big Data Analytics	1st Edition, Wiley	2012
4	Jake VanderPlas	Python Data Science Handbook - Essential Tools for Working with Data,	O'Reily Media,Inc Publication	2016
5	Kenneth Lambert	Fundamentals of Python: First Programs	Cengage learning Publishers	First edition, 2012 (ISBN-13:978-1337560092)
6	Michel Dawson	Python Programming for Absolute Beginers	Third Edition, Course Technology Cengage Learning Publications,	2013
7	Prasad RN, Seema Acharya,	Fundamentals of Business Analytics	2nd edition, Willey publications	2014
8	Wesley J. Chun	Core Python Applications Programming	3rd Edition , Pearson Education	2016

WEB REFERENCE:

1. https://books.goalkicker.com/PythonBook/

2. https://library.oapen.org/bitstream/id/56d27e73-e92a-4398-8198-239be7aacc93/2020_Book_IntroductionToScientificPogra.pdf

3. https://www.tutorialspoint.com/python/python_tutorial.pdf

4. https://www.youtube.com/watch?v=b093aqAZiPU

5. https://www.slideshare.net/ranpararipal/python-final-ppt

6. https://www.powershow.com/view0/8a8ef4-NTQ3M/Overview_of_Python_History_Advantages_Applications_IQOnlineTraining_powerpoint_ppt_presentation

7. https://tanthiamhuat.files.wordpress.com/2015/07/communicating-data-with-tableau.pdf

8. https://tanthiamhuat.files.wordpress.com/2015/07/tableau-your-data.pdf

9. http://projanco.com/Library/Learning%20Tableau%202019%20Tools%20for%20Business%20Intelligence,%20data%20prep,%20and%20visual%20analytics.pdf

10. https://oiipdf.com/download/22138

11. https://www.analyticsvidhya.com/blog/2017/07/data-visualisation-made-easy/

12. https://www.tableau.com/learn/articles/data-visualization

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART – III	CORE : XIX	24CCU19A / 24CCU19B / 24CCU19C	INSTITUTIONAL TRAINING/ ARTICLESHIP TRAINING/ MINI PROJECT	-	1

Contact hours per week: Nil

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	100	-	100

PREAMBLE:

To expose the students to real work of environment experience and to gain the knowledge through hands on observation and job execution.

COURSE OUTCOME

After completion of the course, the learners will be able to:

COs	CO Statement	Knowledge Level
CO1	recall the various practical thoughts about business	K1
CO2	demonstrate the domain knowledge of business	K2
CO3	Apply the business knowledge in solving the problems in the organization.	K3
CO4	compare the theory with practical concepts of business	K4
CO5	evaluate critically the policies, practices, theories of business	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	3
CO2	9	9	9	3	3	3	3
CO3	9	3	3	3	1	3	1
CO4	9	3	3	1	1	1	1
CO5	9	1	1	1	1	1	1
Total Contribution of COs to POs	45	25	25	17	9	17	9
Weighted Percentage of COs	2.25	1.41	1.39	1.21	1.20	1.63	1.50

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation; 9-Highcorrelation between COs and POs.

COURSE CONTENT

Rules Governing Institutional Training

- Each student should undergo Institutional Training during fourth semester Summer Vacation for a period of 21 working days.
- The Institutions meant for training shall be the Banks/Insurance Companies, Post Office, Co-operative Organizations, Regional Rural Banks, Public Ltd Companies or any other organizations recognized by the Department of Commerce
- After the completion of the training, each student has to submit an Institutional training Report (two copies) within 45 days after reopening of the college for the fifth semester. It should be approved by the guide. The training report shall be valued internally by the Department for a maximum of 100 marks.
- **Break up of 100 Marks:**
  Work Diary   : **20 Marks**
  Evaluation of Report   : **40 marks**
  Viva - voce **Examination**   : **40 marks**

  100 marks

- For a pass in Institutional Training, the student should secure a minimum of 50% Marks (50 Marks)
- The result will be published along with the V End Semester Examination.
  The final mark list will be handed over to the Controller of Examination by the Head of the Department.

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART – III	CORE : XX PRACTICAL : IV	24CCU20	COMPUTER APPLICATIONS PRACTICAL- IV (VB.NET)	36	-

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	-	-	-

PREAMBLE:

To develop the practical skills of VB .Net

COURSE OUTCOME :

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the various tools of VB.NET environment	K1
CO2	demonstrate the components of VB.NET window	K2
CO3	use control statements to activate event procedures in forms	K3
CO4	analyse the menus and properties that brings other applications into VB.NET	K4
CO5	evaluate the connection between VB.NET and MYSQL or MS-Access through ADO.NET	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	1
CO2	9	9	9	9	3	9	1
CO3	9	9	9	9	3	9	1
CO4	9	9	9	9	3	9	1
CO5	9	9	9	9	3	9	1
Total Contribution of COs to POs	45	45	45	45	15	45	6
Weighted Percentage of COs Contribution to POs	2.25	2.54	2.50	3.21	2.00	4.32	1.00

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9-High correlation between COs and POs.

<u>COURSE CONTENT</u>   **(36 Hours)**

1. Write a VB.NET program to design a simple calculator to perform basic   arithmetic operation.
2. Write a VB.NET program to find the depreciation for a given number of years
3. Write a VB.NET program to check whether given year is a leap year or not and display it in message box.
4. Write a VB.NET program to calculate compound interest.
5. Design a VB.NET program for employee payroll system using ADO.NET.

Category	Components	Course Code	Course Title	Contact Hours	Credit
PART: III	CORE: XXI OPEN ELECTIVE COURSE	24TAUOE1	திறன் மேம்பாட்டு கல்வி	48	2

Contact hours per week : 4

Year	Semester	Internal Mark	External Marks	Total Marks
III	V	25	75	100

முகப்புரை:

தனிதிறன் மேலாண்மையையும் செயல்பாட்டினையும் வளர்கும் முறையினை அறிவர்.

COURSE OUTCOME :

தனிதிறன் அறிவினைக் கற்பதன் மூலம் கீழ்க்காணும் நிலையை அடைவர்.

COs	CO Statement	Knowledge Level
CO1	பேசுதல், எழுதுதல், தொடர்புகொள்ளுதல் ஆகியவற்றைக் குறித்து அறிந்து கொள்வர்.	K1
CO2	திட்டமிடல், செயல்படுத்துதல் ஆகியவற்றை கற்பர்.	K2
CO3	நேர மேலாண்மை, குழு கலந்துரையாடல், நேர்காணல் செய்தல் போன்றவற்றில் திறம்பட செயலாற்றுவர்.	K3
CO4	தனிநபர் செயல்பாடு, ஆக்கத்திறன், தனிமனித விழுமியங்கள் ஆகியவற்றை பகுத்து ஆராய்வர்.	K4
CO5	தன்னப்பிக்கை, ஊக்கம், முயற்சி, நேர்மறை சிந்தனை, மக்கள் தொடர்பு ஆகியவற்றை உணர்ந்து மதிப்பிடுவர்	K5

K1: Remember Level , K2:UnderstandLevel , K3: Apply Level , K4: Analyze Level, K5: Evaluate Level

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	3	3	9	9	9
CO2	9	9	9	9	9	3	3
CO3	9	3	9	9	9	9	9
CO4	9	3	3	9	3	9	9
CO5	9	9	9	9	9	9	9
Total contribution of COs to POs Weightage	45	33	33	39	39	39	39
Weight Percentage of COs contribution to POs	2.29	2.09	2.08	2.48	3.24	3.22	3.60

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs.

COURSE CONTENT

அலகு -1   10 மணி

ஆளுமைத் திறன் மேம்பா தலைமைப் பண்பு, பேசுதல், எழுதல்,   தொடர்பு கொள்ளுதல்,
குழு செயல்பாடு, தனிநபர் செயல்பாட்டு விளக்கம்.

அலகு-2   9
மணி

செயல் திறன் மேம்பாடு திட்டம் அமைத்தல், செயல்படுத்துதல், இடர்பாடுகள், செயலாக்கம்

அலகு-3   10
மணி

நேர்காணல்நேர மேலாண்மை, செயல்படுத்துதல், முன்தயாரிப்பு, உடல் அசைவு மொழிகள்,
குழு கலந்துரையாடல், அறிமுக நிகழ்வு, இன்றைய தகவல்கள் குறித்த விழிப்புணர்வு

அலகு-4   10
மணி

உணர்வு மேலாண்மைதனிநபர் செயல்பாடு, ஆக்கத்திறன், தனி மனித விழிமியங்கள், வெற்றி
உன் கையில்

அலகு -5   9 மணி

உன்னை நீ அறிவாய்தன்னம்பிக்கை, ஊக்குவித்தல், முயற்சி, நேர்மையான சிந்தனை,
மக்களுடன் தொடர்பு கொளளுதல்

பாட நூல்கள்:

ஆளுமைத் திறன், பாதை தெரியுது பார், நெல்லைகவினேசன், தினத்தந்தி வெளியீடு,

பார்வை நூல்கள் :

1.சாதிக்க ஆசைப்படு, டாக்டர் சே.சைலேந்திரபாபு, சுரா பதிப்பகம், அண்ணா நகர், சென்னை

2. நேர்முகத் தேர்வை எதிர்கொள்வது எப்படி?, சே.ஆனந்த முருகன், சிவம் புத்தகாலயம்,
சென்னை

3. முடியும் என்றால் முடியும், ரவி பாரதி, நர்மதா பதிப்பகம், தி.நகர், சென்னை.

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credit
PART: III	CORE :XXI OPEN ELECTIVE	24ENUOE1	ENGLISH FOR EFFECTIVE COMMUNICATION	48	2

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
III	**V**	**25**	**75**	**100**

PREAMBLE:
To focus the theory and fundamental tools of communication and various dimensions of communication skills.

COURSE OUTCOME:
On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Define the verbal and Non-Verbal Communication	**K1**
CO2	Explain the practice in four modes of literacy.	**K2**
CO3	Make use of appropriate Verbal and Non Verbal signs for effective communication.	**K3**
CO4	Examine the primary academic writing associated with the communication.	**K4**
CO5	Assess the communicative competencies such as managing conflict, understanding group processes, active listening, appreciate self-disclosure ,etc..	**K5**

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	3
CO2	9	9	9	3	3	3	1
CO3	9	9	3	3	3	1	1
CO4	9	3	3	1	1	0	0
CO5	3	3	3	1	0	0	0
Total contribution of COs to POs Weightage	**39**	**33**	**27**	**17**	**10**	**7**	**5**
Weight Percentage of COs contribution to POs	**2.86**	**3.00**	**2.97**	**2.20**	**2.60**	**2.17**	**2.07**

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;

9- High correlation between COs and POs.

COURSE CONTENT

UNIT I : Aspects Of Communication   **(9 Hours)**
1. Communication through Words
2. Communication through Body Language
3. Communication through Technology

UNIT II : **Oral Communication**   **(10 Hours)**
1. Dyadic communication
2. Active listening
3. Meetings
4. Seminars and conferences
5. Group discussions

UNIT III : Written Communication   **(10 Hours)**
1. Reading Comprehension
2. Précis writing
3. Business and Technical Reports
4. Style
5. Technical Proposals

UNIT IV : Written Communication   **(10 Hours)**
1. Memorandum Writing
2. Notice, Agenda, Minutes
3. Handbooks and Manuals
4. Research Papers and Articles
5. Advertising and Job Description

UNIT V : Mechanics Of Manuscript Preparation   **(9 Hours)**
1. Editing and Proofreading
2. Copy Editing
3. Punctuation and Capitalization
4. Abbreviations and Numerals

TEXT BOOK:
Developing Communication Skills by Krishna Mohan & Meera Banerji

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART- III	CORE –XXI OPEN ELECTIVE	24MAUOE1	MATHEMATICS FOR BUSINESS	48	2

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE:

To enable the students to learn Business Mathematics.

COURSE OUTCOME:

On the successful completion of the course, students will be able to

COs	CO STATEMENT	KNOWLEDGE LEVEL
CO1	recall the basic concepts of sequence and series ,matrix, set theory, simple interest and compound interest.	K1
CO2	interpret sequence and series ,matrix, set theory, simple interest and compound interest.	K2
CO3	apply different quantitative models in solving business problems	K3
CO4	determine the solutions of the problems based on matrix , simple interest and compound interest problems	K4
CO5	evaluate the problems on sequence and series ,matrix, set theory, simple interest and compound interest problems.	K5

K_1 - Remember; K_2 – Understand; K_3 - Apply; K_4 - Analyze; K_5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	3
CO2	9	9	9	3	3	3	1
CO3	9	9	3	3	3	1	1
CO4	9	3	3	1	1	0	0
CO5	3	3	3	1	0	0	0
Total Contribution of COs to POs	39	33	27	17	10	7	5
Weighted Percentage of COs contribution to POs	2.24	2.08	1.82	1.24	1.18	0.92	0.73

Level of Correlation: 0–No Correlation; 1–Low Correlation; 3–Medium Correlation; 9- High Correlation between COs and POs

COURSE CONTENT

UNIT - I   **SERIES**   **(10 Hours)**

Sequence and series - Arithmetic progression –Geometric progression –

Arithmetic mean - Geometric mean – Harmonic mean.

UNIT - II   **MATRICES**   **(6 Hours)**

Fundamental ideas about Matrices and their operational rules- Matrix Multiplication- Inverse of a matrix.

UNIT - III   **SET THEORY**   **(6 Hours)**

Introduction- Types of sets- Set operation- Venn diagrams, Inconsistency of data.

UNIT - IV   **MATHEMATICS OF FINANCE**   **(7 Hours)**

Simple Interest.

UNIT - V   **MATHEMATICS OF FINANCE**   **(7 Hours)**

Compound Interest.

NOTE: No derivation and proof, simple problems only.

TEXT BOOK

Navnitham P.A (2012) – "Business Mathematics and Statistics", Sultan Chand & Sons, New Delhi.

UNIT	CHAPTER	PAGE
I	**1**	**1 -33.**
II	**4**	**147-184.**
III	**3**	**104-136.**
IV	**2**	**43-51.**
V	**2**	**51-61.**

REFERENCE BOOK:

Vittal.P.R (2002) - "Business Mathematics and Statistics, Margham publishers, Chennai.

WEB REFERENCES:
1. http://www.mim.ac.mw/books/Business%20mathematics%20and%20statistics,%206 th%20ed.pdf
2. https://en.wikipedia.org/wiki/Business_mathematics
3. https://youtu.be/pn2Fx9-G1Ds

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE: XXI OPEN ELECTIVE	24PHUOE1	PHYSICS IN DAY TO DAY LIFE	48	2

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE:
    To demonstrate knowledge and understanding of the fundamental concepts in Physics

COURSE OUTCOME:
    After completion of the course, the learners will be able to

COs	Course Statement	Knowledge Level
CO1	Identify the measurements, Electric Current, Electricity, Magnetism, Electrolysis, Magnetic field effect and Natural Phenomena's in Atmosphere	K1
CO2	Explain the concepts in Electricity, standard units and Types of Motion, Electric power, Effects of current and Magnet, lightning, thunder, water harvesting, coal and petroleum	K2
CO3	Perform different SI units in measurement, electricity and magnetism, electric potential, resistance, chemical effect of Electric current and magnetism	K3
CO4	Criticize the measurements of different units, Electricity, Resistance, associate reaction of magnetic Poles, Protection against natural calamities,	K4
CO5	Interpret the measuring, electric current, Laws in Physics, electricity and magnetism, Natural Resources	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

POs/ COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	1
CO2	9	9	9	3	3	1	1
CO3	9	9	3	3	2	1	1
CO4	9	3	3	1	1	1	1
CO5	3	3	3	1	1	1	1
Total Contribution of COs to POs	39	33	27	17	10	7	5
Weighted Percentage of COs Contribution to POs	2.25	2.17	1.96	1.47	1.12	0.98	0.70

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs

COURSE CONTENT

UNIT- I - Motion and Measurements of Distances   **(10 Hours)**
History of Transportation-Measurement of Length – Distance-Conventional Methods of Measurement-Standard Units of Measurement-Types of Motion

UNIT- II - Electricity   **(10 Hours)**
Electric current-Electric circuit-Components of basic electric circuit: Cell, Switch, and Bulb Conductor-Insulator-Electric potential and potential difference-Circuit diagram-Ohm's law Factors on which the resistance of conductor depends-Resistance of a system of resistors-Heating effect of electric current-Electric power

UNIT- III - Chemical Effects of Electric Current and Magnetism   **(10 Hours)**
Conduction of Electricity-Conduction of Electricity in Liquids – Electrolysis-Electrolysis and Electroplating - Discovery of Magnets-Magnet-Poles of a magnet-Like poles repel and unlike poles attract Magnetic Field of Earth and Compass

UNIT- IV - Some Natural Phenomena   **(9 Hours)**
Lightning-Charging by rubbing-Transfer of Charge-The Story of Lightning-Lightning Safety Phenomena related to earthquakes-Protection against earthquakes

UNIT- V - Management of Natural Resources   **(9 Hours)**
Save the Environment from Environmental Pollution – Reuse– Recycle-Why do we need to manage our natural resources-Forest and wildlife-Sustainable management-Water for all : dam-Water harvesting-Coal and petroleum

Reference Book
1.Monograph – Department of Physics

Web reference
1. https://www.researchgate.net/publication/277130091_Energy_Resources_Indian_Scenario
2. https://www.aps.edu/energy-conservation/energy-lessons-and-games/energy-lessons-and-games/26_HS-IssueOfRenewableEnergy.pdf
3. https://ncert.nic.in/textbook/pdf/hesc114.pdf
4. https://www.learncbse.in/motion-and-measurement-of-distances-class-6-notes/
5. https://web.njit.edu/~vitaly/121/notes121.pdf

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credit
PART: III	CORE: XXI OPEN ELECTIVE	24CSUOE1	INTERNET FOR EVERYONE	48	2

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE :

This course provides an insight of formal introduction to internet, WWW, finding information in the Internet and awareness on Internet Security and Privacy, illustrate the Possibilities of Social Networking. Learning discussion forum software, Effective use of video conferencing, Blogging& Making Money in the Internet.

COURSE OUTCOME:

On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	To get familiar with basics of the Internet, World Wide Web and Web browsers.	K1
CO2	Obtain the Knowledge of Finding Information in the Internet and awareness on Internet Security and Privacy.	K2
CO3	Understand How to email, tips for effective use of Email, Advantages and Disadvantages of Email.	K3
CO4	To illustrate the Possibilities of Social Networking. Learning discussion forum software & effective use of video conferencing.	K4
CO5	To learn Blogging & Making Money in the Internet.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyse; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

POs / COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	1
CO2	9	9	9	3	3	3	1
CO3	9	9	3	3	3	1	1
CO4	9	3	3	1	1	0	1
CO5	3	3	3	1	0	0	1
Total Contribution of COs to POs	39	33	27	17	10	7	5
Weighted Percentage of COs Contribution to POs	2.18	1.97	1.67	1.09	1.09	0.58	0.36

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs.

COURSE CONTENT

UNIT I   **Introduction to Internet, WWW & Web Browsers**   **(10 Hours)**

What is Internet? - How does Internet Work? - What is Special about the Internet? - What is WWW? - Internet and Web - How does the web works? - What are web browsers? - Types of Browsers - Web Browsing Tips.

UNIT II   **Searching the Web, Safety & Privacy**   **(10 Hours)**

Information Sources - Finding Information on the internet - Searching the Web - Search Engines - Making Your Search- Improving Your Searching - Tips for Internet Research- Privacy - Anonymity - Understanding Security and Privacy.

UNIT III   **E- Mail**   **(10 Hours)**

Introduction - How E-mail works? - Why uses E-mail? - E-mail Names and Addresses - Mailing Basics - How Private is the e-mail? - Email Ethics - Spamming - E-mail Advantages and Disadvantages - Tips for effective E-mail use - E-mail Safety tips.

UNIT IV   **Social Networking and Discussion Forums**   **(8   Hours)**

Introduction - Social Networking Timeline - Why Social Networking? - Dangers of Social Networking? -Discussion Forums - Discussion Forum Software - Internet Telephony - Video Conferencing.

UNIT V   **Making Money on the Internet and Blogging**   **(10 Hours)**

What is a Blog? - Why Blog? - Why is Blogging so Popular? - Blog Search Engines and Communities - Blogs and Employment - Pitfalls to avoid while blogging. Introduction - Writing Product Reviews - Sharing Your Knowledge - Advertising - Affiliate programs - Selling - Online Tutoring.

TEXT BOOK(S):

1. Alexis Leon, Mathews Leon , INTERNET FOR EVERYONE ,Vikas Publishing Housing Pvt Ltd , 15th Anniversary Edition

REFERENCE BOOK(S):

1. Keiko Pitter, Sara Amato,JohnCallahan,Niger Kerr, Eric Tilton, Robert Minato,Tata McGraw-Hill Edition 2003
2. Peter Weverka, The Everyday Internet All-in-One Desk Reference for Dummies,Wiley Publishing Inc, 3rd Edition

WEB REFERENCES
1.https://www.tutorialspoint.com/computer_concepts/computer_concepts_introduction_to_internet_www_web_browsers.htm
2.https://www.tutorialspoint.com/internet_technologies/e_mail_overview.htm
3. https://geekflare.com/make-money-with-blogging

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credit
PART: III	CORE: XXI OPEN ELECTIVE	24ITUOE1	BASICS OF COMPUTER TECHNOLOGY	48	2

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE :
To learn about the basics of Computer Technology

COURSE OUTCOME:
On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Recall the basics of Computer	K1
CO2	Illustrate the concepts of data communication and Computer networks	K2
CO3	Utilize Middleware and Gateways	K3
CO4	Analyze the concepts of Mobile Computing	K4
CO5	Examine the DBMS Architecture	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyse; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

POs / COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	1
CO2	9	9	9	3	3	3	1
CO3	9	9	3	3	3	1	1
CO4	9	3	3	1	1	0	1
CO5	3	3	3	1	0	0	1
Total Contribution of Cos to Pos	39	33	27	17	10	7	5
Weighted Percentage of Cos Contribution to POs	2.18	1.97	1.67	1.09	1.09	0.58	0.36

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT

UNIT I   **Computer Basics**   **(9 Hours)**

Introduction-Generations of Computers-Classification of Computers- Central Processing Unit-Communication among Various Units-Memory Hierarchy-RAM-ROM-Secondary Storage Devices-Operating System: Introduction- Definition-Types.

UNIT II   **Data Communication and Computer Networks**   **(10 Hours)**

Introduction- Data Communication- Transmission Media- Multiplexing- Switching. Computer Network: Types of Computer Networks- Network Topologies- Communication Protocol. Internet: Introduction-Basic Internet Terms- Internet Applications-Search Engines.

UNIT III   **Database Fundamentals**   **(9 Hours)**

Introduction-Definition-Logical Data Concepts-Physical Data Concepts-Database Management System-DBMS Architecture-Types of Databases.SQL: Introduction-Getting Started with SQL.

UNIT IV   **Mobile Computing**   **(10 Hours)**

Wireless The beginning –Mobile Computing –Dialogue Control—Networks –Middleware and Gateways –Application and Services-Developing Mobile Computer Applications – Security in Mobile Computing–Architecture for Mobile Computing-Mobile Computing through Telephone—IVR Applications.

UNIT V   **Cloud Computing**   **(10 Hours)**

Introduction- From- Collaboration to cloud- Working of cloud computing-Pros and Cons-Benefits- Developing cloud computing services- Cloud service development-Discovering cloud services-Collaborating on schedules-Collaborating on calendars-Evaluating web conference tools- Creating groups on social networks- Understanding cloud storage-Evaluating on line file storage.

TEXT BOOK(S):
1. Alexis Leon ,MathewsLeon,Introduction to Information Technology, 2nd Edition, ITL Limited ITL Education Solutions Limited,Publisher(s): Pearson Education India,ISBN: 9789332525146
2. Asoke K Talukder , Roopa R Yavagal,Mobile Computing, TMH, 2005
3. Anthony T. Velte, "Cloud Computing- A Practical Approach", Tata McGraw Hill Education Private Limited, 1st Edition (2013).

REFERENCE BOOK(S):
1. Alexis Leon ,MathewsLeon,Fundamentals of Information Technology, ITL Limited
2. KumkumGarg,Mobile Computing, Pearson Education, 2010.
3. Michael Miller, Cloud Computing, Pearson Education, New Delhi, First Edition, 2013

WEB REFERENCES:
1.https://mrcet.com/pdf/Lab%20Manuals/IT/R15A0529_CloudComputing_Notes-converted.pdf
2.https://mjginfologs.com/mobile-computing-architecture/
3.https://www.guru99.com/dbms-architecture.html
4.https://www.tutorialspoint.com/data_communication_computer_network/index.htm

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credit
PART: III	CORE: XXI OPEN ELECTIVE	24CAUOE1	MACHINE LEARNING	48	2

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE :
To learn about the basics of Computer Technology

COURSE OUTCOME:
On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Remember Machine Learning Fundamentals	K1
CO2	Understanding the Machine Learning Concepts	K2
CO3	Summarize the Impact of Machine Learning Applications	K3
CO4	Analyze How Machine Learning Support to Business Goals	K4
CO5	Evaluate the Knowledge of Machine Skills	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyse; K5 – Evaluate.

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

POs / COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	1
CO2	9	9	9	3	3	3	1
CO3	9	9	3	3	3	1	1
CO4	9	3	3	1	1	0	1
CO5	3	3	3	1	0	0	1
Total Contribution of COs to POs	39	33	27	17	10	7	5
Weighted Percentage of COs Contribution to POs	2.18	1.97	1.67	1.09	1.09	0.58	0.36

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs. As per UGC Notification

COURSE CONTENT

UNIT I   **Overview of Machine learning**   **(9 Hours)**
Understanding Machine Learning- What Is Machine Learning? - Defining Big Data- Big Data in Context with Machine Learning- The Need to Understand and Trust your Data- The Importance of the Hybrid Cloud- Leveraging the Power of Machine Learning- The Roles of Statistics and Data Mining with machine learning- Putting Machine Learning in Context- Approaches to Machine Learning.

UNIT II   **Machine Learning Techniques**   **(10 Hours)**
Getting Started with a Strategy- Understanding Machine Learning Techniques- Tying Machine Learning Methods to Outcomes- Applying Machine Learning to Business Needs.

UNIT III   **Machine Learning on Applications**   **(9 Hours)**
Looking Inside Machine Learning- The Impact of Machine Learning on Applications- Data Preparation- The Machine Learning Cycle.

UNIT IV   **Getting Started with Machine Learning**   **(10 Hours)**
Getting Started with Machine Learning- Understanding How Machine Learning Can Help- Focus on the Business Problem- Machine Learning Requires Collaboration- Executing a Pilot Project- Determining the Best Learning Model.

UNIT V   **Learning Machine Skills**   **(10 Hours)**
Learning Machine Skills- Defining the Skills That You Need- Getting Educated- Using Machine Learning to Provide Solutions to Business Problems- Applying Machine Learning to Patient Health- Leveraging IoT to Create More Predictable Outcomes- Proactively Responding to IT Issues- Protecting Against Fraud- Ten Predictions on the Future of Machine Learning.

TEXT BOOK(S):
1. Judith Hurwitz and Daniel Kirsch,Machine Learning for dummies, IBM Limited Edition,2018

REFERENCE BOOK(S):
1. Ethem Alpaydin, Introduction to Machine Learning, Second Edition, The MIT Press Cambridge, Massachusetts London, England

WEB REFERENCES:
1. https://www.sciencedirect.com/topics/computer-science/machine-learning#:~:text=Machine%20learning%20(ML)%20refers%20to,being%20programmed%20with%20that%20knowledge.
2. https://www.javatpoint.com/machine-learning-techniques
3. **https://www.simplilearn.com/tutorials/machine-learning-tutorial/machine-learning-applicationS**

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credit
PART-III	CORE : XXI OPEN ELECTIVE	24AMUOE1	ADVANCED EXCEL -PRACTICAL	48	2

Contact hours per week: 4

Year	Semester	Internal Marks	ExternalMarks	Total Marks
III	V	40	60	100

PREAMBLE :
To provide skills and knowledge which will allow the attendee to Learn MS Excel tools andtechniques

COURSE OUTCOME:
On the successful completion of the course, students will be able to

COs	CO Statement	KnowledgeLevel
CO1	Use a range of lookup and reference functions.	K1
CO2	Modify Excel options.	K2
CO3	Customize the formatting of charts in Excel.	K3
CO4	Create and use labels and names in a workbook.	K4
CO5	Group cells and use outlines to manipulate the worksheet	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	3	1
CO2	9	9	9	3	3	3	1
CO3	9	9	3	3	3	1	1
CO4	9	3	3	1	1	0	1
CO5	3	3	3	1	0	0	1
Total Contributionof COs to POs	39	33	27	17	10	7	5
Weighted Percentage of COs Contribution toPOs	2.18	1.97	1.67	1.09	1.09	0.58	0.36

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation; 9- High correlation between COs and POs.

Microsoft Excel

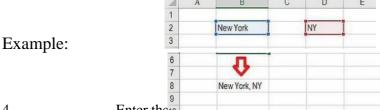1. Find out the Total, minimum , maximum and average values using the formula in thegiven table

First Name	Last Name	Hours	Rate	Gross Pay	Tax	Net Pay	Superannuation
Virginia	Bernard	16	25.90	414.40	82.88	331.52	33.15
Catherine	Harvest	24	16.40	393.60	78.72	314.88	31.49
Steve	Jones	40	28.50	1,140.00	228.00	912.00	91.20
Sam	McGregor	40	25.70	1,028.00	205.60	822.40	82.24
Sandra	O'Shea	35	29.60	1,036.00	207.20	828.80	82.88
Eddie	Smith	40	28.50	1,140.00	228.00	912.00	91.20

2. Prepare a bar chart using the below table

		Week 1	Week 2	Week 3	Week 4
2	Sales				
3		Week 1	Week 2	Week 3	Week 4
4					
5	Monday	296,114	565,042	429,746	123,445
6	Tuesday	70,500	78,967	85,889	117,015
7	Wednesday	520,830	360,389	244,488	110,585
8	Thursday	83,296	520,242	82,467	112,728
9	Friday	520,140	83,333	87,611	119,158
10		1,490,880	1,607,973	930,201	582,931

3. Write down the formula to concatenate the data in two different cells into a single cell

Example:

	A	B	C	D	E
1					
2		New York		NY	
3					
6					
7		⬇			
8		New York, NY			
9					

4. Enter the .... details ...., Name, age, Marks for 3 subject and display the count of the students whose avg>=60

5. Find out the week No and day of the given table using date function

Current Date	Week No	Day of the year
5/3/2018		
5/23/2021		
2/23/2022		
5/23/2010		
5/23/2008		
12/27/2021		

6. Create a workbook with the following details

Emp. No	Name	Basic Salary	House Rent	Conv. Allowance	Medical Allowance	Gross	Tax	Net
1	ABC	8000						
2	XYZ	3500						
3	KLM	8900						
4	WXY	4500						
5	MNO	6500						
6	PQR	4000						
7	STU	7800						

Total Salary [   ]

Find out the following details
i) Calculate House Rent (if Basic Salary is greater than 5000 then 45% otherwise 30%)
ii) Calculate Conv. Allowance (if Basic Salary is greater than 5000 then 30% otherwise 20%)
iii) Calculate Medical Allowance (if Basic Salary is greater than 5000 then 60% otherwise 45%)
iv) Calculate Gross Pay, Net Pay

7. From the above given table find
i) Calculate Tax (if Gross is greater than 15000 then 10% otherwise 0)
ii) Calculate total salary of those employees whose salary is less than 5000
iii) Count no. of employees who are not giving tax

8. Create a workbook with the following details

Reg. ID	Name	Quizes (10)	Mid-Terms		Mids (Total) (30)	Assignment (10)	Project + Pres (10)	Final (40)	Total (100)	Grade
			M1	M2						
101	ABC	10	13	8		9	10	35		
201	XYZ	9	12	12		8	9	32		
301	KLM	7	15	15		7	8	28		
401	WXY	8	13	13		9	7	31		
501	MNO	9	10	12		10	5	36		
601	PQR	8	7	2		9	9	30		
701	STU	6	2	12		8	7	21		

No. of D's [   ]   No. of F's [   ]

Find out the following
i) Calculate Mid-Total, Total
ii) Calculate Grade using If condition
iii) Calculate no. of D (below 60 and above 40) and F (below 40) grades

9. Find out the following details from the given table
    i) Find out the city, departure time and terminal of Flight No. LH 5842 using   vlookup formula
  ii) Find out the no. of flights coming on terminal 2 using formula.

flight-Nr	city	departure	terminal	gate
EW 730	Bremen	14:50	T1	164
6E 235	Dortmund	16:00	T1	170
KL 1874	Amsterdam	16:00	T2	146
AF 2009	Paris	16:15	T1	114
LH 299	Berlin	16:20	T2	162
LH 5860	Madrid	16:25	T1	164
LH 5842	Barcelona	16:30	T1	166
LH 1369	München	17:00	T2	131
LH 5966	London	17:10	T1	161

10. Create a google sheet with the following details
 i) Subtract both A and B series, then find the ABSOLUTE value in the next column.
 ii) Share the sheet with your friend

Series A	Series B
10	8
6	8
7	9
5	8

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART - III	CORE: XXI OPEN ELECTIVE	24BAUOE1	START-UP BUSINESS	48	2

Contact hours per week: 4

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE:
   The course is designed to understand the practices and technology to start a business.

COURSE OUTCOME:
   On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Find out the start-up activities of a business.	K1
CO2	Demonstrate the trends and supporting agencies for starting a business.	K2
CO3	Build the importance of start-up ideas and map the strategies to start a business with different stages of business.	K3
CO4	Categorise the application of start up business activities	K4
CO5	Evaluate the ideologies of start-up business in real time scenario	K5

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	0	0
CO2	9	9	9	3	3	1	1
CO3	9	9	3	3	0	3	1
CO4	9	3	3	1	3	0	3
CO5	3	3	3	1	1	3	0
Total Contribution of COs to POs	39	33	27	17	10	7	5
Weighted Percentage of COs Contribution to POs	2.23	2.26	2.29	1.71	1.22	1.22	0.81

**Level of correlation: 0 – No correlation;   1- Low correlation;   3 – Medium correlation;
9 – High correlation between COs and POs**

COURSE CONTENT

UNIT- I   INTRODUCTION TO START-UP   (10 Hours)
Start-up: Meaning- Difference between start-up idea and opportunity-Need for start-up-Qualities required for a start-up-Factors influencing start-up-Problems for start-up- Startup scenario in India.

UNIT -II   MENTORING AND FUNDING FOR START-UP   (10 Hours)
Ownership structure for start-up -Selection of mentors-Importance of start-up mentors Bootstrapping-Funding for start-up.

UNIT- III   START-UP IDEAS AND MINDMAPPING   (10 Hours)
Start-up ideas: Market-Focus Groups-Brainstorming-Gordon Method-Collective notebook method and Big dream approach-Mind mapping.

UNIT- IV   LIFE CYCLE STAGES OF START-UP   (10 Hours)
Life cycle stages of start-up's – Activities during each stage-Interaction with a start-up entrepreneur.

UNIT- V   START-UP REGISTRATION & PRACTICAL TRAINING (8 Hours)
Student start-up's-Role of TBI in promoting start-up- Start-up registration process - overview of start-up marketing ideas.

BOOK FOR REFERENCE:

S. no	Authors	Title	Publishers	Year of publication
1.	Vijayakumar Ivaturi, Meena Ganesh	The manual for Indian start-ups	Penguin Random House India	2018

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART –III	CORE :XXII ELECTIVE I	24CCU21A	ENTREPRENEURIAL DEVELOPMENT PROGRAMME	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE:

To equip the students to acquire entrepreneurial skill to start up a business.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	Recollect the basic terms such as entrepreneurs, entrepreneurship, interpreneurs, micro, small, and medium enterprises, start-ups, project finance, incentives and subsidies and industrial sickness.	K1
CO2	explain the domain concepts of entrepreneurship particularly objectives of entrepreneurship development programme, comparison of micro, small,medium industries with large scale industries, causes, symptoms and consequences of industries sickness.	K2
CO3	apply new ideas, creative and innovative skills ininnovative start-ups.	K3
CO4	analyze the business environment to identify businessopportunities and contribution of women entrepreneurs, problems of start-ups, social cost benefits analysis and risk analysis.	K4
CO5	Evaluate the efficacy of different entrepreneurial strategies,phases of entrepreneurship development programme, the system of appraisal and rehabilitation of sick units.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	1	1	1
CO2	9	9	9	9	1	1	1
CO3	9	9	3	3	3	1	3
CO4	9	3	3	1	1	0	1
CO5	9	3	3	1	1	0	1
Total Contributionof COs to POs	45	33	27	23	7	3	7
Weighted Percentage of COs contribution to POs	2.25	1.87	1.50	1.64	0.933	0.29	1.17

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT

UNIT I (12 Hours)

Entrepreneurship - An overview: Meaning - need - Objectives and Phases - Traits, functions and types of Entrepreneur - Intrepreneur - Women Entrepreneur - Entrepreneurship development Programmes - Role of Entrepreneurship in economic development.

UNIT II (12 Hours)

Small Scale Industry and Startups: Definition, meaning and importance of small scale industry - classification - scope - investment criterion - steps in starting small scale industry - factors influencing the choice of organization - Micro, Small and Medium Enterprises(MSME) -UDYOG AADHAR- Establishing entrepreneurial system - Product reserved for small scale industrial units.
Start Ups: Meaning - Start up initiative by the Government - Innovations - Sources of finance for start-up - Venture capital - Strategies for the success of start-ups - Problems of start-ups - Start up in India-Introduction to Industry 5.0.

UNIT III (12 Hours)

Project Identification: Selection of a project - Project formulation - Technical, commercial, economic, financial and management appraisal - Social cost benefit analysis - Project risk analysis - Preparation of feasibility report -Project review.

UNIT IV (12 Hours)

Project Financing: Project cost estimation - Sources of finance - Institutions assisting entrepreneurs - SFC"s(TIIC), IFCI, SISI, SIDCO, NSIC, SIPCOT - role of commercial banks - Incentives and subsidies - CROWD FUNDING and ANGEL INVESTORS -export incentives - consultancy services - role of DIC in Consultancy Services.

UNIT V (12 Hours)

Industrial Sickness: Meaning and causes of industrial sickness - symptoms, diagnosis, consequences of industrial sickness - measures to prevent industrial sickness - rehabilitation of sick units - steps taken by the Government to remove industrial sickness

TEXT BOOK:

Author	Title	Publisher	Year of Publication
Gorden .E &Natarajan .K	Entrepreneurial Development	Himalayas publication house, New Delhi	2013
Vasant Desai	Small Scale Industries and Entrepreneurial	Himalayas publication house, New Delhi	2011
Vasant Desai	Project Management and Entrepreneurship	Himalayas publication house, New Delhi	2014

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1.	Gupta C.B&SrinivasanN.P	Entrepreneurial Development	S,Chand & sons,New Delhi	2014
2.	KhanhaS.S	Entrepreneurial Development	S,Chand &sons, New Delhi	2014
3.	Murthy C.S.V	Small Scale Industries and	Himalayaspublication house, New Delhi-2011	2011
4.	Natarajan,K	Project Management	New age international (p) LTD, Publishers, New Delhi	2007
5.	SubbaRao.K.V	Project Management	Adhithiyam publishers &Distributors, New Delhi-2002	2002

WEB REFERENCES:

1. https://www.investopedia.com/terms/e/entrepreneur.asp
2. https://freebcomnotes.blogspot.com/2016/05/intrepreneur-and-its-types.html
3. https://www.slideshare.net/PriyankaPayalPareek/women-entrepreneurship-60858559
4. https://www.yourarticlelibrary.com/entrepreneurship/entrepreneurship-development-programmes-meaning-need-and-objectives-of-edp/40707
5. https://www.slideshare.net/SimranKaur116/entrpreneurial-development- programme
6. https://www.slideshare.net/Vikky991991/small-scale-industry-76753675
7. https://cleartax.in/s/small-scale-industries-ssi
8. https://www.slideshare.net/NileshSarda2/startup-india-ppt
9. https://www.forbes.com/sites/bernardmarr/2018/09/02/what-is-industry-4-0-heres-a-super-easy-explanation-for-anyone/?sh=556aa70a9788
10. https://qsstudy.com/business-studies/project-identification
11. https://www.slideshare.net/avz1227/project-identification-report-44126753
12. https://www.bankbazaar.com/personal-loan/project-financing.html
13. https://www.slideshare.net/corporatebridge/project-financing-in-indai
14. https://businessjargons.com/industrial-sickness.html
15. https://www.academia.edu/32612049/REHABILITATION_OF_SICK_INDU STRIAL_UNITS

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credit
PART – III	CORE : XXII ELECTIVE I	24CCU21B	BUSINESSFINANCE	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE:

To make the students to understand the finance functions, traditional and modern roleof business finance.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	summon up the various jargons used in Business Finance	K1
CO2	describe the different concepts of finance, financial planning, capitalization, capital structure, capital budgeting and cost of capital	K2
CO3	select the best financial plan, capital structure and sources of finance	K3
CO4	examine the procedures of financial planning, theories of capitalization, pattern of capital structure, process of capital budgeting and cost of capital	K4
CO5	verify the efficacy of the sound financial plan, capitalization theories, capital budgeting techniques and cost of capital	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	1	1	1
CO2	9	9	9	9	1	1	1
CO3	9	9	3	3	3	1	3
CO4	9	3	3	1	1	0	1
CO5	9	3	3	1	1	0	1
Total Contributionof COs to POs	45	33	27	23	7	3	7
Weighted Percentage of COs contribution to POs	2.25	1.87	1.50	1.64	0.933	0.29	1.17

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation; 9-High correlation between COs and POs.

COURSE CONTENT

UNIT I (12 Hours)

Business Finance: Introduction – Meaning – Concepts - Scope – Finance function – approaches to finance function – aims of finance function -Traditional and Modern Concepts - factors affecting financial decisions.

UNIT II (12 Hours)

Financial Planning: Meaning – Need – types - essentials of a sound financial plan – consideration in formulating financial plans – steps in financial planning- estimating long term and short term financial needs- limitations of financial planning.

UNIT III (12 Hours)

Capitalization and Capital Structure : Capitalization : Meaning- Modern concepts of capitalization- Need-Theories of capitalization- Over Capitalisation and Under Capitalisation– Causes, effects, Merits and demerits-Remedies–Watered Stock .

Capital Structure: Definition -Need-Pattern of capital structure- Determinants of Capital structure- Theories of capital structure- Net Income approach, Net Operating Income approach, Modigliani & Miller Approach, Capital Gearing.(simple problems in Theories of capital structure).

UNIT IV (12 Hours)

Capital Budgeting: Meaning –Importance-Process of capital budgeting- capital budgeting techniques-Payback Period method, Average Rate of Period method(ARR), Net Present Value method(NPV),Internal Rate of Return method(IRR), Profitability Index Method(PI),Limitations of capital budgeting.(Simple Problems)

UNIT V (12 Hours)

Cost of capital and Sources of Finance: Cost of capital: Meaning- Concepts-Calculation of Cost Debt, Cost of preference capital, Cost of equity capital, Cost of retained earning-weighted average cost of capital.

Sources of finance: Classification- Long term sources-Equity shares, preference shares, Bonds and debentures, fixed deposits- short term sources- Internal financing-Lease financing-Features- Merits and demerits. (Simple problems in cost of capital).

TEXT BOOKS:

Author	Title	Publisher	Year of Publication
Shashi K Gupta& Anuj Gupta	Business Finance	Kalyani Publishers, New Delhi	2014
Sharma R.K.& Gupta	Financial management	Kalyani Publishers, New Delhi.	2016

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Agarwal, Nair & Banerjee	BusinessFinance	Pragati Prakashan Meerut.	2000
2	Kuchhal S.C.	Financial management	Vikas Publishing House, New Delhi. publication,NewDelhi	2012
3	S.N. Maheshwari)	Financial management	Mc- Graw Hill Education, New Delhi	2014
4	Sri Vatsava. R.M. Shubhra Verma	Essentials of Business Finance	Himalaya Publishing House, New Delhi.	2016

WEB REFERENCES:

1. https://www.slideshare.net/KasamsettySailatha/financial-planning-64821702
2. http://accioneduca.org/admin/archivos/clases/material/sour ces-of-financing_1563992424.pdf
3. https://www.egyankosh.ac.in/bitstream/123456789/6194/1/Unit-5.pdf
4. https://wikifinancepedia.com/finance/limitations-of-financial-planning
5. https://www.slideshare.net/umeshutage/capitalisation-69712195
6. https://www.youtube.com/watch?v=9fBrZOYhs54
7. https://www.slideshare.net/groupalankit/what-do-you-mean-by-trading-on- equity
8. https://www.slideshare.net/sagar_sjpuc/capital-structure-presentation-775432
9. https://www.yourarticlelibrary.com/financial-management/lease-financing-types-advantages-and-disadvantages/43833

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XXII ELECTIVE I	24CCU21C	APPLICATION OF INFORMATION TECHNOLOGY IN COMMERCE	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	25	75	100

PREAMBLE:

To provide students with the fundamental knowledge of the use of computers in various fields of commerce.

COURSE OUTCOME:

After completion of the course, the learners will be able to:

COs	CO Statement	Knowledge Level
CO1	Learning the basics of ERP,E-Trading, ONDC, Digital literacy and cloud computing	K1
CO2	Summarize the concepts of electronic trading protocols and cloud computing	K2
CO3	Apply the information technology latest tools in various areas of finance and service industries	K3
CO4	Analyze the features of digital avenues in commerce	K4
CO5	Evaluate and explore various the digital applications used in Commerce.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	1	1	1
CO2	9	9	9	9	1	1	1
CO3	9	9	3	3	3	1	3
CO4	9	3	3	1	1	0	1
CO5	9	3	3	1	1	0	1
Total Contributionof COs to POs	45	33	27	23	7	3	7
Weighted Percentage of COs contribution to POs	2.25	1.87	1.50	1.64	0.933	0.29	1.17

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT

UNIT I

Enterprise Resource Planning (ERP): **(12 Hours)**

ERP: An overview - Meaning and definition – Prominent features of ERP Application: Data Mining – Financial Management – Market Research and Analytics - Customer Relationship Management – Business Process Control - Benefits of using an ERP Application - Top Functional Modules of ERP Applications - Best Practices for ERP Application Implementation - The Role of ERP in Regulatory Compliance - ERP Integration.

UNIT II **(12 Hours)**

Electronic Trading in Financial Markets:

Fundamentals of E-Trading: The Electronic Order Book: Key components - Buy orders, Sell orders and Order history - Algorithmic Trading - Advanced Electronic Trading: Common electronic trading protocols - click to trade, dark-pools and request for quotes (RFQs). Platform Building - capital markets platforms: MarketAxess, Bond Book and BondCliQ.

UNIT III **(12 Hours)**

ONDC: Revolutionizing Digital Commerce in India

Meaning-Objectives, Concept of ONDC-Features, Uses of ONDC- Approaches of ONDC-Challenges and Advantages of ONDC-Network Partners of ONDC and Financial Services of ONDC, Radio Frequency Identification, Imminent Technologies.

UNIT IV **(12 Hours)**

Digital Literacy and Digital Empowerment

Definition of Digital Literacy- Current Trends of Digital Technology - Evaluating the credibility of online information- Copyright and plagiarism awareness - Important application of our country DigiLocker, E-Hospitals, e-Pathshala, e-Kranti (Electronic Delivery of Services), e-Health Campaigns.

UNIT V **(12 Hours)**

Cloud Computing:

Introduction to cloud computing – types- platforms: AWS-Google app engine – Microsoft Azure – Hadoop - Distributed Storage Systems – Virtualization-Cloud Security.

REFERENCE BOOKS:

1. https://www.udemy.com/course/the-complete-technical-analysis-course/
2. https://www.udemy.com/course/technical-analysis-masterclass-practice-assignments-course/?couponCode=NVDPRODIN35\
3. https://www.youtube.com/watch?v=-4_fwzC4PNI
4. https://www.techopedia.com/definition/order-book
5. https://paytm.com/blog/ondc/ondc-explained-what-is-ondc-and-how-to-place-an-order/
6. https://vinodkothari.com/2023/11/introducing-financial-services-on-ondc-opportunities-challenges-for-digital-lenders/
7. https://www.techtarget.com/searchcloudcomputing/definition/cloud-computing
8. https://www.oracle.com/in/cloud/what-is-cloud-computing

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – IV	SKILL ENHANCEMENT II	24SECCU02	DESKTOP PUBLISHING (PRACTICAL)	36	2

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	50	-	100

PREAMBLE :

To develop the practical skills of Photoshop, CorelDraw and flash

COURSE OUTCOME :

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the present tools in photo shop, corel draw and flash	K1
CO2	demonstrate a graphic image effectively using tools in photo shop, Corel DRAW and flash	K2
CO3	make use of graphic tools to prepare passport size photo, logo, invitation and banner using photo shop andcorel DRAW	K3
CO4	examine the usage of colors, layers ,filter, curve tools in photo shop and Corel DRAW	K4
CO5	evaluate the necessary tools to design graphics andmake animation effect	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	1
CO2	9	9	9	9	3	9	1
CO3	9	9	9	9	3	9	1
CO4	9	9	9	9	3	9	1
CO5	9	9	9	9	3	9	1
Total Contribution of COs to POs	45	45	45	45	15	45	5
Weighted Percentage of COs Contribution to POs	2.25	2.54	2.50	3.21	2.00	4.32	1.00

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;

9-Highcorrelation between COs and POs.

COURSE CONTENT

PHOTOSHOP   **(13Hours)**

1. Create sunflower using photo shop.
2. Create snow effect in photo shop.
3. Convert black and white image into color image using photo shop.
4. Design a leaf and create water drops on leaf in photo shop.
5. Convert passport size photos using photo shop.

CORELDRAW   **(13 Hours)**

6. Design a mickey-mouse face using curve and shape tool in corel draw.
7. Create our national flag using curve tool in corel draw.
8. Design a logo in corel draw.
9. Create an invitation using corel draw.
10. Design a banner for department function using corel draw.

FLASH   **(10 Hours)**

11. Design a ball and make it bounce using flash.
12. Design stick man and give animation using flash.

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART V	PROFICIENCY ENHANCEMENT	24PECCU01	BUSINESS AND COMMERCIAL KNOWLEDGE (SELF - STUDY)	-	2

Contact hours per week: NIL

Year	Semester	Internal Marks	External Marks	Total Marks
III	V	--	100	100

PREAMBLE

To enable the students to learn themselves and acquire knowledge of business and commerce.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	Recall the meaning and definitions of various business and commercial terminologies.	K1
CO2	Explain the characteristics of different forms of business organizations and functions of stock exchanges.	K2
CO3	Compare the nature of various forms of business organizations.	K3
CO4	Evaluate the functions of stock exchanges, methods of trading in stock exchanges and factors influencing demand andsupply.	K4
CO5	assess the essentials and qualities of a successful businessmen.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	9	3	3
CO2	9	9	9	3	9	3	3
CO3	9	3	9	3	9	1	3
CO4	9	3	9	3	9	1	3
CO5	9	3	9	3	3	1	3
Total Contribution of COs to POs	45	27	45	15	39	9	15
Weighted Percentage of COs Contributionto POs	2.25	1.53	2.50	1.07	5.20	0.86	2.50

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation; 9-High correlation between COs and POs.

COURSE CONTENT

UNIT I

Nature and Scope of Business:

Meaning and definition of business- Characteristics of business- Scope of business- Business system- Objectives of modern business- Essentials of a successful business- Qualities of a successful business men- Development and growth of various forms of business organization- Business ethics.

UNIT II

Forms of Business Organization:

Sole proprietorship business- Partnership firms- Joint Hindu Family firm- Joint stock companies- Co- operative institutions- Public enterprises- Public utility services.

UNIT III

Stock Exchange:

History and Evolution of Stock Exchange- Functions of Stock Exchange- Organization of Stock Exchange- Services of Stock Exchange- Membership in Stock Exchanges- Classification of members inIndia- Investors and Speculators- Kinds of speculators- Methods of trading- Listing of securities- Securities Exchange Board of India (SEBI)- Functions- Salient features.

UNIT IV

Business Economics:

Meaning and Definition of Business Economics- Concept of marginal utility- Law of Diminishing Marginal Utility- Importance of Diminishing Marginal Utility- Law of demand- Factors influencing demand- Meaning of supply- Law of supply- Determinants of supply- Assumptions of supply.

UNIT V

Common Business Terminologies:

 i) **Finance and Business Terminologies:**

Bater system- Money- Legal tender- Call money- Earnest money- Money market- Capital market- Bank- Central bank- Co-operative bank- Rural bank- Bank rate- Credit card- Debit card- Insurance- Life insurance- General insurance- Tax- Assessment year- Financial year- Previous year- Direct tax- Indirect tax- GST.

ii) Marketing Terminologies:

Market- Marketing- Marketing mix- Channels of distribution – Advertising – Branding – Brand name- Trade mark- Copy right- Goodwill- Sellers market and buyers market- Wholesaler- Retailer- Consumer- Customer- Multiple shop-Chain store- Super market- Black market- Export- Import- Balanceof payment- STD- Fax- Telephone- Video conferencing.

iii)Accounting Terminologies:

Accounts- Single entry system- Double entry system- Journal- Ledger- Trial balance- Profit and lossAccount- Balance sheet- Debtors and creditors- Assets and liabilities- Capital- Gross profit and net profit- Inventory- Invoice- Depreciation- Royality- Hire purchase and installment- Capital expenditureand revenue expenditure- Auditing- Voucher- Working capital- Trade discount- cash discount.

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1.	Kathiresan & Radha.V	Business Organization	Prasanna Publishers, Chennai.	2006
2.	Sankaran.S	Business Economics	Margham Publications, Chennai	2014

WEB REFERENCE:

1. https://www.icai.org/post.html?post_id=13831
2. https://www.toppr.com/guides/commercial-knowledge/business-and-commercial-knowledge/
3. https://www.youtube.com/watch?v=bVDDOsB4vcg
4. https://www.youtube.com/watch?v=y8OhMXsIs60
5. https://www.youtube.com/watch?v=4vu5beepK2M

SEMESTER VI

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XXIII	24CCU22	COST AND MANAGEMENT ACCOUNTING	84	5

Contact hours per week: 7

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	25	75	100

PREAMBLE:

To equip the learners to understand the techniques of cost accounting to become cost accountant and to familiarize them with the nature and concepts of management accounting and enable them to take managerial decisions using tools and techniques of management accounting.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect various meaning and definition of the terminologies used in the Cost and Management Accounting	K1
CO2	illustrate the fundamental knowledge on cost sheet, basic elements of costing and different ratios, cash flow and fund flow statements and marginal costing	K2
CO3	apply the techniques for computing EOQ, wage payment, labour turnover, overhead, ratios, cash from operations, break even sales, contribution, variable cost and sales.	K3
CO4	distinguish between cost accounting, financial & management accounting, fund flow analysis & cash flow analysis	K4
CO5	determine levels of stock, computation of control of labour, different ratios, cash from operation, fund from operation, variable cost, contribution, break even sales and sales	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	1	3
CO2	9	9	9	9	3	1	3
CO3	9	9	9	9	3	9	3
CO4	9	9	9	9	3	3	3
CO5	9	9	9	9	3	9	3
Total Contribution ofCOs to POs	45	45	45	45	15	23	15
Weighted Percentageof COs contribution to POs	**2.25**	**2.54**	**2.50**	**3.21**	**2**	**2.21**	**2.50**

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;

9- Highcorrelation between COs and POs.

COURSE CONTENT

UNIT I **(16 Hours)**
Overview of Cost Accounting:
Cost Accounting – Definition – Meaning and Scope – Concept and Classification – Costing an aid to Management — Types and Methods of Cost – Elements of Cost - Preparation of Cost Sheet.

UNIT II **(17 Hours)**
Materials, Labour & Overhead:
Meaning, Importance and techniques of Material Control: Levels of material Control – Need for Material Control – Purchasing of Materials – Procedure and documentation involved in purchasing – Requisition for stores –Economic Order Quantity
System of wage payment – Idle time – Control over idle time – Labour turnover. Computation and control of labour –Overhead – Classification of overhead – allocation and absorption of overhead -Primary and Secondary Distribution

UNIT III **(16 Hours)**
Management Accounting: Tools and Techniques:
Nature and scope of Management Accounting – Meaning – Nature – Scope – Functions – Objectives – Importance – Limitations – Distinction between Financial Accounting and Management Accounting – Relationship between cost and management Accounting – Tools and Techniques of Management Accounting.

UNIT IV **(18 Hours)**
Ratio Analysis and Marginal costing:
Ratio Analysis - Significance and Limitations of Ratio Analysis-Classification of Ratios - Analysis of Short-term Financial Position (Liquidity Ratios and Turnover Ratios) -Analysis of Long-term Financial Position - Analysis of Profitability.
Marginal Costing- Meaning-Marginal Costing Vs Absorption Costing-PV Ratio-Break Even Analysis-Limitations of Break Even Analysis-Applications of Marginal Costing.

UNIT V **(17 Hours)**
Fund Flow and Cash Flow Analysis:
Fund Flow statement – Meaning– Importance and Limitations - Funds Flow statements Vs Income Statement and Balance Sheet – Schedule of changes in working capital – Funds from operations- Preparation of Funds Flow statement.
Cash Flow statement- Meaning– Comparison between Fund Flow statement and Cash Flow statement – Uses of Cash Flow statement – Limitations – Preparation of Cash Flow Statement.
NOTE : **Distribution of marks : Theory 40% and Problems 60%**

TEXT BOOK:

Author	Title	Publisher	Year of Publication
Reddy T.S. & Hari Prasad Reddy .Y	Cost Accounting	Margham Publishers, Chennai	2012
Sharma R.K .and Shashi K.Gupta	Management Accounting	Kalyani Publications, Chennai	2016

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1.	Arora M.N.	Cost Accounting Principles & Practices	Vikas Publishing House, Chennai	2008
2.	Iyengar .S.P.	Cost Accounting	Sultan Chand & Sons, Chennai	2000
3.	Jain S.P & Narang	Cost Accounting Principles and Practice	Kalyani Publishers, Chennai	2002
4.	Pillai R.S.N. & Bagavathi .V	Cost Accounting	S. Chand & Company Limited, Chennai	2001
5.	Saxena V.K. & Vashist C.D.	Advanced Cost & Management Accounting	Sultan Chand & Sons, Chennai	1994
6.	Khan M Y and Jain P K	Management Accounting,	TataMcGrew Hill Publishiung Company Limited, New Delhi	2007
7.	Maheswari S N	Principles of Management Accounting	Sultan Chand and Sons, New Delhi	2009

WEB REFERENCES:

1. https://static.careers360.mobi/media/uploads/froala_editor/files/Cost-Sheet.pdf

2. https://www.economicsdiscussion.net/wages/payment-of-wages/payment-of-wages/32489

3. https://www.tutorialspoint.com/accounting_basics/management_versus_cost_accounting.htm

4. https://www.ilearnlot.com/management-accounting-objectives-nature-and-scope/55016/

5. https://www.educba.com/ratio-analysis-formula/

6. https://corporatefinanceinstitute.com/resources/knowledge/accounting/working-capital-cycle/

7. https://www.investopedia.com/terms/c/cashflowstatement.asp

8. https://www.youtube.com/watch?v=OzOtwYargcU

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XX PRACTICAL : IV	24CCU20	COMPUTER APPLICATIONS PRACTICAL- IV (VB.NET)	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	40	60	100

PREAMBLE:

To develop the practical skills of VB .Net

COURSE OUTCOME

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recollect the various tools of VB.NET environment	K1
CO2	demonstrate the components of VB.NET window	K2
CO3	use control statements to activate event procedures in forms	K3
CO4	analyse the menus and properties that brings other applications into VB.NET	K4
CO5	evaluate the connection between VB.NET and MYSQL or MS-Access through ADO.NET	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	1
CO2	9	9	9	9	3	9	1
CO3	9	9	9	9	3	9	1
CO4	9	9	9	9	3	9	1
CO5	9	9	9	9	3	9	1
Total Contribution of COs to POs	45	45	45	45	15	45	5
Weighted Percentage of COs Contribution to POs	2.25	2.54	2.50	3.21	2.00	4.32	1.00

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;
9-High correlation between COs and POs.

COURSE CONTENT   (60 Hours)

1. Design a VB.NET program to conduct a quiz program and evaluate the answers.

2. Write a VB.NET program to design the list of menus and submenus using menu editor

3. Write a VB.NET program to maintain the stock level in a department store and prepare a report using ADO.NET

4. Create a database for storing student details using ADO.NET (add, update, delete).

5. Create a database for storing library details using ADO.NET and display using Data Grid view.

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE : XXIV PRACTICAL - V	24CCU23	COMPUTER APLLICATIONS PRACTICAL – V (BUSINESS ANALYTICS)	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	40	60	100

PREAMBLE:

To explore the practical knowledge in python and tableau in business situations.

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	Remember the basic concepts of python and tableau for the business transactions.	K1
CO2	Demonstrate the procedures of python scripts using control structures and filtering, sorting , charts in tableau.	K2
CO3	Apply the editing and formatting scripts in python and tableau.	K3
CO4	Analyse the various steps for preparing visualization and charts using python and tableau	K4
CO5	Evaluate the performance of operations on python dictionaries and forecasting methods in tableau	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze;K5 – Evaluate

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	1	3	1
CO2	9	9	9	9	1	3	1
CO3	9	9	9	9	3	3	1
CO4	9	9	9	9	3	3	3
CO5	9	9	9	9	3	3	3
Total Contribution of COs to POs	45	45	45	45	11	15	9
Weighted Percentage of COs Contribution to POs	2.25	2.54	2.50	3.21	1.47	1.44	1.50

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation;

9- High correlation between COs and POs.

LIST OF PROGRAMS

1. Write a python program to enter two different numbers and perform using arithmetic operator.
2. Write a python program to find biggest among three numbers.
3. Write a program to sort the given numbers using list.
4. Write a Python program to create table which includes insert, update, delete and read operations
5. Write a Python program to read an entire text file.
6. Write a Python program to write a list to a file
7. Show any visualization of any dataset like superstore details, applying the principles of:
    a) Row and Column grand totals, of a table.
    b) Filtering.
    8. Show a visualization of your choice, using:
    a) Filtering (Show how we apply 'Range of Values', 'At least', 'At Most' and 'Special').
    b) Sorting (ascending and descending).
    c) Highlighting of tables.
    d) Create 'Row Total', 'Column Total' and 'Grand Total'.
9. Show a visualization of your choice, using:
    a) Trend line.
    b) Reference line.
    c) Reference band.
    d) Distribution band.
10. Prepare the following charts, using any of the dimensions and measures:
    a) Histogram.
    b) Area chart.
    c) Scatter plot.
    d) Box and whisker chart
    e) Pie chart. (Display the value of the measure near each segment of the pie chart).

Note: Download excel databases from the given website
https://www.wisdomaxis.com/technology/software/tableau/sample-data/

Category	Component	CourseCode	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XXV ELECTIVE II	24CCU24A	PROJECT MANAGEMENT	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	25	75	100

PREAMBLE :

To make the students to understand the concept of project, its identification, financing and control.

COURSE OUTCOME :

On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Acquire the knowledge about the nature, characteristic, taxonomy of projects and project management life cycle.	K1
CO2	Understand the concept of project identification, project investment decisions, Technical, Commercial, Economic, Financial and Management appraisal	K2
CO3	Familiarize the concept of project financing,	K3
CO4	Analyze the significance contribution of various financial institutions assisting entrepreneurs and the sources of finance.	K4
CO5	Evaluate the causes and remedies of Industrial sickness and Rehabilitation of industrial sickness	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate;

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	3
CO2	9	9	9	9	3	9	1
CO3	9	9	9	3	3	3	1
CO4	9	3	9	3	3	3	1
CO5	9	3	3	3	1	3	1
Total Contribution of COs to POs	45	33	39	27	13	27	7
Weighted Percentage of COs contribution to POs	2.25	1.87	2.16	1.93	1.73	2.59	1.17

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-High correlation between COs and POs.

COURSE CONTENT

UNIT I (12 Hours)

An Introduction to Project:

Meaning, characteristics and need - Taxonomy of projects; Project management: meaning, concepts and categories - Project management Vs General Management- Project Management life cycle – project manager – role and responsibilities of project manager.

UNIT II   **(12 Hours)**
Project identification & Appraisal:
Meaning – Government & the regulator - Project identification – Project preparation - Tax incentives and Project investment decisions - Tax planning for project investment decisions - Zero based project formulation - Technical, Commercial, Economic, Financial and Management appraisal - Social cost benefit analysis and project risk analysis.

UNIT III   **(12 Hours)**
Project Financing:
Project cost estimation - Project financing - Financial evaluation of projects - Financial projections - Project planning and scheduling - Estimation, Resource analysis, Justification and Evaluation - Teams and organization - Project cost control.

UNIT IV   **(12 Hours)**
Project Review:
Meaning **-** Role of management and leadership in project environments - Problem - solving and decision making - Project review- Project organization – Project Contracts.

UNIT V   **(12 Hours)**
Project Evaluation:
Meaning - Project review and administrative aspects - Computer aided project management - Options in projects - Risk analysis - Topics of interest on project management.

TEXT BOOK:

Author	Title	Publisher	Year of Publication
Vasant Desai	Project Management and Entrepreneurship	Himalaya Publishing House, New Delhi	2014

BOOKS FOR REFERENCE:

S.No	Authors	Title	Publishers	Year of Publication
1	GopalaKrishnan.P & Rama Moorthy V.E	Text Book of Project Management	Laxmi publications, New Delhi	2010
2	Harvey Maylor	Project Management	Pearson Education, New Delhi.	2003
3	Nagarajan K	Project Management	New Age International (P) Ltd., Publishers, New Delhi.	2015
4	Prasanna Chandra	Projects – Planning, Analysis, Selection, Implementation and Review	Tata McGraw Hill, New Delhi	2004
5	Subba Rao K.V.	Project Management	Adhyayan Publishers & Distributors, New Delhi	2002

Category	Component	CourseCode	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XXV ELECTIVE II	24CCU24B	WORKING CAPITAL MANAGEMENT	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	25	75	100

PREAMBLE:

To equip the learners to understand the problems of the working capital and manage efficiently.

COURSE OUTCOME :

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	spell out the special terms such as working capital, operating cycle, cash, receivables and inventory	K1
CO2	explain the concepts of working capital, cash, receivablesand inventory management	K2
CO3	identify the techniques of various tools used in working capital management in controlling working capital, cash, receivables and inventories	K3
CO4	diagnose the optimal level of working capital investment, motives for holding cash, cost of maintaining receivables and inventories.	K4
CO5	appraise the advantages of adequate working capital, cash, receivables & inventories and dangerous of redundant working capital, cash, receivables & inventories	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate;

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	3
CO2	9	9	9	9	3	9	1
CO3	9	9	9	3	3	3	1
CO4	9	3	9	3	3	3	1
CO5	9	3	3	3	1	3	1
Total Contribution of COs to POs	45	33	39	27	13	27	7
Weighted Percentage ofCOs contribution to POs	2.25	1.87	2.16	1.93	1.73	2.59	1.17

Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-High correlation between COs and POs.

COURSE CONTENT

UNIT I   (12 Hours)

Working Capital Management- An Overview: Working Capital Management - Meaning, Need and Concepts of Working Capital – Level of Working Capital Investment- Optimal level of Working Capital Investment - Types of Working Capital – Factors determining Working Capital requirements - Significance of Working Capital – Advantages of adequate Working Capital & Dangerous of redundant Working Capital – Sources of Working Capital

UNIT II   (12 Hours)

Determination of Working Capital: Forecasting of Working Capital Requirements: Operating Cycle Method-Estimation of Components of Working Capital Method-Regulation of Bank Credit - Dehejia committee report-Tandon committee report-Chore committee report
- RBI Guidelines for Working Capital Finance.

UNIT III   (12 Hours)

Cash Management: Meaning of Cash Management – Nature of Cash –Motives for holding cash – Cash Management Planning – Cash Management Models- William J.Baumols EOQ Model - Miller-orr Cash Management Model –Cash Cycle.

UNIT IV   (12 Hours)

Receivables Management: Meaning – Purpose-Cost of maintaining receivables - credit policy - Credit Analysis -Control of receivables – Monitoring of receivables

UNIT V   (12 Hours)

Inventory Management: Meaning of Inventory-Need and Benefits of holding inventory - Cost of holding inventory - Objectives of Inventory Management - Techniques of Inventory Management: EOQ, ABC Analysis, VED Analysis, FSN Analysis - Mini-Max Method – Automatic Order System.

TEXT BOOK:

Author	Title	Publisher	Year of Publication
Hrishikes Bhattacharya	Working CapitalManagement Strategies andTechniques	PHI Learning Private Limited, Delhi.	2014

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Bhalla V.K.	WorkingCapital Management	Anmol Publications Pvt. Ltd,NewDelhi.	2000
2	Josh R.N	Cash Management	New Age International Publishers.	2011
3	Krish Rangarajan Anil Misra	WorkingCapital Management	Excel Books, New Delhi.	2005

WEB REFERENCES:

1. https://www.slideshare.net/ankita3590/working-capital-management-13794247

2. https://www.slideshare.net/ShanuAggarwal2/working-capital-management-ppt-71432972?qid=08f44304-2030-4c34-96fc- d8113edb67aa&v=&b=&from_search=8

3. https://gfgc.kar.nic.in/punjalakatte/FileHandler/199-488f5be2-8adb-487e-9c8a-871c1afb8615.pdf

4. https://www.mbaknol.com/business-finance/tandon-committee-report-on-working-capital-norms-and

recommendations/#:~:text=P.%20L.%20Tandon%20was%20constituted%20f
or,Committee%20Report%20on%20Working%20Capital.

5. https://corporatefinanceinstitute.com/resources/knowledge/accounting/working-capital-cycle/

6. https://www.lkouniv.ac.in/site/writereaddata/siteContent/20200426125814530
4Nagendra_Applied_Cash_Management_2.pdf

7. https://cleartax.in/s/accounts-receivable-management#:~:text=Accounts%20receivable%20management%20is%20the,
pending%20amounts%20of%20the%20customers.

8. https://www.yourarticlelibrary.com/business-management/marketing-management-business-management/ved-analysis-sde-analysis-and-fsn- analysis/69363

9. https://www.youtube.com/watch?v=0Op01S8-t-E

Category	Component	CourseCode	Course Title	Contact Hours / Semester	Credits
PART – III	CORE : XXV ELECTIVE II	24CCU24C	WEB DESIGNING WITH PHP	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	25	75	100

PREAMBLE :

To learn about the development of PHP Programming and MySQL database connectivity.

COURSE OUTCOME :

On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Learn basic development concepts of PHP	K1
CO2	Acquire knowledge about control structures	K2
CO3	Examine PHP arrays	K3
CO4	Analyze about OOPS and File concepts	K4
CO5	Implement database connectivity and XML	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate;

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	3	9	3
CO2	9	9	9	9	3	9	1
CO3	9	9	9	3	3	3	1
CO4	9	3	9	3	3	3	1
CO5	9	3	3	3	1	3	1
Total Contribution of COs to POs	45	33	39	27	13	27	7
Weighted Percentage ofCOs contribution to POs	2.25	1.87	2.16	1.93	1.73	2.59	1.17

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT

UNIT I: Introduction to PHP 				**(12 Hours)**

Introducing PHP – Basic Development Concepts – Creating First PHP Scripts – Using Variable and Operators – Storing Data in Variable – Understanding Data Types – Setting and Checking Variables Data Types – Using Constants – Manipulating Variables with Operators.

UNIT II: Control Structures 				**(12 Hours)**

Controlling Program Flow: Writing Simple Conditional Statements - Writing More Complex Conditional Statements – Repeating Action with Loops – Working with String and Numeric Functions.

UNIT III: Arrays 				**(12 Hours)**

Working with Arrays: Storing Data in Arrays – Processing Arrays with Loops and Iterations – Using Arrays with Forms - Working with Array Functions – Working with Dates and Times.

UNIT IV: OOPS and File Concepts 				**(12 Hours)**

Using Functions and Classes: Creating User-Defined Functions - Creating Classes – Using Advanced OOP Concepts. Working with Files and Directories: Reading Files-Writing Files-Processing Directories.

UNIT V: Database and XML 				**(12 Hours)**

Working with Database and SQL: Introducing Database and SQL- Using MySQL-Adding and Modifying Data-Handling Errors – Using SQLite Extension and PDO Extension. Introduction XML-Simple XML and DOM Extension.

NOTE:
  Theory   - 3 hours
  Practical   - 2 hours

TEXT BOOK:
1.Vikram Vaswani, PHP A Beginner's Guide, Tata McGraw-Hill.

REFERENCE BOOKS:
1. Steven Holzner,The PHP Complete Reference, Tata McGraw-Hill Edition.
2.Julie Meloni, Matt Telles, PHP 6, 3rd Edition, Cengage Learning India Edition, 2009.

WEB REFERENCE:
1. https://www.tutorialspoint.com/internet_technologies/php.htm
2. https://www.youtube.com/watch?v=PGvrnas2_Pk
3.https://blog.devgenius.io/web-development-with-php-from-scratch-for-beginners-a8bed954e9f8

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE : XXVI ELECTIVE : III	24CCU25A	WOMEN IN BUSINESS	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	25	75	100

PREAMBLE:

    To equip the learners to understand the women empowerment and develop skills to become women entrepreneurs

COURSE OUTCOME:

    On the successful completion of the course, students will be able to

COs	CO Statement	Knowledge Level
CO1	Acquire the basic knowledge of concepts of empowerment ofwomen, women entrepreneurship, status of women.	K1
CO2	Understand the opportunity available for women in the development plans, various schemes for women entrepreneurs.	K2
CO3	Analyse the development of women, strategies for womenempowerment and the five year development plans.	K3
CO4	Develop the applications of entrepreneurial skills for women.	K4
CO5	Evaluate the various schemes for women entrepreneurshipannounced by the Government.	K5
CO6	Gain exposure in entrepreneurial skills and to become equipped instarting their own business.	K6

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate;

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	3	9
CO2	9	9	9	9	9	9	9
CO3	9	9	9	9	9	9	9
CO4	9	9	9	9	1	9	3
CO5	9	9	9	3	1	9	3
Total Contribution of COs to POs	45	45	45	39	29	39	33
Weighted Percentage of COs Contribution to POs	2.25	2.54	2.50	2.79	3.87	3.74	5.51

Level of Correlation: 0-No Correlation; 1-Low Correlation; 3-Medium Correlation;

9-High Correlation between COs and POs

COURSE CONTENT

UNIT- I   **(12 Hours)**
Women's Development: Psycho-Social perspective of Women-Development of Self
opportunity-y for work-Determinants ofwomen's development – Socio-Economic factors shaping
women's roles and status - Women's economic participation - Women's health status.

UNIT- II   **(12 Hours)**
Women Empowerment in India: Facts   of   women   Empowerment   -   Strategies   for
empowerment of women - New roles for education-Women and Education - Empowerment
process - Career training for women. Women development in India.

UNIT- III   **(12 Hours)**
Women Entrepreneurship: Women entrepreneurship - Concepts –Evolution -Importance –
Functions of women entrepreneurs – typologies of women entrepreneurs- entrepreneurial skills
and competency requirements for women entrepreneur - problems of women entrepreneurs.
Women entrepreneurship in India - Organizations promoting women entrepreneurs. Social
Entrepreurship

UNIT- IV   **(12 Hours)**
Schemes for Women Entrepreneurship in India: Entrepreneurship   Development
Programmes - Prime Minister Rozgar Yojana (PME)- National policy for the empowerment of
women-Schemes of NABARD-Schemes of SIDBI- Schemes of different banks.

UNIT- V   **(12 Hours)**
Successful Indian Women Entrepreneurs: Mrs.Shanthi Durai Swamy(Sakthi Masala)-Mrs.Ekta
Kapoor (Balaji Tele films)- Vandana Luthra (VLCC Health care) -Kiran Mazumdar shah(Biocon)
–Successful women in business profession-Indra Nooyi (Pepsico)-Chandra Kochhar(ICICI Bank)
Vineeta Singh (Sugar Cosmetics).

TEXT BOOK:

Author	Title	Publisher	Year of Publication
Raj Kumar	Women and Development	Anmol publicationsPVT Ltd, New Delhi.	2000
Vasantha Gopal .R & Saratha.S	Women Entrepreneurship in India	New CenturyPublications, New Delhi	2008

REFERENCE BOOKS:

S.No	Authors	Title	Publishers	Year of Publication
1	Jayaseelan.M	Women in Society	A.P.H. Publishing Corporation, New Delhi	2014
2	Pandey.A.K	Empowerment of Women	Anmol publications PVT Ltd, New Delhi.	2002

WEB REFERENCES:
1. **www.researchgate.net**
2. **www.mdpi.com**
3. www.smartbusinessbox.in
4. www.entrepreneur.com
5. www.success.com
6. www.forbes.com
7. www.globenewswire.com

Category	Course Type	Course Code	Course Title	Contact Hours/ Semester	Credits
PART: III	CORE: XXVI ELECTIVE-III	24CCU25B	EXPORT FINANCE	60	4

Contact Hours per Week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	25	75	100

PREAMBLE:

To provide the students with comprehensive knowledge and practical skills in the field of international trade and finance.

COURSE OUTCOME:

After completion of the course, the learners will be able to:

COs	CO Statement	Knowledge Level
CO1	understanding of the concept of international finance, pre shipment finance, post shipment finance and Letter of Credit.	K1
CO2	expand the knowledge in methods of payment, balance of payments and financial institutions.	K2
CO3	examine the recent developments in exports, discounting of documents, financial institutions, advance against bills and exemptions and concessions.	K3
CO4	analyse the role of RBI and EXIM Bank in export finance.	K4
CO5	evaluate the functioning of various institutions in export credit.	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate;

CO-PO MAPPING (COURSE ARTICULATION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	3	9
CO2	9	9	9	9	9	9	9
CO3	9	9	9	9	9	9	9
CO4	9	9	9	9	1	9	3
CO5	9	9	9	3	1	9	3
Total Contribution of COs to POs	45	45	45	39	29	39	33
Weighted Percentage of COs Contribution to POs	2.25	2.54	2.50	2.79	3.87	3.74	5.51

Level of correlation: 0 – No correlation; 1 – Low correlation; 3 – Medium correlation;
9- High correlation between COs and POs.

COURSE CONTENT

UNIT I: INTERNATIONAL FINANCE   (12 Hours.)

Introduction to International Finance- Methods of Payment - International Monetary system - Issues Involved in International Business and Finance - Recent Developments- Balance of Trade – Balance of Payment –Recent development in export financing - Special need for Finance in International Trade – INCO Terms - Letters of Credit

UNIT II: PRE SHIPMENT FINANCE   (12 Hours.)

Introduction - Packing credit - advance against incentives, Discounting of documents, interest rate structure – Financial institutions – Commercial bank, EXIM bank.

UNIT III: POST SHIPMENT FINANCE   (12 Hours.)

Post shipment credit – Negotiation of Export documents Under letters of credit – Purchase/Discount of foreign bills – Advance against bills sent on collection – Advance against Goods Sent on Consignment – Advance against Export Incentives – Advance against undrawn Balances – Advance against Retention Money – Post-shipment Export Credit Guarantee and Export Finance Guarantee – Post-shipment Credit in Foreign Currency.

UNIT IV: INSTITUTIONAL SUPPORT TO EXPORT FINANCE   (12 Hours.)

Role of commercial bank and RBI in export finance - RBI guidelines- trade control - ECGC guide lines –Foreign Exchange Dealing Association of India – guidelines- international chamber of commerce – stages of export finance - Functions of EXIM bank - Export Credit – Financing Foreign receivables –FEMA- advances against collection – discounting trade acceptance.

UNIT V: EXPORT SCHEMES AND INCENTIVES   (12 Hours.)

Export Promotion Schemes – Government Organizations Promoting Exports – port Incentives: Duty Exemption – IT Concession – Marketing Assistance – EPCG, DEPB – Advance License - Export Promotion – EPZ – EQU – SEZ and Export House.

BOOKS FOR REFERENCE

S.No	Authors	Title	Publishers	Year of Publication
1	Jeevanandam. C	International Business	M/s Sultan & Chand, Delhi	2008
2	Sumathi Varma	International Business	Ane, Delhi,	2010
3	Richard Whilsher	Export Finance: Risks, Structures, and Documentation	Palgrave Macmillan;	**2015**
4	Harry M. Venedikian	Export–Import Financing	John Wiley & Sons	2016

Category	Component	Course Code	Course Title	Contact Hours/ Semester	Credits
PART – III	CORE : XXVI ELECTIVE : III	24CCU25C	PROJECT WORK AND VIVA VOCE	60	4

Contact hours per week: 5

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	20	80	100

PREAMBLE

To drive the students own learning and to make them to acquire practical application and problem solvingskills for what they are learning

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	List the thrust areas of research	K1
CO2	communicate the suggestions to solve the research problems	K2
CO3	apply the analytic thoughts to a body of knowledge	K3
CO4	infer the research related skills and reflect their thinking	K4
CO5	evaluate ethical awareness in the project	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate;

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	3	9
CO2	9	9	9	9	9	9	9
CO3	9	9	9	9	9	9	9
CO4	9	9	9	9	1	9	3
CO5	9	9	9	3	1	9	3
Total Contribution of COs to POs	45	45	45	39	29	39	33
Weighted Percentage of COs Contribution to POs	2.25	2.54	2.50	2.79	3.87	3.74	5.51

Level of correlation:0–No correlation;1–Low correlation;3–Medium correlation; 9-Highcorrelation between COs and POs.

Rules Regarding Evaluation of Project Report

Components and Breakup of Marks for evaluation of Project (ESE) under Part III:

Departments encouraging project work may adopt the following structure for evaluation of reports else, they shall define their own rubrics as per need. **The project reports** are evaluated at the end of semester by the **Internal & External Examiners** as appointed by COE. Following weight ages shall be used to evaluate the Project report:

SPLIT - UP	COMPONENTS		TOTAL MARKS
CIA	Regularity	5	20
	Review / Presentation	5	
	Knowledge about the organization / theme of study/ Synopsis	10	
ESE*	Internal	30	80
	External	30	
	Viva – Voce	20	

***ESE Viva-Voce for projects will be jointly conducted by internal and external examiners.**

- The title of the project work chosen by the student should be approved by the Guide in consultation with the Head of the Department
- Each student shall submit four copies of project report, at least four days prior to the viva - voce examination to the Controller of Examination through the Head of the Department.
- In the CIA component, the student should secure a minimum 40% marks (i.e., 8 marks out of 20 marks).
- The External examiner shall value the project report for a maximum of 30 Marks and Internal Examiner shall value the project report for a maximum of 30 Marks separately which will be handed over to the Controller of Examination.
- For a pass in the evaluation of project report, the student should secure a minimum of 40% (24 Marks).
- Those who have passed in the project report are eligible for viva-voce examination
- The viva-voce examination shall be conducted jointly by the Internal and External examiner for 20 marks.
- For the pass in the viva voce examination, the student should secure a minimum of 40% Marks (8 marks) .
- Student should secure a minimum of 40% marks (24 marks + 8 marks + 8 marks = 40 Marks) in the evaluation of project report and viva-voce conducted by the internal and external examiner.
- For a pass in the project report and viva-voce, the student should secure a minimum of 40% marks both internal and external marks put together.

Category	Component	Course Code	Course Title	Contact Hours / Semester	Credits
PART – IV	SKILL ENHANCEMENT :III	24SECCU03	COMMERCE PRACTICAL	36	2

Contact hours per week: 3

Year	Semester	Internal Marks	External Marks	Total Marks
III	VI	50	-	50

PREAMBLE :

To equip the learners with the practical aspects of commerce and train them in filling up ofvarious forms used in the field of commerce

COURSE OUTCOME:

After completion of the course, the learners will be able to

COs	CO Statement	Knowledge Level
CO1	recognize the various practical lists pertaining to the areas of commerce	K1
CO2	know the facts and figures to be filled in the different forms used in the field of commerce	K2
CO3	organize the essential data to fill the forms used in the business correspondence, taxation, marketing, share market, banking and any other business purposes	K3
CO4	categorize the details while preparing the blue print of an office, material requisition, pay roll, material order, advertisement copy and procedure for entering into contract	K4
CO5	verify the information gathered for preparing business reports, advertisement copy, resume, income and expenditure account	K5

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate;

CO-PO MAPPING (COURSE ARTICUALTION MATRIX)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	3	3	9	9
CO2	9	9	9	3	3	9	9
CO3	9	9	9	3	3	9	3
CO4	9	9	9	3	3	9	3
CO5	9	9	9	3	3	9	3
Total Contribution of COs to POs	45	45	45	15	15	45	27
Weighted Percentage of COs Contributionto POs	2.25	2.54	2.50	1.07	2.00	4.32	4.51

**Level of correlation:0–No correlation;1–Lowcorrelation;3–Medium correlation;
9-Highcorrelation between COs and POs.**

COURSE CONTENT

A. BUSINESS CORRESPONDENCE AND OFFICE METHODS   **(4 Hours)**
1. Filling up of e- money order form.
2. Job application/Resume.
3. Layout of a business letter.
4. Blue print/sketch of an office.
5. Filling of papers.
6. Handling e-mail   .

B. ACCOUNTING   **(3Hours)**
7. Computation of ratios from Annual Report of a limited company.
8. Income and Expenditure Account of any NGO.

C. COST ACCOUNTING   **(3 Hours)**
9. Specimen of pay roll
10. Form of Bin Card
11. Filling of Material Order and Material Requisition.

D. TAXATION   **(3 Hours)**
12. Filling up of Income Tax Returns
13. PAN application form.
    (3 Hours)
E. SECRETARIAL PRACTICE
14. Drafting of Notice, Agenda and Minutes for Meeting.
15. Chart showing Organisation Structure.

F.MARKETING   **(3 Hours)**
16. Collection of different types of advertisement.
17. Preparation of an advertisement copy.
18. Market Survey.
G. INVESTMENT MANAGEMENT   **(4 Hours)**
19. Filling up of Demat application form.
20. Filling up of share application form for IPO.
21. Filling up of Mutual Fund application form.

H. STATISTICS   **(3 Hours)**
22. Diagrammatic presentation of data for Export/Import of a company for _n' years.

I. COMMERCIAL LAW   **(4Hours)**
23. Preparation of contract – specimen form.
24. Statement of P.F. Contribution.
25. Statement of E.S.I. Contribution.

J. BANKING **(3 Hours)**

26. Filling up of Account Opening Form
27. Knowledge of various forms used in day-to-day banking – Cheque –Pay-in-Slip – Withdrawal Form – Transfer Form – Draft.
28. Currencies of important countries
29. Filling up of Loan Application Form.

K. GENERAL **(3 Hours)**

30. Filling up of Railway/Bus Reservation/Cancellation forms.
31. Filling up of Passport application form.
32. Filling up of Aadhar card

WEB REFERENCES:

1. https://www.questionpro.com/survey-templates/marketing-surveys/

2. https://www.axisbank.com/download-forms/loans

3. https://www.jotform.com/form-templates/category/reservation

4. https://www.bk.mufg.jp/global/globalnetwork/asiaoceania/pdf/saving_account.pdf

5. https://www.powershow.com/view0/8a5a7b-ZTEwN/What_Is_the_Importance_of_Export_Import_Data_powerpoint_ppt_presentation

6. https://www.lucidchart.com/pages/tutorial/organizational-charts

7. https://combined-money-order-form.pdffiller.com/

8. https://www.pinterest.com/pin/740771838679852354/