

UG DEPARTMENT OF COMMERCE (CA)

SYLLABUS 2025 – 2028 BATCH

(Outcome-Based Education)

BOARD OF STUDIES 2025

I to VI SEMESTER



**NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
(AUTONOMOUS)**

Re-Accredited by NAAC
An ISO 9001:2015 Certified Institution
POLLACHI - 642 001

UG Department of Commerce with Computer Applications

Vision : To provide quality education in Commerce with immense Computer background and to make the Students face the ever growing corporate challenges with moral values.

Mission: To empower the students by instilling the latest knowledge and skills in their study area and thereby make them not only employable but also socially, culturally and ethically a rich citizen.

Program Educational Objectives:

PEO1	Development of professional progression of the graduates.
PEO2	Attainment of professional certification by seeking Higher Education.
PEO3	Participation of graduates ethically in career and socialistic activities.
PEO4	Positioning of graduates as a successful team leader in an organization.
PEO5	Possession of technical competency in solving complex problems in specialized field of graduation.

Program Outcomes

PO1	Disciplinary Knowledge: To intensify the knowledge in the fields of accounting by applying the concepts and techniques of Commerce to meet out Industrial expectations.
PO2	Professional Ethics: To enrich the acquaintanceship in various business related ethics and amendments.
PO3	Value Education: To refine the personal, interpersonal, intellectual and societal skills for career upliftment.
PO4	Information/Digital Literacy: To magnify the technical skill set of Computer in the field of Information Technology.
PO5	Application Skills: To empower the employability skills through design and development of applications through software.

PO6	Decision Making Skills: To train with necessary competencies and decision making skills for a successful Entrepreneurship career option.
PO7	Lifelong Learning: To integrate the latest trends in Computer application software and packages.
PO8	Experiential Learning: To replicate theoretical concepts in real time situations.
PO9	Moral and Ethical Awareness: To build ethical values and principles of Business to meet the expectations of the society.
PO10	Effective Communication Skills : To nurture the interest to gain effective knowledge in communication.

Program Specific Outcomes:

PSO - 01	Interdisciplinary Expertise: Enhance knowledge to expertise in various fields of Commerce and Computer arena
PSO - 02	Digital Skills: Equip the technical skills to meet out the local and global challenges

MAPPING

PEOs POs \ PSOs	PEO1	PEO2	PEO3	PEO4	PEO5
PO1	H	H	M	H	H
PO2	H	H	H	H	H
PO3	H	H	H	H	H
PO4	H	H	M	H	H
PO5	M	H	H	M	H
PO6	H	M	H	H	M
PO7	H	H	H	M	H
PO8	H	M	H	H	H
PO9	M	H	H	M	H
PO10	H	H	M	H	M
PSO1	H	H	H	H	H
PSO2	H	H	H	H	H

L-Low M-Medium H-High

B.Com [CA]

(FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2025 - 2026

ONWARDS)

I to VI SEMESTERS

SCHEME OF EXAMINATIONS

SEMESTER - I										
Part	Subject Code	Title of the Paper	Hrs. / Week		Hrs. / Sem	Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
I	25UTL1C1	Tamil Paper-I	5	-	-	3	25	75	100	3
	25UHN1C1	Hindi Paper-I								
	25UFR1C1	French Paper- I								
II	25UEN101	Communication Skills – I	5	-	-	3	25	75	100	3
III	25UCC101	CC- I: Advanced Financial Accounting	5	-	4	3	25	75	100	4
	25UCC102	CC - II : Executive Communication (Practical)	3	-	-	3	20	30	50	2
	25UCC1A1/ 25UCC1A2	GE I - Allied: Business Economics/ Managerial Economics	5	-	-	3	25	75	100	4
	25UCC103	CC Lab - I : Office Automation	-	4	-	3	20	30	50	2
IV	25EVS101	AECC- I: Environmental Studies	2	-	-	2	-	50	50	2
	25HEC101	Human Excellence - Personal Values & Indian Yoga Practice - I	1	-	-	2	20	30	50	1
EC		Online Course (Optional) (MOOC / NPTEL / SWAYAM)	-	-	-	-	-	-	-	Grade
Total			26	4	4		160	440	600	21

EC – Extra Credit Course / Certificate Course / Co-Scholastic Course / Job Oriented Course

CC – Core Course; GE – Generic Elective; AECC - Ability Enhancement Compulsory Course

SEMESTER – II

Part	Subject Code	Title of the Paper	Hrs. / Week		Hrs. / Sem	Exam Hrs	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
I	25UTL2C2	Tamil Paper-II	5	-	-	3	25	75	100	3
	25UHN2C2	Hindi Paper-II								
	25UFR2C2	French Paper-I								
II	25UEN202	Communication Skills – II	5	-	-	3	25	75	100	3
III	25UCC204	CC – III : AI in Marketing	4	-	4	3	25	75	100	4
	25UCC205	CC – IV: Internet of Things	4			3	25	75	100	3
	25UCC2A1 / 25UCC2A2	GE II -Allied :Business Mathematics and Statistics / Operations Research - I	5	-	4	3	25	75	100	4
	25UCC206	CC Lab - II :Web Designing		4		3	20	30	50	2
	25UCC2S1/ 25UEL2S2	SEC – I : Naan Mudhalvan : An Introduction to Artificial Intelligence / Professional Skills	2				12	38	50	2
IV	25HEC202	Human Excellence - Family Values & Indian Yoga Practice - II	1	-	-	2	20	30	50	1
EC	25CMM201	IKS: Manaiyiyal Mahathuvam - I	15 Hrs			2	-	50	50	Grade
	25CUB201	IKS: Uzhavu Bharatham - I	15 Hrs			2	-	50	50	Grade
		Online Course (Optional) (MOOC / NPTEL / SWAYAM)								Grade
Total			26	4			177	473	650	22

EC – Extra Credit Course / Certificate Course / Co-Scholastic Course / Job Oriented Course

CC – Core Course; GE – Generic Elective; AECC - Ability Enhancement Compulsory Course;

SEC – Skill Enhancement Course

SEMESTER – III										
Part	Subject Code	Title of the Paper	Hrs / Week		Hrs / Sem.	Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
I	25UTL3C3	Tamil Paper - III	3	-	-	3	25	75	100	3
	25UHN3C3	Hindi Paper - III								
	25UFR3C3	French Paper – III								
II	25UEN3C3	Communication Skills – III	3	-	-	3	25	75	100	3
III	25UCC307	CC - V : Corporate Accounting	5	-	4	3	25	75	100	4
	25UCC308	CC – VI : Advanced Relational Database Management System	4	-	-	3	25	75	100	3
	25UCC3A1/ 25UCC3A2	GE III - Allied: Principles of Management / Business Organisation and Office Management	4	-	-	3	25	75	100	3
	25UCC309	CC Lab - III : RDBMS		4	-	3	20	30	50	2
	25UCC310	CC Lab-IV : Tally		4			20	30	50	2
L	25UCC3N1/ 25UCC3N2	Non Major Elective - I : Business and Professional Correspondence/ Accounting Software - Tally	2	-	-	2	-	50	50	2
	25HEC303	Human Excellence - Professional Values & Ethics & Indian Yoga Practice - III	1	-	-	2	20	30	50	1
V	25UHW301	Health and Wellness	2#	-	-	-	100 Red uce To 25*	-	25*	1
EC	25CMM302	Manaiyiyal Mahathuvam - II	15 Hrs			2	-	50	50	Grade
	25CUB302	Uzhavu Bharatham - II	15 Hrs			2	-	50	50	Grade
	25UCC3VA	VAC – I :	30 Hrs							2*
Total			22	8	4		210	515	725	24

EC – Extra Credit Course / Certificate Course / Co-Scholastic Course / Job Oriented Course

CC – Core Course; GE – Generic Elective; VAC – Value Added Course

*Extra Credits; # Outside the Class hours

SEMESTER – IV

Part	Subject Code	Title of the Paper	Hrs / Week		Hrs / Sem .	Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
I	25UTL4C4	Tamil Paper - IV	3	-	-	3	25	75	100	3
	25UHN4C4	Hindi Paper - IV								
	25UFR4C4	French Paper – IV								
II	25UEN4C4	Communication Skills – IV	3	-	-	3	25	75	100	3
III	25UCC411	CC - VII : Cost and Management Accounting	5	-	4	3	25	75	100	4
	25UCC4A1 / 25UCC4A2	GE IV - Allied: Business Research Methods / Operations Research – II	5	-	4	3	25	75	100	4
	25UCC412	CC Lab - V : VB .NET	-	4	-	3	20	30	50	2
	25UCC413	CC - VIII : Mobile Computing	5		-	3	25	75	100	4
	25UCC4S1 / 25UCC4S2	SEC II: Naan Mudhalvan: Basics of Finance and Fintech / Mutual Funds Foundation	2				12	38	50	2
IV	25UCC4N1/ 25UCC4N2	Non Major Elective - II : Commerce & Computer Application Practical / Retail Management	2	-	-	2	-	50	50	2
	25HEC404	Human Excellence - Social Values & Indian Yoga Practice – IV	1	-	-	2	20	30	50	1
V		Extension Activities - Annexure I	-	-	-	-	50 Reduce To 25	-	25	1
	25CMM403	Manaiyiyal Mahathuvam -III	15 Hrs			2	-	50	50	Grade
	25CUB403	Uzhavu Bharatham - III	15 Hrs			2	-	50	50	Grade
	25UCC4VA	VAC – II :	30 Hrs							2*
Total				4	8		202	523	725	26

EC – Extra Credit Course / Certificate Course / Co-scholastic Course / Job Oriented Course
 CC – Core Course; GE – Generic Elective; SEC – Skill Enhancement Course; VAC-Department Specific Value Added Course; *Extra Credits;

SEMESTER – V										
Part	Subject Code	Title of the Paper	Hrs / Week		Hrs / Sem.	Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
III	25UCC514	CC - IX : Income Tax	6	-	4	3	25	75	100	5
	25UCC515	CC - X : Programming in C ++ & Python	5	-		3	25	75	100	4
	25UCC5E1/ 25UCC5E2/ 25UCC5E3	DSE - I :#	5	-	-	3	25	75	100	4
	25UCC516	CC - XI : Internship	-	-	-	-	20	30	50	2
	25UCC517	CC – XII : Cloud Computing	5		-	3	25	75	100	4
	25UCC518	CC Lab - VI : C ++ & Python		6			20	30	50	3
	25UCC519	CC – XIII - Project	-	-	-	-	25	75	100	3
IV	25UCC5S1 / 25UCC5S2	SEC - III : Commerce and Computer Application Practical / Investment Management	-	2	-	2	-	50	50	1
	25HEC505	Human Excellence - National Values & Indian Yoga Practice – V	1	-	-	2	20	30	50	1
EC	25GKL501	General Knowledge– Self Study	SS	-	-	2	-	50	50	Grade
	25CSD501	Soft Skills Development -I	-	-	-	-	-	-	-	Grade
	25UCC5AL	ALC –I :International Marketing (Optional) - Self Study	SS	-	-	-	50	50	100	2**
Total			22	8	4	-	185	515	700	27
Discipline Specific Elective (DSE) – I[#] 25UCC5E1: Entrepreneurial Development 25UCC5E2: Legal Aspects in Business 25UCC5E3: Digital Finance										

EC – Extra Credit Course / Certificate Course / Co-scholastic Course / Job Oriented Course

CC – Core Course; DSE – Discipline-Specific Elective; SEC – Skill Enhancement Course

ALC-Advanced Learner Course (Optional)

*Extra Credits;**Credits – Based on course content maximum of 4 credits

SEMESTER – VI										
Part	Subject Code	Title of the Paper	Hrs / Week		Hrs / Sem	Exam Hrs	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
III	25UCC620	CC - XIV Goods and Service Tax	6	-	4	3	25	75	100	5
	25UCC6E4/ 25UCC6E5/ 25UCC6E6	DSE - II :###	6				25	75	100	4
	25UCC6E7/ 25UCC6E8/ 25UCC6E9	DSE - III :###	6	-		3	25	75	100	4
	25UCC621	CC Lab - VII : JAVA	-	4	-	3	20	30	50	2
	25UCC622	CC Lab – VIII :Multimedia	1	4	-	3	20	30	50	2
IV	25UCC6S1/ 25UCC6S2	SEC - IV : Naan Mudhalvan : Practical Marketing and Viva-Voce / Aptitude for Placements	2	-	-	3	-	50	50	2
	25HEC606	Human Excellence - Global Values & Indian Yoga Practice – VI	1		-	2	20	30	50	1
EC	25CSD602	Soft Skills Development - II	-		-	-	-	-	-	Grade
	25UCC6AL	ALC - II: Auditing and Corporate Governance (Optional) - Self Study					50	50	100	2**
Total			22	8	4		185	415	500	20
Grand Total									3900	140
Discipline Specific Elective (DSE) – II ^{##} 25UCC6E4: Programming in JAVA 25UCC6E5: Securities Market 25UCC6E6: Banking and Insurance Law			Discipline Specific Elective (DSE) – III ^{###} 25UCC6E7: E-Commerce and Information Security 25UCC6E8: Financial Markets and Services 25UCC6E9: ERP and Industry 4.0							

EC – Extra Credit Course / Certificate Course / Co-scholastic Course / Job Oriented Course
 CC – Core Course; DSE – Discipline-Specific Elective; SEC – Skill Enhancement Course;
 ALC-Advanced Learner Course (Optional)

*Extra Credits;**Credits – Based on course content maximum of 4 credits

Question Paper Pattern (Based on Bloom's Taxonomy)

K1-Remember; K2- Understanding; K3- Apply; K4-Analyze; K5- Evaluate

1. Theory Examinations: 75 Marks (Part I, II, & III)

(i) Test- I & II, ESE:

Knowledge Level	Section	Marks	Description	Total
K1 & K2 (Q1 - 10)	A (Q1 – 5 MCQ) (Q6 – 10 Define / Short Answer / MCQ)	10 * 1 = 10	MCQ / Define	75
K3 (Q11-15)	B (Either or pattern)	5 * 5 = 25	Short Answers	
K4 & K5 (Q16 – 20)	C (Either or pattern)	5 * 8 = 40	Descriptive/ Detailed	

2. Theory Examinations: 38 Marks (3 Hours Examination) (Part III: If applicable)

Knowledge Level	Section	Marks	Description	Total
K1 & K2 (Q1 - 10)	A (Q 1 – 10 MCQ)	10 * 1 = 10	MCQ	50 (Reduced to 38)
K3 (Q11 – 15)	B (Either or pattern)	5 * 3 = 15	Short Answers	
K4 & K5 (Q16-20)	C (Either or pattern)	5 * 5 = 25	Descriptive/ Detailed	

3. Theory Examinations: 38 Marks (2 Hours Examination) (Part IV: If applicable)

Knowledge Level	Section	Marks	Description	Total
K1 & K2 (Q1-10)	A (Q1 – 5 MCQ) (Q6–10 Define / Short Answer)	10 * 1 = 10	MCQ / Define	50 (Reduced to 38)
K3, K4 & K5 (Q11-15)	B (Either or pattern)	5 * 8 = 40	Descriptive/ Detailed	

4. Practical Examinations:

Paper	Maximum Marks	Marks for		Components for CIA		
		CIA	CEE	Tests	Observation Note	Record Note
Practical (Core / Elective)	50	20	30	10	05	05
Practical (Core / Elective)	75	30	45	20	05	05
Practical (Core / Elective)	100	40	60	30	05	05

5. Project:

Paper	Maximum Marks	Marks for		
		CIA	CEE	
			Evaluation	Viva-voce
Project	100	25	50	25
Project	150	40	75	35
Project	200	50	100	50

* CIA – Continuous Internal Assessment & CEE – Comprehensive External Examinations

Components of Continuous Internal Assessment

(CIA)

THEORY

Maximum Marks: 100; CIA Mark: 25; CEE Mark: 75;

Components		Calculation	CIA Total
Test 1	75	$(75+75+15+10)/7$	25
Test 2 / Model	75		
Assignment / Digital Assignment	15		
Others*	10		

*Others may include the following: Seminar / Socratic Seminars, Group Discussion, Role Play, APS, Class participation, Case Studies Presentation, Field Work, Field Survey, Term Paper, Workshop / Conference Participation, Presentation of Papers in Conferences, Quiz, Report / Content Writing, etc.

Maximum Marks: 50; CIA Mark: 12; CEE Mark: 38; (Part III: If applicable)

Components		Calculation	CIA Total
Test 1	50	$(50+50+10+10)/10$	12
Test 2 / Model	50		
Assignment / Digital Assignment	10		
Seminar	10		

PROJECT

Maximum Marks: 100; CIA Mark: 25; CEE Mark: 75;

Components		Calculation	CIA Total
Review I	5	5+5+5+10	25
Review II	5		
Review III	5		
Report Submission	10		

Maximum Marks: 200; CIA Mark: 50; CEE Mark: 150;

Components		Calculation	CIA Total
Review I	10	10+ 10+10+20	50
Review II	10		
Review III	10		
Report Submission	20		

** Components for 'Review' may include the following:*

Originality of Idea, Relevance to Current Trend, Candidate Involvement, and Presentation of Report for Commerce, Management & Social Work.

Synopsis, System Planning, Design, Coding, Input form, Output format, Preparation of Report & Submission for Computer Science cluster.

Continuous Internal Assessment for Project

For Commerce, Management & Social Work Programme

The Final year Commerce, Management & Social Work students should undergo a project work during (V/VI) semester

- ❖ The period of study is for 4 weeks.
- ❖ Project / Internship work has to be done in an industrial organization (or) work on any industrial problem outside the organization is allowed.
- ❖ Students are divided into groups and each group is guided by a Mentor.
- ❖ The group should not exceed four students, also interested student can undergo individually.
- ❖ A problem is chosen, objectives are framed, and data is collected, analyzed and documented in the form of a report / Project.
- ❖ Viva – Voce is conducted at the end of this semester, by an External Examiner and concerned Mentor (Internal Examiner).
- ❖ Project work constitutes 100 marks, out of which 25 is CIA and 75 is CEE Marks.

Mark Split UP

CIA	CEE	Total
25	75	100

S. No	Components for CIA	Marks
1	Review – I *	5
2	Review – II *	5
3	Review – III *	5
4	Rough Draft Submission	10
Total		25

* Review includes Objectives and Scope, Research Methodology, Literature Review, Data Analysis and Results, Discussion and Interpretation, Recommendations and Implications, Presentation and Format, Creativity and Originality, and Overall Impact and Contribution.

S. No	Components for CEE	Marks
1	Evaluation*	50
2	Viva-Voce	25
Total		75

* Evaluation includes Originality of Idea, Relevance to Current Trend, Candidate Involvement, Thesis Style / Language, and Presentation of Report.

Continuous Internal Assessment for Project

For Computer Science Cluster

Maximum Marks: 100 Marks

Components for CIA: 25 Marks

Criterion	Mode of Evaluation	Marks	Total
I	Synopsis, Company Profile, System Specification, Existing System, Proposed System OR (For Android Developments) Planning Stage	05	25
II	Supporting Diagrams like system flowchart, ER, DFD, Use case and Table Design OR UI and UX Design Application Architect and Prototyping	05	
III	Coding, Input forms, Output format, Testing OR Development, Testing	05	
IV	Preparation of Report & Submission	10	

Components for CEE: 75 Marks

Components for CEE	Marks	Total	Grand Total
Evaluation			75
Title Relevance of the Industry/Institute	10	50	
Technology	10		
Design and Development Publishing	10		
Testing, Report	20		
Viva Voce			
Project Presentation	10	25	
Q&A Performance	15		

HEALTH AND WELLNESS COURSE

Scheme of Evaluation

Part	Description	Marks
A	Report	40
B	Attendance	20
C	Activities (Observation During Practice)	40
	Total	100

COMPUTER SCIENCE PROJECT and VIVA VOCE

Guidelines

Introduction

The title of the project work and the organization will be finalized at the end of the fifth Semester. Each student will be assigned with a Faculty for guidance. The Project work and coding will be carried by using the facility of the computer science lab as well as in the organization. The periodical review will be conducted to monitor the progress of the project work. The project report will be prepared and submitted at the end of the semester. An external examiner appointed by the Controller of Examination will conduct the viva voce examination along with a respective guide.

Area of Work

- Web Based Development
- Mobile app development
- Website development
- IoT Projects
- Big Data and Data Mining Projects
- Cloud Computing Projects

- Networking Projects
- Artificial Intelligence and Machine learning Projects
- Data Analytics Projects using Python, R, Tableau etc.
- System Software
- Web Security Projects
- Image Processing

Methodology

Arrangement of Contents:

The sequence in which the project report material should be arranged and bound is as follows:

1. Cover Page & Title Page
2. Bonafide Certificates
3. Declaration
4. Acknowledgement
5. Synopsis
6. Table of Contents
7. Chapters
8. Appendix
9. References

Format of Table of Contents

TABLE OF CONTENTS

Chapter No.	Title	Page No.
i	Certificates	
ii	Declaration	
iii	Acknowledgement	
iv	Synopsis	
1.	Introduction	
	1.1 Introduction	
	1.2 Objective of the Project	
	1.3 Company Profile	
	1.4 System Specification	
	1.4.1 Hardware Specification	

	1.4.2 Software Specification
2	System Study
	2.1 Existing System
	2.1.2 Drawbacks
	2.2 Proposed System
	2.3 Planning and Scheduling
3	System Design
	3.1 Overview of the Project
	3.2 Modules of the Project
	3.3 Input Design Format
	3.4 Output Design
	3.5 Table Design
	3.6 Supporting Diagrams (ER/DFD/Use Case)
4	Implementation and Testing
	4.1 Coding Methods
	4.2 Testing Approach
	4.3 Implementation and Maintenance
5	Project Evaluation
	5.1 Project Outcome
	5.2 Limitations of the Project
	5.3 Further Scope of the Project
6	Conclusion
7	Appendix
	7.1 Source Code
	7.2 Screenshots and Reports
8	References

Size of the Project

The Project Report contents should be a maximum of not exceeding 70 pages.

STUDENT SEMINAR EVALUATION RUBRIC

Grading Scale:

A	B	C	D
8-10	5-7	3-4	0-2

CRITERIA	A - Excellent	B - Good	C - Average	D - Inadequate
Organization of presentation	Information presented as an interesting story in a logical, easy-to-follow sequence	Information presented in logical sequence; easy to follow	Most of the information is presented in sequence	Hard to follow; sequence of information jumpy
Knowledge of the subject & References	Demonstrated full knowledge; answered all questions with elaboration & Material sufficient for clear understanding AND exceptionally presented	At ease; answered all questions but failed to elaborate & Material sufficient for clear understanding AND effectively presented	At ease with information; answered most questions & Material sufficient for clear understanding but not clearly presented	Does not have a grasp of information; answered only rudimentary Questions & Material not clearly related to the topic OR background dominated seminar
Presentation Skills using ICT Tools	Uses graphics that explain and reinforce text and presentation	Uses graphics that explain the text and presentation	Uses graphics that relate to text and presentation	Uses graphics that rarely support text and presentation
Eye Contact	Refers to slides to make points; engaged with the audience	Refers to slides to make points; eye contact the majority of the time	Refers to slides to make points; occasional eye contact	Reads most slides; no or just occasional eye contact
Elocution – (Ability to speak English language)	Correct, precise pronunciation of all terms The voice is clear and steady; the audience can hear well at all times	Incorrectly pronounces a few terms Voice is clear with few fluctuations; the audience can hear well most of the time	Incorrectly pronounces some terms Voice fluctuates from low to clear; difficult to hear at times	Mumbles and/or Incorrectly pronounces some terms Voice is low; difficult to hear

WRITTEN ASSIGNMENT RUBRIC

Grading Scale:

A	B	C	D	F
13-15	10-12	7-9	4-6	0-3

CRITERION	A - Excellent	B - Good	C - Average	D - Below Average	F - Inadequate
Content & Focus	Hits on almost all content exceptionally clear	Hits on most key points and the writing is interesting	Hits in basic content and writing are understandable	Hits on a portion of content and/or digressions and errors	Completely off track or did not submit
Sentence Structure & Style	* Word choice is rich and varies * Writing style is consistently strong * Students own formal language	* Word choice is clear and reasonably precise * Writing language is appropriate to the topic * Words convey intended message	* Word choice is basic * Most writing language is appropriate to the topic * Informal language	* Word choice is vague * Writing language is not appropriate to the topic * Message is unclear	* Not Adequate
Sources	Sources are cited and are used critically	Sources are cited and some are used critically	Some sources are missing	Sources are not cited	Sources are not at all cited
Neatness	Typed; Clean; Neatly bound in a report cover; illustrations provided	Legible writing, well-formed characters; Clean and neatly bound in a report cover	Legible writing, some ill-formed letters, print too small or too large; papers stapled together	Illegible writing; loose pages	Same as below standard
Timeliness	Report on time	Report one class period late	Report two class periods late	Report more than one week late	Report more than 10 days late

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC101			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	4	CC - I : Advanced Financial Accounting	Semester:	I
					Credits:	4

Course Objective

To enrich the students' knowledge in basic financial accounting

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect knowledge on ancient fundamentals of accounting.	K1
CO2	Understand the preparation of final accounts.	K2
CO3	Implement the knowledge in bank reconciliation statement rectifying accounting errors.	K3
CO4	Analyse the branch and departmental accounting	K4
CO5	Evaluate the critical thinking with problem solving skills while preparing the fire insurance claim.	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	L	H	L	L	M	L	H	H	M	H	M
CO2	H	H	H	M	L	H	M	H	H	H	H	M
CO3	H	H	H	M	M	M	M	H	H	H	H	H
CO4	M	M	H	H	L	M	M	H	H	H	L	M
CO5	H	H	H	L	L	M	H	H	H	H	H	M

Unit	Content	Hours
Unit – 1	<i>Embryonic stage of Accounting in India</i> (Theory only). Accounting: Basics - Principles - Types of Accounts – Accounting Rules - Journal - Ledger - Trial	15

	Balance - Subsidiary Books – Cash Book - Accounting Standards (Basic concepts). Single Entry System (Theory only). Accounting Standards (Basic concepts).	
Unit – 2	Final Accounts of a Sole Trader with Simple Adjustments.	15
Unit – 3	Bank Reconciliation Statement – Pass Book – Cash Book – Preparation of Bank Reconciliation Statement – Rectification of Errors including Suspense Account (Simple Problems only).	15
Unit – 4	Branch Accounts: Meaning – Types of Branches - Preparation of Branch Accounts (Excluding Foreign Branch). Departmental Accounting – Meaning – Need for Departmental Accounting – Advantages - Methods and Techniques of Departmental Accounting (Simple Problems).	15
Unit – 5	Fire insurance claim: Types of fire policies - Computation of claim to be lodged - Gross Profit Ratio - Abnormal loss - Average clause. Average due date : Practical Applications - Computation of due date - Different instalments - Calculation of interest - Due date of Interest on Drawings	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Seminar, Assignment, Practical Problems and Solutions

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Reddy, T.A. and A. Murthy	Financial Accounting	8 th Edition, Chennai: Margham Publications.	2020

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Gupta, R.L. and M. Radhaswamy	Advanced Accounting	13 th Revised Edition, New Delhi: Sultan Chand Company Limited	2018

2	Shukla, M.C. and T.S. Grewal	Advanced Accounts-I	48 th Edition, New Delhi: Sultan Chand Company Limited.	2017
3	Vinayagam. N. and B. Charumathi	Financial Accounting	1 st Edition, New Delhi: Sultan Chand Company Limited.	2013

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. R. Subhasangeetha	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC102			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	3	Tutorial Hrs./Sem.	-	CC II : Executive Communication (Practical)	Semester:	I
					Credits:	2

Course Objective

To develop the oral and written communication skills of the students

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the structure of trade letters	K1
CO2	Understand the format of preparing resume, agenda and minutes	K2
CO3	Implement assignments for developing oral communication skills	K3
CO4	Analyze the students' communication skills in real world situation	K4
CO5	Evaluate students professional writing skill	K5

Mapping

PO /PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	L	M	M	H	M	M	M	M	H	L	M
CO2	H	M	H	H	H	M	M	H	H	H	M	M
CO3	H	H	H	M	H	M	H	H	H	M	M	H
CO4	H	H	H	H	H	H	H	H	H	M	M	H
CO5	H	H	M	M	M	H	H	H	H	H	M	H

Unit	Content	Hours
Unit – 1	Part – A (Oral Communication) 1. Self- Introduction 2. Listening and Reading 3. Group Discussion 4. Public Speaking and Telephonic Conversation 5. Business Presentation and Role Play 6. Mock Interview Part – B (Written Communication) 1. Trade Letters : Enquiries - Orders and Execution	15

	2. Credit and Status Enquiries 3. Claims and Adjustments 4. Collection Letters 5. Sales Letters 6. Complaint Letters 7. Circular Letters 8. Drafting Agenda and Minutes 9. Bank Correspondence 10. Insurance Correspondence 11. Agency Correspondence 12. Application Letters 13. Preparation of Resume	30
	Total Contact Hrs	45

Pedagogy and Assessment Methods:

Power point Presentations, Seminar and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Rajendra Pal Korahill	Essentials of Business Communication	9 th Edition, New Delhi: Sultan Chand & Sons.	2012

Reference Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Ramesh, M.S., C.C. Pattanshetti and Madhumati M. Kulkarani	Business Communication	28 th Edition, New Delhi: Chand & Company.	2011
2	Rodriquez, M.V.	Effective Business Communication Concept	13 th Edition, Mumbai: Vikas Publishing Company.	2003

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr. T. Vijaya Chithra	Dr.P.Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC1A1			Course Title	Batch:	2025– 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	GE – I :Allied : Business Economics	Semester:	I
					Credits:	4

Course Objective

To enrich the students’ knowledge in the area of Business Economics

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the basic concepts of business economics	K1
CO2	Understand the demand and supply analysis with relevant economic problems	K2
CO3	Apply the law of variable proportions and economies of scale to an existing economic condition.	K3
CO4	Analyse the importance of consumer sovereignty and know the indifference curve analysis.	K4
CO5	Evaluate the various markets structures and know the differences prevailing in each of them	K5

Mapping

PO /PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	L	H	M	M	H	H	L	H	H	H	M	M
CO2	H	H	H	M	H	H	M	H	H	M	H	H
CO3	M	H	M	M	H	H	L	H	H	H	M	H
CO4	M	H	M	M	M	H	L	H	H	H	H	H
CO5	H	H	H	M	M	H	L	M	H	H	M	M

Unit	Content	Hours
Unit– 1	Business Economics: Meaning-Definition – Objectives-Concepts –Nature and Scope– Differences between Economics and Business Economics –	15

	Relationship of Business Economics with other Disciplines – Recent Trends in Business Economics- Roles and Responsibilities of Business Economist	
Unit– 2	Demand Analysis: Demand Determinants - Law of Demand – Exceptions to Law of Demand–Factors affecting Demand Schedule-Demand Distinctions- Elasticity of Demand: Types and Measurement. Demand Forecasting: Market and Company Demand Forecasting-Purpose- Essentials of Good Forecasting – Method of Demand Forecasting.	15
Unit– 3	Supply Analysis: Supply – Supply Function – Law of Supply – Market Equilibrium – Elasticity of Supply – Types. Indifference Curve Analysis: Properties-Price, Income and Substitution Effects - Consumer Surplus.	15
Unit– 4	The Law of Variable Proportions : Increasing, Diminishing and Constant Returns-Economies of Scale: Internal and External Economies. Cost Analysis: Meaning-Cost Concepts-Cost Output Relationship: Total Cost, Average Cost and Marginal Cost.	16
Unit– 5	Market Structure: Market Forms-Time Elements in Price Fixation-Equilibrium of Firm and Industry. Price and Output Determination under Perfect Competition, Monopoly, Monopolistic Competition, Discrimination Monopoly and Oligopoly.	14
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Seminar ,Quiz, Assignment, Experience Discussion and Brain storming

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Reddy. P.N. and H.R. Appanniah	Principles of Business Economics	3 rd Edition, New Delhi: Sultan Chand & Company Limited.	2017

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Chopra. P.N.	Business Economics	6 th Edition, New Delhi: Kalyani Publishers	2014
2	Leki R. K. Agarwal	Business Economics	3 rd Edition, Bangalore, Kalyani Publishers.	2010
3	Chaudry Rimu	Business Economics	1 st Edition, Chennai: Kalyani Publishers	2012

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.R. Ramya	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC1A2			Course Title	Batch:	2025– 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	GE I -Allied : Managerial Economics	Semester:	I
					Credits:	4

Course Objective

To impart the knowledge of economic principles in management decisions.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recall the fundamental concepts of managerial economics	K1
CO2	Understand the production function and its law	K2
CO3	Apply the output and price considering the various market situations	K3
CO4	Analyze the capital budgeting and demand & supply of capital.	K4
CO5	Evaluate the concept, measurement and significance of national income	K5

Mapping

PO /PSOCO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	L	L	L	H	H	L	L	M	M	H	H
CO2	M	M	M	M	H	H	L	M	M	H	H	H
CO3	M	M	L	L	M	H	L	L	M	M	H	M
CO4	M	M	M	L	M	H	M	M	H	H	H	H
CO5	M	H	M	L	M	H	M	L	H	H	H	H

Unit	Content	Hours
Unit – 1	Managerial Economics: Meaning - Nature and Scope – Role and Responsibilities of Managerial Economist - Relationship between Managerial Economics and Other Subjects.	15
Unit – 2	Production Analysis: Production function- Isoquants--Producers Equilibrium –Law of production-law of supply.	15
Unit – 3	Pricing Decision: Pricing and Output Decisions in Different Market Situations - Pricing under Perfect Competition.	15

Unit - 4	Capital budgeting: Meaning- Need for capital budgeting-forms of capital budgeting- Demand for capital- supply of capital.	15
Unit - 5	National Income: Elements of National Income – National Income Concepts - Measurement of National Income – Difficulty of Measurement – Significance of National Income.	15
	Total	75

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar ,Quiz, Assignment, Experience Discussion

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	R.Cauvery, Dr.U.K.Sudha Nayak	Managerial Economics	19 th Edition, Sultan Chand Sons, New Delhi	2018
2	Dr. S. Sankaran	Managerial Economics	2 nd Edition, Margham Publications, New Delhi	2018

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Mithani D.M	Principles of Economics	1 st Edition,Himalaya publishing house	2018
2	Mehta. P.L	Managerial Economics	19 th Edition, New Delhi: Sultan Chand and Sons	2014
3	Gupta.G.S	Managerial Economics	3 rd Edition, New Delhi: McGraw Hill Education	2017

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms.M.Gayathri	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC103			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week And Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	CC Lab - I : Office Automation	Semester:	I
					Credits:	2

Course Objective

To prepare the students for document preparation, business calculations, presentation of information and database management

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the various features of Word	K1
CO2	Understand the several functions of Excel	K2
CO3	Apply the creativity in business presentation	K3
CO4	Analyze the basic knowledge in database	K4
CO5	Evaluate the creation of database system	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	M
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	M	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	M

Unit	Content	Hours
Word	1. Design a MS-Word document with all basic features. 2. Design the front page of a Magazine in MS Word. 3. Build a table in MS Word projecting the details of the student's in our department 4. Using Mail Merge concept send invitation for Board Meeting to all the members of the company. 5. Bio data: Prepare a Bio-data.	15
	6. Design the Pay Roll of a company in MS Excel by considering the following conditions:	15

Excel

Dearness Allowance - 40% on Basic Pay

House Rent Allowance – Rs.400

Medical Allowance – Rs.100

Provident Fund – 12% on Basic Pay + Dearness Allowance

7. Design the Electricity Bill in MS Excel by considering the following conditions:

Unit Consumed Rate Per Unit (Rs.)

Up to 100 Units - NIL 101 to 200 Units - 3.50

200 to 500 Units - 4.60 Above 500 Units - 6.60

8. Create a Student's Mark List in MS Excel by considering the following conditions:

Percentage Class Conditional Formatting (Font Color)

40 – 49 III Blue

50 – 59 II Brown

0 & Above I Green

Subject Score

Score <40 Underline with Red Color

Score >80 Underline with Green Color

Result

Pass Black

Fail Red

9. Prepare the Student's details and view the records by using the AutoFilter Option.
10. Design a Chart in MS Excel to show the sales performance of the Company.
11. Prepare following using MS-Excel.

Players	Match	Match	Match 3	Average	Highest	Sum
Madhan	45	41	50			
Rahul	32	46	46			
Dhinesh	50	47	50			
Murali	42	32	47			
Ravi	38	41	49			

Perform following:-

- Calculate Average and High score of each player using AVERAGE & MAX function
 - Calculate total score of each match using SUM function.
 - Sort above records in descending order on the basis of average.
 - Take the printout in landscape orientation
12. Develop a Pivot Table expressing the sales performance of salesmen for 3 months.

Power Point	13. Design presentation slides for our College. The slides must include the history of various UG and PG courses offered by the college. 14. Design an Organization Chart for a Company to show the levels of hierarchy.	15
Access	15. Create the following Tables: a) Student's Personal Details & b) Student's Mark Details. Perform the following 1. Relate the Tables 2. Show the details of students who passed in all subjects. 3. Show the details of students whose subject score in all subjects are above 60. 4. Create a Form and Report for the Tables.	15
	Total Contact Hrs	60

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Sandra Cable, Steven M. Freund, Ellen Monk, Susan L. Sebok, Joy L. Starks, and Misty E. Vermaat	Microsoft Office 365& Office 2019- An Introductory	CENAGE	2020
2	Matt vic	Microsoft Office 365	Independently Published	2021

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M. Deepa	Dr.P.Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC204			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	CC - III : AI in Marketing	Semester:	II
					Credits:	4

Course Objective

To inculcate the application of AI in marketing Trends.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the essentials of AI in marketing	K1
CO2	Understand the role of Natural Language Processing (NLP) for Marketing.	K2
CO3	Apply the generative AI and data visualization in marketing.	K3
CO4	Analyse the benefits of email marketing and content creation using AI.	K4
CO5	Judge the need of ethical AI in marketing and Emerging trends in AI and marketing.	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	M	H	M	M	M	H	M	L	M	H	M
CO2	M	H	M	H	M	M	H	M	L	M	H	H
CO3	M	H	L	H	M	M	H	M	L	M	H	M
CO4	M	H	M	H	H	H	H	M	M	M	H	H
CO5	H	M	H	M	H	H	H	M	M	M	M	M

Unit	Content	Hours
Unit – 1	Introduction to Marketing: Meaning – Definition – Functions of Marketing – 4Ps of Marketing - Introduction To Artificial Intelligence (AI) in marketing - Supervised, unsupervised, and reinforcement learning - AI-driven marketing strategies - Personalization and automation - Examples of AI-powered marketing campaigns.	12
Unit – 2	Natural Language Processing (NLP) for Marketing: NLP concepts and techniques - Introduction to Chatbots and conversational AI - Prompt engineering - AI-generated content.	12
Unit – 3	Generative imagery - Generative video using AI - Data visualization basics -	12

	Data visualization in marketing - Social media marketing strategies - AI-driven content discovery and scheduling.	
Unit – 4	Email marketing strategies - Automation (agents, integration, extensions, plug-in, browsers, app creation) - AI-driven personalization and content generation - Recommendation systems basics - Recommendation systems used in marketing.	12
Unit – 5	Importance of ethical AI in marketing - Data privacy and security concerns - Responsible use of customer data - Bias and fairness in AI-driven marketing strategies - Emerging trends in AI and marketing	12
	Total Contact Hrs	60

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Sterne J	Artificial intelligence for marketing: practical applications	John Wiley & Sons	2020

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Venkatesan, Rand Lecinski J	The AI Marketing Canvas: A Five-stage Road Map to Implementing Artificial Intelligence in Marketing	Stanford University Press.	2019
2	King K	Using Artificial Intelligence in Marketing	Kogan Page Publishers	2005
3	Hosnagar, K	A human's guide to machine intelligence	New York: Viking	2012

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Deepa Mr.S.Rajagopalan	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC205			Course Title	Batch:	2025– 2028
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	CC - IV :Internet Of Things	Semester:	II
					Credits:	3

Course Objective

Students will be explored to the interconnection and integration of the physical world and the cyber space.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recall IOT Concepts and Requirements.	K1
CO2	Understand IOT Applications & IOT communication.	K2
CO3	Make use of IOT Data Acquisition and Platform.	K3
CO4	Analyze IOT Data Analytics & Visualization.	K4
CO5	Determine IOT Security Protocols.	K5

Mapping

PO /PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO												
CO1	H	H	M	M	H	H	L	H	L	M	H	M
CO2	M	M	H	H	H	H	M	H	M	M	H	M
CO3	H	H	M	H	H	M	M	L	M	M	H	H
CO4	L	L	H	M	H	M	H	H	H	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	H	M

Unit	Content	Hours
Unit – 1	IOT Introduction - Concepts and Definitions of the Internet of Things (IOT) - History of IOT- Requirements, Functionalists, and structure of IOT- IOT enabling technologies- IOT Architecture - The major component of IOT (Hardware & Software).	12
Unit – 2	IOT Case Studies - Project Case Study- Project Requirements (hardware & software) - Design IOT Applications (Web, Mobile, Device)- Projects on every technology (At least 4 Projects)- Data Generator - IOT communication and networking protocols, Role of wired and wireless communication.	12
Unit – 3	IOT Data Acquisition & Platform - Micro Controllers - Real-time systems, and embedded software- OS and Drivers (End Device Program)- Hardware & Software Requirements.	12
Unit – 4	IOT Data Communication - IOT Data Storage & Retrieval- Overview and Role of Storage in Cloud / Server /In house Storage- Databases Connectivity with IOT and uses - IOT Data Analytics & Visualization.	12
Unit – 5	IOT Security - Attack, Defense, and Network Robustness of Internet of Things - Malware Propagation and Control in the Internet of Things - Privacy Preservation Data Dissemination - Trust and Trust Models for the IOT - Authentication in IOT.	12
	Total Contact Hrs	60

Pedagogy and Assessment Methods:

Seminar, Power Point Presentation, Chalk and talk, Quiz, Assignments, Group Task.

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Vijay Madiseti, Arshdeep Bahga	Internet of Things A Hands-On-Approach	Orient Balckswan Private Limited - New Delhi / 1 st	2015
2.	Donald Norris	The Internet of Things	McGraw-Hill Education/1 st	2015

Reference Books

25UCC205

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Adrian McEwen	Designing the Internet of Things	Wiley Publishers/ 1 st	2013
2	Daniel Kellmerein	The Silent Intelligence: The Internet of Things	Lightning Source Inc / 1 st	2014
3	Dr. Gopala Krishna Behara	A Reference Guide to IOT: a Step – by- step Guide to Enterprise Transformation using IOT.	Notion press / 1 st	2022

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.R.Ramya	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC2A1			Course Title	Batch:	2025– 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	4	GE II - Allied : Business Mathematics and Statistics	Semester:	II
					Credits:	4

Course Objective

To enable the students to apply basic mathematical knowledge to solve the real life business problems and develop the knowledge of students in the application of statistical tools in business analysis

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	To keep in mind the application of mathematics and statistics in business analysis	K1
CO2	To understand the concepts of Mathematics in Finance	K2
CO3	To apply matrices in consistency of a system of simultaneous linear equations	K3
CO4	To interpret basic statistical calculations in business problems	K4
CO5	Gain knowledge to calculate Mean, Median and Mode.	K5

Unit	Content	Hours
Unit – 1	Mathematics of Finance: Simple Interest and Compound Interest: Basic concept – calculation of simple interest and compound interest- Effective Rates and Nominal rate of interest.	15
Unit – 2	Matrices: Definition of matrix – types of matrix – matrix operations Determinants: Solving simultaneous equations in 3 variables using Cramer’s rule.	15
Unit – 3	Inverse of a matrix: Definition- Inverse of a matrix- finding inverse of 3x3, 2x2 non-singular matrices- solving simultaneous linear equations by inverse matrix – Elementary transformation of matrix – Rank – Consistency of a system of Simultaneous Linear Equation.	15

Unit – 4	Statistics: Meaning and Definition – Function – Characteristics - Scope and Uses – Limitations . Measures of Central Tendency : Arithmetic Mean : Raw Data – Discrete series – Continuous series (Exclusive and inclusive class intervals).	15
Unit – 5	Methods of Finding Median : Discrete series – Continuous series . Mode: Discrete series – Continuous series - Harmonic Mean - Geometric Mean	15
	Total Contact Hrs	75

* *Italicized* texts are for self-study.

.Pedagogy and Assessment Methods:

Power point Presentations, Assignment and Brain storming

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Navaneetham, P.A	Business Mathematics & Statistics	Jai Publishers, Trichy	2019

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Dharmapadam	Business Mathematics	Visvanathan.S Ltd.,	2016
2	Dr.P.R.Vittal	Business Mathematics and Statistics	Margham Publications	2018
3	Sanchetti.D.C& Kapoor. V.K	Business Mathematics	Sultan Chand & Sons, New Delhi	2020

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Deepa	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC2A2			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	4	GE II - Allied : Operations Research- I	Semester:	II
					Credits:	4

Course Objective

To enable the students to apply the mathematical knowledge to solve the real life business problems

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts in Operations Research	K1
CO2	Understand the concepts of decision making theory	K2
CO3	Apply the knowledge of Queuing theory in solving business problems	K3
CO4	Analyse the information which helps to improve the ability of <i>decision taking</i>	K4
CO5	Evaluate the concepts of inventory to solve the business problems	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO 1	PSO2
CO1	M	L	M	M	H	M	M	M	M	H	L	M
CO2	H	M	H	H	H	M	M	H	H	H	M	M
CO3	H	H	H	M	H	M	H	H	H	M	M	H
CO4	H	H	H	H	H	H	H	H	H	M	M	H
CO5	H	H	M	M	M	H	H	H	H	H	M	H

Unit	Content	Hours
Unit - 1	Basics – Definition – Characteristics - Scientific methods – Necessary of operation research in Industry - Scope of operation research in Modern Management – Uses and limitations of operation research	15
Unit - 2	Decision Making – Decision Making environment – Decisions under uncertainty – Decision under risk – Decision – Tree Analysis (Theory only)	14

Unit - 3	Queuing Theory – Introduction – Queuing system – Characteristics of Queuing system – Symbols and Notations – Classifications of queues (Theory only)	15
Unit - 4	Information Theory: Introduction- A measure of Information-Axiomatic Approach to Information- Entropy-The expected information- Some properties of entropy function-Joint and conditional entropies	16
Unit - 5	Inventory control – Types of inventories – Inventory costs – EOQ Problem with no shortages – Production problem with no shortages.	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Assignment and Brain storming

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	P.K.Gupta & D.S. Hira	Problems in Operations Research	New Delhi: S. Chand & Company Ltd.,	2013

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Vittal P.R & V. Malini	Operations Research	1 st Edition, Chennai, Margham Publications	2012
2	Kanti Swarup, P.K. Gupta & Manmohan	Problems in Operations Research	12 th Edition, New Delhi, S.Chand& Sons	2019
3	Paneerselvam. R	Operations Research	2 nd Edition, New Delhi, Prentice Hall of India Pvt., Ltd.,	2016

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Shanmugapriya	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC205			Course Title	Batch:	2025 - 2028
				CC Lab - II :Web Designing	Semester:	II
Lecture Hrs./ Week And Practical Hrs./Week	4	Tutorial Hrs./Sem.	-		Credits:	2

Course Objective

To prepare the students for document preparation, business calculations, presentation of information, database management and designing website

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the fundamental knowledge of internet and web designing	K1
CO2	Understand the concept of designing web pages in web sites using various HTML tags	K2
CO3	Apply the practical knowledge in creating HTML files	K3
CO4	Analyze and develop website designing skill in real business world	K4
CO5	Evaluate the creation of links between web pages	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	H
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	H	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	H

Content	Hours
1. Write a HTML code for designing a web page for system configuration 2. Create a HTML document to show the important HTML tags 3. Design a web page to show the subject covered in the first year 4. Create a web page to list out the features of mobile phones using DIV element 5. List out the names of software companies using ordered list	60

6. List out the educational website using unordered list 7. Design a web page using Nested list. 8. Develop a web page to show the definition list using HTML tags 9. Create an advertisement of a product using HTML tags 10. Generate a web page using link within a web page 11. Develop a web page for NGM College using links for another web page 12. Generate a web page to display the weather report using table 13. Construct a HTML document to display mark statement using nested table 14. Prepare a resume using forms 15. Create a website for a College using frames	
Total Contact Hrs	60

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Jo Foster	Learn HTM for Beginner	Elluminet Press	2019
2	Jennifer Niederst Robbins	Learning Web Designing	O'Reilly	2012

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms.D.Saranya	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC2S1			Course Title	Batch:	2025 - 2028
				SEC – I: Naan Mudhalvan: An Introduction to Artificial Intelligence	Semester:	II
Lecture Hrs./ Week And Practical Hrs./Week	2	Tutorial Hrs./Sem.	-		Credits:	2

Course Objective

To prepare the students to improve the skills in AI

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the fundamental knowledge of AI	K1
CO2	Understand the concept of AI technology	K2
CO3	Apply the practical knowledge of AI technology in real world situation	K3
CO4	Analyze AI in real business world	K4
CO5	Evaluate the various future Applications of AI	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	H
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	H	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	H

Unit	Content	Hours
I	Introduction to Artificial Intelligence Definition and History of AI - Importance of AI in Commerce -AI vs. Machine Learning vs. Deep Learning.	6

II	Categories of Artificial Intelligence and Applications – Concepts.	6
III	Ethics and Artificial Intelligence - Sustainable Goals and Artificial intelligence.	6
IV	Computer Vision and Natural Language Processing (NLP) – Process.	6
V	Advantages and Disadvantages of Artificial Intelligence - Future Applications and Artificial Intelligence.	6
	TOTAL	30

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Anindita Das Bhattacharjee	Fundamental Concept of Artificial Intelligence with Applications	1 st Edition Shroff Publishers & Distributors Pvt. Ltd.	2021

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Shanmugapriya	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC307			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	4	CC - V: Corporate Accounting	Semester:	III
					Credits:	4

Course Objective

To develop the students' knowledge on corporate accounting in conformity with the provision of the Companies Act 2013

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the basic concepts and the treatment of shares.	K1
CO2	Understand the concepts used in issue and redemption of debentures.	K2
CO3	Apply practical experience in preparing final accounts of a company	K3
CO4	Apply the accounting concepts for the companies undergoing Amalgamation and Absorption.	K4
CO5	Analyse the consolidated balance sheet of holding company accounts.	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	H	L	L	H	L	M	M	L	L	H
CO2	H	M	H	L	L	H	L	M	H	M	M	H
CO3	H	M	M	L	L	H	M	H	H	H	H	H
CO4	H	H	M	M	L	M	L	H	H	M	M	M
CO5	H	H	H	L	M	M	M	M	H	M	M	H

Unit	Content	Hours
Unit – 1	Shares: Meaning – Types of Shares – Issue of Shares: Non-Cash Consideration - At par - At premium - At discount. Under subscription – Over subscription – Pro-rata allotment of shares – Calls in arrear – Calls in advance – Forfeitures of shares – Reissue of forfeited shares.	15

Unit – 2	Debentures: Meaning – Types– Issues of Debentures– Redemption of Debentures –Redemption by conversion – Redemption in instalments. Final Accounts of the companies: Statement of Profit and Loss – Balance sheet – Adjustments – Calculation of Managerial remuneration (Simple problems).	15
Unit – 3	Amalgamation of companies: Introduction – Types of amalgamation – Accounting treatment – Purchase consideration – Methods. Absorption: Introduction – Journal Entries in the books of vendor company and purchasing company - Accounting treatment.	15
Unit – 4	External reconstruction: Meaning – Journal Entries in the books of vendor company and new company – Necessary ledgers - Accounting treatment. Internal reconstruction: Meaning – Journal Entries – Capital Reduction Account – Accounting treatment. (Simple problems).	15
Unit – 5	Holding Company Accounts: Meaning – Mutual Owings –Goodwill - Contingent Liability - Unrealized Profit - Revaluation of Assets - Bonus Issue and Payment of Dividend - Preparation of Consolidated Balance Sheet (Inter Company and Multiple-holdings excluded).	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Reddy T.S.and A. Murthy	Corporate Accounting	7 th Edition, Chennai. Margham Publications.	2015

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Jain, S.P. and K.L. Narang	Advanced Accountancy	21 st Edition, New Delhi: Kalyani Publications.	2017
2	Gupta. R.L. and Radhaswamy	Advanced Accountancy	Theory, Method and Application-Vol.-1, 1 st Edition, Sultan Chand	2015

			&Sons, New Delhi	
3	Arulanandam MA and K.S. Raman	Advanced Accountancy	6th Revised Edition, New Delhi: Himalaya Publications	2019

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms.M.Gayathri	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC308			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	CC - VI : Advanced Relational Database Management System	Semester:	III
					Credits:	3

Course Objective

To enrich the knowledge on relational database management system

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the fundamentals of database management system	K1
CO2	Understand the relational database implementation using various models	K2
CO3	Interpret the divisions of SQL commands	K3
CO4	Analyze different forms of sub queries using SQL commands and PL/SQL architecture	K4
CO5	Execute the AI in DBMS	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	M	H	M	M	H	L	M	H	M	M	H
CO2	M	H	M	H	M	H	L	M	H	H	H	H
CO3	M	H	L	H	M	H	L	M	H	M	M	M
CO4	M	H	M	H	H	H	M	M	H	H	M	H
CO5	H	M	H	M	H	H	M	M	M	M	H	H

Unit	Content	Hours
Unit – 1	Database Concept – Purpose of Database – Disadvantages of File Based Data Management System – Advantages of having data in a database. DBMS: Meaning – Benefits of using DBMS – Functions of DBMS – Data Dictionary : Meaning – Benefits – Types. Transaction Management – Storage Management – DBA – Database Users.	12

Unit – 2	Database Architecture – Database Abstraction – Data Independence – Classes & Entities – Database Relationship and Associations : One to one relationship, One to many, Many to Many – Data Types. Data Models : Conceptual, Physical & Logical database models – Network model – Hierarchical Data Model – Relational Model – E-R Model : Components of an E-R model – E-R Diagram Conventions.	12
Unit – 3	Oracle: Introduction – Tools of Oracle – Introduction to SQL – Oracle Internal Data Types – Divisions of SQL: Data Definition Language, Data Manipulation Language, Data Control Language and Transaction Control Language. Keys: Primary Key, Foreign Key and Referential Key. SQL * Plus Functions: Date, Character, Numeric, Conversion, Miscellaneous and Group Functions. Set Operators – Relating Data through Join Concept.	12
Unit – 4	Sub-Queries: Meaning - Usage of Sub-Queries. Database Objects: Table, View – Synonym – Sequences – Index. Concept of Locking – Types of Locks. PL/SQL: Introduction - Advantages – Architecture of PL/SQL Block – Introduction to PL/SQL Block – Attributes. Control Structures.	12
Unit – 5	Cloud Database: Cloud Database management- Traditional Vs Cloud Database management system – Types – key components – advantages and disadvantages. Artificial Intelligence (AI) in DBMS: AI Powered Database Management Systems – Innovations of AI-Powered DBMS – AI Data Management Benefits.	12
	Total Contact Hrs	60

Pedagogy and Assessment Methods:

Power point Presentations, Seminar, Assignment, Experience Discussion, Brain storming and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Mathu Krithigha Venkatesh. L	Database Systems Management	Margham Publications, Chennai	2012

2	Ivan Bayross	SQL, PL/SQL the Programming Language of ORACLE	4th Edition, BPB Publications.	2017
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Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Nilesh Shah	Database System Using Oracle-A Simplified Guide to SQL and PL/SQL	2nd Edition, Pearson Education.	2009
2	Jose Ramalho A.	Learn Oracle 8i	1 st Edition, New Delhi: BPB Publications.	2007
3	Naphtali Rishe	Database Design Fundamentals	1 st Edition, New Delhi: Prentice Hall of India Private Ltd.	2007

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr. P. Gomathi Devi	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC3A1			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	GE III – Allied: Principles of Management	Semester:	III
					Credits:	3

Course Objective

To familiarize the students with concepts and principles of management

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the management fundamentals in <i>Indian Knowledge System</i>	K1
CO2	Comprehend about the various functions of management	K2
CO3	Apply the decision making principles in business	K3
CO4	Analyse the various motivational theories	K4
CO5	Evaluate and develop the various leadership qualities in real time	K5

Mapping

PQ/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	L	M	M	H	M	M	H	M	H	M
CO2	H	H	L	M	M	H	M	M	H	H	H	M
CO3	H	H	H	H	M	H	H	M	H	H	H	H
CO4	M	M	H	M	H	H	M	H	H	M	L	H
CO5	H	M	H	H	H	H	M	H	H	M	L	M

Unit	Content	Hours
Unit – 1	<i>Introduction to Indian Knowledge System:</i> Evolution of Indian Management thought : Introduction – Precursor to Management in Ancient India – Objective of Management in India : Stake	12

	holder value creation – Individual freedom – group behaviour – ethics – issues related to gender. Management in Ancient India: Origin of king, his attributes, roles and responsibilities from Manusmriti - Essence of Indian management.	
Unit – 2	Planning - Meaning and Definition – Nature and purpose of Planning – Objectives - Process of Planning –Types of planning - Advantages and Disadvantages of Planning - MBO (Management by objective strategies) - Decision Making- Types of Decision Making	12
Unit – 3	Organising – Meaning and Definition - Importance –Nature and Purpose of Organisation- Formal and Informal Organisation – Organization structure – Types - Line and Staff Authority – Departmentalization - Span of Control – Delegation of authority.	12
Unit – 4	Staffing – Sources of Recruitment - Merits and Demerits of Internal and External Sources - Motivation – Needs of Motivation – Maslow’s Theory of Motivation – Motivation Theories in Management – X, Y and Z theories - Communication – Types – Importance of Communication in an Organization- Barriers to effective communication	12
Unit – 5	Controlling: Process of control - Types of control – budgetary and non-budgetary control- Leadership - Type of leadership styles – Qualities of a Good Leader.	12
	Total Contact Hrs	60

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Dr. Munmun Mohanty, Dr.N.M. Khandelwal	Management Practices and thoughts in Ancient India	1 st Edition, Himalayan Publishing House, Pvt., Ltd.,	2024
2.	Dinkar Pagare	Business Management	6 th Edition, Sultan Chand & Sons, New Delhi	2018

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Jayashankar J.	Principles of Management	3 rd Edition, Chennai: Margham Publications	2016
2	Tripathi, P.C. and P.N. Reddy	Principles of Management	Revised Edition, New Delhi: Tata McGraw Hill Publishing Co. Pvt. Ltd.	2021
3	Prasad, L.M.	Principles and Practice of Management	10 th Edition, Sultan Chand & Sons. New Delhi	2021

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr. P.Archanaa	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC3A2			Course Title	Batch:	2025 - 2028
				GE III – Allied:	Semester:	III
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	Business Organization and Office Management	Credits:	3

Course Objective

To enable the students to develop a basic knowledge on business and office management

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the essentials of a Business	K1
CO2	Understand the different forms of organisation	K2
CO3	Implement Government policies and analyse the social responsibilities of a Business Concern.	K3
CO4	Analyse the structure of office layout and office environment features.	K4
CO5	Assess the elements of office management	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	L	M	H	H	L	H	L	M	H	L
CO2	H	M	L	H	H	L	M	H	M	M	H	M
CO3	H	H	M	L	L	M	H	H	M	M	H	H
CO4	H	L	H	M	L	M	H	H	H	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	L	M

Unit	Content	Hours
Unit – 1	Business: Meaning - Characteristics of Business – Divisions– Objectives– Requisites for success in Modern Business – Qualities of a business man. Industrial Revolution – Industrialization in India – Problems in Launching an Enterprise.	12

Unit – 2	Forms of Organisation: Sole Proprietorship, Partnership, Joint Stock Company and Co-operative Society - Family Business: Meaning – Definition –Types.	12
Unit – 3	Rationalisation: Features – Measures. Combinations: Causes – Forms. Government & Business: New Industrial Policy – Social Responsibilities of a business Firm	12
Unit – 4	Office Management – Elements – Functions – Office Manager – Characteristics – Qualification – Functions. Organisation: Principles – Forms. Centralization and Decentralization.	12
Unit – 5	Office Accommodation: Location – Office Building – Office Layout – Office Environment.	12
	Total Contact Hrs	60

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar, Quiz, Assignment, Experience Discussion and Case study

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Bhushan.Y.K.	Fundamentals of Business Organisation and Management	19 th Edition, New Delhi: Sultan Chand & Sons.	2020
2.	Kathiresan. S and Dr.V.Radha	Office Management	Reprint, Chennai: Prasanna Publishers.	2011

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	T.K. Sharama, Sashi.K.Gupta& Rahul Sharma	Business Organisation and Management	Kalyani Publication – 1 st Edition	2021
2	Dr. S.C. Saksena	Business Organisation and Management	Sahithya Bhawan Publications – 1 st Edition	2019

3	Sherlekar. S. A and Sherlekar. V. S	Modern Business Organisation and Management Systems Approach	Reprint, Mumbai: Himalaya Publishing House	2018
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Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. P. Divyabharathi	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC309			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	CC Lab - III : RDBMS	Semester:	III
					Credits:	2

Course Objective

To develop and manage the relational database design

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the various SQL commands in table creation	K1
CO2	Understand the usage of different DML & DCL commands	K2
CO3	Apply the database objects using SQL commands	K3
CO4	Analyse a database design using SQL and PL/SQL commands	K4
CO5	Evaluate the PL/SQL blocks in creating an oracle application	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	L	M	M	H	M	M	M	M	H	L	M
CO2	H	M	H	H	H	M	M	H	H	H	M	M
CO3	H	H	H	M	H	M	H	H	H	M	M	H
CO4	H	H	H	H	H	H	H	H	H	M	M	H
CO5	H	H	M	M	M	H	H	H	H	H	M	H

Content	Hours
<u>SQL</u> - Create a table for employee details using DDL Commands. - Create a table for sales details using DML Commands. - Create a table for item details using DCL & TCL Commands. - Create a table for student details and verify the following data constraints. - Primary Key - Reference Key - Default Key - Create a table for employee details and verify the following data constraints. - Not Null - Unique Key - Check - Create a table for student attendance and mark details and combine the results of two	30

queries using the set operators.	
7. Create a table and perform SQL * Plus functions – Group and single row functions	
8. Create a table and display the database objects in partition view	
<u>PL / SQL</u>	
9. Create a PL/SQL block and retrieve the records stored in the employee table.	
10. Create a PL/SQL program to calculate the bonus of employees based on their salary.	
11. Develop PL/SQL block to check the availability of stock for the given product	
12. Create a PL/SQL program to display the multiplication table	
13. Create a table for student mark details by using percentage type under PL/SQL attribute concept.	
14. Generate a program in PL/SQL to calculate the simple interest.	
15. Write a program to calculate the discount on sales in PL/SQL.	
Total Contact Hrs	60

Pedagogy and Assessment Methods:

Power point Presentations, Experience Discussion, Brain storming and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Jose A. Ramalho.	Learn Oracle 8i	1 st Edition, New Delhi: BPB Publications.	2007

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	William G. Paye Jr	Oracle 8i	Prentice Hall of India Private Ltd, New Delhi, 1999	2011
2	Naphtali Rishe	Database Design Fundamentals	1 st Edition, New Delhi: Prentice Hall of India Private Ltd.	2007

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr. P. Gomathi Devi	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC310			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	CC Lab - IV : Tally	Semester:	III
					Credits:	2

Course Objective

To enrich students' practical knowledge in accounting package and to prepare them for job market

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the main features of Tally ERP.9 software	K1
CO2	Understand the steps in preparation of various accounting vouchers	K2
CO3	Apply the knowledge in preparing stock summary, ratio analysis and bank statements	K3
CO4	Analyse the preparation of bill wise statement	K4
CO5	Evaluate the knowledge in preparing final accounts	K5

Mapping

PO /PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	M	M	M	H	H	M	H	M	M	H
CO2	M	H	H	M	M	H	H	M	M	M	M	H
CO3	M	H	H	H	M	H	H	M	H	M	M	H
CO4	M	H	H	M	H	M	H	M	H	M	H	M
CO5	M	H	M	M	H	M	H	H	H	M	H	M

Content	Hours
1. Create a Company and display ledgers 2. Prepare the following Accounting Vouchers: a) Payment Voucher b) Receipt Voucher c) Purchase Voucher d) Sales Voucher e) Contra Voucher f) Journal Voucher 3. Make voucher alteration and deletion	60

4. Record the transactions of sample data for Trial Balance 5. Display a cash book 6. Prepare stock summary 7. Create godown summary 8. Display Bank Reconciliation Statement 9. Prepare cost centre and cost category 10. Display bill-wise statements 11. Calculation of interest 12. Display final accounts of a Company 13. Computation of ratio analysis 14. Display foreign gain or loss 15. Print a Bill with GST	
Total Contact Hrs	60

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Rajesh Chheda	Learn Tally ERP9 with GST & E Way Bill	Ane Books Publications	2018
2	Dr.Namrata Agrawal Sh.Sanjay Kumar	Tally ERP 9	Dream Tech Publications	2019

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.R.Ramya	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC3N1			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-	Non Major Elective - I :Business and Professional Correspondence	Semester:	III
					Credits:	2

Course Objective

To develop the Business and Professional Correspondence written skills of the students

Course Outcomes(CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the structure of Business and Professional Correspondence	K1
CO2	Acquire the conceptual knowledge on various forms of Business and Professional Correspondence	K2
CO3	Develop written communication skills needed in business and Professional fields.	K3
CO4	Understand the format of preparing resume, agenda and minutes	K4
CO5	Evaluate professional writing skill to draft clear and effective business correspondence.	K5

Mapping

PQ /PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	L	M	M	H	M	M	M	M	H	L	M
CO2	H	M	H	H	H	M	M	H	H	H	M	M
CO3	H	H	H	M	H	M	H	H	H	M	M	H
CO4	H	H	H	H	H	H	H	H	H	M	M	H
CO5	H	H	M	M	M	H	H	H	H	H	M	H

Unit	Content	Hours
Unit – 1	1. Advertisement for inviting Quotations 2. Preparation of Quotations 3. Report on Quotations 4. Placing Orders and Letter of acceptance 5. Reminders 6. Despatch letters and acknowledgement	15

	7. Complaint Letters	
Unit – 2	8. Circulars for meeting 9. Drafting Agenda for the meeting 10. Drafting Minutes of the meeting 11. Bank Correspondence 12. Insurance Correspondence 13. Advertisement for Recruitment 14. Preparation of Resume 15. Draft a letter for Fees Structure, on-duty and Bonafide certificate.	15
	Total Contact Hrs	30

Pedagogy and Assessment Methods

Power point Presentations, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	R C Sharma , Krishna Mohan , Virendra Singh Nirban	Business Correspondence and Report Writing	6 th Edition & McGraw Hill	2020

Reference Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS\EDITION	YEAR OF PUBLICATION
1	Ramesh, M.S., C.C. Pattanshetti	Business Communication	28 th Edition, New Delhi: C hand & Company.	2011
2	Arun Sagar Anand	Business Letters	1 st Edition V & S Publisher	2017

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. P. Divya Bharathi	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC3N2			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-	Non Major Elective - I : Accounting Software - Tally	Semester:	III
					Credits:	2

Course Objective

To enrich practical knowledge in accounting package and to prepare them for job market

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the main features of Tally ERP.9 software	K1
CO2	Understand the steps in preparation of ledgers	K2
CO3	Apply the knowledge in preparing vouchers	K3
CO4	Analyse the preparation of stock summary	K4
CO5	Evaluate the bill wise statement.	K5

Mapping

PO / PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO												
CO1	M	H	M	M	M	H	H	M	H	M	M	H
CO2	M	H	H	M	M	H	H	M	M	M	M	H
CO3	M	H	H	H	M	H	H	M	H	M	M	H
CO4	M	H	H	M	H	M	H	M	H	M	H	M
CO5	M	H	M	M	H	M	H	H	H	M	H	M

Content	Hours
1. Creation of company and display ledgers. 2. Prepare the following accounting Vouchers: a) Payment Voucher b) Receipt voucher c) Purchase voucher d) Sales Voucher e) Contra Voucher f) Journal Voucher	30

3. Make voucher alteration and deletion. 4. Record the transactions of sample data for Trial Balance 5. Prepare stock summary 6. Create godown summary 7. Prepare cost centre and cost category 8. Display bill-wise statement 9. Computation of ratio analysis 10. Display foreign gain or loss	
Total Contact Hrs	30

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Rajesh Chheda	Learn Tally ERP9 with GST & E Way Bill	Ane Books Publications	2018
2	Dr.Namrata Agrawal Sh.Sanjay Kumar	Tally ERP 9	Dream Tech Publications	2019

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms.D. Saranya	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC411			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	4	CC - VII : Cost and Management Accounting	Semester:	IV
					Credits:	4

Course Objective

To expose the students the basic concepts and tools used in cost accounting

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the various types of inventory and costing.	K1
CO2	Understand the various methods in calculation of labour and overheads	K2
CO3	Apply the concepts of ratio analysis in management accounting.	K3
CO4	Analyse the fund flow and cash flow in management accounting.	K4
CO5	Evaluate the concepts of Budgets.	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	H	H	M	H	M	L	H	H	M	M
CO2	H	M	H	H	M	H	M	L	M	M	M	M
CO3	H	L	M	H	M	H	M	M	H	H	M	M
CO4	H	H	H	M	H	M	H	H	H	H	H	H
CO5	M	H	L	M	H	M	H	H	M	M	H	M

Unit	Content	Hours
Unit – 1	Cost Accounting : Introduction -Elements of cost- Cost Sheet. Inventory Control Techniques : Materials - Levels of Inventory – EOQ - Methods of Valuing Material Issues – FIFO – LIFO - Simple Average - Weighted Average	15
Unit – 2	Labour turnover: Labour turnover methods . Methods of Payment Systems: Time Rate and Piece Rate System: Incentive Systems: Halsey and Rowan.	15

	Overheads: Meaning - Classification – Allocation, Apportionment & Absorption of Overheads – Computation of Labour Cost.	
Unit – 3	UNIT – III : Meaning – Definition – Objectives – Scope of Management Accounting – Advantages – Disadvantages of Management Accounting - Ratio analysis - classification of ratios - liquidity, profitability, solvency – inter firm comparison.(Simple problems only).	15
Unit – 4	UNIT – IV : Fund flow analysis-Cash flow analysis (Simple problems only).	15
Unit – 5	UNIT – V : Budget and Budgetary Control (simple problems only):- Concepts, Types of Budgets - Budgetary Control - Advantages and limitations-Preparation of Budgets (simple problems only).	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Seminar and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Jain, S.P. and K.L. Narang	Cost Accounting and Principles and Practice	23 rd Edition, New Delhi, Kalyani Publishers.	2020

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Pillai, R.S.N. and V. Bagavathi	Management Accounting	5 th Revised Edition, New Delhi: S. Chand Company Limited.	2015

2	Khan. M.Y and Jain. P.K	Cost Accounting and Financial Management	New Delhi ,Tata MC Graw Hill Education Private Ltd.	2017
3	Saxena, V.K. and C.D. Vashist	Essentials of Cost Accounting	2 nd Edition, New Delhi: Sultan Chand & Sons.	2014

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr. P. Gomathi Devi Dr.T.Mohanasundari	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC4A1			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	GE- IV - Allied : Business Research Methods	Semester	IV
					Credits:	4

Course Objective

To understand some basic concepts of research and its methodologies

Course Outcomes

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

CO	Course Statement	Knowledge Level
CO1	Understand the basic concepts of research.	K1
CO2	Identify research problems and to formulate research design	K2
CO3	Implement suitable method of source data collection and frame questionnaire.	K3
CO4	Apply statistical tools for analysis	K4
CO5	Infer and interpret data appropriately and research report	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	M	M	L	H	H	L	H	H	H	L
CO2	M	H	H	H	M	M	M	H	H	H	H	M
CO3	M	H	L	H	H	L	H	L	H	H	M	H
CO4	H	H	H	M	H	M	H	M	H	H	M	H
CO5	H	H	M	H	M	H	L	H	H	H	M	M

Unit	Content	Hours
Unit- 1	Research: Meaning – Objectives – Significance and types – Research process – Criteria of good research – Formulation of research problem – Selecting the research problem – Techniques involved in defining a research problem.	15
Unit- 2	Research Design-Meaning-Need for Research design-Features of a good design - Important concepts of research design - Types of Research Designs – Hypothesis -Types of hypotheses-Framing of hypotheses.	15

Unit– 3	Collection of Data: Primary – Secondary – Methods – Questionnaire – Types – Pre test – Pilot study – Testing and Validating Questionnaire.	15
Unit– 4	Data Editing - Data Validation -Tabulation-Types of Tables. Data processing, Analysis and Presentation - Testing of Hypotheses - Use of Statistical Packages - Entering data using Spreadsheet – Functions and Formulae.	15
Unit– 5	Interpretation and Report Writing: Meaning of Interpretation – Why interpretation – Techniques of interpretation – Report writing – Mechanics of writing a Research report.	15
	Total	75

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar ,Quiz, Assignment, Experience Discussion and Case study

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Kothari, C.R, and Gaurav Gar	Research Methods and Techniques	New Age International, New Delhi.	2019

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Devendra Thakur,	Research Methodology in Social Sciences,	Deep and Deep, New Delhi.	2017
2	Gopal Lal Jain	Mangal Deep, Jaipur.	Mangal Deep, Jaipur.	2014
3	Bhome Sharadha	Research Methodology	Himalaya publication house Pvt. Ltd, New Delhi	2018

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.P Gomathi Devi	Dr. P. Archanaa	Prof.K.Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC4A2			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	4	GE IV - Allied : Operations Research - II	Semester	IV
					Credits:	4

Course Objective

To impart knowledge in Simplex Method, Assignment Problems, Sequencing Problems and Transportation Problem

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Construct linear integer programming models and discuss the solution techniques	K1
CO2	Apply techniques constructively to make effective decisions in business and solve problems in industry.	K2
CO3	Apply transportation and assignment problems in making business decisions	K3
CO4	Analyze the skills to achieve their objective using sequencing models.	K4
CO5	Appreciate the mathematical basis for business decision making	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO 1	PSO 2
CO1	M	H	M	M	H	H	M	H	L	M	H	L
CO2	H	L	M	H	H	M	M	H	M	H	H	M
CO3	H	H	M	H	M	M	M	H	M	H	H	H
CO4	M	M	H	L	M	M	H	H	M	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	L	M

Unit	Content	Hours
Unit - 1	Operations Research: Introduction – Definition - LPP : Graphical Solution Method – General Linear Programming Problem	15
Unit - 2	Simplex Method: Basic Solutions and Degenerate Solutions to Linear Equation – Simplex Method (Simple Problems)	15

Unit - 3	Assignment Problem: Definition – Assignment Algorithm – Hungarian Assignment – Unbalanced Assignment Method.	14
Unit - 4	Sequencing Problems: Introduction – Problem with ‘n’ Jobs and 2 Machines – Problems with ‘n’ Jobs & ‘3’ Machines - Problems with ‘n’ Jobs & ‘k’ Machines (Simple Problems only).	16
Unit - 5	Transportation Problem: Row Minimum – Column Minimum – North West Corner Rule – Least Cost Method	15
	Total Contact Hrs	75

Note:

The question paper shall cover 20% theory and 80% problems

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar ,Quiz, Assignment, Experience Discussion

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Vittal, P.R. & V. Malini,	Operations Research	1 st Edition, Chennai: Margham Publications.	2012

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Kanti Swarup, P.K. Gupta & Manmohan	Problems in Operations Research	12 th Edition, New Delhi: S. Chand & Sons	2019
2	Panneerselvam, R	Operations Research	2 nd Edition, New Delhi: Prentice Hall of India Pvt. Ltd	2016
3	S. Dharani Venkata Krishnan	Operations Research Principles and Problems-	Keerthi Publishing House Pvt., Ltd.	2014

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Shanmugapriya	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC412			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-	CC Lab - V : VB.Net	Semester:	IV
					Credits:	2

Course Objective

To develop the business application software using Visual Basic.Net

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the fundamental concepts of visual basic.Net programming	K1
CO2	Understand the significance of visual basic.Net programming for software development	K2
CO3	Deploy multiple forms and arrays in generating VB.Net applications.	K3
CO4	Analyse the integration of back end with front end tool using DAO control	K4
CO5	Execute the various control structures to create application software	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	L	M	H	H	H	H	H	M	M	H	M	H
CO2	L	M	H	H	H	M	H	L	M	H	M	H
CO3	L	M	H	H	H	M	H	L	M	H	M	H
CO4	M	M	M	H	H	H	H	M	M	H	M	H
CO5	M	M	H	H	H	H	H	L	M	H	M	H

Programs	Hours
1. Create a VB application to calculate simple and compound interest 2. Develop a quiz application in Visual Basic. 3. Create a VB application with File, Edit and Format Menus and perform its operations. 4. Develop a VB program to count number of words in a text. 5. Create a Program to select, add and delete a place in the List Box.	60

6. Design a form to show the employee pay slip using if statement.
7. Design a simple calculator.
8. Design a student Login Form using Functions
9. Prepare an advertisement banner using VB application.
10. Develop an Application to move an object using Timer Control
11. Design a super market bill using VB application
12. Create a VB application to prepare inventory control.
13. Create a student database in Ms-Access. Display the information in the VB form using data control. Perform various manipulations.
14. Create an employee database in Ms-Access and display the information in the VB form using data control. Perform various manipulations.
15. Design a Electricity Bill using DAO / ADO Control by considering the following conditions:

Unit Consumed	Rate Per Unit (Rs.)
Up to 100 Units	NIL
101 to 200 Units	3.50
200 to 500 Units	4.60
Above 500 Units	6.60

Pedagogy and Assessment Methods

Power Point Presentations, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Jeffrey R. Shapiro	Visual Basic.NET	1 st Edition – McGraw Hill Education Pvt., Ltd., Noida	2017

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	V.Christy	Programming in VB.Net	1 st Edition – Laxmi Publications	2015

2	Julia Case Bradley, Anita Millspaugh	Programming in Visual Basic.Net	4 th Edition - Tata McGraw- Hill Education Pvt. Ltd.	2022
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Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.T.Vijaya Chithra	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC413			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	CC – VIII: Mobile Computing	Semester:	IV
					Credits:	4

Course Objective

To enhance the skills on Mobile Network, Transport and Application Layers

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recall the concepts of Mobile Computing and its Generations	K1
CO2	Understand the working of Telecommunication System in Mobile Computing	K2
CO3	Implement the Knowledge of Mobile Network Layer	K3
CO4	Apply the Strategies of Mobile Transport and Application Layer	K4
CO5	Assess the Mobile Platforms and Applications	K5

Mapping

PQ/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	H
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	H	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	H

Unit	Content	Hours
Unit - 1	Introduction to Mobile Computing — Applications of Mobile Computing- Generations of Mobile Communication Technologies- Multiplexing — Spread spectrum -MAC Protocols — SDMA- TDMA- FDMA- CDMA	15
Unit - 2	MOBILE TELECOMMUNICATION SYSTEM :	15

	Introduction to Cellular Systems — GSM — Services & Architecture — Protocols — Connection Establishment — Frequency Allocation — Routing — Mobility Management — Security — GPRS- UMTS — Architecture — Handover — Security	
Unit - 3	MOBILE NETWORK LAYER : Mobile Internet Protocol — Dynamic Host Configuration Protocol (DHCP) — AdHoc– Proactive protocol-Destination Sequenced Distance Vector (DSDV), Reactive Routing Protocols — Dynamic Source Routing (DSR), Ad-hoc On-Demand Distance Vector (AODV), Hybrid routing –ZRP, Multicast Routing- ODMRP, Vehicular Ad Hoc networks (VANET) – Mobile Ad-hoc Network (MANET) - MANET Vs VANET — Security.	15
Unit - 4	MOBILE TRANSPORT AND APPLICATION LAYER : Mobile TCP– Wireless Application Protocol — Architecture — Wireless Datagram Protocol — Wireless Transport Layer Security — Wireless Transaction Protocol –Wireless Session Protocol — Wireless Application Environment — Wireless Telephony Application Architecture — Wireless Markup Language.	15
Unit - 5	MOBILE PLATFORMS AND APPLICATIONS : Mobile Device Operating Systems — Special Constraints & Requirements — Commercial Mobile Operating Systems — Software Development Kit: iOS, Android, BlackBerry, Windows Phone — M Commerce — Structure — Pros & Cons — Mobile Payment System — Security Issues	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Asoke K Talukder, Hasan Ahmed , Roopa Yavagal	Mobile Computing: Technology Applications And Service Creation.	Pustak Kosh, Noida	2017

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	<u>Brijesh Gupta</u>	Mobile Computing	Khanna book Publishing House	2019
2	Mall Rajib , Pattnaik Prasant Kumar	Fundamentals Of Mobile Computing	PHI Learning Pvt. Ltd	2015
3	Rishabh Anand	Mobile computing	First Edition, Khanna book Publishing House	2012

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.T.Vijaya Chithra	Dr. P. Archanaa	Prof. K. Srinivasan	Prof.K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC4S1			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-	SEC II: Naan Mudhalvan: Basics of Finance & Fintech2	Semester:	IV
					Credits:	2

Course Objective

To prepare the students to improve the skills in finance

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the fundamental knowledge of Finance	K1
CO2	Understand the concept of financial eco system	K2
CO3	Apply the practical knowledge of technology in finance	K3
CO4	Analyze and develop financial designing skill in real business world	K4
CO5	Evaluate the creation of links between technology and organization	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	H
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	H	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	H

Unit	Content	Hours
Unit - 1	Introduction to Finance – Types of Finance	6
Unit - 2	Financial Ecosystem – Players of Financial Ecosystem	6

Unit - 3	Challenges of Financial Services Industry – Financial Technology (FinTech)	6
Unit - 4	FinTech Architecture - Applications of FinTech	6
Unit - 5	FinTech Technologies - Fintech startups	6
	Total Contact Hrs	30

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Shashi K Gupta, R.K. Sharma	Financial Management Theory and Practice	Kalyani Publisher	2015
2	Dr. Komal Mistry	FinTech in India	Book Rivers Publication	2023

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms.M.Gayathri	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC4S2			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-	SEC II: Naan Mudhalvan: Mutual Funds Foundation	Semester:	IV
					Credits:	2

Course Objective

To prepare the students to improve the knowledge in mutual funds

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the fundamental knowledge of mutual funds	K1
CO2	Understand the concept of Mutual Fund Structure	K2
CO3	Apply the practical knowledge of Performance of Mutual fund Products	K3
CO4	Analyze the Schemes of Mutual Funds	K4
CO5	Evaluate the Fund Distribution.	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	H
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	H	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	H

Unit	Content	Hours
Unit - 1	Concept of Mutual Fund - Role of Mutual Fund in Economy.	6
Unit - 2	Mutual Fund Structure - Constituents.	6
Unit - 3	Mutual Fund Products – Performance of Products	6
Unit - 4	Returns of MF – Schemes of MF	6

Unit - 5	Fund Distribution - Sales Practices.	6
	Total Contact Hrs	30

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Balachandran V	Securities Market & Regulations	Publisher: Sultan Chand & Sons	2023
2	V. A. Avadhani	Securities Analysis And Portfolio Management	Himalaya Publishing House	2023

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Nirmala	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC4N1			Course Title	Batch:	2025 - 2028
				Non Major Elective - II : Commerce & Computer Application Practical	Semester:	IV
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-		Credits:	2

Course Objective

To enrich the students' knowledge in basic form filling and to develop their skills in utilizing various online applications

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the filling of various forms in business	K1
CO2	Understand the new concepts used in Commerce and Computer arena	K2
CO3	Apply practical experience in business transactions	K3
CO4	Analyse the knowledge of computer in various online business applications	K4
CO5	Assess the students' knowledge on real business operations	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	L	M	H	M	H	H	M	L	H	M	H	M
CO2	L	M	H	H	H	L	M	L	H	M	H	M
CO3	L	H	M	M	H	L	M	M	H	H	L	H
CO4	H	M	H	H	H	M	H	H	L	H	L	H
CO5	H	M	H	M	H	H	H	H	L	L	H	M

Commerce Practical	Hours
1. Pay roll & Pay slip 2. Product Design Canvas 3. Bank Account Opening Form and Change of Nominee in Bank Account - Form 4. Pay-in-Slip and Withdrawal Slip	

5. Cheque and Demand Draft (DD) Challan 6. RTGS and NEFT form 7. Filling of Post Office RD Form 8. Share Application Form and DEMAT Account Opening Form 9. Partnership Registration Form 10. Company Registration Form	30
Computer Application Practical	
1. Preparation of Resume with resume wizard 2. Preparation of Resume without using resume wizard 3. Invite board members for annual meeting using mail merge concept 4. Preparation of Employee Payroll using formulas. 5. Preparation of spreadsheet for EMI calculation. 6. Preparation of Sales Report using charts 7. Create students mark list with necessary information using access 8. Online insurance premium payment 9. Online employment registration and renewal 10. Registration of user in the portal of Tamil Nadu Registration Department. 11. Online Application for PAN Card 12. Creation of profile in LinkedIn with basic and academic details	
Total Contact Hrs	30

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion and Activity

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms.P.Divyabharathi	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC4N2			Course Title	Batch:	2025 - 2028
				Non Major Elective -	Semester:	IV
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-	II : Retail Management	Credits:	2

Course Objective

To expose the students in the area of retail marketing management

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	State the fundamentals of retailing and types of retailing	K1
CO2	Understand the retail planning and retail brand management	K2
CO3	Apply the strategies in retail location decision.	K3
CO4	Analyse the aspects of retail pricing and retail promotion.	K4
CO5	Evaluate the needs of applying information technology in retail market	K5

Mapping

PO /PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	L	M	H	H	L	H	L	M	H	L
CO2	H	M	L	H	H	L	M	H	M	M	H	M
CO3	L	H	M	L	L	M	H	H	M	M	H	H
CO4	L	L	H	M	L	M	H	H	H	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	L	M

Unit	Content	Hours
Unit – 1	Introduction to Retailing: Retailing - Definition and functions - Importance of retailing in marketing - Types of retailing - Store and Non Store retailing - Retailing in India.	6
Unit – 2	Retail Planning: Retail planning: Purpose – Methods - Structure and Monitoring the plan - Retail Brand Management: Positioning. Types of Brand - Life Cycle of Brand.	6
Unit – 3	Retail Location: Retail location decision - Trading area analysis - Types of location - Site evaluation - Store design: Layout and space management - Visual	6

	merchandising and displays.	
Unit – 4	Retail Pricing: Retail pricing: Approaches - Influencing factors - Price sensitivity and mark down policy. Retail Promotion: Retail promotion – Setting objectives – Role of Promotional methods in retailing.	6
Unit – 5	Application of IT in Retail: Impact of information technology in retailing - Integrated systems and Networking EDI – Bar Coding - Customer database management - Electronic retailing.	6
	Total Contact Hrs	30

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Swapna Pradhan	Retailing Management	6 th Reprint, New Delhi: Tata McGraw Hill Education.	2020

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Levin, I.M. and B.A. Weitz	Retailing Management	New Delhi: Tata Mc Graw Hill Publishing Company Ltd.	2019
2	Chetan Bajaj, Rajnish Tuli and Nidhi V. Srivastava	Retail Management	2 nd Edition, New Delhi: Oxford University Press.	2005
3	Barry Berman and Joel R. Evans	Retail Management - A Strategic Approach	12 th Edition, Prentice Hall. Chennai	2012

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature Mr.S.Rajagopalan	Name and Signature Dr. P. Archanaa	Name and Signature Prof. K. Srinivasan	Name and Signature Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC514			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	4	CC - IX : Income Tax	Semester:	V
					Credits:	5

Course Objective

To facilitate the students to gain adequate knowledge in Income-Tax

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the fundamental concepts used in Income Tax	K1
CO2	Get an idea of residential status of assesses and incomes exempted from tax	K2
CO3	Apply the procedure in computation of income from salaries and house property	K3
CO4	Analyse the skills in computation of income from business or profession, capital gains and income from other sources	K4
CO5	Measure the skills in set off and carry forward of losses and to analyse tax liability of an individual	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	L	M	H	H	L	H	L	M	H	L
CO2	H	M	L	H	H	L	M	H	M	M	H	M
CO3	H	H	M	L	L	M	H	H	M	M	H	H
CO4	H	L	H	M	L	M	H	H	H	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	L	M

Unit	Content	Hours
Unit – 1	Income Tax – Introduction –Definitions under Income Tax Act – Person – Assesses – Income – Gross Total Income – Total Income – Assessment Year – Previous Year – Exception to General Rule – Residential Status – Scope of Total Income	18

Unit – 2	Income from Salaries - Computation of Income from Salary – Allowances – Perquisites - Profit in Lieu of Salary – Gratuity – Pension - Leave encashment - Retrenchment compensation - Deductions out of Gross Salary	18
Unit – 3	Income from House Property – Annual Value Computation - Let out House and Self-Occupied House- Income from Capital Gains- Short -term and long- term Capital Gains – Exempted Capital Gains.	18
Unit – 4	Profits and Gains of Business and Profession – Business Vs Profession - Computation of Profits and Gains of Business and Computation of Professional Income – Doctors, Chartered Accountant and Lawyer.	18
Unit – 5	Income from other Sources-General Income-Specific Income – Carry Forward and Set off of Losses. Exempted Incomes- Deductions from Gross Total Income - 80C to 80GG, 80QQB and 80U (Theory only).	18
	Total Contact Hrs	90

Pedagogy and Assessment Methods:

Group discussions, Seminar and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	V.P.Gaur, D.B. Narang, Puja Gaur and Rajeev Puri	Income Tax Law and Practice	48 th Edition, New Delhi, Kalyani Publishers.	2024 – 25

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	H.C. Mehrotra and S.P. Goyal	Income Tax Law and Account	60 th Edition, New Delhi, Sahithya Bhavan Publisher	2023 – 25
2	Bhagawathi Prasad	Law & Practice of Income Tax in India	New Delhi, Current Edition, Navman Prakashan Aligarh.	2020

Note:

Problems shall be confined to Residential Status, Income from Salaries- Profits and Gains of Business or Profession, Income from House Property and Capital Gains, Other sources, Set Off, Carry Forward and Set Off of Losses and deductions applicable to individuals only

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Nirmala & Dr.T.MohanaSundari	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC515			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	CC -X: Programming in C++& Python	Semester:	V
					Credits:	4

Course Objective

To promote the students' knowledge in 'C++' and python

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the basic concepts of C++ language.	K1
CO2	Apprehend the knowledge on Functions, Classes and Objects.	K2
CO3	Implement the concepts of Constructors, Destructors and Operator Overloading.	K3
CO4	Inference python programs for data types using objects and functions.	K6
CO5	To learn how to use lists, tuples, and dictionaries in Python programs.	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	L	H	H	H	H	M	H	H	H	H	M	H
CO2	L	H	H	H	H	M	H	H	M	H	M	H
CO3	M	H	H	H	H	M	H	H	M	H	M	H
CO4	L	H	H	H	H	H	M	H	H	H	M	L
CO5	M	H	H	H	H	H	M	H	H	H	M	L

Unit	Content	Hours
Unit – 1	Object Oriented Programming Language: Basic concepts – Benefits – Introduction to C++ : Applications – Structure of C++ programming – Tokens – Keywords – identifiers and Constants – Basic Data Types: User Defined data types – Derived data types – Declaration of variables – Dynamic initialisation –Operators - Manipulators – Operator overloading – Control Structures.	15

Unit – 2	Functions in C++: Introduction –The Main Function- Function prototyping – Call and return by reference – Default and Const Arguments – Function Overloading. Class and Objects: Introduction- Defining member Function – Rules for Inline function -Arrays: Arrays within a class- Arrays of Objects.	15
Unit – 3	Constructors and Destructors: Introduction – parameterized constructors – Multiple constructors- constructors with default arguments – copy constructor- dynamic constructors- Destructors. Operator overloading: Introduction – Rules- overloading unary and binary operators – Type conversion. Inheritance, Pointers and polymorphism: Types of Inheritance – Pointers to derived classes – Virtual functions – Pure Virtual functions.	15
Unit – 4	Python: Introduction-features-Comparative Study-Comments-Variables and Assignments. Python Objects: Standard types-Built-in-type Internal type-Standard type operator and Built-in functions-Categorizing standard type Unsupported type. Numbers: Introduction- Integer-Floating Point-Complex numbers-Operators-Built-in and factory functions. Sequences- Strings-Strings and Operator-String only operator- Built-in-Functions-Built-in-Methods-String Features-Unicode.	15
Unit – 5	Python: LISTS: List-list slices-list methods-list loop–mutability–aliasing–cloning lists list parameters. TUPLES: Tuple assignment, tuple as return value-Sets– Dictionaries. Functions Definition - Passing parameters to a Function - Built-in functions- Variable Number of Arguments – Scope – Type conversion- Modules - Standard Modules – sys – math – time - dir -help Function.	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Seminar and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
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1	Balagurusamy, E	Object oriented Programming with C++	8 th Edition, NOIDA, McGraw-Hill Education, India Pvt. Ltd.	2020
2.	Aditya Kanetkar,	Programming in Python	BPB publications	2020

Reference Books

S. NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	<u>Rashid Raza Ansari, Dipankar Chowdhury, Raman Jha</u>	C++ Programming in Easy Steps	1 st Edition, Notion Press Media Pvt Ltd., Chennai	2018
2	Bud Tenny	C++ for Beginners	1 st Edition, Notion Press Media Pvt Ltd., Chennai	2022
3.	Harsh Bhasin	Python for Beginners	New Age International (P) Ltd Publishers	2018
4.	O'Reilly	Media, Learning Python	5th Edition Fifth Edition	2013

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. D. Saranya	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC5E1			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	DSE - I : Entrepreneurial Development	Semester:	V
					Credits:	4

Course Objective

To encourage students to become an entrepreneur.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the various techniques and process for entrepreneurship	K1
CO2	Understand the importance of becoming entrepreneurs	K2
CO3	Apply the knowledge on various agencies involved in entrepreneurship and formulating a Project	K3
CO4	Analyse and equip to write a business plan.	K4
CO5	Estimate the concepts about women entrepreneurship and rural entrepreneurship	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	L	M	M	H	M	M	H	M	H	M
CO2	H	H	L	M	M	H	M	M	H	H	H	M
CO3	H	H	H	H	M	H	H	M	H	H	H	H
CO4	M	M	H	M	H	H	M	H	H	M	L	H
CO5	H	M	H	H	H	H	M	H	H	M	L	M

Unit	Content	Hours
Unit – 1	Introduction – Concept of Entrepreneur- Characteristics – Qualities – Difference between an entrepreneur and a manager – Functions – Types of entrepreneurs. Entrepreneurship: Nature and characteristics of entrepreneurship – Scope – Factors affecting Entrepreneurial growth.	15
Unit – 2	Entrepreneurship Development Programme (EDP) – Need – Objectives – Course contents – Curriculum of EDPs – phases – Evaluation Agencies involved: IDBI – IRBI – IFCI – ICICI – LIC – UTI – SFCs-	15

	SIDBI- EXIM – DIC – TIIC – SIDCO. Start ups and Funding Options: Definition. Start ups ecosystem: Support organizations, big companies, universities. Business Incubation: Definition and Principles.	
Unit – 3	Project Identification and Selection – Meaning of project – Classification – Identification – Selection – Project Formulation. Project Report : Meaning – Significance – Contents – Formulation – Guidelines – Network Analysis –Project Appraisal.	15
Unit – 4	Plant Layout & Process Planning: Definition – Types of Plant Layout – Applicability- Objectives – Process Planning. Quality Assurance – Definition – Total Quality Management(TQM) – Benefits – Techniques.	15
Unit – 5	Women Entrepreneurship: Concept – Functions – Growth of Women Entrepreneurship – Problems – Recent Trends. Rural Entrepreneurship: Meaning – Need – Problems – Measures.	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar ,Quiz and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Khanka. S.S	Entrepreneurial Development, Revised Edition	S.Chand & Company Limited, New Delhi	2020
2.	Anil Kumar S, Poornima S.C, Mini K Abraham, Jayashree. K	Entrepreneurial Development	New Age International (P) Limited, Publishers, New Delhi	2021

Reference Books

25UCC5E1

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Gupta C.B, Srinivasan, N.P	Entrepreneurship Development	Sultan Chand & Sons, New Delhi	2015
2	Saravanel P	Entrepreneurial Development	Ess Pee Kay Publishing House	2020
3	Saravanel P and P. Sumathi	Entrepreneurial Development	Margham Publications	2020

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.P.Archanaa	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC5E2			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	DSE – I: Legal Aspects in Business	Semester:	V
					Credits:	4

Course Objective

To provide basic knowledge on the provisions of the Indian Contract Act and the Companies Amendment Act, 2013

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the fundamentals of Contract Act	K1
CO2	Assess the knowledge about different aspects of Goods Act	K2
CO3	Understand the basic characteristics and legal structure and nature of a company	K3
CO4	Analyse about the shares and company meetings	K4
CO5	Evaluate the process followed in winding up of companies	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	M	H	H	L	H	H	H	H	M	M	H
CO2	H	M	H	H	H	H	H	M	M	M	M	M
CO3	H	M	H	H	H	M	M	H	M	L	H	H
CO4	H	M	H	H	M	H	H	H	H	L	H	M
CO5	M	M	H	H	L	H	H	H	H	L	H	H

Unit	Content	Hours
Unit – 1	Business Law : Law – Meaning - Indian Contract Act, 1872 – Contract – Definition – Classification of Contracts – Essential Elements of Valid Contract. Offer – Types – Legal Rules relating to Offer – Acceptance – Essentials of Valid Acceptance – Communication of Offer and Acceptance – Revocation of	15

	Offer and Acceptance. Consideration – Essentials of a Valid Consideration	
Unit – 2	Capacity to Contract – Law relating to Minor, Unsound Mind Person – Persons Disqualified by Law – Free Consent – Coercion – Undue Influence – Fraud – Mistake and Misrepresentation. Contract of Sale of Goods Act 1930 – Rules regarding Delivery of Goods – Rights and Duties of a Buyer and Seller	15
Unit – 3	Company Law: Company– Meaning and Definition – Characteristics – Kinds – Privileges of Private Company – Conversion of a Private Company into a Public Company – Formation of a Company – Difference Between Companies Act 1956 and 2013 - CSR	15
Unit – 4	Memorandum of Association – Meaning and Importance – Alteration – Articles of Association – Content of Articles of Association - Alteration – Prospectus - Management of a Company – Appointment of Directors – Removal of Directors – Legal Position of Directors – Powers, Duties and Liabilities of Directors – Managing Director – Manager – Independent Director.	15
Unit – 5	Company Meetings – Statutory Meeting – Annual General Meetings – Extraordinary General Meetings Winding up of Companies – Modes of winding up – Powers and Duties of Liquidator – National Company Law Tribunal Act (NCLT) – Functions – Advantages.	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power Point Presentations, Seminar, Assignment and Case study

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Kapoor, N.D.	Elements of Mercantile Law	38 th Edition, New Delhi: Sultan Chand & Sons Company Limited.	2020
2	N.D. Kapoor	Company Law and Secretarial Practice	Sultan Chand and Sons publications, 34 th Edition	2020

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Pillai, R.S.N. and Bagavathi	Business Law	3 rd Edition, New Delhi: Sultan Chand & Company Limited.	2011
2	Tulsian, P.C.	Business Law	3 rd Edition, New Delhi: Sri Vishnu Publication	2018
3	Prof. Anil Kumar	Company Law	5 th Edition, Taxmann's Publications Private Limited New Delhi.	2021
4	Dr.G.K.Kapoor, Dr.SanjayDhamija	Company Law	25 th Edition, Taxmann's Publications Private Limited.	2022

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr. M. Shanmugapriya	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC5E3			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week And Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	DSE – I: Digital Finance	Semester:	V
					Credits:	4

Course Objective

To prepare the students to improve the skills in finance and financial technology

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the fundamental knowledge of Finance	K1
CO2	Understand the concept of financial eco system	K2
CO3	Apply the practical knowledge of digitization in finance	K3
CO4	Analyze and develop financial technologies in real business world	K4
CO5	Evaluate the creation of links between technology and finance	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	H
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	H	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	H

Unit	Content	Hours
Unit - 1	Introduction to Finance – Nature of Finance – Scope of Finance - Types of Finance – Relationship of Finance with other disciplines – Functions of Finance – Sources of Finance – E-finance – Evolution – Delivery of E-finance.	15

Unit	Content	Hours
Unit - 2	Financial Ecosystem – Players of Financial Ecosystem – Role of Fund based and Fee Based Services – Money Market – Bond Market – Equity market – High frequency trading – Forex market – Products – Commodity markets and Commodity ETFs.	15
Unit - 3	Digital finance – Features – Elements of digital finance – Traditional finance vs. Digital finance - Digitalized financial services – Advantages - Requirements - Challenges of Financial Services Industry – Financial Technology (FinTech) – Security issues.	15
Unit - 4	Artificial intelligence in finance – Role of AI in finance – Mechanisms – Big data in finance – Framework – Importance – Applications – Limitations & Challenges – Digital assets – Digital assets management system – Crypto currency – Growth of crypto currency – Advantages and Disadvantages.	15
Unit - 5	Financial Innovation (Past and Present) – Categories – Fintech Industry – Services of Fintech industry – Financial data management – Machine learning in finance – Government regulations for Fintech (Global and India) – Overview of Block chain – Key elements - Block chain in financial software and system – Smart contracts – Permissioned ledger.	15
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Text Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	David Lee KuoChuen, Robert H. Deng	Handbook of Blockchain, Digital Finance, and Inclusion, Volume 1	Academic Press	2017

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Shashi K Gupta, R.K. Sharma	Financial Management Theory and Practice	Kalyani Publisher	2015
2	Dr.Komal Mistry	FinTech in India	Book Rivers Publication	2023
3	Digital Finance	Perry H Beaumont	Taylor and France Publishers	2019

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Mr.Rajagopalan.S	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC516			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	-	Tutorial Hrs./Sem.	-	CC - XI : Institutional Training	Semester:	V
					Credits:	2

Course Objective

To enable the students to develop an application oriented software

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the practical knowledge in real business applications	K1
CO2	Understand the real applications in business	K2
CO3	Apply the theoretical knowledge in practical business	K3
CO4	Analyse the outside business exposure	K4
CO5	Evaluate the business process	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	H	M	M	M	H	H	M	M	H	H
CO2	H	H	H	L	L	H	H	H	M	M	H	H
CO3	H	H	H	L	M	H	H	H	H	M	H	H
CO4	M	H	H	L	M	H	M	H	H	M	M	H
CO5	H	H	H	L	M	H	M	H	H	M	L	H

Content	Hours
1. The student has to undergo training in financial institutions / companies for a period of 30 days in the fourth semester vacation 2. Work Diary should be maintained with Attendance Certificate 3. Maximum of two students are permitted to undergo training in the same institution.	

4. Student Evaluation: Internal and External Examiner

Pedagogy and Assessment Methods:

Experience Discussion and Activity

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
All Staff Members	Dr. P. Archanaa	Prof.K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC517			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	5	Tutorial Hrs./Sem.	-	CC - XII : Cloud Computing	Semester:	V
					Credits:	4

Course Objective

To Provide Basic Knowledge on Cloud Computing, Enabling and Virtual Technologies

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Get familiar with the term Cloud computing.	K1
CO2	Understand various types of free and commercial clouds.	K2
CO3	Analyze various types of cloud services like SaaS, PaaS and IaaS	K3
CO4	Know how the Cloud Computing is changing software industry	K4
CO5	Apply Virtualization Technology in real world situation	K5

Mapping

PO /PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	L	M	H	H	L	H	L	M	H	L
CO2	H	L	L	H	H	L	M	M	M	M	M	M
CO3	M	H	M	L	L	H	H	H	M	H	H	H
CO4	H	L	H	M	L	M	H	H	H	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	L	M

Unit	Content	Hours
Unit-1	Understanding Cloud Computing: Origin and Influence – History – Definition – Business Drivers – Capacity Planning – Cost Reduction – Organizational Agility – Technology Innovations – Clustering – Grid Computing – Virtualization – Technology Innovation Vs Enabling Technologies	15
Unit-2	Basic Concepts and Technology: Cloud – IT Resources – On-Premise –	16

	Cloud Consumers and Cloud Providers – Scaling: Horizontal and Vertical Scaling – Cloud Service: Cloud Service Consumer – Goals – Benefits - Risks and Challenges – Multi-Regional Compliance & Legal Issues.	
Unit-3	Fundamentals, Concepts & Models: Roles: Cloud Provider – Cloud Consumer – Cloud Service Owner – Cloud Resource Administrator. Boundaries: Organizational & Trust - Cloud Characteristics – Cloud Deliver Models – Cloud Deployment Models.	14
Unit-4	Cloud Enabling Technology: Broadband Networks and Internet Architecture: Internet Service Providers (ISPs) - Connectionless Packet Switching (Datagram Networks) - Router-Based Interconnectivity - Physical Network - Transport Layer Protocol - Application Layer Protocol - Technical and Business Considerations - Connectivity Issues - Network Bandwidth and Latency Issues - Cloud Carrier and Cloud Provider Selection.	16
Unit-5	Introduction to Virtualization Technology: Hardware Independence - Server Consolidation - Resource Replication - Operating System-Based Virtualization - Hardware-Based Virtualization - Virtualization Management - Other Considerations - Web Technology: Basic Web Technology - Web Applications. Multitenant Technology: Service Technology - Web Services - REST Services - Service Agents - Service Middleware.	14
	Total Contact Hrs	75

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Thomas Erl, Eric Barceló Monroy	Cloud Computing: Concepts, Technology, Security & Architecture	2nd Edition - Pearson Education Publisher,	2024

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Christian Vecciola , Rajkumar Buyya, Thamarai Selvi , Shivananda Poojara , Satish N. Srirama	Mastering Cloud Computing	2nd Edition, McGraw Hill Publisher	2024
2	Toby Velte, Anthony Velte	Cloud Computing, a Practical Approach	Robert Elsenpeter	2017
3	Prasanta Pattnaik , Manas Kabat, Souvik Pal	Fundamentals of Cloud Computing	Vikas Publishing House	2014

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.T.Vijaya Chithra	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

25UCC518

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC518			Course Title	Batch:	2023 – 2026
				CC Lab - VI : C++& Python	Semester:	V
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	-		Credits:	3

Course Objective

To equip the students to write object oriented programming language.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the usage of basic concepts of C++	K1
CO2	Understand the loop structures and arrays in application development	K2
CO3	Implement pointers and file concepts to solve the given problem	K3
CO4	Analyse the functions and argument events in generating python	K4
CO5	Execute the ability of developing applications in python using the theoretical exposure of the language	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	L	M	M	H	M	M	H	M	H	M
CO2	H	H	L	M	M	H	M	M	H	H	H	M
CO3	H	H	H	H	M	H	H	M	H	H	H	H
CO4	M	M	H	M	H	H	M	H	H	M	L	H
CO5	H	M	H	H	H	H	M	H	H	M	L	M

Content	Hours
1. Generate a program to illustrate the concept of class and object 2. Generate a program using the concept of Inline Function 3. Write a program using Friend Function C++. 4. Create a program using function overloading	

5. Write a program to demonstrate array of objects 6. Construct a program using constructors. 7. Develop a C++ program using the concept of destructors. 8. Build a program using Single Inheritance. 9. Generate a C++ program using Multiple Inheritance. 10. Design a program to handle overloading unary and binary operators in C++.	60
Python 1. Write a Program to find prime numbers between 1 to n. 2. Design a Program to check given number is Armstrong or not. 3. Write a Program to create a List and split it into two lists for odd and even numbers. 4. Demonstrate various List operations 5. Develop a program to accept a line of text and find the number of characters, number of vowels and number of blank spaces in it.	30
Total Contact Hrs	90

Pedagogy and Assessment Methods:

Power point Presentations, Assignment and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Balagurusamy, E	Object oriented Programming with C++	8 th Edition, NOIDA, McGraw-Hill Education, India Pvt. Ltd.	2020
2.	Aditya Kanetkar	Programming in Python	BPB publications	2020

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	<u>Rashid Raza Ansari, Dipankar</u>	C++ Programming in	1 st Edition, Notion Press Media Pvt	2018

	<u>Chowdhury, Raman Jha</u>	Easy Steps	Ltd., Chennai	
2	Bud Tenny	C++ Beginners	for 1 st Edition, Notion Press Media Pvt Ltd., Chennai	2022
3.	Harsh Bhasin	Python Beginners	for New Age International (P) Ltd Publishers	2018
4.	O'Reilly	Media, Learning Python	5th Edition Fifth Edition	2013

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. D. Saranya	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC519			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	-	Tutorial Hrs./Sem.	-	CC – XIII :Project	Semester:	V
					Credits:	4

Course Objective

To enable the students to develop an application oriented software

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the practical knowledge in real business applications	K1
CO2	Understand the real applications in business	K2
CO3	Apply the theoretical knowledge in practical business	K3
CO4	Analyse the outside business exposure	K4
CO5	Evaluate the business process	K5

Mapping

PO /PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	H	M	M	M	H	H	M	M	H	H
CO2	H	H	H	L	L	H	H	H	M	M	H	H
CO3	H	H	H	L	M	H	H	H	H	M	H	H
CO4	M	H	H	L	M	H	M	H	H	M	M	H
CO5	H	H	H	L	M	H	M	H	H	M	L	H

Content	Hours
1. The student has to complete project work in which they will learn various aspects of Commerce and Computer Applications, such as Financial statements analysis, Web page designing, Website development and so on. By undertaking the project work, the students will be able: - To experiment the concepts learnt. - To apply the concepts practically - To identify the problems associated	

- To provide solutions to the identified problems
- To understand the economic, business and technological environment.

2. Group of four members has to do the project work.

Pedagogy and Assessment Methods:

Experience Discussion and Activity

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
All Staff Members	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC5S1			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-	SEC - III :Commerce and Computer Application Practical	Semester:	V
					Credits:	1

Course Objective

To enrich the students' knowledge in basic form filling and to develop their skills in utilizing various online applications

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recollect the filling of various forms in business	K1
CO2	Understand the new concepts used in Commerce and Computer arena	K2
CO3	Apply the knowledge of computer in various online business applications	K3
CO4	Analyse the practical experience in business transactions	K4
CO5	Assess knowledge on real business operations	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO 2
CO1	H	M	H	M	H	M	H	M	H	M	M	H
CO2	H	L	H	M	H	M	M	L	H	M	M	H
CO3	H	M	M	L	H	M	M	M	M	L	L	H
CO4	H	L	M	L	M	L	L	L	M	L	L	M
CO5	H	M	M	H	L	H	H	M	M	M	H	L

Commerce Practical	Hours
1. Preparation of Pay roll & Pay slip 2. Filling of Pay-in-Slip, Withdrawal Slip and Cheque 3. DD Challan, RTGS and NEFT 4. Filling of Post Office RD Form 5. Share Application Form and Demat Account Opening Form	30

Computer Application Practical	
1. Preparation of Resume with and without using resume wizard 2. Power Point Presentation for Advertisement of a product 3. Online Insurance Premium Payment 4. Online employment registration and renewal 5. Registration of user in the portal of Tamil Nadu Registration Department 6. Online application for PAN Card 7. Online GST Registration 8. Online Passport Application	
Total Contact Hrs	30

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion and Activity

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr. P. Archanaa	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC5S2			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-	SEC - III : Investment Management	Semester:	V
					Credits:	1

Course Objective

To make the students to understand the fundamentals of investment management

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recall the idea about investments and its various alternatives	K1
CO2	Understand the alternative forms of investment	K2
CO3	Implement the knowledge about fundamental Analysis.	K3
CO4	Analyse the various process involved in technical Analysis.	K4
CO5	Determine the level of awareness regarding investment Risk and Return.	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	M	H	M	H	M	H	M	H	M	M	H
CO2	M	L	H	H	H	L	M	L	H	M	M	H
CO3	H	M	L	L	H	M	M	M	H	H	L	H
CO4	M	L	M	L	M	L	H	L	M	L	H	M
CO5	H	M	M	H	L	H	H	M	H	M	H	L

Unit	Content	Hours
Unit – 1	Investment – Meaning – Investment and Speculation – Investment and Gambling – Source of Investment – Investment Media	6
Unit – 2	Alternative forms of investment–Primary Market–Secondary Market–NSE.	6
Unit – 3	Risk and Return concepts–Systematic Risk–Unsystematic Risk–Credit Rating.	6
Unit – 4	Fundamental Analysis– Economic–Industry–Company–Financial Statement Analysis	6
Unit – 5	Technical Analysis–Dow Theory–Eliot Wave–Theory–Types of Charts	6

	Total Contact Hrs	30
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Pedagogy and Assessment Methods:

Power point Presentations, Seminar and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Preeti Singh	Investment Management	5th Revised Edition, Mumbai: Himalaya Publishing House.	2012

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Avadhani, V.A.	Investment Management	8 th Revised Edition, New Delhi, Himalaya Publishing House	2019
2	Prasanna Chandra	Investment Analysis and Portfolio Management	5th Edition, New Delhi, Tata McGraw Hill Education Private Limited	2017
3	Frank J. Fabozzi	Investment Management	5 th Edition, Chennai, Prentice Hall	2012

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms.R.Subhasangeetha	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC5AL			Course Title	Batch :	2025 - 2028
				ALC – I: International Marketing (Optional)	Semester:	V
Lecture Hrs./ Week Or Practical Hrs./Week	SS	Tutorial Hrs./Sem.	-		Credits:	2**

Course Objective

To enrich students' knowledge in Global Marketing

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the importance of doing business abroad and Strategies	K1
CO2	Understand the kinds of MNC's	K2
CO3	Figure out the recent trends in global marketing.	K3
CO4	Put into practice the global level Branding and pricing.	K4
CO5	Analyse the Channels of Distribution in Global level	K5

Mapping

PQ/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	L	M	M	H	M	M	H	M	H	M
CO2	H	H	L	M	M	H	M	M	H	H	H	M
CO3	H	H	H	H	M	H	H	M	H	H	H	H
CO4	M	M	H	M	H	H	M	H	H	M	L	H
CO5	H	M	H	H	H	H	M	H	H	M	L	M

Unit	Content	Hours
Unit - 1	International Marketing: Concept, Evolution, Importance and Process. International Marketing Research	
Unit - 2	International Marketing Information Systems, Market Analysis. Opportunities And Challenges in International Marketing, Future Prospects Of International Marketing, India's Presence In International Marketing	

Unit - 3	International Marketing Mix - stages of Internationalization - Global marketing - Barriers to global marketing.	
Unit - 4	Channels of Distribution - International Retailing - Sales Promotion - Distribution Structure and pattern - Middleman	
Unit - 5	. International Trade Organization: WTO, RTA, SAARC, ASEAN, BRICS and European Union. International Marketing Strategies.	

TextBook

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Philip R. Camera, R.Bruce Money Mary C.Gilly, John L.Graham	International Marketing	McGraw Hill Publication	2019

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Mahalingam Dutta	International Marketing	Dream tech Press	2020
2	S.A.Sherlekhar	Marketing Management	Himalaya Publications	2014
3	NargundkarRajendra	International Marketing	Excel Books	2014

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Nirmala	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC620			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	4	DSE - II : Goods and Service Tax	Semester:	VI
					Credits:	5

Course Objective

To impart basic knowledge about Indirect Tax.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Remember the rules and regulation of indirect taxation.	K1
CO2	Understand the rules for registrations and its exemptions in taxation.	K2
CO3	Implement GST and its working mechanisms.	K3
CO4	Analyze and resolve tax problems.	K4
CO5	Assess the knowledge on levying and collection of tax	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	L	M	H	H	L	H	L	M	H	L
CO2	H	L	L	H	H	L	M	M	M	M	M	M
CO3	M	H	M	L	L	H	H	H	M	H	H	H
CO4	H	L	H	M	L	M	H	H	H	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	L	M

Unit	Content	Hours
Unit-1	Indirect Taxes- Meaning and Nature- Special features of Indirect Taxes - Types -Objectives- Direct Taxes Vs. Indirect Taxes -Contribution to Government Revenues- Taxation under the Constitution- Advantages and Disadvantages of Indirect Taxes	18
Unit-2	Introduction and Scope of Customs Law in India-The Customs Act 1962- Types-Levy and Collection from Customs duty- Exemption from Customs duty- Classification and Valuation of goods under Customs Law - Abatement of duty in Damaged or Deteriorated Goods- Remission on Duty on Lost,	18

	Destroyed or Abandoned Goods- Customs Duty Draw Back.	
Unit-3	Goods and Service Tax-Introduction-Meaning-Need for GST-Features of GST- GST Council - Advantages and Disadvantages of GST-Structure of GST in India- Dual Concepts-SGST-CGST-IGST-UTGST- Types of rates under GST- Taxes subsumed under State Goods and Services Tax Act 2017- Taxes subsumed under Central Goods and Services Tax Act 2017	18
Unit-4	Levy and Collection under SGST/CGST Acts- Meaning of Important Term: Goods, Services, Supplier, Business, Manufacture, Casual Taxable person, Aggregate Turnover. Input Tax and Output Tax. Concept of Supply- Composite and Mixed Supplies- Composition Levy- Time of Supply of Goods and Services- Value of Taxable Supply- . Input Tax Credit- Eligibility and Conditions for taking Input Credit- Registration procedure under GST- Filing of Returns	18
Unit-5	Levy and Collection under the Integrated Goods and Service Tax Act 2017- Meaning of Important Terms: Integrated Tax, Intermediary, Location of the Recipient and Supplier of Services, Output Tax. Levy and Collection of Tax- Determination of Nature of supply- Inter-State Supply and Intra-State Supply- Place of Supply of Goods or Services- Zero-Rated Supply.	18
	Total Contact Hrs	90

Pedagogy and Assessment Methods

Power point Presentations, Group discussions, Seminar, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Datey V.S.	Indirect Taxes	Mumbai, Taxmann Publications Private Limited	2021

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Balachandran, V	Indirect Taxation	New Delhi, Sultan Chand and Sons	2019
2	C.A. Raj Agarwal	Indirect Taxation	Bharat Law House – 1 st Edition	2018
3	Mittal, J.K.	Law Practice and Procedures of Service Tax	New Delhi, Jain Book Agency	2017

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Deepa	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6E4			Course Title	Batch:	2025 - 2028
				DSE - II : Programming in Java	Semester:	VI
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	-		Credits:	4

Course Objective

To upgrade the students in Programming Language to develop net based Business Applications in recent IT Technology.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	The competence and the development of small to medium sized application programs that demonstrate professionally acceptable coding	K1
CO2	Demonstrate the concept of object oriented programming through Java	K2
CO3	Apply the concept of Inheritance, Modularity, Concurrency, Exceptions handling and data persistence to develop java program	K3
CO4	Develop java programs for applets and graphics programming	K4
CO5	Understand the fundamental concepts of AWT controls, layouts and events	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	H	M	L	L	L	M	M	M	H	M
CO2	H	H	H	M	L	L	L	M	M	M	M	M
CO3	H	H	H	M	L	H	L	L	M	M	M	M
CO4	H	H	H	M	L	H	M	L	M	M	H	M
CO5	H	H	H	M	L	H	L	L	M	M	H	H

Unit	Content	Hours
Unit – 1	Fundamentals Of Object- Oriented Programming : Object-Oriented Paradigm – Basic Concepts of Object-Oriented Programming – Benefits of Object-Oriented Programming –Application of Object-Oriented Programming. Java Evolution: History – Features – How Java differs from C and C++ – Java and Internet – Java and www –Web Browsers. Overview of Java: simple Java program – Structure – Java Tokens – Statements – Java Virtual Machine.	18
Unit – 2	Branching And Looping :Constants, Variables, Data Types - Operators and Expressions – Decision Making and Branching: if, if...else, nested if, switch, ? : Operator - Decision Making and Looping: while, do, for – Jumps in Loops - Labelled Loops – Classes, Objects and Methods.	18
Unit – 3	Arrays And Interfaces: Arrays, Strings and Vectors – Interfaces: Multiple Inheritance – Packages: Putting Classes together – Multithreaded Programming.	18
Unit – 4	Error Handling: Managing Errors and Exceptions – Applet Programming – Graphics Programming.	18
Unit – 5	Managing Input / Output Files In Java: Concepts of Streams- Stream Classes – Byte Stream classes – Character stream classes – Using streams – I/O Classes – File Class – I/O exceptions – Creation of files – Reading / Writing characters, Byte-Handling Primitive data Types – Random Access Files.	18
	Total Contact Hrs	90

Pedagogy and Assessment Methods

Power point Presentations, Group discussions, Seminar, Quiz and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	E. Balagurusamy	Programming with Java - A Primer	Tata McGraw Hill Education (India) Private Limited, New Delhi\ 5th Edition	2014

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Herbert Schildt	Java: The Complete Reference	Tata McGraw Hill Education, Oracle Press\10th Edition	2018
2	Patrick Naughton & Hebert Schildt	The Complete Reference Java 2	Tata McGraw Hill Education\ 3rd Edition	2014

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. R. Subhasangeetha	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K.Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6E5			Course Title	Batch:	2025 - 2028
				DSE - II: Securities Markets	Semester:	VI
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	-		Credits:	4

Course Objective

To prepare the students to improve the knowledge in securities market.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the fundamental knowledge of securities market	K1
CO2	Understand the concept of debt and equity in securities market	K2
CO3	Apply the practical knowledge of primary market of securities	K3
CO4	Analyze the functionalities of secondary market of securities	K4
CO5	Evaluate the various aspects of Mutual Funds	K5

Mapping

PQ/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	H
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	H	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	H

Unit	Content	Hours
Unit - 1	Securities Markets – Meaning and Definition – Securities - Structure of Securities Markets – Participants - Role of Securities Markets - Technological advancements in the securities market - Securities available in the securities market	18
Unit - 2	Choice between Equity and Debt Financing for Issuers - Choosing between	18

	Debt and Equity Investment Avenues - Hybrid Instruments - Characteristics and role of Commodities as an asset class - Derivatives as investments - Asset Allocation and Diversification - Understanding the factors underlying the investment process.	
Unit - 3	Primary Vs. Secondary Markets - Intermediaries in Primary Market - Types of Issues- Regulatory Framework for Primary Markets - Types of Public Issue of Equity Shares - Listing of Shares - Rights Issue of Shares - Regulatory requirements for a Public Issue of Debt Securities.	18
Unit - 4	Role and Function of the Secondary Market - Types of secondary markets for different securities - Trade Execution - Clearing and Settlement of Trades - Trading and settlement process from investor's point of view - Market Information and Regulation - Risk Management Systems.	18
Unit - 5	Meaning and Description of a Mutual Fund - Terms and Concepts Related to Mutual Funds - Types of Open-ended Mutual Fund Products - Types of Closed ended Mutual Fund Schemes - Investment approaches – active and passive - Processes for Investing in Mutual Funds -Systematic Transactions.	18
	Total Contact Hrs	90

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Text Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Bajpai G N	The Securities Market	Hind Pocket Books	2017

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
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1	Balachandran V	Securities Market & Regulations	Publisher: Sultan Chand & Sons	2023
2	V. A. Avadhani	Securities Analysis And Portfolio Management	Himalaya Publishing House	2023

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Mr.Rajagopalan.S	Dr. P. Archanaa	Prof. K. Srinivasan	Prof.K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6E6			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	-	DSE - II : Banking and Insurance Law	Semester:	VI
					Credits:	4

Course Objective

To enrich the students' knowledge on the various provisions of banking and insurance law

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Gain knowledge about Banking systems	K1
CO2	Know about the Cheque and other banking terms	K2
CO3	Remember the concepts of loans	K3
CO4	Understand the duties and liabilities of paying and collecting banker	K4
CO5	Analyse the various principles of insurance and its classifications	K5

Mapping

PO /PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	M	M	M	M	M	H	H	M	H	M
CO2	H	H	M	L	M	M	L	H	H	M	M	M
CO3	H	H	M	L	M	M	L	H	H	M	M	M
CO4	H	H	M	L	H	H	M	H	H	M	H	M
CO5	H	H	M	L	H	H	M	H	H	M	H	H

Unit	Content	Hours
Unit – 1	Banking – Definition - Relationship between Banker and Customer – Special Types of Customers – Minor, Married Women, Lunatic and Partnership Firms and Companies. Meaning of Banking Terms: Cash Reserve Ratio[CRR] – Statutory Liquidity Ratio[SLR] – Bank Rate – Prime Lending Rate[PLR] – Repo Rate[RR] – Reverse Repo Rate[RRR] – Marginal Standing Facility[MSF].	18

Unit – 2	Cheque: Material Alteration – Crossing – Endorsement. Loans - Precautions while Lending Loans against Document of Title to Goods, Shares, Insurance Policies and Bank Receipts, Land and Buildings.	18
Unit – 3	Paying and Collecting Banker – Duties and Liabilities – Circumstances for refusing Payment of Cheques – Consequences of Wrong Dishonour – Statutory Protection for Paying and Collecting Banker.	18
Unit – 4	Insurance: Meaning – Functions – Nature - Principles – Classification- Evolution-Purpose and need of insurance-Role of insurance in the development of the economy	18
Unit – 5	Insurance Regulatory and Development Authority Act (1999): Meaning – Importance. Types of Insurance: LIC, GIC, Marine – Merits and Demerits of Insurance.	18
	Total Contact Hrs	90

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar, Quiz and Assignment

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Gordon, E. and K. Natarajan	Banking Theory, Law and Practice	28 th Revised Edition, Chennai: Himalaya Publishing House.	2020
2	Dr. A. Murthy	Elements of Insurance	Chennai: Margham Publications	2018

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Gupta. O.P and Sudhir Kumar Sharma	Banking & Insurance	Sahitya Bhawan Publications.	2019
2	Sharma and Shashi K. Gupta	Banking Theory, Law and Practice	16 th Edition, New Delhi: Deepa and Deepa Publications Private Limited.	2013

3	Dr. P. Periyasamy	Principles and Practice of Insurance,	Mumbai: Himalaya Publishing House	2019
4	Mishra M.N. & Mishra S.B	Insurance Principles and Practice	22 nd Edition, S. Chand Publications.	2016

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. P. Divya Bharathi	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K.Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6E7			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	-	DSE - III: E-Commerce and Information Security	Semester:	VI
					Credits:	4

Course Objective

To expose the students' on fundamentals of e-commerce and need for information security

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the basics of E-Commerce	K1
CO2	Understand the electronic data interchange and electronic payment systems	K2
CO3	Implement the various models of e-commerce in real business	K3
CO4	Analyse the need for information security and existence of various network securities	K4
CO5	Determine the components Modern Technologies	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	M	M	H	H	M	H	L	M	H	L
CO2	H	L	M	H	H	M	M	H	M	H	H	M
CO3	H	H	M	H	M	M	M	H	M	H	H	H
CO4	M	M	H	L	M	M	H	H	M	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	L	M

Unit	Content	Hours
Unit – 1	Introduction to E-Commerce – Meaning – Definition – Perspectives of E-Commerce – History of E-Commerce – Framework and Classification of E-Commerce– E-Commerce Drivers – Adoption of E-Commerce – Traditional Vs Electronic Commerce – Advantages and Disadvantages of E-Commerce.	18

Unit – 2	Models of E-Commerce: B2B - B2C – C2B – C2C – B2G. Voice Commerce: Meaning, Definition – Benefits of Voice Commerce – Voice commerce service applications (Alexa and Echo dot etc.) - Voice Commerce VS. Conversational Commerce – Digital Assistance – Digital banking and Evolution of Voice Commerce.	18
Unit – 3	Electronic Payment System (EPS) – Meaning – Problems with Traditional Payment Systems – Features – Types of Electronic Payment Systems – Advantages and Disadvantages- Designing electronic payment system. Online Banking: Core Banking Solution (CBS) – Advantages and Disadvantages.	17
Unit – 4	Components of Communications System – Transmission Media. Protocol – Definition – Introduction to TCP / IP – Wireless Network – Basics of Internet. Types of Attack: Phishing, Spoofing, Impersonation, Dumpster diving – Information Security Goals. Information Security Threats and Vulnerability: Spoofing Identity, Tampering with data, Repudiation, Information Disclosure, Denial of Service, Elevation of Privilege.	18
Unit – 5	Authentication – Password Management – E-Commerce Security – Windows Security. Network Security: Network Intrusion and Prevention Systems – Firewalls – Software Security. Web Security: User authentication, Authentication – Secret and Session Management, Cross Site Scripting, Cross Site Forgery, SQL Injection. Computer Forensics – Steganography.	19
	Total Contact Hrs	90

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar ,Quiz, Assignment, Experience Discussion and Case study

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Ravi Kalakota& Andrew, Whiston	E-Commerce	Darling Kindersly (India) Pvt. Ltd.	2014

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Kamalesh N. Agarwala, Amitlal Beeksha Agarwala	Business on the Net - An Introduction to the 'What's' and 'How's' of E-Commerce	2 nd Edition, New Delhi: Macmillan India Limited.	2005
2	Dr. C.S. Reyudu	E-Commerce & E-Business	Himalaya Publishing House, New Delhi	2020
3	Kenneth C. Laudon and Carol Guercio Traver	E-Commerce	Business Technology, 4 th Edition, Dorling Kindersley (India) Private Limited.	2011
4	Dr. Sushila Madan	E-Commerce	Scholar Tech Press	2020

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Nirmala	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6E8			Course Title	Batch:	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	-	DSE - III : Financial Markets and Services	Semester:	VI
					Credits:	4

Course Objective

To enable the students to understand various financial services and make them familiar with the Indian capital market, its operations, instruments, regulations etc.,

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the different financial system and financial markets in India	K1
CO2	Understand the new issue and secondary market structure in India.	K2
CO3	Apply the concepts of financial services in real situation	K3
CO4	Analyse the financial services offered by merchant banking.	K4
CO5	Determine the performance of venture capital and factoring services	K5

Mapping

PQ/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	H	M	M	M	M	H	L	M	M	H
CO2	H	H	M	L	H	H	M	H	M	M	M	H
CO3	H	H	M	L	H	H	M	H	H	H	M	H
CO4	H	H	M	L	H	H	M	H	M	H	H	H
CO5	M	H	H	M	H	H	M	H	L	H	H	M

Unit	Content	Hours
Unit – 1	The Financial System In India - Functions of the Financial System - Financial Concepts - Financial Assets - Financial Intermediaries - Financial Markets - Importance of Capital Market - Money Market - Foreign Exchange Market - Financial Rates of Return - Financial Instruments - Development of Financial System in India. Financial Markets: Money Markets - Meaning - Advantages. Call Money Market. Capital Market - Meaning - Importance -	18

	Difference between Money Market and Capital Market.	
Unit – 2	New Issue Market - Meaning - Stock Exchange - Distinction between New Issue Market and Stock Exchange - Relationship between New Issue Market and Stock Exchange - Functions of New Issue Market. Secondary Market: Introduction - Functions/Services of Stock Exchanges - Recognition of Stock Exchanges - Procedure - Organization of Stock Exchanges in India	17
Unit – 3	Financial Services: Concept, Nature and Scope of Financial Services – Regulatory Framework of Financial Services – Growth of Financial Services in India –Mutual Funds: Concept and Objectives, Functions and Portfolio Classification, Organization and Management, Guidelines for Mutual Funds, Working of Public and Private Mutual Funds in India.	19
Unit – 4	Merchant Banking: Introduction – Definition – Origin – Merchant Banking in India Merchant Banking – Meaning-Types – Responsibilities of Merchant Bankers – Role of Merchant Bankers in Issue Management – Regulation of Merchant Banking in India.	18
Unit – 5	Venture Capital: Venture Capital – Growth of Venture Capital in India – Financing Pattern under Venture Capital, Leasing – types of Leases – Evaluation of Leasing Option Vs. Borrowing, Credit Rating – Meaning & Functions, Insurance Services– Factoring – Forfeiting - Discounting.	18
	Total Contact Hrs	90

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar, Assignment, Experience Discussion and Activity

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	E. Gordon and Natarajan	Financial Markets and Institutions	Himalaya Publishing House Private Limited. Mumbai	2021

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Anthony Saunders, Marcia Million Cornett, Anshul	Financial Markets and Institutions	7 th Edition, McGraw Hill Education(India) Private Ltd, Noida	2021

	Jain			
2	Dr.Vinod Kumar, Prof Atul Gupta and Manmeet Kaur	Financial Markets & Institutions	Taxmann's Publications Private Limited, New Delhi	2021
3	Bimal Jaiswal, Bhuvana Venkatraman and Richa Banerjee	Financial Markets, Institutions and Financial Services	Sathiya Bhawan Publications, Agra	2019

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms.P.Divyabharathi	Dr. P. Archanaa	Prof.K.Srinivasan	Prof.K.Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6E9			Course Title	Batch:	2025- 2028
Lecture Hrs./ Week Or Practical Hrs./Week	6	Tutorial Hrs./Sem.	-	DSE - II :ERP and Industry 4.0	Semester:	VI
					Credits:	4

Course Objective

To prepare the students to develop the basic understanding of how ERP enriches the business organization in achieving a multidimensional growth and to have knowledge on Industry 4.0

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recall the basic concepts of ERP	K1
CO2	Understand the risks involved in ERP	K2
CO3	Make use of various ERP related technologies	K3
CO4	Analyze the necessity of Industry 4.0	K4
CO5	Determine the applications of IoT in various sectors	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	M	M	H	H	L	H	L	M	H	M
CO2	M	M	H	H	H	H	M	H	M	M	H	M
CO3	H	H	M	H	H	M	M	L	M	M	H	H
CO4	L	L	H	M	H	M	H	H	H	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	H	M

Unit	Content	Hours
Unit – 1	Enterprise Resource Planning: Meaning – Common Myths in ERP – History – Reasons for Growth of ERP in Market – Advantages – ERP architectures.	18

Unit – 2	Risks of ERP: People risks – Process risks – Technological risks - Implementation issues – Operation and Maintenance issues – Unique risks of ERP projects – Managing Risks.	18
Unit – 3	ERP and Related Technologies : Business process reengineering – business analytics – E-Commerce - M-Commerce – data warehousing – data mining – online analytical processing – intranets and extranets – technological advancements – computer crimes – ERP and security – computer and security – crime and security	18
Unit – 4	Industry 4.0 - Need – Reason for Adopting Industry 4.0 - Definition – Goals and Design Principles - Technologies of Industry 4.0 – Big Data – Artificial Intelligence (AI) – Industrial Internet of Things - Cloud – Augmented Reality	18
Unit – 5	Applications of IoT – Manufacturing – Healthcare – Education – Aerospace and Defense – Agriculture – Transportation and Logistics – Impact of Industry 4.0 on Society: Impact on Business, Government, People. Tools for Artificial Intelligence, Big Data and Data Analytics, Virtual Reality, Augmented Reality, IoT, Robotics	18
	Total Contact Hrs	90

Pedagogy and Assessment Methods:

Seminar, Power Point Presentation, Chalk and talk, Quiz, Assignments, Group Task.

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Alexis Leon	Enterprise Resource Planning	4 th Edition Tata McGraw Hill, Uttar Pradesh.	2020
2.	P. Kaliraj, T. Devi	Higher Education for Industry 4.0 and Transformation to Education 5.0	Auerbach Publications, Bharathiar University	2022

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Sinha P. Magal and Jeffery Word	Essentials of Business Process and Information System	Wiley India.	2009
2	. Vinod Kumar Garg and N.K. Venkatakrishnan	ERP	Concepts and Practice, 2 nd Edition Prentice Hall of India,	20114
3	Alasdair Gilchrist	Industry 4.0 (The Industrial Internet of Things)	Apress Media	2017

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr.M.Shanmugapriya	Dr. P. Archanaa	Prof.K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC621			Course Title	Batch:	2025 - 2028
				CC Lab - VII : JAVA	Semester:	VI
Lecture Hrs./ Week Or Practical Hrs./Week	4	Tutorial Hrs./Sem.	-		Credits:	2

Course Objective

To promote the students Programming Language Skills in the Net Based Business Applications.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding	K1
CO2	Demonstrate the creation of objects, classes and methods and the concepts of constructor, methods overloading, Arrays, branching and looping	K2
CO3	Create data files and Design a page using AWT controls and Mouse Events in Java programming Implement the concepts of code reusability and debugging.	K3
CO4	Develop applications using Strings, Interfaces and Packages and applets	K3
CO5	Construct Java programs using Multithreaded Programming and Exception Handling	K3

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	H	H	H	L	H	H	H	M	M	L	H	M
CO2	H	H	H	L	H	M	H	M	M	L	M	M
CO3	H	H	H	M	H	M	H	L	M	L	M	M
CO4	H	H	H	M	H	M	H	L	H	M	H	M
CO5	H	H	H	M	H	H	H	L	H	M	H	H

Programs	Hours												
1. Write a java program to print the Multiplication Table by getting the input as Command Line Arguments. 2. Write a java program with multiple classes to find the length and breadth of room area. 3. Write a java program to check whether the given number is Prime or not. 4. Write a java program to check whether the given number is Armstrong or not. 5. Write a java program to find the number of digits of a given number. 6. Write a java program to reverse the digits of a given number. 7. Write a java program to calculate the discount on sale of the products A and B with the given price and discount rates. Price of Product A is Rs.100/- per unit Price of Product B is Rs.150/- per unit Discount Rate <table><tr><td>0-100</td><td>--</td><td>5%</td></tr><tr><td>101-200</td><td>5%</td><td>10%</td></tr><tr><td>201-300</td><td>12%</td><td>15%</td></tr><tr><td>Above 300</td><td>20%</td><td>25%</td></tr></table> 8. Create a program using nested for loops statement. 9. Write a java program to get a string and check whether it is a palindrome or not. 10. Develop a java program to get the user's choice to perform the respective string functions from the menu displayed. 11. Write a java program to get the students mark details and printing it in the form of mark sheet using inheritance concept. 12. Develop a simple java program to sort the given numbers. 13. Develop a program using text applets to print whether the given number is odd or even. 14. Draw a face using applets. 15. Using an applet program, design the model of a car. 16. Develop an applet program to add the given numbers	0-100	--	5%	101-200	5%	10%	201-300	12%	15%	Above 300	20%	25%	60
0-100	--	5%											
101-200	5%	10%											
201-300	12%	15%											
Above 300	20%	25%											

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	E. Balagurusamy	Programming with Java - A Primer	Tata Mc Graw Hill Education (India) Private Limited, New Delhi, 5th Edition	2014

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Herbert Schildt	Java: The Complete Reference	Tata McGraw Hill Education, Oracle Press\10th Edition	2018
2	Patrick Naughton & Hebert Schildt	The Complete Reference Java 2	Tata McGraw Hill Education\ 3rd Edition	2014

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. R. Subasangeetha	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K.Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC622			Course Title	Batch:	2025 - 2028
				CC Lab - VIII : Multimedia	Semester:	VI
Lecture Hrs./ Week Or Practical Hrs./Week	5 (1+4)	Tutorial Hrs./Sem.	-		Credits:	2

Course Objective

To promote the students' designing skills in multimedia application

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the application of multimedia concepts	K1
CO2	Point out the effects of picturaization on Photoshop and flash applications	K2
CO3	Implement the multimedia effects in developing applications	K3
CO4	Analyse the tools in flash to generate image, shape and text effects	K4
CO5	Create all application with audio, video and graphical representation practically	K5

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	M	M	L	H	H	L	H	H	H	L
CO2	M	H	H	H	M	M	M	H	H	H	H	M
CO3	M	H	L	H	H	L	H	L	H	H	M	H
CO4	H	H	H	M	H	M	H	M	H	H	M	H
CO5	H	H	M	H	M	H	L	H	H	H	M	M

Content	Hours
Photoshop 1. Reduce Picture Size 2. Replace color in an Image	

	3. Merging of two Images 4. Add a pattern as background 5. Make a simple book cover by using basic functionalities 6. Panning shot of an image 7. Halloween Effect of an image	75
Flash		
	8. Raining Effect 9. Designing a Logo 10. Bouncing ball 11. Drawing and creating text with effects 12. Transforming a shape into another Shape (Circle, Square and Triangle)	
Canva		
	13. Designing of a visiting card 14. Designing an Invitation for an Event	
Total Contact Hrs		
		75

Pedagogy and Assessment Methods

Power point Presentations, Group discussions, Seminar, Quiz, Assignment, Experience Discussion and Case study

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Prabhat K Andleigh, Kiran Thakrar	Multimedia Systems Design	Pearson Education India/ 1 st Edition	2015

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Ze-Nian Li and Mark S. Drew	Fundamentals of Multimedia	Pearson Education	2003
2	Ranjan Parekh	Principles of Multimedia	McGraw Hill Education / 2 nd Edition	2017

3	Udit Agarwal	Computer Graphics and Multimedia	S.K. Kataria & Sons / Reprint 2013 Edition	2013
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Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Dr. P. Archanaa	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6S1			Course Title	Batch:	2025 - 2028
				SEC IV :Interview Readiness	Semester:	VI
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-		Credits:	2

Course Objective

To prepare the students to excel in interviews.

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Keep in mind the basics for preparing for interview	K1
CO2	Understand the concept of Company Research	K2
CO3	Apply the practical knowledge in Verbal and Non-verbal communication	K3
CO4	Analyze the Etiquettes in interviews	K4
CO5	Execute the patterns of Group Discussion	K5

PQ/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	H	M	M	H	M	M	H	M	H
CO2	M	H	M	H	M	H	H	M	M	H	H	H
CO3	H	H	H	H	H	H	H	M	H	H	H	H
CO4	H	H	H	H	M	H	H	H	H	H	H	H
CO5	M	M	M	H	M	M	H	H	M	H	M	H

Unit	Content	Hours
Unit - 1	Introduction to Interviews – Effective Resume	6
Unit - 2	Company Research – Preparation and Self-grooming	6
Unit - 3	Verbal and Non-verbal communication – Strategies of Answering to Interview Questions	6

Unit - 4	Mock Interviews & Phone Interviews - Etiquettes	6
Unit - 5	Group Discussion – Technical Round.	6
	Total Contact Hrs	30

Pedagogy and Assessment Methods:

Power point Presentations, Assignment, Experience Discussion

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Capt. Satabdi Chatterjee	Interview. in : A Complete Interview Manual	Notion Press; 1st edition	2022

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Mr.S.Rajagopalan	Dr. P. Archanaa	Prof. K. Srinivasan	Prof. K. Srinivasan
Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6S2			Course Title	Batch:	2025 - 2028
				SEC IV :Aptitude for Placements	Semester:	VI
Lecture Hrs./ Week Or Practical Hrs./Week	2	Tutorial Hrs./Sem.	-		Credits:	2

Course Objective

To enable the students to refine the mathematical, logical and analytical skills.

Course Outcomes

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

CO Number	CO Statement	Knowledge Level
CO1	To have fundamental knowledge of Mathematics about problems of numbers using Mathematical formulae.	K1
CO2	To understand the concepts of profit & loss related processing, simplification, etc.,	K2
CO3	To apply the formulae to real time problems on probability, Areas of surfaces and apply data visualization tool for any data set.	K3
CO4	To analyze the problems solving related to Age, Time and Distance and Time and Work etc. To examine their employability skills.	K4
CO5	To develop their Competitive skills and improve the decision-making skills. To generate analytical reports and presentations using Data Interpretation.	K5

Mapping

PO /PSO CO	PO1	PO2	PO3	PO4	PO5	PO 6	PO7	PO8	PO 9	PO 10	PSO1	PSO2
CO1	H	M	M	M	L	H	M	M	M	M	M	M
CO2	H	L	H	M	M	M	L	M	M	M	M	M
CO3	H	H	M	M	L	H	H	H	L	H	M	H
CO4	H	M	H	H	H	M	H	H	H	H	L	H
CO5	M	M	L	H	M	H	M	M	M	M	H	M

***H-High; M-Medium; L-Low**

Units	Content	Hrs
Unit I	Numbers-HCF And LCM of Numbers-Decimal Fractions- Comparison of Fractions - Simplification- Square Root and Cube Roots – Average.	6
Unit II	Time and Work - Time and Distance – Mixtures or Allegations - Problems on Numbers - Problems on Ages –Percentage - Profits and Loss.	6
Unit III	Ratio and Proportion - Time and Work - Time and Distance - Simple Interest - Compound Interest - Area-Volume and Surface Area.	6
Unit IV	Permutation and Combination - Probability, Height and Distances - Boats and Streams - Odd Man Out &Series.	6
Unit V	Interpretation: Tabulation, Bar Graphs, Pie Chart, Line Charts.	6
	Total Contact Hrs	30

Pedagogy and Assessment Methods:

Seminar, Quiz, Assignments, Group Task, Direct Instruction, Flipped Class, Digital Presentation

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	R.S. Aggarwal	Quantitative Aptitude for Competitive Examinations	S. Chand & Company Ltd., New Delhi.	2018

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Dinesh Khattar	The Pearson Guide to Quantitative Aptitude for Competitive Examinations	Pearson's Publications, New Delhi. 2 nd Edition	2013
2	Praveen R.V	Quantitative Aptitude and Reasoning	PHI Learning Pvt. Ltd., New Delhi. 3 rd Edition.	2016

3	Rajesh Varma	Fast Track Objective Arithmetic	Arihant Publications India Limited, New Delhi	2018
4	Abhijit Guha	Quantitative Aptitude for Competitive Examinations	McGraw Hill Education (India) Private Limited. 7 th Edition	2020
5	Sarvesh K Verma	Quantitative Aptitude Quantum CAT	Arihant Publications India Limited, New Delhi; Twelve edition	2022

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Signature:	Signature:	Signature:	Signature:

Programme Code:	BCCA			Programme Title	Bachelor of Commerce with Computer Applications	
Course Code:	25UCC6AL			Course Title	Batch :	2025 - 2028
Lecture Hrs./ Week Or Practical Hrs./Week	SS	Tutorial Hrs./ Sem	-	ALC II : Auditing and Corporate Governance	Semester:	VI
					Credits:	2**

Course Objective

To inculcate the students about auditing and corporate governance

Course Outcomes (CO)

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

CO Number	CO Statement	Knowledge Level
CO1	Recall the knowledge of auditing principles, procedures and techniques in accordance with current legal requirements.	K1
CO2	Understand the duties of Auditor	K2
CO3	Deploy about Corporate Governance	K3
CO4	Analyse the audit documentation and audit report as per the companies' act 2013.	K4
CO5	Criticise Business Ethics and Corporate Social Responsibility.	K5

Mapping

PO/PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	M	H	H	M	H	H	L	H	L	M	H	L
CO2	H	H	H	H	L	L	M	H	M	M	L	M
CO3	M	H	M	M	M	M	H	M	M	L	H	H
CO4	H	M	H	M	L	M	M	H	L	H	M	H
CO5	M	H	M	H	M	H	M	M	H	H	L	M

Unit	Content	Hours
Unit – 1	Introduction to Auditing: Definition - Basic Principles of Auditing - Objectives of Auditing - Types of Auditing -. Advantages of Auditing - Audit Planning - Audit Programme- Audit Procedure	
Unit – 2	Concept of Auditing: Audit Notebook - Audit working papers - Internal Control – Internal Check - Distinction between Internal Check and Internal Control - Internal Audit - Vouching - Verification and Valuation of Assets &	

	Liabilities.	
Unit – 3	Audit of Limited Companies: Company Auditor - Qualification - Disqualification – Appointment –Removal – Remuneration - Rights - Duties and Liabilities of Statutory Auditors under the Companies Act 2013 - Audit Report- Types.	
Unit – 4	Corporate Governance: Meaning - Need - Concept - Benefits - Elements - Theories - Models - Broad Committees - Corporate Governance Reforms in India - Factors Influencing Quality of Corporate Governance.	
Unit – 5	Business Ethics: Business Values and Ethics - Approaches and Practices of Business Ethics - Corporate Ethics - Codes of Ethics. Corporate Social Responsibility (CSR): Meaning - Corporate Philanthropy - The Pyramid of CSR - Corporate Governance vs Corporate Social Responsibility - Corporate Social Responsibility (CSR) vs Business Ethics	

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar ,Quiz and Assignment.

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	B.N.Tandon , S.Sudharsanam and S. Sundharabahu	Corporate Governance	A Handbook of Practical Auditing	2018
2	Sharma, J.P	Corporate Governance, Business Ethics and CSR	Ane Books Pvt Ltd, New Delhi.	2016

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Anil Kumar, Lovleen Gupta and Jyotsna Rajan,	Auditing and Corporate Governance	Taxmann's Publications.	2020
2	Biswa Mohana Jena Braja Kishore Das	Auditing And Corporate Governance	First Edition Himalaya Publishing House Pvt. Ltd.,	: 2019

3	D. Geeta Rani and R.K. Mishra	Corporate Governance- Theory and Practice	Excel Books, New Delhi.	2008

Course Designed by	Head of the Department	Curriculum Development Cell	Controller of the Examination
Name and Signature	Name and Signature	Name and Signature	Name and Signature
Ms. M. Gayathri	Dr. P. Archanaa	Prof.K. Srinivasan	Prof.K. Srinivasan
Signature:	Signature:	Signature:	Signature: