

**DEPARTMENT OF B.COM (CA)** 

## CHOICE BASED CREDIT SYSTEM (CBCS) & LEARNING OUTCOMES- BASED CURRICULAR FRAMEWORK (LOCF)

## **BACHELOR OF COMMERCE WITH COMPUTER APPLICATIONS**

2024 – 2027 BATCH



#### DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS CHOICE BASED CREDIT SYSTEM (CBSCS) & LEARNING OUTCOMES BASED CURRICULAR FRAMEWORK (LOCF)

## BACHELOR OF COMMERCE WITH COMPUTER APPLICATIONS-2024 -2027 BATCH ONWARDS

Sem	Part	t Course Title of the Course		Course Type	Instruction hours/week	Contact hours	Tutorial	Duration of Examination	Examination	Marks		Credits
								n	CA	ESE	TOTAL	
	Ι	TAM2301A/ HIN2301A/ FRE2301A	Tamil Paper I/ Hindi Paper I/ French Paper I	L	4	58	2	3	25	75	100	3
	II	ENG2301A	English Paper I	Е	4	58	2	3	25	75	100	3
	III	CM23C01	Principles of Accounting	CC	5	73	2	3	25	75	100	3
Ι	III	BP24C02	e-business Applications	CC	6	88	2	3	25	75	100	4
	III	TH24A07	Mathematics for Commerce	GE	5	73	2	3	25	75	100	4
	III	BP24CP1	Financial Forecasting and Analytics Practical	CC	4	60	-	3	15	35	50*	2
			N	on Tamil S	Student	ts	I					
	IV	NME23B1 / NME23A1	Basic Tamil I/ Advanced Tamil I	AEC	2	28	2	-	100	-	100	2
		Students with Tamil as Language						-				
		NME23ES	Entrepreneurship	AEC	2	30	-	-	100	-	100	
I-V	VI	24BONL1 24BONL2 24BONL3	Online Course I Online Course II Online Course III	ACC	-	-	-	-	-	-	-	
	Ι	TAM2302A/ HIN2302A/ FRE2302A	Tamil Paper II/ Hindi Paper II/ French Paper II	L	4	58	2	3	25	75	100	3
	II	ENG2302A	English Paper II	Е	4	58	2	3	25	75	100	3
	III	BP24C03	Object Oriented Programming with C++	CC	6	88	2	3	25	75	100	4

	III CM23C04 Financial Accounting		CC	5	73	2	3	25	75	100	3	
	III	TH24A16	Statistics for Commerce	GE	5	73	2	3	25	75	100	4
II	III	BP24CP2	Programming with C++ Practical	CC	4	60	-	3	15**	35**	50	2
	IV.	NM24UHR	Universal Human values and Human Rights	AECC	2	30	-	-	100	-	100	2
	IV	*NME23B2 NME23A2	Basic Tamil II/ Advanced Tamil II	AEC	-	-	-	-	100	-	100	Gr
	VI	NM23GAW	M23GAW General Awareness		SS	-	-	-	100	-	100	Gr
	VI	COM15SER	Community Service 30Hours	GC	_	_	-	-	-	-	-	-
I-V	VI	24BONL1 24BONL2 24BONL3	Online Course 1 Online Course 2 Online Course 3	ACC	-	-	-	-	-	-	_	-

L-Language

CC – Core Courses

**GE – Generic Elective** 

E-English

CA – Continuous Assessment

ESE-End Semester Examination

AEC – Ability Enhancement Course

GC - General Course

ACC – Additional Credit Course AECC-Ability Enhancement Compulsory Courses

SS – Self study

\*\*CA conducted for 25 and converted into 15, ESE conducted for 75 and converted into 35

\* After class hours

## **Examination System**

One test for continuous assessment will be conducted on pre-determined dates i.e., commencing on the 50<sup>th</sup> day from the date of reopening. The Model exam will be conducted after completing 85<sup>th</sup> working days. Marks for ESE and CA with reference to the maximum forthe courses will be as follows

## 23-24 Batch onwards

## CA Question Paper Pattern and distribution of marks UGLanguage and English

Section A	5 x 1 (No choice)	:	5 Marks
Section B	4 x 5 (4 out of 6)	:	20 Marks (250 words)
Section C	2 x 10 (2 out of 3)	:	20 Marks (500 words)

Total : 45

## Marks UG- Core and Allied - (First 3 Units)

## CA Question from each unit comprising of

One question with a weightage of 2 Marks  $: 2 \times 3 = 6$ 

One question with a weightage of 5 Marks

(Internal Choice at the same CLO level)  $: 5 \times 3 = 15$ 

One question with a weightage of 8 Marks

(Internal Choice at the same CLO level)  $: 8 \times 3 = 24$ 

## **Total: 45 Marks**

## <u>End Semester Examination – Question Paper Pattern and Distribution of MarksLanguage and</u> <u>English – UG</u>

	Total	:	75 Marks
Section C	4 x 10 (4 out of 6)	:	40 Marks (600 - 700 words)
Section B	5 x 5 (5 out of 7)	:	25 Marks (250 words)
Section A	10 x 1 (10 out of 12)	:	10 Marks

## <u>UG - Core and Allied courses:</u> <u>ESE Question Paper Pattern:</u> 5 x 15 = 75 Marks

## Question from each unit comprising of

One question with a weightage of 2 Marks:  $2 \times 5=10$ 

One question with a weightage of 5 Marks (Internal Choice at the same CLO level)  $: 5 \ge 5 = 25$ 

One question with a weightage of 8 Marks (Internal Choice at the same CLO level)  $: 8 \ge 5 = 40$ 

## ESE Question Paper Pattern :( for Accounts Paper) 5 x 15 = 75 Marks

## Question from each unit comprising of

One question with a weightage of 2 Marks : 2 x 5=10

One question with a weightage of 5 Marks:  $5 \times 5 = 25$ 

One question with a weightage of 8 Marks (Internal Choice at the same CLO level)  $: 8 \ge 5 = 40$ 

## **Continuous Internal Assessment Pattern Theory**

## I Year UG (24 Batch)

CIA Test	:	5 marks (conducted for 45 marks after 50 days)
Model Exam	:	7 marks (Conducted for 75 marks after 85 days (Each Unit 15 Marks))
Seminar/Assignment/Quiz	:	5 marksClass
Participation	:	5 marks
Attendance	:	3 marks
Total	:	25 Marks

## Part IV

## Introduction to Entrepreneurship / Universal Human values and Human Rights

Total	:	100 Marks
Project / Case study	:	25 marks
Assignment	:	25marks
Quiz	:	50 marks

## MAPPING OF PLOs WITH CLOs

COURSE	PROGRAMME LEARNING OUTCOMES										
LEARNING OUTCOMES	PLO1	PLO2	PLO3	PLO4	PLO5						
	COURSE – CM23C01										
CLO1	S	М	S	М	S						
CLO2	S	М	S	М	М						
CLO3	S	М	М	М	М						
CLO4	S	М	S	М	S						
COURSE – BP24C02											
CLOs	PLO1	PLO2	PLO3	PLO4	PLO5						
CLO1	S	S	S	S	М						
CLO2	S	S	S	S	S						
CLO3	S	М	S	S	М						
CLO4	S	S	М	S	М						
		COURSE	–BP24CP1								
CLOs	PLO1	PLO2	PLO3	PLO4	PLO5						
CLO1	S	S	S	S	М						
CLO2	S	S	М	S	М						
CLO3	S	S	S	S	М						
CLO4	М	S	М	М	М						
		COURSE	– BP24C03								
CLOs	PLO1	PLO2	PLO3	PLO4	PLO5						
CLO1	S	S	М	S	S						
CLO2	М	S	S	М	S						
CLO3	S	М	S	М	S						
CLO4	S	S	М	L	L						

COURSE – CM23C04									
CLO1	S	S	М	М	S				
CLO2	S	S	М	М	S				
CLO3	S	S	S	S	М				
CLO4	S	S	S	S	М				
	-	COURSE	C –BP24CP2						
CLO1	S	S	М	М	М				
CLO2	S	М	S	М	М				
CLO3	S	М	М	S	L				
CLO4	М	S	М	S	L				

COURSE CODE	COURSE NAME	CATEGORY	L	Т	Р	CREDIT
CM23C01	PRINCIPLES OF ACCOUNTING	THEORY	73	2	-	3

## Preamble

To enable the students to apply the conceptual principles and to develop an expertise in handling accounts of business entities and the consolidation of accounts through appropriate accounting techniques and policies.

## Prerequisite

• Basic Knowledge in Financial Statements

## **Course Learning Outcomes**

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

CLO Number	CLO Statement	Knowledge Level
CLO1	Define the concepts and conventions in accounting.	K1
CLO2	Interpret accounting statement using basic concepts.	K2
CLO3	Apply the procedures of recording transactions and preparation of Reports.	К3
CLO4	Articulate the accounting concepts to interpret the performance of a Firm.	K4

## Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	М	S	М	S
CLO2	S	М	S	М	М
CLO3	S	М	М	М	М
CLO4	S	М	S	М	S

S-Strong; M-Medium;

## PRINCIPLES OF ACCOUNTING-CM23C01 (73 Hrs)

Unit I Basic Accounting (AS-1)-Rectification Concepts of errors-Final Accounts Bank Reconciliation Statement.

Average due date-Bills of exchange (trade bills only) –Joint Venture (AS-27).

## Unit III

Unit II

Departmental Accounts-Basis for allocation of expenses .Branch Accounts (Dependent Branches -Debtors and Stock & Debtors System - Independent Branches only).

## **Unit IV**

Hire purchase Accounts: Default and Repossession- Hire purchase Trading Account-Installment purchase system.

## Unit V

Depreciation (excluding change in method of depreciation) - Investment Account (AS-13).

## **Text Book**

S. No	Authors	Title	Publishers	Year of Publication
1.	Reddy TS &A Murthy	Financial Accounting	Margham Publications	Reprint 2021, 7 <sup>th</sup> Edition

## **Reference Books**

S. No	Authors	Title	Publishers	Year of Publication
1.	R L Gupta & Radhasamy	Advanced Accountancy( VolI)	Sultan Chand &Sons.	2018, 13 <sup>th</sup> Edition
2.	Jain S.P & Narang K.L	Principles of Accountancy	Kalyani Publishers	2018, 7 <sup>th</sup> Edition.
3.	MC Shukla, T.S. Grewal &S.C. Gupta	Advanced Accountancy	S. Chand &sons	2016, 19 <sup>th</sup> Edition.

## **Syllabus**

## (14 Hrs)

(14 Hrs)

(15Hrs)

(15 Hrs)

(15Hrs)

## **Skill Components**

- Identifying concepts and conventions adopted by a firm in their financial statement.
- Prepare a Bank Reconciliation Statement for the business concern.
- Study a firm's financial statement and present a report on the accounting policies followed.
- To calculate the due date and amount on discounting of bills for a firm.
- Analyzing the financial statement of a hire purchase company and present a report on the collection system.
- Analyse the treatment of depreciation for different firms.

## Pedagogy

Lecture through power point presentations, Discussion, Assignment, Quiz, and Seminar

## **Course Designers**

- 1. Dr. S. Sujatha, Department of Commerce
- 2. Dr. G. Indrani, Department of Commerce

COURSE CODE	COURSE NAME	CATEGORY	L	Т	Р	CREDIT
BP24C02	e-BUSINESS APPLICATIONS	THEORY	88	2	-	4

## Preamble

To enable the students

- > To understand about the fundamentals of computers and programming languages
- > To provide in-depth understanding about Computer based Information system
- > To impart knowledge about E-Commerce working models

## Prerequisite

➢ Basic Knowledge in E-commerce

## **Course Learning Outcomes**

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

CLO Number	CLO Statement	Knowledge Level
CLO1	Understand the computing concepts and computer applications in business with security policies.	K1
CLO2	Associating data processing, network programming and multimedia tools application with the business.	К2
CLO3	Develop and interpret the technical framework required for an e- Business, E-commerce in Internet, Ethics in E-commerce.	К3
CLO4	Analyzing computer characteristics in business and evaluating multimedia tools' significance within a business context.	K4

#### Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	М
CLO2	S	S	S	S	S
CLO3	S	М	S	S	М
CLO4	S	S	М	S	М

S-Strong; M-Medium;

#### e-BUSINESS APPLICATIONS - BP24C02 (88 Hrs)

## **Syllabus**

#### UNIT – I

Computer- Characteristics- Importance – \*Computer applications in various areas of Business - General applications of computers in various fields\*. Data and Information -- Data processing -\*Steps of data processing\*. Data structure – File Organisation and Maintenance – Programming Language – Machine language, Assembly language, High Level Languages – Programming tools- Steps in developing a computer Program – Computer networks- Features-Network Structure-\*Types of networks\*-\*Multimedia tools\*

#### UNIT – II

## Introduction to E-Commerce-Defining E-Commerce-Features, Importance, Objectives of E-Commerce-E-Commerce industry framework-\*Types of E-Commerce-Levels\*- Need for E-Commerce-Applications of E-Commerce-\*Challenges in E-Commerce application\*-E-Commerce and E-Business-\*Future of E-Commerce\* - E- Service: E – Service technologies – E- Commerce Opportunities in India. EDI- Features of EDI- Introduction to cloud and grid computing-Android applications. *E-tailing*: Traditional retailing and e retailing, Benefits of e retailing, \**Models of* e-retailing, Features of e-retailing\*

#### UNIT – III

## over the Internet-Concept of networking-Advantages of networking-\*classification of E-commerce networking\*. Electronic payment methods-overview of EPS-\*modes of E-payment\*. Ethics in E-Commerce Issues in E Commerce Understanding Ethical, Social and Political issues in E-Commerce: A model for Organizing the issues, \*Basic Ethical Concepts, Analyzing Ethical Dilemmas\*, Candidate Ethical principles Privacy and Information Rights: \*Information collected at E-Commerce Websites\* - E – Commerce Process and Payment Solutions.

## (17 Hrs)

(18 Hrs)

(18 Hrs)

#### (18 Hrs)

*E-Banking*: Introduction Concepts and Meaning-Need for computerization-Electronic delivery channels-Automated teller machine - \**Electronic Fund Transfer –Uses*\*-Computerization in clearing houses-Tele banking- Computer bank branches-\**E-Cheque-MICR Cheque*\*-e-*Banking* in India. Threats in Computer System: Virus, Cybercrime Network Security: Encryption, Protecting Web server with firewall, \**Firewall and Security policy*\*, Network firewalls and Application Firewalls, \**Proxy Server*\*. E –Locking Technique – E – Locking Products – E – Locking Services.

## $\mathbf{UNIT} - \mathbf{V}$

## (17 Hrs)

E- Business Communication – Importance of E – Technology. SSL protocol – Legal Aspects of E-Business, Internet frauds – Cyber Laws. Introduction to Industry 4.0 - \**Need – Reasons for Adopting Industry 4.0*\* - Definition – Goals and Design Principles – Technologies of Industry 4.0-Skills required for Industry 4.0- \**Advancements in Industry 4.0*\* – Impact of Industry 4.0 on Society, Business, Government and People - \**Introduction to 5.0*.\*

\* Highlighted Content offered in Blended Mode

## **Text Book**

S.No	Author Name	Title of the Book	Publisher	Year and Edition
1	R. Saravana Kumar, R. Parameswaran T. Jayalakshmi(unitI)	A text book of Information Technology	S. Chand & Co ltd New Delhi	16 <sup>th</sup> Edition 2016.
2	Rayudu C.S (unit II- IV)	E Commerce – E- Business	Himalaya Publishing House.	1 <sup>st</sup> Edition 2015.
3	Kenneth C. Laudon and Carol Guercio Traver(Unit V)	E-Commerce 2022	Pearson Publications	1 <sup>st</sup> Edition 2022.

**Reference Books** 

S.No	Author Name	Title of the Book	Publisher	Year and edition
1	Joseph PT,	E Commerce, an Indian Perspective	Margham Publications	5 <sup>th</sup> Edition 2015
2	Murthy CSV	E Commerce – Concepts, Models, Strategies	Himalaya Publishing House.	1 <sup>st</sup> Edition 2016

## Pedagogy

> Lecture, Assignment, Group Discussion, PowerPoint Presentation and Seminar.

## **Course Designer**

- 1. Dr. S. Nithya Sumathi
- 2. Mrs. L. Mahalakshmi

COURSE CODE	COURSE NAME	CATEGORY	L	Т	Р	CREDIT
BP24CP1	FINANCIAL FORECASTING AND ANALYTICS PRACTICAL	PRACTICAL	-	-	60	2

## Preamble

## To enable the students

- To adopt new tools and techniques in financial analysis using spreadsheets
- To use financial analysis tools in Libre Office Calc to support decision-making processes and solve complex financial problems.

## **Course Learning Outcomes**

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

CLO Number	CLO Statement	Knowledge Level
CLO1	Understanding spread sheet fundaments using Libre Office Calc	K1
CLO2	Organise and summarisation of financial data.	K2
CLO3	Extract the relevant financial statements and make the financial decisions	К3
CLO4	Develop skills in building financial models to analyse and evaluate business decisions.	K4

## **Mapping with Programme Learning Outcomes**

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	М
CLO2	S	S	М	S	М
CLO3	S	S	S	S	М
CLO4	М	S	М	М	М

## S-Strong; M-Medium;

## FINANCIAL FORECASTING AND ANALYTICS -BP24CP1 (60 Hrs)

1. Calculation of present and future values (NPV and IRR) for Investment Analysis.

- 2. Calculation of Depreciation using Straight line and diminishing balance method.
- 3. Preparation of Loan amortization Table.
- 4. Integrating Data Validation using VLOOKUP and HLOOKUP
- 5. Organising, summarizing and Data manipulation through pivot table.
- 6. Financial Analysis using Sensitivity Analysis and What-If Analysis

- 7. Calculation of Break-Even Analysis using Goal Seek.
- 8. Preparation of Gantt chart to monitor project progress and proritise activities
- 9. Developing three Statement Financial Model- Income Statement, Balance sheet and Cash Flow Statement
- 10. Horizontal and vertical Analysis of financial data of the company
- 11. Preparation of financial projection template of the business.
- 12. Forecasting Model-Straight line, Moving Average and Linear regression model.
- 13. Preparation of merger and acquisition model (M&A) Model.
- 14. Preparation of Discounted Cash Flow Analysis (DCF) Model.
- 15. Preparation of comparable company analysis (CCA) model

#### Pedagogy

Lecture, Demo in System

## **Course Designer**

- 1. Dr. R. Jayasathya
- 2. Dr. C. Esakkiammal

COURSE CODE	COURSE NAME	CATEGORY	L	Т	Р	CREDIT
NME23ES	INTRODUCTION TO ENTREPRENEURSHIP	THEORY	30	-	-	2
Unit 1	(6hrs)					

## Unit 1

## **Introduction:**

Entrepreneurship-Introduction-Factors-Barriers-Entrepreneurial Traits and Types- Steps for starting a Small Industry- MSMEs – Social entrepreneurship.

## Unit 2

Entrepreneurship Development Programmes-Institutional Framework (IFCI, ICICI, IDBI, IRBI, EXIM Bank, NSIC, SIDBI, SFC, SIPCOT AND TIIC) - Role of Incentives and Subsidies

#### Unit 3

Innovation - Types - Role- Creative Problem Solving - Incubators - Angel Investors - Venture Capital.

## Unit 4

Intellectual Property- Meaning- Copy Right Registration- Patents- Trademark- Design and Procedure for registration.

#### (6hrs)

## (6hrs)

## (6hrs)

## Unit 5

## (6hrs)

## **Project Preparation**

Project identification and Classification - Project Formulation- Project Appraisal- Project Report Presentation

## **Text Books**

Sl. No.	Author(s)	Title of the Book	Publisher	Year of Publication
1.	Gupta. C.B and Srinivasan.N. P	Entrepreneurial Development	Sultan Chand and Sons	2020
2	Sauhari Vinnie and Bhushan Sudhashu	Innovation Management	Oxford	2014

## **Reference Books**

Sl. No.	Author(s)	Title of the Book	Publisher	Year of Publication
1.	KolbBonitaM	Entrepreneurship for the creative and cultural industries	Routedge	2015
2.	P.T.Vijayashree & M.Alagammai	Entrepreneurship and Small Business Management	Margham	2020

COURSE CODE	COURSE TITLE	CATEGORY	L	Т	Р	CREDIT
BP24C03	OBJECT ORIENTED PROGRAMMING WITH C++	THEORY	88	2	-	4

## Preamble

The course provides an introduction to object-oriented programming using C++ language. It enables the students to apply C++ features in program design and implementation.

## Prerequisite

• Basic Computer Skills, Basic Math Skills

## **Course Learning Outcomes**

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

CLOs	CLO Statement	Knowledge Level
CLO1	Define key concepts and principles of OOP's, C++ syntax, and file handling.	K1
CLO2	Associating the significance and functionality of OOP features and C++ constructs.	K2

CLO3	Use OOP's, C++ features, and file management techniques for developing a program	K3
CLO4	Evaluate and compare programming paradigms, inheritance types, and runtime features.	K4

#### **Mapping with Programme Learning Outcomes**

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	М	S	S
CLO2	М	S	S	М	S
CLO3	S	М	S	М	S
CLO4	S	S	М	L	L

S- Strong; M-Medium; L – Low

## **OBJECT ORIENTED PROGRAMMING WITH C++ - BP24C03 (88 Hrs)**

## UNIT I

## Object Oriented Programming: A New Paradigm – Evaluation of Programming Paradigm-Principles of Object Oriented Programming: **\*Benefits of OOPs** – **Applications of OOPs\*** – Beginning with C++:Structure of C++ program. Basic and user defined data types, Objects – **Data members and member functions** – private and public access specifiers - Static members -**Constructors – Destructors.**

## UNIT II

## C++ statements – operators in C++ Scope Resolution Operator\* –Functions in C++: The Main Functions – Function Prototyping – Friend Functions and Friend Classes - Array of objects – Pointer to objects - this pointer Function Overloading: Overloading a function - Default arguments – Operator Overloading: Overloading an operator as a member function – Overloading an operator as a friend function.

## **UNIT III**

Inheritance: Defining derived classes – Single Inheritance – **\*Multilevel Inheritance \*** Multiple Inheritance – **\*Hierarchical Inheritance\*** – Hybrid Inheritance .Run-time Polymorphism: **Virtual Functions** 

## UNIT IV

Polymorphism: **\*Virtual Base Classes \***– Abstract classes –**\*Constructors in Derived Classes\*.** Function overriding - Pure virtual function –Templates: **Function templates** – **Overloading a function template** – Class templates. Exception Handling: Exceptions – try, catch,

## (18 Hours)

## (17 Hours)

# (**17 Hours**)

## (18 Hours)

throw – Rethrowing an exception – Restricting exceptions - Handling exceptions in derived classes.

## UNIT V

## (18 Hours)

Managing Console I/O Operations: C++ streams – \*C++ stream classes\* – Unformatted I/O operations – \*Formatted console I/O operations\* – Managing output with manipulators. Working with files: Classes for file stream operations – \*opening and closing a file\*– Detecting End – of - File – sequential I/O operations–\*Error handling during file operations\* - implementation. Binary search algorithm and implementation.

## \* Highlighted Content offered in Blended Mode

#### **Text Books**

S.No	Author	Title of the Book	Publisher	Year of Publication & Edition
1	E. Balagurusamy	Object Oriented Programming with C++	Tata McGraw Hill Publications.	2013 and 6 <sup>th</sup> Edn.

**Reference Books** 

S.No	Author	Title of the Book	Publisher	Year of Publication & Edition
1	Bjarne Stroustrup	The C++ Programming Language	Pearson Education.	2014 and 4 <sup>th</sup> Edn.
2	Rajesh K. Shukla	Object Oriented Programming in C++	Wilsey India Pvt.Ltd.,	2008 and 1 <sup>st,</sup> Edn.
3	Robert Lafore	Object Oriented Programming in C++	Galgotia Publications, Pvt Ltd.,	2001 and 4 <sup>th</sup> Edn.
4	Tony Gaddis, Judy Walfers, Godfery Muganda	Starting Out with C++: Early Objects	Addison-Wesley Publication.	2013 and 8th Edn.

## Pedagogy

Lecture through power point presentations, Discussion, Assignment, Quiz, and Seminar

## **Blended Link**

Ble	naea Link		
	UNIT	TOPIC	<b>REFERENCE LINK</b>
		Benefits of OOPs	https://emeritus.org/in/learn/benefits-of-object-
			oriented-programming/
	I	Applications of OOPs	https://www.quickstart.com/software-
			engineering/10-applications-of-object-oriented-
			programming/
		Data members and member	https://www.includehelp.com/cpp-tutorial/data-
		functions	members-and-member-functions.aspx
		Constructors – Destructors	https://www.geeksforgeeks.org/difference-between-
			<u>constructor-and-destructor-in-c/</u>

	Scope Resolution Operator	https://www.geeksforgeeks.org/scope-resolution- operator-in-c/
т	Friend Functions and Friend Classes	https://www.geeksforgeeks.org/friend-class- function-cpp/
11	Function Overloading: Overloading a function	https://www.geeksforgeeks.org/function- overloading-c/
	Pointer to objects	https://www.javatpoint.com/pointer-to-an-object- in-cpp
III	Multilevel Inheritance	https://www.geeksforgeeks.org/cpp-multilevel- inheritance/ https://www.youtube.com/watch?v=BLb6-ZgxqHg
	Hierarchical Inheritance	https://www.youtube.com/watch?v=UYxJBJQZU-I
	Virtual Functions	https://www.geeksforgeeks.org/virtual-function- cpp/
	Virtual Base Classes	https://www.geeksforgeeks.org/virtual-base-class- in-c/
IV	Constructors in Derived Classes	https://www.geeksforgeeks.org/order-constructor- destructor-call-c/
	Function templates	https://www.geeksforgeeks.org/templates-cpp/
	Overloading a function template	https://www.ibm.com/docs/en/zos/2.4.0?topic=only- overloading-function-templates-c
V	Handling exceptions in derived classes	https://prepinsta.com/c-plus-plus/catching-base- and-derived-classes-as-exceptions/
	C++ stream classes	https://www.geeksforgeeks.org/c-stream-classes- structure/
	Formatted console I/O operations	https://www.geeksforgeeks.org/formatted-i-o-in-c/
	Opening and closing a file	https://www.geeksforgeeks.org/how-to-open-and- close-file-in-cpp/
	Detecting End – of - File	https://www.geeksforgeeks.org/ios-eof-function-in- c-with-examples/
	Error handling during file operations	http://www.btechsmartclass.com/cpp- programming/CPP-error-handling-during-file- operations.php#google_vignette

## **Course Designers**

1.Dr. A. Meenakshi 2.Mrs. A. Sasikala

COURSE CODE	COURSE TITLE	CATEGORY	L	Т	Р	CREDIT
CM23C04	FINANCIAL ACCOUNTING	THEORY	73	2	-	3

## Preamble

AS

- > To enable the students to apply the conceptual principles in financial Accounting
- > To develop an expertise in handling the accounts and thereby to increase their level of understanding about the financial statements relating to partnership firms, insurance claims & insolvency.
- > To enhance knowledge in partnership, insurance and insolvency accounting

## Prerequisite

Basic Knowledge in accountancy

## **Course Learning Outcomes**

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

CLOs	CLO Statement	Knowledge
		Level
		17.1
CLOI	Define the concepts of Partnership Firms, Fire Insurance Claims and	KI
	Insolvency Accounts	
CLO2	Describe the accounting treatment of Partnership Firms, Fire Insurance	K2
	Claims and Insolvency Accounts	
CLO3	Apply the procedures related to partnership firms, calculation of insurance	K3
	claims and Insolvency Accounts	
	channs and misorveney recounts	
CLO4	Analyze and prepare financial accounts for partnership firms in different	K4
		127
	situations, insurance claims and insolvency Accounts	

## Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	М	М	S
CLO2	S	S	М	М	S
CLO3	S	S	S	S	М
CLO4	S	S	S	S	М

S- Strong; M-Medium

Unit I

Unit II

Unit III

Unit IV

## FINANCIAL ACCOUNTING - CM23C04 -73 HOURS

Partnership Accounts: Division of Profits – Fixed & Fluctuating Capital – Past Adjustments – Guarantee of Profits – Admission of a partner - Limited Liability Partnership: Introduction- Definition - LLP Act 2008 - Features - Advantages and Disadvantages (Theory Only)

Retirement of a Partner: Retirement Cum Admission -Death of a partner- Joint Life Policy -Accounting Treatment

Dissolution of a Firm: Insolvency- Rule in Garner Vs Murray - Piece -Meal Distribution.(Maximum Loss Method only).Sale of Partnership to a Limited Company.

Fire Insurance Claims: Computation of Claim for Loss of Stock and loss of profit (excluding normal & abnormal loss)

Insolvency Accounts: Relevant Act- Statement of Affairs - Deficiency Accounts - The Insolvency & Bankruptcy code 2016

S. No	Authors	Title	Publishers	Year of Publication & Edition
1.	Reddy T S & A Murthy	Financial Accounting	Margham Publications	Reprint 2023

## **Reference Books**

S.	Auhors	rs Title		Year of
No				Publication
				& Edition
1.	RL Gupta &Radhasamy	Advanced Accountancy	Sultan Chand &	2018, &
		(Vol I)	Sons.	13 <sup>th</sup> Edition
2.	Jain S.P &Narang K.L	Principles of Accountancy	Kalyani Publishers	$2018 \& 12^{\text{th}}$
				Edition
3.	MC Shukla, T.S. Grewal	Advanced Accountancy	S. Chand & sons	2019 & 13 <sup>th</sup>
	& S.C. Gupta			Edition

## Unit V

## (15Hrs)

## (14Hrs)

(14Hrs)

(15Hrs)

# (15Hrs)

## Skill Component

- Working on practical aspects of admission and retirement with partners' capital
- Preparation of partnership deed with important terms and conditions
- Preparation of deficiency statement for a real time partnership firm
- Calculation of Insurance claims for real time losses
- Case study analysis on Insolvency and Bankruptcy code

## Pedagogy

Lecture, PPT, Assignment, Seminar, Group Discussion, Activity based Learning

## **Course Designers:**

- > Dr. S. Sujatha, Department of Commerce
- > Dr. L. Nithya, Department of Commerce

COURSE CODE	COURSE TITLE	CATEGORY	L	Т	Р	CREDIT
BP24CP2	PROGRAMMING WITH C++ PRACTICAL	PRACTICAL	-	-	60	2

## Preamble

To enable the students to enhance practical knowledge in C++ Programming.

## **Course Learning Outcomes**

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

CLO Number	CLO STATEMENT	Knowledge Level
CLO1	Defining basic programming concepts of c++ which includes arithmetic operations, decision-making, and file handling.	K1
CLO2	Interpreting the principles of object-oriented programming, inheritance, operator overloading, and exception handling.	K2
CLO3	Use control structures, arrays, classes, inheritance, and file operations to solve problems.	К3
CLO4	Evaluate the functionality and efficiency of programs using advanced features of C++.	K4

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	М	М	М
CLO2	S	М	S	М	М
CLO3	S	М	М	S	L
CLO4	М	S	М	S	L

S- Strong; M-Medium; L – Low

## PROGRAMMING WITH C++ PRACTICAL - BP24CP2 (60 Hrs)

## **Syllabus**

- 1. Develop a C++ program to perform addition of two numbers.
- 2. Create a C++ program to determine whether a given number is even or odd.
- 3. Implement a C++ program that exchanges (Swap) the values of two numbers.
- 4. Craft a C++ program to identify the largest number among three input values.
- 5. Construct a C++ program to verify the given number is prime or not.
- 6. Design a C++ program to compute the result of raising a number to a specified power.
- 7. Formulate a C++ program to determine the average of elements within an array.
- 8. Design a C++ program to check if a word is palindrome or not.
- 9. Design a class representing a "Student" with attributes like name, roll number, and age.Include member functions to set and display the student information.
- 10. Construct a program using classes and objects with single inheritance.
- 11. Write a C++ program to implement the Unary Operator Overloading.
- 12. Develop a program utilizing constructors and destructors in C++.
- 13. Write a program to implement Pure Virtual Functions
- 14. Write a C++ program that reads and prints the content of a text file.
- 15. Create a program that attempts to open a file. If the file is not found, throw an exception, and display an appropriate error message.

## Pedagogy

Lecture, Demo in System

## **Course Designers**

- 1. Dr. A. Meenakshi
- 2. Mrs. A. Sasikala

COURSE NUMBER	COURSE TITLE	CATEGORY	L	Т	Р	CREDIT
NM24UHR	UNIVERSAL HUMAN VALUES AND HUMAN RIGHTS	AEC	30	-	-	2

This course aims at making learners conscious about universal human values in an integral manner, without ignoring other aspects that are needed for learner's survival at hard ships and personality development.

**Objectives:** The present course deals with meaning, purpose, and relevance of universal human values and how to inculcate and practice them consciously to be a good human being and realise one's potentials.

## **Unit I: Introduction to value Education:**

Education system in India, value erosion at various levels-personal, family, society, nationalandinternational, Values-conceptandneed, Typesofvalues-personal, family and society, importance of value education, Incorporating Universal Human Values in Higher Education.

## Unit II: Introduction to Universal Values

**Introduction to Universal Values:** Introduction, needs and basic understanding .Universal Values-Love, truth, nonviolence, peace and righteousness.

Love: Need of Love, Cultivating Love, Value aspects of Love.

**Peace:** Approaches to peace, Conflict–prevention and resolution, Fostering Culture of Peace in the Classroom.

Truth: Universal truth, Importance of Truth, Benefits of Truthfulness.

**Nonviolence:** Need, Gandhian Principles of Non-violence, Nonviolence-Its application in handling today's conflict, Six Guidelines to Carryout Nonviolent Action, ways to promote principles of non-violence.

**Righteousness (Dharma):** Meaning, functioning of Dharma, Characteristics of Dharma, Dharma of a Student, Practicing Dharma in daily life.

## Unit III : Promoting Universal Human Values6 Hours

**Harmony in the Human Being:** Understanding the Human Being as Co-existence of Self ('I') and Body, Discriminating between the Needs of theSelfandtheBody,TheBodyasanInstrumentof'I',UnderstandHarmonyintheSelf('I'),Harmonyo ftheSelf('I')withtheBody.

## 6 Hours

**5** Hours

**Harmony in the Family and Society:** Harmony in the Family – the Basic Unit of Human Interaction ,Values in Human – to – Human Relationships, 'Trust'–the Foundational Value in Relationships, 'Respect' – as the Right Evaluation, Understand Harmony in the Society.

**Harmony in the Nature (Existence):** Understand Harmony in the Nature, Inter connectedness, Self-regulation and Mutual Fulfillment among the Four Orders of Nature, Realizing 'Existence is Co-existence' at All Levels, The Holistic Perception of Harmony in Existence

## **Unit IV Holistic Well-Being**

Influence of universal human values on holistic wellbeing – Definition of well-being(state of being comfortable, healthy ,happy and equanimity) – Types of Well Being: Hedonic(Subjective)and Eudaimonic(Psychological) – 8PillarsofHolisticWellness-(Physical,Emotional,Social,Spiritual,Intellectual,Occupational,Finanical,Environment)– Resilience:MeaninganddefinitionofResilience-Learningfromsetbacks,well-beingandresilience.

## Unit V: Indian Constitutional Values 6 Hours

**Human Rights**: Meaning, characteristics of human rights, Human Rights and UNO, UDHR-Universal Declaration of Human Rights, Indian Constitution-Preamble, Fundamentals of Rights, fundamental duties, Right to Information Act (RTI), National Human Rights Commission (NHRC), State Human Rights Commission, TamilNadu.

## **REFERENCES:**

- Choudhary, T., & Madnawat, A. (2017). Spirituality and compassionateloveinpsychiatristsandpsychiatricsocialworkers. *Indian Journal of Positi* vePsychology, 8(1), 79. Fisher, J. (2011).
- Narayan, R.S., A Text Book on Professional Ethics and Human Values, New Age International Publishers, New Age International(P) Ltd, New Delhi, 2006.
- Norman, R., the Moral Philosophy An Introduction to Ethics, Oxford University Press, Oxford, 1 998.
- Nicotera, N., & Laser-Maira, J.A. (2017). Innovative Skillsto Support Well-Being and Resiliency in Youth. OxfordUniversityPress.
- Pradeep Kumar, Raman Charla, Human Values & Professional Ethics, Paramount Publishing House, Hyderabad, 2013.
- Susairathinam, A.A. (2020). Lived experiences of separated women in Tamil Nadu, India: Psychological well-being. *Indian Journal of Positive Psychology*, 11(2), 93–104.

## Activities:

Quiz- At the end of each sessionAssignment- After completion of each unit

Project Submission

## 7 Hours