



PSGR
Krishnammal College for Women



DEPARTMENT OF BCOM (e-COMMERCE)

**CHOICE BASED CREDIT SYSTEM &
OUTCOME BASED EDUCATION SYLLABUS**

BACHELOR OF COMMERCE WITH e-COMMERCE

2023 – 2026 BATCH

(I SEMESTER)



Autonomous and Affiliated to Bharathiar University
Reaccredited with A++ grade by NAAC, An ISO 9001: 2015 Certified Institution
Peelamedu, Coimbatore-641004

PROGRAMME LEARNING OUTCOMES (PLOs)

After completion of the programme, the student will be able to:

- PLO1** Acquire quality professional education and ethical practices adopted in the field of e-commerce to turn into an outstanding researcher/ teacher/ career woman and a responsible citizen
- PLO2** Impart knowledge through practical exploration of various tools, techniques and methods in e-commerce discipline to become a potential entrepreneur.
- PLO3** Analyze real e-business strategies and apply their specialist knowledge in complex decision making environment
- PLO4** Solve societal and practical issues in relation to e-business over internet to integrate ethical online business process and practices.
- PLO5** Facilitate organizations to integrate online business processes to launch their own e-commerce venture.

PROGRAMME SPECIFIC OUTCOME (PSOs)

At the time of graduation the students will be able to:

- PSO1** Recognize the impact of information and communication technologies, especially of internet in business operations.
- PSO2** Gain a comprehensive understanding of the e-commerce landscape, business models and the technologies related to various businesses.
- PSO3** Promote entrepreneurship and managerial skills in students so as to enable them to establish and manage their business effectively.



**CHOICE BASED CREDIT SYSTEM (CBCS) & LEARNING OUTCOMES BASED
CURRICULAR FRAMEWORK (LOCF)
BACHELOR OF COMMERCE WITH e-COMMERCE 2023-2026 BATCH**

SEM	Part	Subject Code	Title of the Paper	Course Type	Instruction Hours/Week	Contact Hours	Tutorial Hours	Duration of Examination	Examination Marks			Credits
									CIA	ESE	Total	
I	I	TAM2301A/ HIN2301A/ FRE2301A	Language I– Tamil I/ Hindi I/ French I	Language	4	58	2	3	25	75	100	3
	II	ENG2301A	English Paper I	English	4	58	2	3	25	75	100	3
	III	CM23C01	Principles of Accounting	CC	5	73	2	3	25	75	100	3
	III	EC23C02	Fundamentals of e- Commerce	CC	5	73	2	3	25	75	100	3
	III	TH23A07	Allied-Mathematics for Commerce	GE	6	88	2	3	25	75	100	4
	III	EC23CP1	Computer Application Practical I- Office Package	CC	4	60	-	3	15	35	50	2
	IV		NME23B1/ NME23A1	Basic Tamil I /Advanced Tamil I	AEC	2	28	2	-	100	-	100
		NME23ES	Foundation Course Introduction to Entrepreneurship	AEC	2	30	-	-	100	-	100	

**Outside regular class hours

CC –Core Courses CA–Continuous Assessment GE–Generic Elective

ESE- End Semester Examination

AECC–Ability Enhancing Course

Examination System

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

23-24 Batch onwards

CA Question Paper Pattern and distribution of marks UG Language 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

Units)

CA Question from each unit comprising of

One question with a weightage of 2 Marks :2 x 3 = 6

One question with a weightage of 5 Marks (Internal Choice at the same CLO level) :5 x 3 =15

One question with a weightage of 8 Marks (Internal Choice at the same CLO level) :8 x 3 =24

Total :45 Marks

ALC

Section A (Paragraph answer) (4 out of 6)	4 x 4	:	16 Marks
Section B (Essay type) 1 out of 2		:	9 Marks
Total		:	25 Marks

End Semester Examination – Question Paper Pattern and Distribution of Marks Language and

English – UG

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

UG & PG - Core and Allied courses:

ESE Question Paper Pattern: 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 (Internal Choice at the same CLO level): 5 x 5 =25

One question with a weightage of 8 Marks (Internal Choice at the same CLO level): 8 x 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 x 5 =25

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

End Semester for UG / PG - Advance Learner Courses

Section A 5 questions out of 8 - open choice 5x5 :25

marksSection B 5 questions out of 8-open choice 5x10 :50

marks

Total :75 marks

PG-IDC and Special Course:

Section A 5 questions (Internal choice) :25 marks

Section B 5 questions (Internal choice) :75 marks

Total :100 marks

Continuous Internal Assessment

Pattern Theory

I Year UG / PG (23 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 marks
Class Participation	:	5 marks
Attendance	:	3 marks
Total	:	25 Marks

Practical

Lab Performance	:	7 marks
Regularity	:	5 marks
Model Exam	:	10 marks
Attendance	:	3 marks
Total	:	25 marks

ESE Practical Pattern

The End Semester Examination will be conducted for a maximum of 75 marks respectively with a maximum 15 marks for the record and other submissions if any.

Project:

Evaluation of Individual / Group Project & Viva Voce for UG & PG

I Review - Selection of the field of study, Topic & literature collection	:	5 Marks
II Review - Research Design & Data Collection	:	10 Marks
III Review - Analysis & Conclusion Preparation of rough draft	:	10 Marks
Total	:	25 Marks

End semester examination:

Evaluation of the project : 25
Marks

Viva Voce : 50
Marks

Total : 75 Marks

**Evaluation Pattern for the Project (M.A., History /
English /M.Sc Biotechnology)**

In the IV Semester of M.A. History / English /M.Sc Biotechnology Programme,
Project Viva voce assessment will be for a total of 200 marks, out of which

I Review - Selection of the field of study : 10 Marks
Topic & literature collection :

II Review - Research Design : 20 Marks
& Data Collection:

III Review - Analysis & Conclusion : 20 Marks
Preparation of rough draft

Total : 50 Marks

End semester examination :

Evaluation of the project : 50
Marks

Viva Voce : 100
Marks

Total : 150 Marks

Part IV

**Introduction to Entrepreneurship/Women Studies/ Value
education /Environmental Studies / Design**

Thinking

Quiz : 50 marks

Assignment :
25marks
Project / Case study : 25
marks

Total : 100
Marks

Professional English

The course offered in alignment with TANSICHE norms with 2
credits. Quiz (5 x 20 Marks) : 100 Marks

MAPPING OF PLOs WITH CLOs

COURSE	PROGRAMME OUTCOMES				
	PLO1	PLO2	PLO3	PLO4	PLO5
COURSE – CM23C01					
CLO1	S	M	S	M	S
CLO2	S	M	S	M	M
CLO3	S	M	M	M	M
CLO4	S	M	S	M	S
COURSE – EC23C02					
CLO1	S	S	S	S	S
CLO2	S	S	S	S	S
CLO3	S	S	S	S	S
CLO4	S	S	S	S	S
COURSE – EC23CP1					
CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	M
CLO2	S	M	S	S	S
CLO3	M	S	S	S	M
CLO4	S	S	S	S	S

CM23C01	PRINCIPLES OF ACCOUNTING	Category	L	T	P	Credit
		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

CLOs	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.	K3
CLO4	Articulate the accounting concepts to interpret the performance of a Firm.	K4

Mapping with Programme Outcomes

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

S- Strong; M-Medium; L-Low

Syllabus

Unit I (14 Hrs)

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

Unit II (14 Hrs)

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

Unit III (15 Hrs)

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

only).

Unit IV (15 Hrs)

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

Unit V (15 Hrs)

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

Text Book

S. No	Authors	Title	Publishers	Year of Publication
1.	Reddy T S & A Murthy	Financial Accounting	Margham Publications	Reprint 2021

Reference Books

S. No	Authors	Title	Publishers	Year of Publication
1.	RL Gupta & Radhasamy	Advanced Accountancy (Vol I)	Sultan Chand & Sons.	2018, 13 th ed.
2.	Jain S.P & Narang K.L	Principles of Accountancy	Kalyani Publishers	2018
3.	MC Shukla, T.S. Grewal & S.C. Gupta	Advanced Accountancy	S. Chand & sons	2016

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, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Contents and Lecture Schedule

Module No.	Topic	No. of periods	Content delivery method	Participatory learning	CLO
------------	-------	----------------	-------------------------	------------------------	-----

UNIT I					
1	Introduction, Basic Accounting Concepts	1	Talk & Chalk	Interaction and Discussion	CLO1
2	Introduction, Stages and types of errors,	1	Talk & Chalk	Interaction and Discussion	CLO1 CLO2
3	Effect of rectification on Net Profit, Suspense Account and Rectification of Errors During a Subsequent Accounting Period	3	Solving Problems		CLO2 CLO3
4	Preparation of Final Accounts, Suspense account, Final accounts with advanced adjustment entries	4	Solving Problems		CLO3 CLO4
5	Causes for Difference between cash book and pass book, Methods of preparation of Bank Reconciliation Statement	1	Talk & Chalk		CLO1 CLO2
6	Bank balance to be shown in Balance Sheet, Adjustments in cash book	4	Solving Problems	Assignment	CLO2 CLO3 CLO4
UNIT II					
7	Average due Date -Meaning, practical uses & determination of due date	1	Talk & Chalk		CLO1 CLO2
8	Average due date as basis for Calculation of interest, Drawings	2	Solving Problems		CLO3 CLO4
9	Bills of exchange - Introduction	1	Talk & Chalk		CLO1
10	Discounting of bill with a bank	1	Solving Problems		CLO2 CLO3
11	Endorsement of a bill	1	Solving Problems		CLO3
12	Sending a bill to bank for collection, Renewal of bill	1	Solving Problems		CLO3
13	Retirement of bills of exchange, Insolvency of Acceptor	1	Solving Problems		CLO3
14	Joint Venture- meaning, Introduction, Importance	2	Talk & chalk	Interaction and Discussion	CLO1 CLO2
15	Accounting for Joint Venture, Complete record method, Partial record method	4	Solving Problems	Assignment	CLO3 CLO4
UNIT III					

16	Departmental Accounts – Basis for allocation of expenses.	3	Talk & Chalk, Solving Problems		CLO1 CLO2
17	Branch accounts – meaning, objectives, types & features , Debtors system – Cost Price Method	2	Talk & Chalk	Group Discussion	CLO1
18	Debtors System – Invoice price method	4	Solving Problems		CLO3 CLO4
19	Stock & debtors system - Cost Price Method, Invoice Price Method	3	Solving Problems		CLO4
20	Independent Branch	3	Solving Problems		CLO3 CLO4
UNIT IV					
21	Hire purchase Accounts – Introduction, Hire purchase system	1	Talk & Chalk		CLO1 CLO2
22	Calculation of Interest	2	Solving Problems		CLO2
23	Accounting treatment in the books of hirer & hire vendor	1	Talk & Chalk		CLO3
24	Default and repossession – Complete Repossession	2	Solving Problems		CLO3 CLO4
25	Partial repossession	2		Activity based Learning	CLO4
26	Hire purchase trading account – debtors System	1	Solving Problems		CLO1 CLO4
27	Hire purchase trading account – Stock & debtors system	2	Solving Problems		CLO3 CLO4
28	Royalties – Introduction, Objectives & Features	1	Solving Problems		CLO1 CLO2
29	Short workings, recoupment of short Workings	1	Solving Problems		CLO3 CLO4
30	Fixed recoupment, flexible recoupment & short workings lapsed or written off	1	Solving Problems		CLO3 CLO4
31	Adjustment of minimum rent due to stoppage of strike & lockout	1	Solving Problems		CLO3
UNIT V					
32	Depreciation – Introduction, Meaning -,Definition	1		Seminar	CLO1

33	Causes of depreciation, features, Objectives & necessity for providing Depreciation	1		Seminar, Assignment	CLO1 CLO2
34	Methods of recording depreciation – Straight line method	1	Solving Problems		CLO3 CLO4
35	Diminishing value method	2	Solving Problems		CLO3 CLO4
36	Annuity method ,Sinking fund method	2	Solving Problems		CLO3 CLO4
37	Insurance policy & revaluation method	1	Solving Problems		CLO3 CLO4
38	Depletion & Machine hour method	1		Seminar	CLO3 CLO4
39	Investment accounts – Introduction, Types of securities	1	Solving Problems	Interaction and Discussion	CLO1
40	Calculation of cum-interest	2	Solving Problems		CLO2
41	Calculation of ex-interest	2	Solving Problems		CLO2
42	Investment in equity & rights	1	Solving Problems		CLO2 CLO3

Course Designers

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

COURSE NUMBER	COURSE NAME	CATEGORY	L	T	P	CREDIT
EC23C02	FUNDAMENTALS OF e-COMMERCE	THEORY	73	2	-	3

Preamble

- To establish knowledge about and acquaint the basic concepts of e-commerce.
- To instill idea of convergence of business relationship through recent technologies.
- To identify, define and differentiate the various modes of electronic commerce.
- To demonstrate an awareness of the main components and concepts of Industry 4.0, and the vital role it plays in e-business practice.

Course Learning Outcomes

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

CLO Number	CLO Statement	Knowledge Level
CLO1	Recall the fundamental concepts of e-commerce and the functioning of various types of e-business models	K1
CLO2	Explain the role of e-commerce in abridging payment process	K2
CLO3	Develop a technological framework required for an e-business & M-Commerce	K3
CLO4	Analyze e--business strategies, business transformation processes and applications relevant to Industry 4.0	K4

Mapping with Programme Learning Outcomes

CLOS	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	S
CLO2	S	S	S	S	S
CLO3	S	S	S	S	S
CLO4	S	S	S	S	S

S- Strong

Syllabus

UNIT I (15 hours)

Introduction to e-Commerce – Definition – Perspectives – History of e-Commerce –e-Commerce drivers – **Nature & Scope of e-Commerce** – **Characteristics** - Categories of e-Commerce - Electronic data interchange - Electronic funds transfer – 6 P’s in e-Commerce – types of e-commerce models- Comparison between traditional and electronic commerce – **advantages and disadvantages of e-commerce**- Security Issues in e-Commerce – futures in e-Commerce.

UNIT II (16 hours)

Introduction to e-business –business models in e-Commerce: B2C – B2B – relationship between B2B e-Commerce with other perspectives –B2B e-Commerce and EDI - difference between B2B & B2C e-Commerce3 – C2C – C2B – B2G.**Introduction to e-Services:** Categories of e-Services – Web enabled services – Match making services – Information selling on the web – e-Entertainment – Auctions & other specialized services.

E-Commerce Technology: Introduction –Electronic Commerce Framework – Electronic Commerce and Media convergence. The Network Infrastructure for Electronic Commerce – The Network Infrastructure for Electronic Commerce: Components of the I-Way - Network Access Equipment-Global Information Distribution Networks. NSFNET- National Research & Educational Network. **Corporate Digital Library**

UNIT III (14 hours)

Dimension of Internal Electronic Commerce Systems - Types of Digital Documents. **Corporate data Warehouse** - Types of data warehouse. Electronic payment system – Introduction – Problems with traditional payment system – **features of e-payment system** – **Types of e-payment system:** e-token – e-cash – e-money - e-cheque – Credit cards – Debit cards – Smart cards. Credit Cards based e-Payment system - Advantages of EPS –Designing e-Payment system.

UNIT IV (14 hours)

Internet Payment System: Characteristics of Payment system – 4C Payment methods – **SET Protocol for credit card payment** - Micropayment system – **Overview of smart card and Mondex** – e-commerce security & secure messaging - Information Security- Security Threats - V-commerce – Introduction and features - M-Commerce –Products and Services in M-Commerce - Mobile Commerce Risk, Security and Payment Methods

UNIT V (14 hours)

Current Trends in electronic world – e-Waste – e-Surveillance – e-Governance - e-Care. E-Commerce Laws And Regulations In India and guidelines for consumer protection. Examples of the types of e-Commerce: Intel - Amazon – e-bay – Priceline.

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

Text Books

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1	Dr. U.S. Pandey	e-Commerce and Mobile Commerce Technologies	S. Chand	2015 Revised Edition

	Er. SaurabhShukla			
2	P. Kaliraj, T. Devi	Higher Education for Industry 4.0 and Transformation to Education 5.0	Bharathiar University	2020

Reference Books

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1	Ravi Kalakota and Andrew B. Whinston	Frontiers of Electronic commerce	Pearson Publication Ltd	2013, Revised Edition
2	V. Rajaraman	Essentials of E-Commerce Technology	PHI Learning Private Limited	2015 Revised Edition

Blended Learning Links

Unit - I

- <https://www.youtube.com/watch?v=nxSDHBdsWqA>
- <https://www.youtube.com/watch?v=kbJR2bHWolo>
- <https://zenodo.org/record/1461343/files/173-176.pdf>
- https://www.researchgate.net/publication/350235862_E-Commerce_Advantages_and_Limitations

Unit – II

- https://www.tutorialspoint.com/e_commerce/e_commerce_business_models.htm
- <https://keydifferences.com/difference-between-b2b-and-b2c.html>
- <https://www.tutorialspoint.com/difference-between-b2b-and-b2c>
- <https://www.scribd.com/doc/20489539/Corporate-Digital-Library>
- <http://www.dlib.org/dlib/april96/04schutzer.html>

Unit - III

- https://www.tutorialspoint.com/e_commerce/e_commerce_payment_systems.htm
- <https://www.youtube.com/watch?v=fDhLXLgbDx4>
- <https://www.techopedia.com/definition/18226/corporate-data-warehouse-cdw>

Unit – IV

- <https://www.youtube.com/watch?v=h4erkIh6YzM>
- <https://www.youtube.com/watch?v=GfPcz1y0JoE>
- <https://mrjacse.files.wordpress.com/2012/04/secure-electronic-transaction-set.pdf>

Unit - V

- https://www.researchgate.net/publication/361677365_Introduction_of_industry_40_Introduction_of_industry_40
- https://hub.unido.org/sites/default/files/publications/Unido_industry-4_A4_09.pdf

- <https://www.sap.com/india/insights/what-is-industry-4-0.html>
- <https://www.twi-global.com/what-we-do/research-and-technology/technologies/industry-4-0>

Pedagogy

Lecture, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Contents and Lecture Schedule

Sl. No.	LECTURE	Topic	Contents	Activity	CLOs
UNIT I (15 hours)					
1	1-3	Introduction to e-Commerce (Online Learning)	https://www.youtube.com/watch?v=nxSDHBdsWqA	Discussion	CLO 1
2	4-5	Definition – Perspectives – History of e-Commerce – e-Commerce drivers (In class Discussion & Interaction)	In class Discussion using PPT	Quiz	CLO 2 CLO 3
3	6-7	Nature & Scope of e-Commerce Characteristics (Online Learning)	https://www.youtube.com/watch?v=kbJR2bHWolo	Assignment	CLO 1 CLO 2
4	8-9	Categories of e-Commerce - Electronic data interchange (In class Discussion & Interaction)	In class Discussion using PPT	Group Discussion	CLO 2 CLO 3
5	10-11	Electronic funds transfer – 6 P's in e-Commerce – types of e-commerce models (In class Discussion & Interaction)	Lecture, Presentation & Quiz	Discussion	CLO 2
6	12-13	Comparison between traditional and electronic commerce (In class Discussion & Interaction)	In class Discussion using PPT	Quiz	CLO 2 CLO 3
7	14-15	advantages and	https://www.researchgate.net/publication/350	Discussion	CLO 4

		disadvantages of e-commerce- Security Issues in e-Commerce – futures in e-Commerce (Online Learning)	235862_E-Commerce Advantages and Limitations https://zenodo.org/record/1461343/files/173-176.pdf		
UNIT II (16 hours)					
8	16-17	Introduction to e-business –business models in e-Commerce (Online learning)	https://www.tutorialspoint.com/e_commerce/e_commerce_business_models.htm	Group Discussion	CLO 1 CLO 2
9	18-19	B2C – B2B – relationship between B2B e-Commerce with other perspectives –B2B e-Commerce and EDI (In class Discussion & Interaction)	In class Discussion using PPT	Discussion	CLO 2
10	20-21	difference between B2B & B2C (Online learning)	https://keydifferences.com/difference-between-b2b-and-b2c.html https://www.tutorialspoint.com/difference-between-b2b-and-b2c	Quiz	CLO 2 CLO 3
11	22-23	e-Commerce – C2C – C2B – B2G. Introduction to e-Services: Categories of e-Services – Web enabled services – Match making services (In class Discussion & Interaction)	In class Discussion using PPT & Lecture	Quiz	CLO 2 CLO 3
12	24-25	Information selling on the web – e-Entertainment – Auctions & other specialized services (In class Discussion & Interaction)	In class Discussion using PPT	Assignment	CLO 1 CLO 2
13	26-28	Introduction to e-Services: Categories	In class Discussion using PPT & Lecture	Group Discussion	CLO 3 CLO 4

		of e-Services – Web enabled services – Match making services – Information selling on the web – e-Entertainment – Auctions & other specialized services (In class Discussion & Interaction)			
14	29-31	E-Commerce Technology: Introduction – Electronic Commerce Framework – Electronic Commerce and Media convergence (In class Discussion & Interaction)	In class Discussion using PPT & Lecture	Discussion	CLO 2 CLO 3
UNIT III (14 hours)					
15	32-34	Dimension of Internal Electronic Commerce Systems - Types of Digital Documents (In class Discussion & Interaction)	In class Discussion using PPT	Assignment	CLO 1 CLO 2
16	35-37	Corporate data Warehouse - Types of data warehouse. Electronic payment system – Introduction – Problems with traditional payment system (In class Discussion & Interaction)	In class Discussion using PPT & Lecture	Group Discussion	CLO 2 CLO 3
17	38-39	features of e-payment system –	https://www.tutorialspoint.com/e_commerc	Assignment	CLO 2 CLO 3

		Types of e-payment system (Online learning)	e/e commerce payment systems.htm https://www.youtube.com/watch?v=fDhLXLgbDx4 https://www.techopedia.com/definition/18226/corporate-data-warehouse-cdw		
18	40-42	e-token – e-cash – e-money - e-cheque – Credit cards – Debit cards – Smart cards. Credit Cards based e-Payment system (In class Discussion & Interaction)	In class Discussion using PPT & Lecture	Quiz	CLO 2 CLO 3
19	43-45	Advantages of EPS –Designing e-Payment system (In class Discussion & Interaction)	In class Discussion using PPT	Group Discussion	CLO 3 CLO 4
UNIT IV (14 hours)					
20	46-47	Internet Payment System: Characteristics of Payment system – 4C Payment methods (In class Discussion & Interaction)	In class Discussion using PPT	Quiz	CLO 2 CLO 3
21	48-49	SET Protocol for credit card payment (Online learning)	https://www.youtube.com/watch?v=h4erklh6YzM https://www.youtube.com/watch?v=GfPcz1y0JoE	Group Discussion	CLO 2 CLO 3
22	50-51	Micropayment system (In class Discussion & Interaction)	In class Discussion using PPT & Lecture	Quiz	CLO 1 CLO 3
23	52-53	Overview of smart card and Mondex (Online learning)	https://mrjacse.files.wordpress.com/2012/04/secure-electronic-transaction-set.pdf	Group Discussion	CLO 2 CLO 3
24	54-55	e-commerce security & secure messaging (In class Discussion & Interaction)	In class Discussion using PPT	Discussion	CLO 1 CLO 2
25	56-57	Information Security- Security	In class Discussion using PPT	Assignment	CLO 3 CLO 4

		Threats - V-commerce – Introduction and features - M-Commerce (In class Discussion & Interaction)			
26	58-59	Products and Services in M-Commerce - Mobile Commerce Risk, Security and Payment Methods (In class Discussion & Interaction)	In class Discussion using PPT & Lecture	Group Discussion	CLO 2 CLO 3
UNIT V (14 hours)					
27	60-61	Current Trends in electronic world – e-Waste – e-Surveillance – e-Governance - e-Care (In class Discussion & Interaction)	In class Discussion using PPT	Discussion	CLO 1 CLO 2
28	62-63	e-Commerce Laws And Regulations In India and guidelines for consumer protection. Examples of the types of e-Commerce: Intel - Amazon – e-bay – Priceline (In class Discussion & Interaction)	In class Discussion using PPT	Assignment	CLO 2 CLO 3
29	64-65	Introduction to Industry 4.0 - Need – Reasons for Adopting Industry 4.0 (Online learning)	https://www.researchgate.net/publication/361677365_Introduction_of_industry_40_Introduction_of_industry_40 https://hub.unido.org/sites/default/files/publications/Unido_industry-4_A4_09.pdf https://www.sap.com/india/insights/what-is-	Group Discussion	CLO 2 CLO 3

			industry-4-0.html		
30	66-67	Definition – Goals and Design Principles (In class Discussion & Interaction)	In class Discussion using PPT & Lecture	Quiz	CLO 1 CLO 2
31	68-69	Technologies of Industry 4.0 (Online Learning)	https://www.twi-global.com/what-we-do/research-and-technology/technologies/industry-4-0	Assignment	CLO 2 CLO 3
32	70-71	Skills required for Industry 4.0- Advancements in Industry 4.0 (In class Discussion & Interaction)	In class Discussion using PPT & Lecture	Quiz	CLO 3 CLO 4
33	72-73	Impact of Industry 4.0 on Society, Business, Government and People - Introduction to 5.0 (In class Discussion & Interaction)	In class Discussion using PPT	Group Discussion	CLO 3 CLO 4

Course Designers

1. Dr.M.Sumathi
2. Mrs.K.Ilavarasi

COURSE NUMBER	COURSE NAME	CATEGORY	L	T	P	CREDIT
EC23CP1	COMPUTER APPLICATION PRACTICAL I- OFFICE PACKAGE	PRACTICAL	-	-	60	2

Preamble

- To give hands on training in basic computer applications
- To inculcate programming ability to compute data
- To aim at making experts in the most widely used application packages

Course Learning Outcomes

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

CLO	CLO Statement	Knowledge
-----	---------------	-----------

Number		Level
CLO1	Define the various practical applications using MS office.	K1
CLO2	Demonstrate presentations using MS office package tools	K2
CLO3	Develop documents using the word package tools.	K3
CLO4	Construct worksheets using advanced functions in MS office	K3

Mapping with Programme Learning Outcomes

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

S- Strong; M-Medium

Syllabus

WORD

1. Type a paragraph and Perform:
 - a. Font using font size, font style, line spacing etc.
 - b. Insert page numbers at the bottom right alignment
 - c. Insert header consisting of date and time, insert footer consisting of page numbers.
 - d. Numbers.
 - e. Change the paragraph into two or three columns
 - f. Check the spelling and grammar
 - g. Use bullets and numbering
 - h. Use drop cap
 - i. Find and replace a word
2. Prepare a class timetable using table option and merging cells. Inserting the table, Data Entry, Alignment of Rows and Columns, Inserting and Deleting the Rows and Columns and Change of Table Format
3. Create Business Cards using Shapes, text, and colors
4. Prepare a leaflets using text adjustment between the table, page size, and text boxes.

5. Prepare an application for a job with the bio-data using auto text.
6. Prepare a college day invitation using borders and shading option, word art and pictures.
7. Using mail merge, draft a shareholder's meeting letter for 5 members.

EXCEL

8. Enter the data with following fields:

- b) Serial no
- c) Name
- d) Address
- e) City
- f) Date of Joining
- g) Salary
- h) Course
- i) Duration
- j) No of students
- k) Total fees

Perform the following:

- a. Change font as bold
- b. Arrange the alignment as center
- c. Rename the sheet
- d. Insert a new sheet
- e. Move a sheet
- f. Delete a sheet
- g. Hide/Unhide Column

8602008 h) Change Column Width

150

9. Draw a multiple bar diagram from the following data

Year	Sales ('000Rs.)	Gross Profit ('000Rs.)	Net Profit ('000Rs.)
2005	120	40	20
2006	135	45	30
2007	140	55	35
2008	150	60	50

10. Draw different graphs Column Chart, Line Chart, Pie Chart, Area Chart, Scatter Chart, for a sample data.
11. Calculate Simple and Compound Interest. Prepare a statement of Bank customers account showing simple and compound interest calculations for 10 different customers using mathematical and logical functions
12. Enter the semester marks and calculate total auto-sum and average using function wizard.
13. Sort: Sort by Color, Reverse List, Randomize List.
14. Filter: Number and Text Filters, Date Filters, Advanced Filter, Data Form, Remove Duplicates, Outlining Data.

POWERPOINT

15. Design presentation slides for a product of your choice. The slides must include name, brand name, type of product, characteristics, special features, price, special offer etc
16. Design presentation slides for organization details for 5 levels of hierarchy of a company by using organization chart.
17. Design slides for the headlines News of a popular TV Channel. The Presentation Should contain the following transactions: Top down, Bottom up, Zoom in and Zoom out. The presentation should work in custom mode.
18. Design presentation slides for the broucher and certificates for inter collegiate competition.
19. Design presentation slides for the Seminar/Lecture Presentation using animation effects and perform the following operations: Creation of different slides, changing background color, font color using word art
20. Prepare a presentation for company's annual general meeting with hyperlink and creating links between word documents.

Pedagogy

Demonstration through System, Demonstration through PPT

Course Contents and Presentation Schedule

Module No	Topic	No. of Periods	Content delivery methods	Participatory Learning	CLO
1	Type a paragraph and Perform: a. Font using font size, font style, line spacing tc. b. Insert page numbers at the bottom right alignment	3	Presentation	Demo, Hands-on training	CLO 1

Module No	Topic	No. of Periods	Content delivery methods	Participatory Learning	CLO
	<ul style="list-style-type: none"> c. Insert header consisting of date and time, insert footer consisting of page d. Numbers. e. Change the paragraph into two or three columns f. Check the spelling and grammar g. Use bullets and numbering h. Use drop cap i. Find and replace a word 				
2	Prepare a class timetable using table option and merging cells. Inserting the table, Data Entry, Alignment of Rows and Columns, Inserting and Deleting the Rows and Columns and Change of Table Format	3	Presentation	Demo, Hands-on training	CLO 1
3	Create Business Cards using Shapes, text, and colors	3	Presentation	Demo, Hands-on training	CLO 1
4	Prepare a leaflets using text adjustment between the table, page size, and text boxes.	3	Presentation	Demo, Hands-on training	CLO 1
5	Prepare an application for a job with the bio-data using auto text.	3	Presentation	Demo, Hands-on training	CLO 1
6	Prepare a college day invitation using borders and shading option, word art and pictures.	3	Presentation	Demo, Hands-on training	CLO 1
7	Using mail merge, draft a shareholder's meeting letter for 5 members.	3	Presentation	Demo, Hands-on training	CLO 1
8	Enter the data with following fields: <ul style="list-style-type: none"> l) Serial no m) Name n) Address o) City p) Date of Joining q) Salary r) Course s) Duration t) No of students 	3	Presentation	Demo, Hands-on training	CLO 2

Module No	Topic	No. of Periods	Content delivery methods	Participatory Learning	CLO																				
	u) Total fees Perform the following: a. Change font as bold b. Arrange the alignment as center c. Rename the sheet d. Insert a new sheet e. Move a sheet f. Delete a sheet g. Hide/Unhide Column h. Change Column Width																								
9	Draw a multiple bar diagram from the following data <table border="1" data-bbox="240 779 824 1045"> <thead> <tr> <th>Year</th> <th>Sales ('000Rs.)</th> <th>Gross Profit ('000Rs.)</th> <th>Net Profit ('000Rs.)</th> </tr> </thead> <tbody> <tr> <td>2005</td> <td>120</td> <td>40</td> <td>20</td> </tr> <tr> <td>2006</td> <td>135</td> <td>45</td> <td>30</td> </tr> <tr> <td>2007</td> <td>140</td> <td>55</td> <td>35</td> </tr> <tr> <td>2008</td> <td>150</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Year	Sales ('000Rs.)	Gross Profit ('000Rs.)	Net Profit ('000Rs.)	2005	120	40	20	2006	135	45	30	2007	140	55	35	2008	150	60	50	3	Presentation	Demo, Hands-on training	CLO 3
Year	Sales ('000Rs.)	Gross Profit ('000Rs.)	Net Profit ('000Rs.)																						
2005	120	40	20																						
2006	135	45	30																						
2007	140	55	35																						
2008	150	60	50																						
10	Draw different graphs Column Chart, Line Chart, Pie Chart, Area Chart, Scatter Chart, for a sample data.	3	Presentation	Demo, Hands-on training	CLO 3																				
11	Calculate Simple and Compound Interest. Prepare a statement of Bank customers account showing simple and compound interest calculations for 10 different customers using mathematical and logical functions	3	Presentation	Demo, Hands-on training	CLO 2																				
12	Enter the semester marks and calculate total auto-sum and average using function wizard.	3	Presentation	Demo, Hands-on training	CLO 3																				
13	Sort: Sort by Color, Reverse List, Randomize List.	3	Presentation	Demo, Hands-on training	CLO 2																				
14	Filter: Number and Text Filters, Date Filters, Advanced Filter, Data Form, Remove Duplicates, Outlining Data.	3	Presentation	Demo, Hands-on training	CLO 2																				

Module No	Topic	No. of Periods	Content delivery methods	Participatory Learning	CLO
15	Design presentation slides for a product of your choice. The slides must include name, brand name, type of product, characteristics, special features, price, special offer etc	3	Presentation	Demo, Hands-on training	CLO 2
16	Design presentation slides for organization details for 5 levels of hierarchy of a company by using organization chart.	3	Presentation	Demo, Hands-on training	CLO 2
17	Design slides for the headlines News of a popular TV Channel. The Presentation Should contain the following transactions: Top down, Bottom up, Zoom in and Zoom out. The presentation should work in custom mode.	3	Presentation	Demo, Hands-on training	CLO 3
18	Design presentation slides for the broucher and certificates for inter collegiate competition.	3	Presentation	Demo, Hands-on training	CLO 2
19	Design presentation slides for the Seminar/Lecture Presentation using animation effects and perform the following operations: Creation of different slides, changing background color, font color using word art	3	Presentation	Demo, Hands-on training	CLO 3
20	Prepare a presentation for company's annual general meeting with hyperlink and creating links between word documents.	3	Presentation	Demo, Hands-on training	CLO 2

Course Designers

1. Dr.M.Sumathi
2. Mrs.K.Ilavarasi