LESSON PLAN

Department: CSE Semester: 6th, Name of Faculty: SUBRAT KUMAR SAHOO

Subject: E-Commerce (TH-4)	No. of days/week Class allotted:4	Effective From Date: 22.12.2025
		No. of Week-15
		Topic to be Covered:
Week	**Class Day**	**Theory**
1st	1st	UNIT 1:INTRODUCTION TO E-COMMERCE
	2nd	1.1Introduction
	3rd	1.2 what is E-commerce
	4th	1.3 E-Business
2nd	1st	1.4 Categories of E-Commerce Applications
	2nd	1.5 Global Trading Environment & Adoption of E-commerce
	3rd	1.6 Comparison between traditional and E-commerce
	4th	1.7 Advantage and Disadvantage
3rd	1st	UNIT 2: BUSINESS MODELS OF E-COMMERCE
	2nd	2.1 Introduction
	3rd	2.2 Business Models of E-Commerce
	4th	2.3 B2C 2.4 B2B
4th	1st	2.5 Difference between B2C and B2B 2.6 C2C
	2nd	UNIT 3: B2B E-COMMERCE & EDI INTRODUCTION
	3rd	3.1 Need for B2B
	4th	3.2 EDI
5th	1st	3.3 Paperless Transaction 3.4 EDI standards
	2nd	3.5 Data Standards used in EDI 3.6 Cost of EDI
	3rd	3.7 Reasons for Slow acceptability
	4th	3.8 Electronic Fund Transfer (Canada case eliminated)
6th	1st	3.9 XML and its application
	2nd	3.10 Comparison of HTML and XML
	3rd	3.11 Advantage of XML as a Technology
	4th	UNIT 4: BUSINESS APPLICATIONS of E-COMMERCE INTRODUCTION
7th	1st	4.1 Trade Cycle 4.2 Supply Chain
	2nd	4.3E-Procurement 4.4 Implementing E-Procurement
	3rd	4.5 Competitive Advantage
	4th	4.6 E-Commerce Application in Manufacturing 4.7 E-Commerce Application in Wholesale
8th	1st	4.9 E-Commerce Application in Retail
	2nd	4.10 E-Commerce Application in Service Sector
	3rd	UNIT 5: E-COMMERCE TECHNOLOGY
	4th	5.1 Introduction 5.2 IT infrastructure
9th	1st	5.3 Internet 5.4 Middleware

	2nd	5.5 Intranet	
	3rd	5.6 Extranet	
	4th	5.7 VPN 5.8 Firewall	
10th	1st	5.9 Cryptography 5.10 Digital Signature	
	2nd	5.11 Digital Envelope 5.12 Digital certificates 5.13 Contents	
	3rd	**UNIT 6: ELECTRONIC PAYENT SYSTEM**	
	4th	6.1 Introduction 6.2 Electronic Payment Mechanism	
11th	1st	6.3 Types of Payment System 6.4 Risks Associated with Electronic Payment	
	2nd	6.5 Risk Management option 6.6 Payment Gateway	
	3rd	6.7 Issues of Electronic Payment Technology	
	4th	6.8 Recommendations 6.9 Internet Banking	
12th	1st	6.10 Security Requirement	
	2nd	6.11 Secure Socket Layer 6.12 Biometrics	
	3rd	**UNIT -7: SECURITY ISSUES IN E-COMMERCE**	
	4th	7.1 Introduction	
13th	1st	7.2 E-commerce security issues	
	2nd	7.3 Risks involved in e-commerce	
	3rd	7.4 Protecting e-commerce system	
	4th	7.5 Common E-commerce Security Tools	
14th	1st	7.6 Client server Network security	
	2nd	7.7 Data and Message Security	
	3rd	**UNIT -8: CURRENT TRENDS IN ELECTRONIC WORLD**	
	4th	8.1 E-waste	
15th	1st	8.1.1 Problem of E-Waste and it's solution	
	2nd	8.2 E-Surveillance	
	3rd	8.2.1 Application and benefit of E-Surveillance	
	4th	8.3 E-governance	

Subrat Kumar Saha
Signature of Faculty

Rasmita Patra
22/12/25
HOD, CSE
Govt. Polytechnic,
Kandhamal