

CHING-CUM-LESSON PLAN

Subject Code: Th-2 1)

2) Subject Title: INTERNET OF THINGS

Semester:6th

Branch: Computer Sc & Engg 4)

No. of Classes / Week: 06 5)

Pre Requisite for the Subject: NIL 6)

Text Book to be referred by students: 7)

SI No.	Book	Author	Publication	Year (Edition)	whether available in Library
00000		Janua Jose	Khanna Books	0040	YES
i	Internet of Things	Jeeva Jose	Kildillid Books	2019	163

8)

			ge Sched		Article		Expected	10.
SI No.	Week No.	Ch. No	classes	Topic to be covered	From	То	Date of Completion	Remark
i	1	01	06	Introduction to Internet of Things	1.1	1.8		
ii	2	01	02	Introduction to Internet of Things	1.9	1.10	24-03-2022	
iii		02	04	IoT Networking	2.1	2.4		
iv	3	02	02	IoT Networking	2.5	2.6	04-04-2022	311_1
٧		03	04	Connectivity Technologies	3.1	3.3		
vi	4	03	02	Connectivity Technologies	3.4	3.5	16-04-2022	
vii		04	04	Wireless Sensor Networks	4.1	4.8		
viii	5	04	04	Wireless Sensor Networks	4.9	4.14	23-04-2022	
ix		05	02	M2M Communication	5.1	5.2		
×	6	05	03	M2M Communication	5.3	5.4	30-04-2022	2
xi		06	03	Programming with Arduino	6.1	6.2		
xii	7	06	02	Programming with Arduino	6.3	6.4	05-05-2022	2
xii	i	07	04	Programming with Raspberry Pi	7.1	7.3	07-05-2022	2
xi	v 8	08	06	Software defined Networking	8.1	8.7	14-05-2022	2
x	v 9	09	03	Smart Homes	9.1	9.4	17-05-2022	2
X	vi	10	03	Smart Cities	10.1	10.4		-
X	/ii 10	10	02	Smart Cities	10.5	10.6	23-05-202	2

xviii	11	04	Industrial IoT	11.1	11.5	28-05-2022	4
Total:	11	60					

9) Detail Class wise Plan:

Detailed Topic Plan:

Chapter No: 01_ Chapter Name:- Introduction to Internet of Things

- 1.1 Introduction
- 1.2 Characteristics of IoT
- 1.3 Applications of IoT
- 1.4 IoT Categories
- 1.5 IoT Enablers and connectivity layers
- 1.6 Baseline Technologies
- 1.7 Sensor
- 1.8 Actuator
- 1.9 IoT components and implementation
- 1.10 Challenges for IoT

SI		Lecture	Topic to be Covered		Date of Completion	Signature
No. 01	No.	No. 01	Introduction Characteristics of IoT	1.1,1.2		
02	01	02	Applications of IoTIoT Categories	1.3,1.4		
03	0.	03	IoT Enablers and connectivity layers	1.5		
04		04	Baseline Technologies	1.6		
05		05	Sensor	1.7		
06	-	06	Actuator	1.8		
07	02	07	IoT components and implementation Challenges for IoT	1.9,1.10		
08		08	Teachers Exam./ Doubt Clear/Revision:	1001	24-03-2022	

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Detailed Topic Plan:

Chapter No: 02_

Chapter Name:- IoT Networking

- 2.1 Terminologies
- 2.2 Gateway Prefix al otment
- 2.3 Impact of mobility on Addressing
- 2.4 Multihoming
- 2.5 Deviation from regular Web
- 2.6 IoT identification and Data protocols

		12		• Article	Date of	Signature
SI		Lecture	Topic to be Covered		Completion	Signature
No.	No.	No.				

01		9	Terminologies	2.1		
02	-	10	Gateway Prefix allotment	2.2	MA JULIA	
03	02	11	Impact of mobility on Addressing	2.3		
04		12	Multihoming	2.4		
05	03	13	Deviation from regular Web IoT identification and Data protocols	2.5,2.6	ESH EL	
06		14	Teachers Exam./ Doubt Clear/Revision	1002	04-04-2022	

REVIEW:-

Detailed Topic Plan:

Chapter No: 03_

Chapter Name:- Connectivity Technologies

- 3.1 Introduction
- 3.2 IEEE 802.15.4
- 3.3 ZigBee, 6LoWPAN
- 3.4 RFID, HART and wireless HART
- 3.5 NFC, Bluetooth, Z v/ave, ISA100.11.A

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
01	NO.	15	Introduction	3.1		
02		16	IEEE 802.15.4	3.2		
03	03	17	ZigBee, 6LoWPAN	3.3		
04		18	ZigBee, 6LoWPAN	3.3		HEILE
05	04	19	RFID, HART and wireless HART NFC, Bluetooth, Z wave, ISA100.11.A	3.4,3.5		
06		20	Teachers Exam./ Doubt Clear/Revision:	1003	16-04-2022	

REVIEW:-

Detailed Topic Plan:

Chapter No: 04_

- 4.1 Introduction
- 4.2 Components of a sensor node
- 4.3 Modes of Detection
- 4.4 Challenges in WSN
- 4.5 Sensor Web
- 4.6 Cooperation and Behaviour of Nodes in WSN
- 4.7 Self Management of WSN

Chapter Name: - Wireless Sensor Networks

- 4.8 Social sensing WSN
- 4.9 Application of WSN
- 4.10 Wireless Multimedia sensor network
- 4.11 Wireless Nanosensor Networks
- 4.12 Underwater acoustic sensor networks
- 4.13 WSN Coverage
- 4.14 Stationary WSN, Mobile WSN

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
01		21	Introduction Components of a sensor node	4.1,4.2		
02	04	22	Modes of Detection Challenges in WSN	4.3,4.4		
03		23	Sensor Web Cooperation and Behavior of Nodes in WSN	4.5,4.6		
04		24	Self Management of WSN Social sensing WSN	4.7,4.8		
05	05	25	Application of WSN Wireless Multimedia sensor network	4.9,4.10		
06		26	Wireless Nanosensor Networks Underwater acoustic sensor networks	4.11,4.12		
07		27	WSN Coverage Stationary WSN, Mobile WSN	4.13,4.14		
80	nee.	28	Teachers Exam./ Doubt Clear/Revision:		23-04-2022	Bale

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Chapter No: 05_ 5.1 M2M communication

5.2 M2M Ecosystem

5.3 M2M service Platform

5.4 Interoperability

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
01	05	29	M2M communication	5.1		
02	T BI	30	M2M Ecosystem	5.2		
03	06	31	M2M service Platform	5.3		
04		32	Interoperability	5.4		1
05		33	Teachers Exam./ Doubt Clear/Revision:	1005	30-04-2022	Pro-

Chapter Name: - M2M Communication

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Chapter No: 06_

Chapter Name:- Programming with Arduino

- 6.1 Features of Arduino
- 6.2 Components of Arduino Board
- 6.3 Arduino IDE
- 6.4 Case Studies

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
01	NO.	34	Features of Arduino	6.1		
02		35	Components of Arduino Board	6.2		
03	06	36	Components of Arduino Board	6.2		
04	07	37	Arduino IDE Case Studies	6.3,6.4		
05		38	Teachers Exam./ Doubt Clear/Revision:	1006	05-05-2022	

REVIEW:-

Detailed Topic Plan:

Chapter No: 07_

Chapter Name:- Programming with Raspberry Pi

- 7.1 Architecture and Pin Configuration
- 7.2 Case studies
- 7.3 Implementation of Io[™] with Raspberry Pi

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
01	140.	39	Architecture and Pin Configuration	7.1		
02	1	40	Case studies	7.2		
03	07	41	Implementation of IoT with Raspberry Pi	7.3		
04		42	Teachers Exam./ Doubt Clear/Revision:	1007		

REVIEW:-

Detailed Topic Plan:

Chapter No: 08_

Chapter Name:- Software defined Networking

10) Examination Schedule

SI .	Particulars of Test	Schedule	Туре
		Wednesday (4 th Sem.) & Thursday (6 th sem.)	10 Short Questions (02 Marks):
_	Internal Exam1	4 th Week	30 Marks (Long Questions)
	Internal Exam2	8 th Week	30 Marks (Long Questions)

11) Assignment Collection/ Evaluation:

SI No.	Assignment No.	Content	Schedule
1	Assignment-1	Long Questions 7 Nos.(10 Marks) Short Questions 6 Nos. (5 Marks)	3 rd Week
2	Assignment-2	Long Questions 8 Nos.(10 Marks) Short Questions 6 Nos. (5 Marks)	6 th Week
3	Assignment-3	Long Questions 11 Nos.(10 Marks) Short Questions 8 Nos. (5 Marks)	9 th Week
4	Assignment-4	VST 100 Marks	10 th /11 th Week

Signature of Faculty

Signature of Asst. HOD

Signature of HOD

Principal



TEACHING-CUM-LESSON PLAN

1) Subject Code: Th-1

2) Subject Title: CRYPTOGRAPHY & NETWORK SECURITY

3) Semester:6th

4) Branch: Computer Sc & Engg

5) No. of Classes / Week: 06

6) Pre Requisite for the Subject: NIL

7) Text Book to be referred by students:

SI No.	Book	Author	Publication	Year (Edition)	Whether available in Library
i	Cryptography & Network security	A. Kahate	ТМН	3 RD	YES

8) Course Coverage Schedule:

01	Marale	Ch. No	No. of	Bland of the Parish and the last	Ar	ticle	Expected	
SI No.	Week No.		No Cla	classes planed	Topic to be covered	From	То	Date of Completion
i	1	01	05	POSSIBLE ATTACKS ON COMPUTERS	1.1	1001	23-03-2022	
ii		02	01	CRYPTOGRAPHY CONCEPTS	2.1	2.2		
ii	2	02	06	CRYPTOGRAPHY CONCEPTS	2.3	2.4		
iii	3	02	03	CRYPTOGRAPHY CONCEPTS	2.5	1002	04-04-2022	
iv		03	03	SYMMETRIC & ASYMMETRIC KEY ALGORITHMS	3.1	3.2		
iv	4	03	06	SYMMETRIC & ASYMMETRIC KEY ALGORITHMS	3.3	3.5		
٧	5	03	06	SYMMETRIC & ASYMMETRIC KEY ALGORITHMS	3.6	3.7,1003	23-04-2022	
vi	6	04	06	DIGITAL CERTIFICATE & PUBLIC KEY INFRASTRUCTURE	4.1	4.2		
vii	7	04	04	DIGITAL CERTIFICATE & PUBLIC KEY INFRASTRUCTURE	4.3	4.4,1004	05-05-2022	
vii		05	02	INTERNET SECURITY PROTOCOLS	5.1	5.2		
viii	8	05	06	INTERNET SECURITY PROTOCOLS	5.3	5.5		ę.
ix	9.	05	02	INTERNET SECURITY PROTOCOLS	5.6	1005	17-05-2022	
- X		06	04	USER AUTHENTICATION	6.1	6.3		
X	10	06	01	USER AUTHENTICATION	6.4	6.5,1006	23-05-2022	
xi		07	05	NETWORK SECURITY & VPN	7.1	7.4,1007	28-05-2022	

Total:	07	60	

9) Detail Class wise Plan:

Detailed Topic Plan:

Chapter No: 01_

Chapter Name: - POSSIBLE ATTACKS ON COMPUTERS

- 1.1 The need for security
- 1.2 Security approach
- 1.3 Principles of security
- 1.4 Types of attacks

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
01	NO.	01	The need for security Security approach	1.1,1.2		
02	01	02	Security approach Principles of security	1.2,1.3		
03		03	Types of attacks	1.4		
04		04	Types of attacks	1.4		
05		05	Teachers Exam./ Doubt Clear/Revision:	1001	23-03-2022	

REVIEW:-

Detailed Topic Plan:

Chapter No: __02__ Chapter Name: CRYPTOGRAPHY CONCEPTS

- 2.1 Plain text & Cipher Text
- 2.2 Substitution techniques
- 2.3 Transposition techniques
- 2.4 Encryption & Decryption
- 2.5 Symmetric & Asymmetric key cryptography

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1	01	6	Plain text & Cipher Text Substitution techniques	2.1,2.2		
2		7	Transposition techniques	2.3		
3		8	Transposition techniques	2.3		
4	02	9	Transposition techniques	2.3		
5		10	Encryption & Decryption	2.4		
6.		11	Encryption & Decryption	2.4		
7		12	Encryption & Decryption	2.4		Ha'ale
8		13	Symmetric & Asymmetric key cryptography	. 2.5		

1	03	14	Symmetric & Asymmetric key cryptography	2.5		
10		15	Teachers Exam./ Doubt Clear/Revision:	1002	04-04-2022	

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Chapter No: __03__ Chapter Name: SYMMETRIC & ASYMMETRIC KEY ALGORITHMS

- 3.1 Symmetric-key algorithm types
- 3.2 Overview of Symmetric key cryptography
- 3.3 Data encryption standards
- 3.4 Overview of Asymmetric key cryptography
- 3.5 The RSA algorithm
- 3.6 Symmetric & Asymmetric key cryptography 3.7 Digital signature

3

SI No.		Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1		16	Symmetric-key algorithm types	3.1		
2	03	17	Overview of Symmetric key cryptography	3.2		
3		18	Overview of Symmetric key cryptography	3.2		
4		19	Data encryption standards	3.3		
5		20	Data encryption standards	3.3		
6	04	21	Overview of Asymmetric key cryptography	3.4		
7		22	Overview of Asymmetric key cryptography	3.4		
8		23	The RSA algorithm	3.5		
9		24	The RSA algorithm	3.5		
10		25	Symmetric & Asymmetric key cryptography	3.6		
11	05	26	Symmetric & Asymmetric key cryptography	3.6		
12		27	Symmetric & Asymmetric key cryptography	3.6		
13		28	Digital signature	3.7		
14		29	Digital signature	3.7		
15		30	Teachers Exam./ Doubt Clear/Revision:	1003	23-04-2022	

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Chapter No: __04__ Chapter Name: Digital certificate & Public key infrastructure

4.1 Digital certificates

4.2 Private key management

4.3 PKIX Model

4.4 Public key cryptography standards

SI	Week	Lecture	Topic to be Covered	Article No.	Date of Completion	Signature
No.	No.	No.	Digital certificates	4.1		
1		31				
2		32	Digital certificates	4.1		
	06	33	Private key management	4.2		
3	00			4.2		
4		34	Private key management			
5	-	35	Private key management	4.2		
	-		Frivate key management	4.2	Hart Charles	
6	Tenan I	36		4.3		
7		37	PKIX Model	4.3		
8		38	Public key cryptography standards	4.4		
			Public key cryptography standards	4.4		
9	07	39	Public key cryptography standards			
10		40	Teachers Exam./ Doubt Clear/Revision:	1004	05-05-2022	

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Detailed Topic Plan:

Chapter No: __05___ Chapter Name: Internet security protocols

- 5.1 Basic concept
- 5.2 Secure socket layer
- 5.3 Transport layer security
- 5.4 Secure Hyper text transfer protocol(SHTTP)
- 5.5 Time stamping protocol (TSP)
- 5.6 Secure electronic transaction (SET)

SI		Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
No.	No.	41	Basic concept	5.1		
2	-	42	Secure socket layer	5.2		
3	08	43	Transport layer security	5.3		
4	- 00	44	Transport layer security	5.3		
5		45	Secure Hyper text transfer protocol(SHTTP)	5.4		t
6	-	46	Secure Hyper text transfer protocol(SHTTP)	5.4		
7		47	Time stamping protocol (TSP)	5.5		
8		48	Time stamping protocol (TSP)	5.5		

7	09	49	Secure electronic transaction (SET)	5.6		
10		50	Teachers Exam./ Doubt Clear/Revision:	1005	17-05-2022	

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Detail	ed	Topic	PI	an:
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Chapter No: __06__ Chapter Name: User authentication

- 6.1 Authentication basics
- 6.2 Password
- 6.3 Authentication Tokens
- 6.4 Certificate based authentication
- 6.5 Biometric authentication

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1	09	51	Authentication basics Password	6.1,6.2		
2	09	52	Authentication Tokens	6.3		
3		53	Certificate based authentication	6.4		
4		54	Biometric authentication	6.5		
5	10	55	Teachers Exam./ Doubt Clear/Revision:	1006	23-05-2022	

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Detailed Topic Plan:

Chapter No: __07__ Chapter Name: Network Security & VPN 7.1 Brief introduction of TCP/IP

7.2 Firewall

7.3 IP Security

7.4 Virtual Private Network (VPN)

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1		56	Brief introduction of TCP/IP	7.1	Compication	
2	BA	57	Firewall	7.2		
3	10	58	IP Security	7.3		
4		59	Virtual Private Network (VPN)	7.4		
5		60	Teachers Exam./ Doubt Clear/Revision:	1007	28-05-2022	

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10) Examination Schedule:

LAC	anniation out		
SI No.	Particulars of Test	Schedule	Туре
1		V/ednesday (4 th Sem.) & Thursday (6 th sem.)	10 Short Questions (02 Marks):
_	Internal Exam1	4 th Week	30 Marks (Long Questions)
	Internal Exam2	8 th Week	30 Marks (Long Questions)

11) Assignment Collection/ Evaluation:

No.	Assignment No.	Content	Schedule
1	Assignment-1	Long Questions 7 Nos.(10 Marks) Short Questions 6 Nos. (5 Marks)	3 rd Week
2	Assignment-2	Long Questions 8 Nos.(10 Marks) Short Questions 6 Nos. (5 Marks)	6 th Week
3	Assignment-3	Long Questions 11 Nos.(10 Marks) Short Questions 8 Nos. (5 Marks)	9 th Week
4	Assignment-4	VST 100 Marks	10 th /11 th Week

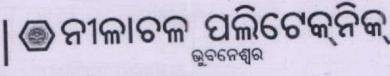
Signature of Faculty

Signature of Asst. HOD

Signature of HOD

Principal 804202L





TEACHING-CUM-LESSON PLAN

1) Subject Code: TH-4

3) Semester: 6TH

5) No. of Classes / Week: 04

6) Pre Requisite for the Subject: NIL

7) Text Book to be referred by students:

2) Subject Title: E-Commerce4) Branch: Computer Science Engg

SI No.	Book	Author	Publication	Year (Edition)	Whether available in Library
i	E-commerce and Mobile Commerce Technology By	U.S Pandey and S Sukla	S.Chand	2007	YES

8) Course Coverage Schedule:

			No. of		Ar	ticle	Expected	Damari
SI No.	Week No.	ek Ch. classes		Topic to be covered	From To		Date of Completion	Remark
i	1	1	04	INTORODUCTION TO E COMMERCE	1.1	1.7,1001	26-03-2022	
ii	2	2	04	BUSINESS MODELS OF E-COMMERCE	2.1	2.4		
iii	3	2	01	BUSINESS MODELS OF E-COMMERCE	2.5	2.6,1002	08-04-2022	
		3	03	B2B E-COMMERCE AND EDI	3.1	3.4		
iv	4	3	04	B2B E-COMMERCE AND EDI	3.5	3.11,1003	20-04-2022	
٧	5	4	04	BUSINESS APPLICATIONS OF E- COMMERCE	4.1	4.8	Mello	
vi	6	4	01	BUSINESS APPLICATIONS OF E- COMMERCE	4.9	4.9,1004	30-04-2022	
		5	03	E-COMMERCE IN TECHNOLOGY	5.1	5.7		
vii	7	5	03	E-COMMERCE IN TECHNOLOGY	5.8	5.13,100	5 09-05-2022	
		6	01	ELECTRONIC PAYMENT SYSTEM	6.1	62		
viii	8	6	04	ELECTRONIC PAYMENT SYSTEM	6.3	6.10		
ix	9	6	01	ELECTRONIC PAYMENT SYSTEM	6.11	6.12,100	06 24-05-2022	2
		7	03	SECURITY ISSUES IN E-COMMERCE	7.1	7.5	THE REAL PROPERTY.	

X	10	7	01	SECURITY ISSUES IN E-COMMERCE	7.6	7.7,1007	29-05-2022
		8	03	CURRENT TRENDS IN ELECTRONIC WORLD	8.1	8.3,1008	03-06-2022
Total:		8	40				

Detail Class wise Plan:

Detailed Topic Plan:

Chapter No: 01

Chapter Name: Intoroduction to E-Commerce

- 1.1 Introduction
- 1.2 what is E-commerce
- 1.3 E-Business
- 1.4 Categories of E-Commerce Applications
- 1.5 Global Trading Environment & Adoption of E-commerce
- 1.6 Comparison between traditional and E-commerce
- 1.7 Advantage and Disadvantage

SI	Week	Lecture	Topic to be Covered	Article No.	Date of Completion	Signature
No.	No.	No.	Table 2	1.1,1.2,1.3		1
1	01	1	Introduction what is E-commerce		FIRE LONG	
			E-Business Categories of E-Commerce	1.4,1.5		
2		2	Applications Global Trading Environment &			
3		3	Comparison between traditional and E-commerce, Advantage and Disadvantage			
4		4(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1001		

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Detailed	Top	ic P	lan:

Chapter No: 02

Chapter Name: Data Business Models of E-Commerce

- 2.1 Introduction
- 2.2 Business Models of E-Commerce
- 2.3 B2C
- 2.4 B2B
- 2.5 Difference between B2C and B2B
- 2.6 C2C

2.0	, 020		The state of the s	Article	Date of	Signature
SI	Week	Lecture	Topic to be Covered		Completion	Signaturo
No.	No.	No.				

1	02	5	Introduction Business Models of E-Commerce	2.1,2.2	ST SWEET
2		6	B2C	2.3	
3		7	B2B	2.4	
4		8	Difference between B2C and B2B	2.5,2.6	
5	03	9(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1002	

REVIEW:	-
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Chapter No: 03 Chapter Name: B2B e-Commerce and EDI

Introduction

- 3.1 Need for B2B
- 3.2 EDI
- 3.3 Paperless Transaction
- 3.4 EDI standards
- 3.5 Data Standards used in EDI
- 3.6 Cost of EDI
- 3.7 Reasons for Slow acceptability
- 3.8 Electronic Fund Transfer (Canada case eliminated)
- 3.9 XML and its application
- 3.10 Comparison of HTML and XML
- 3.11 Advantage of XML as a Technology

SI No.	We ek No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1.	03	10	Introduction Need for B2B	3.1		
2.		11	EDI Paperless Transaction	3.2, 3.3	The sales	
3.		12	EDI standards Data Standards used in EDI Cost of EDI	3.4,3.5, 3.6		
4.	04	13	Reasons for Slow acceptability Electronic Fund Transfer (Canada case eliminated)	3.7,3.8		
5.		14	XML and its application	3.9		
6.		15	Comparison of HTML and XML Advantage of XML as a Technology	3.10,3. 11		
7.		16Last Class)	Teachers Exam./ Doubt Clear/Revision:	1003	Targetti	

REVIEW:-

Detailed Topic Plan:

Chapter No: 04

Chapter Name: Business Applications of E-Commerce

Introduction

- 4.1 Trade Cycle
- 4.2 Supply Chain
- 4.3 E-Procurement
- 4.4 Implementing E-Procurement
- 4.5 Competitive Advantage
- 4.6 E-Commerce Application in Manufacturing
- 4.7 E-Commerce Application in Wholesale
- 4.8 E-Commerce Application in Retail
- 4.9 E-Commerce Application in Service Sector

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1	05	17	Introduction Trade Cycle Supply Chain E-Procurement	4.1,4.2,		
2		18	Implementing E-Procurement Competitive Advantage	4.4,4.5		
		19	E-Commerce Application in Manufacturing E-Commerce Application in Wholesale	4.6,4.7		
		20	E-Commerce Application in Retail E-Commerce Application in	4.8,4.9		
3	06	21(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1004		

REVIEW:-		

Detailed Topic Plan:

Chapter No: 05

Chapter Name: E-Commerce Technology

- 5.1 Introduction
- 5.2 IT infrastructure
- 5.3 Internet
- 5.4 Middleware
- 5.5 Intranet
- 5.6 Extranet
- 5.7 VPN
- 5.8 Firewall
- 5.9 Cryptography
- 5.10 Digital Signature

5.11 Digital Envelope 5.12 Digital certificates

5.13 Contents

SI		Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
No.	No.		Introduction	5.1, 5.2, 5.3		
1	06	22	T infrastructure			
2		23	Middleware ntranet Extranet	5.4,5.5,5.6,5.7		
			VPN	F 0 F 0		
3		24	Firewall Cryptography	5.8,5.9		
4	07	25	Digital Signature Digital Envelope	5.10,5.11		
5		26	Digital certificates Contentss	5.12,5.13		
6		27(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1005		

REVIEW:-

Detailed Topic Plan:

Chapter No: 06

Chapter Name: Electronic Payment System

6.1 Introduction

6.2 Electronic Payment Mechanism

6.3 Types of Payment System 6.4 Risks Associated with Electronic Payment

6.5 Risk Management option

6.6 Payment Gateway

6.7 Issues of Electronic Payment Technology

6.8 Recommendations

6.9 Internet Banking

6.10 Security Requirement 6.11 Secure Socket Layer

6.12 Biometrics

SI	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1	07	28	Introduction Electronic Payment Mechanism	6.1,6.2	A SSM Yaley	
2	08	29	Types of Payment System Risks Associated with Electronic Payment	6.3,6.4	Alexander of the second	
3	E ALL	30	Risk Management option Payment Gateway Issues of Electronic Payment Technology Recommendations	6.5,6.6,6.7,6.8		c
4		31	Internet Banking Security Requirement	6.9,6.10		
5		32	Secure Socket Layer	6.11,6.12		

	1	Biometrics		
6	09	Teachers Exam./ Doubt Clear/Revision:	1005	

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Chapter No: 07

Chapter Name: Security Issues in E-Commerce

- 7.1 Introduction
- 7.2 E-commerce security issues
- 7.3 Risks involved in e-commerce
- 7.4 Protecting e-commerce system
- 7.5 Common E-commerce Security Tools
- 7.6 Client server Network security 7.7 Data and Message Security

SI	Week	Lecture	Topic to be Covered	No.	Date of Completion	Signature
No.	No.	No.	1 1 1 1 1	7.1,7.2		
1	09	34	Introduction E-commerce security issues			
2		35	Risks involved in e-commerce Protecting e-commerce system Common E-commerce Security Tools	7.3,7.4,7.5		
3		36	Client server Network security Data and Message security	7.6,7.7		
4	10	37(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1007		

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Detailed Topic Plan:

Chapter No: 08

Chapter Name: Current Trends in Electronic World

- 8.1 E-waste
- 8.2 E-Surveillance
- 8.3 E-governance

SI No.	The second second	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1	09	38	E-waste	8.1		
2		39	E-Surveillance E-governance	8.2,8.3		

4	10	40(Last	Teachers Exam./ Doubt Clear/Revision:	1008		
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10) Examination Schedule:

SI No.	Particulars of Test	Schedule	Туре
1	Weekly Test (2 nd Week onwards)	Wednesday (4 th Sem.) & Thursday (6 th sem.)	10 Short Questions (02 Marks):
	Internal Exam1	20 Marks (Long Questi	
3	Internal Exam2	8 th Week	30 Marks (Long Questions)

11) Assignment Collection/ Evaluation:

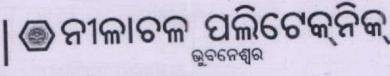
SI No.	Assignment No.	Content	Schedule
1	Assignment-1	Long Questions 7 Nos.(10 Marks) Short Questions 6 Nos. (5 Marks)	3 rd Week
2	Assignment-2	Long Questions 8 Nos.(10 Marks) Short Questions 6 Nos. (5 Marks)	6 th Week
3	Assignment-3	Long Questions 11 Nos.(10 Marks) Short Questions 8 Nos. (5 Marks)	9 th Week
4	Assignment-4	VST 100 Marks	10 th /11 th Week

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Signature of HOD

Principal





TEACHING-CUM-LESSON PLAN

1) Subject Code: TH-4

3) Semester: 6TH

5) No. of Classes / Week: 04

6) Pre Requisite for the Subject: NIL

7) Text Book to be referred by students:

2) Subject Title: E-Commerce4) Branch: Computer Science Engg

SI No.	Book	Author	Publication	Year (Edition)	Whether available in Library
i	E-commerce and Mobile Commerce Technology By	U.S Pandey and S Sukla	S.Chand	2007	YES

8) Course Coverage Schedule:

			No. of			ticle	Expected Date of	Damari
SI No.	Week No.	Week Ch. c		ses Topic to be covered		From To		Remark
i	1	1	04	INTORODUCTION TO E COMMERCE	1.1	1.7,1001	26-03-2022	
ii	2	2	04	BUSINESS MODELS OF E-COMMERCE	2.1	2.4		
iii	3	2	01	BUSINESS MODELS OF E-COMMERCE	2.5	2.6,1002	08-04-2022	
		3	03	B2B E-COMMERCE AND EDI	3.1	3.4		
iv	4	3	04	B2B E-COMMERCE AND EDI	3.5	3.11,1003	20-04-2022	
٧	5	4	04	BUSINESS APPLICATIONS OF E- COMMERCE	4.1	4.8	Mello	
vi	6	4	01	BUSINESS APPLICATIONS OF E- COMMERCE	4.9	4.9,1004	30-04-2022	
		5	03	E-COMMERCE IN TECHNOLOGY	5.1	5.7		
vii	7	5	03	E-COMMERCE IN TECHNOLOGY	5.8	5.13,100	5 09-05-2022	
		6	01	ELECTRONIC PAYMENT SYSTEM	6.1	62		
viii	8	6	04	ELECTRONIC PAYMENT SYSTEM	6.3	6.10		
ix	9	6	01	ELECTRONIC PAYMENT SYSTEM	6.11	6.12,100	06 24-05-2022	2
		7	03	SECURITY ISSUES IN E-COMMERCE	7.1	7.5	THE REAL PROPERTY.	

X	10	7	01	SECURITY ISSUES IN E-COMMERCE	7.6	7.7,1007	29-05-2022
		8	03	CURRENT TRENDS IN ELECTRONIC WORLD	8.1	8.3,1008	03-06-2022
Total:		8	40				

Detail Class wise Plan:

Detailed Topic Plan:

Chapter No: 01

Chapter Name: Intoroduction to E-Commerce

- 1.1 Introduction
- 1.2 what is E-commerce
- 1.3 E-Business
- 1.4 Categories of E-Commerce Applications
- 1.5 Global Trading Environment & Adoption of E-commerce
- 1.6 Comparison between traditional and E-commerce
- 1.7 Advantage and Disadvantage

SI	Week	Lecture	Topic to be Covered	Article No.	Date of Completion	Signature
No.	No.	No.	Table 2	1.1,1.2,1.3		1
1	01	1	Introduction what is E-commerce		FIRE LONG	
			E-Business Categories of E-Commerce	1.4,1.5		
2		2	Applications Global Trading Environment &			
3		3	Comparison between traditional and E-commerce, Advantage and Disadvantage			
4		4(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1001		

REVIEW:-

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Detailed	Top	ic P	lan:

Chapter No: 02

Chapter Name: Data Business Models of E-Commerce

- 2.1 Introduction
- 2.2 Business Models of E-Commerce
- 2.3 B2C
- 2.4 B2B
- 2.5 Difference between B2C and B2B
- 2.6 C2C

2.0	, 020		The state of the s	Article	Date of	Signature
SI	Week	Lecture	Topic to be Covered		Completion	Signaturo
No.	No.	No.				

1	02	5	Introduction Business Models of E-Commerce	2.1,2.2	ST SWEET
2		6	B2C	2.3	
3		7	B2B	2.4	
4		8	Difference between B2C and B2B	2.5,2.6	
5	03	9(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1002	

REVIEW:	-
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Chapter No: 03 Chapter Name: B2B e-Commerce and EDI

Introduction

- 3.1 Need for B2B
- 3.2 EDI
- 3.3 Paperless Transaction
- 3.4 EDI standards
- 3.5 Data Standards used in EDI
- 3.6 Cost of EDI
- 3.7 Reasons for Slow acceptability
- 3.8 Electronic Fund Transfer (Canada case eliminated)
- 3.9 XML and its application
- 3.10 Comparison of HTML and XML
- 3.11 Advantage of XML as a Technology

SI No.	We ek No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1.	03	10	Introduction Need for B2B	3.1		
2.		11	EDI Paperless Transaction	3.2, 3.3	The sales	
3.		12	EDI standards Data Standards used in EDI Cost of EDI	3.4,3.5, 3.6		
4.	04	13	Reasons for Slow acceptability Electronic Fund Transfer (Canada case eliminated)	3.7,3.8		
5.		14	XML and its application	3.9		
6.		15	Comparison of HTML and XML Advantage of XML as a Technology	3.10,3. 11		
7.		16Last Class)	Teachers Exam./ Doubt Clear/Revision:	1003	Targetti	

REVIEW:-

Detailed Topic Plan:

Chapter No: 04

Chapter Name: Business Applications of E-Commerce

Introduction

- 4.1 Trade Cycle
- 4.2 Supply Chain
- 4.3 E-Procurement
- 4.4 Implementing E-Procurement
- 4.5 Competitive Advantage
- 4.6 E-Commerce Application in Manufacturing
- 4.7 E-Commerce Application in Wholesale
- 4.8 E-Commerce Application in Retail
- 4.9 E-Commerce Application in Service Sector

SI No.	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1	05	17	Introduction Trade Cycle Supply Chain E-Procurement	4.1,4.2,		
2		18	Implementing E-Procurement Competitive Advantage	4.4,4.5		
		19	E-Commerce Application in Manufacturing E-Commerce Application in Wholesale	4.6,4.7		
		20	E-Commerce Application in Retail E-Commerce Application in	4.8,4.9		
3	06	21(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1004		

REVIEW:-		

Detailed Topic Plan:

Chapter No: 05

Chapter Name: E-Commerce Technology

- 5.1 Introduction
- 5.2 IT infrastructure
- 5.3 Internet
- 5.4 Middleware
- 5.5 Intranet
- 5.6 Extranet
- 5.7 VPN
- 5.8 Firewall
- 5.9 Cryptography
- 5.10 Digital Signature

5.11 Digital Envelope 5.12 Digital certificates

5.13 Contents

SI		Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
No.	No.		Introduction	5.1, 5.2, 5.3		
1	06	22	T infrastructure			
2		23	Middleware ntranet Extranet	5.4,5.5,5.6,5.7		
			VPN	F 0 F 0		
3		24	Firewall Cryptography	5.8,5.9		
4	07	25	Digital Signature Digital Envelope	5.10,5.11		
5		26	Digital certificates Contentss	5.12,5.13		
6		27(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1005		

REVIEW:-

Detailed Topic Plan:

Chapter No: 06

Chapter Name: Electronic Payment System

6.1 Introduction

6.2 Electronic Payment Mechanism

6.3 Types of Payment System 6.4 Risks Associated with Electronic Payment

6.5 Risk Management option

6.6 Payment Gateway

6.7 Issues of Electronic Payment Technology

6.8 Recommendations

6.9 Internet Banking

6.10 Security Requirement 6.11 Secure Socket Layer

6.12 Biometrics

SI	Week No.	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1	07	28	Introduction Electronic Payment Mechanism	6.1,6.2	A SSM Yaley	
2	08	29	Types of Payment System Risks Associated with Electronic Payment	6.3,6.4	Alexander of the second	
3	E ALL	30	Risk Management option Payment Gateway Issues of Electronic Payment Technology Recommendations	6.5,6.6,6.7,6.8		c
4		31	Internet Banking Security Requirement	6.9,6.10		
5		32	Secure Socket Layer	6.11,6.12		

	1	Biometrics		
6	09	Teachers Exam./ Doubt Clear/Revision:	1005	

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Chapter No: 07

Chapter Name: Security Issues in E-Commerce

- 7.1 Introduction
- 7.2 E-commerce security issues
- 7.3 Risks involved in e-commerce
- 7.4 Protecting e-commerce system
- 7.5 Common E-commerce Security Tools
- 7.6 Client server Network security 7.7 Data and Message Security

SI	Week	Lecture	Topic to be Covered	No.	Date of Completion	Signature
No.	No.	No.	1 1 1 1 1	7.1,7.2		
1	09	34	Introduction E-commerce security issues			
2		35	Risks involved in e-commerce Protecting e-commerce system Common E-commerce Security Tools	7.3,7.4,7.5		
3		36	Client server Network security Data and Message security	7.6,7.7		
4	10	37(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1007		

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Detailed Topic Plan:

Chapter No: 08

Chapter Name: Current Trends in Electronic World

- 8.1 E-waste
- 8.2 E-Surveillance
- 8.3 E-governance

SI No.	To the second second	Lecture No.	Topic to be Covered	Article No.	Date of Completion	Signature
1	09	38	E-waste	8.1		
2		39	E-Surveillance E-governance	8.2,8.3		

4	10	40(Last Class)	Teachers Exam./ Doubt Clear/Revision:	1008		
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10) Examination Schedule:

SI No.	Particulars of Test	Schedule	Туре	
1	Weekly Test (2 nd Week onwards)	Wednesday (4 th Sem.) & Thursday (6 th sem.)	10 Short Questions (02 Marks):	
	Internal Exam1	4 th Week	30 Marks (Long Questions)	
3	Internal Exam2	8 th Week	30 Marks (Long Questions)	

11) Assignment Collection/ Evaluation:

SI No.	Assignment No.	Content	Schedule
1	Assignment-1	Long Questions 7 Nos.(10 Marks) Short Questions 6 Nos. (5 Marks)	3 rd Week
2	Assignment-2	Long Questions 8 Nos.(10 Marks) Short Questions 6 Nos. (5 Marks)	6 th Week
3	Assignment-3	Long Questions 11 Nos.(10 Marks) Short Questions 8 Nos. (5 Marks)	9 th Week
4	Assignment-4	VST 100 Marks	10 th /11 th Week

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Signature of HOD

Principal