

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK 9
DEPARTMENT OF INFORMATION TECHNOLOGY
LESSON PLAN

Discipline: IT	Semester: 6th	No. Of Period available	Name of the Teaching Faculty: Bhabodeepika Mohanty (PTGF)
Subject: CNS	No. Of Days/per week class allotted: 4 periods per week Mon, Tue, Wed, Thu		From Date: 16-01-2024 To Date: 26-04-2024 No. Of Weeks: 15weeks
Week	Class Date		Topics to be covered
1st	16.01.2024	1	Syllabus Discussion
	17.01.2024	1	Introduction
	18.01.2024	1	1. Possible attacks on Computers Introduction
2nd	22.01.2024	1	1.1 The need for security
	24.01.2024	1	1.2 Security approach
	25.01.2024	1	1.2 Security approach
3rd	29.01.2024	1	1.3 Principles of security
	30.01.2024	1	1.3 Principles of security
	31.01.2024	1	1.4 Types of attacks
	01.02.2024		1.4 Types of attacks
	05.02.2024	1	2.Cryptography Concepts
	06.02.2024	1	2.1 Plain text & Cipher Text
	07.02.2024	1	2.2 Substitution techniques
	08.02.2024	1	2.2 Substitution techniques
4th	12.02.2024	1	2.2 Substitution techniques
	13.02.2024	1	2.3 Transposition techniques
	15.02.2024	1	2.3 Transposition techniques
5th	19.02.2024	1	2.3 Transposition techniques
	20.02.2024	1	2.4 Encryption & Decryption
	21.02.2024	1	2.5 Symmetric & Asymmetric key Cryptography
	22.02.2024	1	2.5 Symmetric & Asymmetric key Cryptography
6th	26.02.2024	1	Assignment 1 Cum Doubt Clearing

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	27.02.2024	1	3.Symmetric & Asymmetric key algorithms 3.1 Symmetric key algorithm types
	28.02.2024	1	3.1 Symmetric key algorithm types
	29.02.2024	1	3.2 Overview of Symmetric key cryptography
7th	04.03.2024	1	3.2 Overview of Symmetric key cryptography
	06.03.2024	1	3.3 Data encryption standards
	07.03.2024	1	3.3 Data encryption standards
8th	11.03.2024	1	3.4 Over view of Asymmetric key cryptography
	12.03.2024	1	3.4 Over view of Asymmetric key cryptography
	13.03.2024	1	3.5 The RSA algorithm
	14.03.2024	1	3.6 Symmetric & Asymmetric key cryptography
9th	18.03.2024	1	3.6 Symmetric & Asymmetric key cryptography
	19.03.2024	1	3.7 Digital signature
	20.03.2024	1	Class Test 1
	21.03.2024	1	4.Digital certificate & Public key infrastructure 4.1 Digital certificates
10th	27.03.2024	1	4.2 Private key management
	28.03.2024	1	4.3 PKIX Model
11th	01.04.2024	1	4.4 Public key cryptography standards
	02.04.2024	1	Internal Test
	03.04.2024	1	Internal Test
	04.04.2024	1	5.Internet security protocols 5.1 Basic concept 5.2 Secure socket layer
12th	08.04.2024	1	5.3 Transport layer security
	09.04.2024	1	5.4 Secure Hyper text transfer protocol(SHHTTP) 5.6 Secure electronic transaction (SET)
	10.04.2024	1	6.User authentication 6.1 Authentication basics 6.2 Password

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13th	15.04.2024	1	Assignment 2 Cum Doubt Clearing
	16.04.2024	1	Class Test 2
	18.04.2024	1	6.3 Authentication Tokens 6.4 Certificate based authentication
	22.04.2024	1	6.5 Biometric authentication
14th	23.04.2024	1	7.Network Security & VPN 7.1 Brief introduction of TCP/IP
	24.04.2024	1	7.2 Firewall
	25.04.2024	1	7.3 IP Security
		1	7.4 Virtual Private Network (VPN)
		1	REVISION AND PERVIOUS YEAR QUESTION DISCUSSION
		1	REVISION AND PERVIOUS YEAR QUESTION DISCUSSION