

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

Discipline:	Semester:	No. Of Period available	Name of the Teaching Faculty:
IT	6th		
Subject:	No. Of Days/per week class allotted: 4 periods per week Mon, Tue, Wed, Thu		From Date: 14-02-2023 To Date: 23-05-2023 No. Of Weeks: 15weeks
CNS			
Week	Class Date		Topics to be covered
1st	14.02.2023	1	<b>1. Possible attacks on Computers</b> Introduction
	15.02.2023	1	1.1 The need for security
	16.02.2023	1	1.2 Security approach
2nd	20.02.2023	1	1.3 Principles of security
	21.02.2023	1	1.4 Types of attacks
	22.02.2023	1	1.4 Types of attacks
	23.02.2023	1	<b>2.Cryptography Concepts</b> 2.1 Plain text & Cipher Text
3rd	27.02.2023	1	2.2 Substitution techniques
	28.02.2023	1	2.2 Substitution techniques
	01.03.2023	1	2.2 Substitution techniques
	02.03.2023	1	2.3 Transposition techniques
4th	06.03.2023	1	2.3 Transposition techniques
	09.03.2023	1	2.4 Encryption & Decryption
5th	13.03.2023	1	2.5 Symmetric & Asymmetric key Cryptography
	14.03.2023	1	2.5 Symmetric & Asymmetric key Cryptography
	15.03.2023	1	<b>Assignment 1 Cum Doubt Clearing</b>
	16.03.2023	1	<b>3.Symmetric &amp; Asymmetric key algorithms</b> 3.1 Symmetric key algorithm types
6th	20.03.2023	1	3.1 Symmetric key algorithm types
	21.03.2023	1	3.2 Overview of Symmetric key cryptography

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7th	27.03.2023	1	3.3 Data encryption standards
	28.03.2023	1	3.3 Data encryption standards
	29.03.2023	1	3.4 Over view of Asymmetric key cryptography
8th	03.04.2023	1	3.4 Over view of Asymmetric key cryptography
	04.04.2023	1	3.5 The RSA algorithm
	05.04.2023	1	3.6 Symmetric & Asymmetric key cryptography
	06.04.2023	1	3.6 Symmetric & Asymmetric key cryptography
9th	10.04.2023	1	3.7 Digital signature
	11.04.2023	1	<b>Class Test 1</b>
	12.04.2023	1	<b>4.Digital certificate &amp; Public key infrastructure</b> 4.1 Digital certificates
	13.04.2023	1	4.1 Digital certificates
10th	17.04.2023	1	4.2 Private key management
	18.04.2023	1	4.3 PKIX Model
	19.04.2023	1	4.3 PKIX Model
	20.04.2023	1	4.4 Public key cryptography standards
11th	24.04.2023	1	4.4 Public key cryptography standards
	25.04.2023	1	<b>Internal Test</b>
	26.04.2023	1	<b>Internal Test</b>
	27.04.2023	1	<b>Internal Test</b>
12th	01.05.2023	1	<b>5.Internet security protocols</b> 5.1 Basic concept
	02.05.2023	1	5.2 Secure socket layer
	03.05.2023	1	5.2 Secure socket layer
	04.05.2023	1	5.3 Transport layer security
	08.05.2023	1	5.3 Transport layer security

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14th	15.05.2023	1	<b>6.User authentication</b> 6.1 Authentication basics 6.2 Password
	16.05.2023	1	6.3 Authentication Tokens
	17.05.2023	1	6.4 Certificate based authentication
	18.05.2023	1	6.5 Biometric authentication
15th	22.05.2023	1	<b>7.Network Security &amp; VPN</b> 7.1 Brief introduction of TCP/IP
	23.05.2023	1	7.2 Firewall
			7.3 IP Security
			7.4 Virtual Private Network (VPN)
			<b>REVISION AND PERVIOUS YEAR QUESTION DISCUSSION</b>
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