BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
LESSON PLAN

Discipline: CSE	Semester: 4th		Name of the Teaching Faculty: D.Susmita
Subject: CNS	No. Of Days/per week class allotted: 4 periods per week (Mon,Tue,Wed,Fri)	No. Of period available	From Date 10--03-20 To Date: 10-06-2022 No. Of Weeks: 14 weeks
WEEK	**CLASS DAY**		**Topics to be covered**
1st	11.03.22	1	**1. Possible attacks on Computers** 1.1 The need for security
2nd	14.03.22	1	1.2 Security approach
	15.03.22	1	1.3 Principles of security
			1.4 Types of attacks
3rd	21.03.22	1	1.4 Types of attacks Cont...
	22.03.22	1	**2.Cryptography Concepts** 2.1 Plain text & Cipher Text 2.2 Substitution techniques
	23.03.22	1	2.2 Substitution techniques Cont...
	25.03.22	1	2.2 Substitution techniques Cont...
4th	28.03.22	1	2.3 Transposition techniques
	29.03.22	1	2.3 Transposition techniques Cont...
	30.03.22	1	2.4 Encryption & Decryption
5th	04.04.22	1	2.5 Symmetric & Asymmetric key cryptography
	05.04.22	1	**Assignment 1 cum Doubt Clearing**
	06.04.22	1	**Class Test 1**
	08.04.22	1	**3.Symmetric & Asymmetric key algorithms** 3.1 Symmetric key algorithm types
6th	11.04.22	1	3.2 Overview of Symmetric key cryptography
	12.04.22	1	3.3 Data encryption standards
	13.04.22	1	3.4 Over view of Asymmetric key cryptography

7th	18.04.22	1	3.5 The RSA algorithm
	19.04.22	1	3.6 Symmetric & Asymmetric key cryptography
	20.04.22	1	3.7 Digital signature
	22.04.22	1	**Assignment 2 cum Doubt Clearing**
8th	25.04.22	1	**4. Digital certificate & Public key infrastructure** 4.1 Digital certificates
	26.04.22	1	4.2 Private key management
	27.04.22	1	**Class Test 2**
	29.04.22	1	4.3 PKIX Model
9th	02.05.22	1	4.4Public key cryptography standards
	04.05.22	1	**5.Internet security protocols** 5.1 Basic concept
	06.05.22	1	**Assignment 3 cum Doubt Clearing**
10th	09.05.22	1	5.2 Secure socket layer
	10.05.22	1	**INTERNAL TEST**
	11.05.22	1	**INTERNAL TEST**
	13.05.22	1	5.3 Transport layer security
11th	17.05.22	1	5.4 Secure Hyper text transfer protocol(SHTTP)
	18.05.22	1	5.5 Time stamping protocol (TSP)
	20.05.22	1	5.6 Secure electronic transaction (SET)
12th	23.05.22	1	**Class Test 3**
	24.05.22	1	**6.User authentication** 6.1 Authentication basics
	25.05.22	1	6.2 Password
	27.05.22	1	6.3 Authentication Tokens

13th	31.05.22	1	6.4 Certificate based authentication
	01.06.22	1	6.5 Biometric authentication
	03.06.22	1	**7.Network Security & VPN** 7.1 Brief introduction of TCP/IP
14th	06.06.22	1	7.3 IP Security 7.4 Virtual Private Network (VPN) Assignment based on above
	07.06.22	1	**Assignment 4 cum Doubt Clearing**
	08.06.22	1	**REVISON CLASS**
	10.06.22	1	**REVISION AND PERVIOUS YEAR QUESTION DISCUSSION**