KIITPOLYTECHNIC, BHUBANESWAR

LESSONPLAN Session(2022-2023)

Discipline: Computer	Semester:6 th ,Summer/2023	NameoftheFaculty:
Science and Engineering		Swagatika Dalai
		Lecturer
		EmailID: sdalaifcs@kp.kiit.ac.in
Subject: Cryptography	No. of Days/week:04	Start Date:13/02/2023
&Network Security		End Date:23/05/2023
Theory-1		

Week	Class Day	Theory Topics
1st	1st	Introduction To CNS
	2nd	The need for security
	3rd	Security approach
	4th	Principles of security
2nd	1st	Types of attacks
	2nd	Revision
	3rd	Plaintext &Cipher Text
	4th	Substitution techniques
3rd	1st	Substitution techniques contd
	2nd	Transposition techniques
	3dr	Transposition techniques contd
	4th	Encryption & Decryption
4th	1st	Symmetric key cryptography
	2nd	Asymmetric key cryptography
	3dr	Revision
	4th	Quiz Test

5th	1st	Symmetric key algorithm types	
	2nd	Overview of Symmetric key cryptography	
	3rd	Data encryption standards	
	4th	Data encryption standards contd	
	1st	Overview of Asymmetric key cryptography	
	2nd	Asymmetric key cryptography contd	
6th	3rd	The RSA algorithm	
	4th	The RSA algorithm contd	
7th	1st	Symmetric &Asymmetric key cryptography	
	2nd	Symmetric &Asymmetric key cryptography contd	
	3rd	Digital signature	
	4th	Digital signature contd	
8th	1st	Question answer discussion	
	2nd	Digital certificates	
	3rd	Digital certificates contd	
	4th	Digital certificates contd	
9th	1st	Private key management	
	2nd	Private key management contd	
	3rd	PKIX Model	
	4th	PKIX Model contd	
10th	1st	Public key cryptography standards	
	2nd	Public key cryptography standards contd	
	3rd	Revision	
	4th	Basic concepts of Internet security protocols	
11th	1st	Secure socket layer	
	2nd	Secure socket layer contd	
	3rd	Transport layer security	
	4th	Secure Hypertext transfer protocol(SHTTP)	
12th	1st	Secure Hypertext transfer protocol(SHTTP)contd	
	2nd	Time stamping protocol(TSP)	
	3rd	Secure electronic transaction(SET)	
	4th	Quiz Test	
13th	1st	Authentication basics, Password	
	2nd	Authentication Tokens	
	3rd	Certificate based authentication	

	4th	Biometric authentication
14th	1st	Question Answer Discussion
	2nd	Brief introduction of TCP/IP
	3rd	Firewall
	4th	IP Security
15th	1st	IP Security contd
	2nd	Virtual Private Network(VPN)
	3rd	Virtual Private Network(VPN)contd
	4th	Discussion of previous year questions