

Academic Lesson Plan of Summer 2023

Department : CSE	Semester : 6TH	Name of the Teaching Faculty : SOMYASHREE SAMAL
Subject : CRYPTOGRAPHY & NETWORK SECURITY	No. of Days/per week class allotted : 4Period/week	Semester from : 15TH FEBRUARY 2023
		No of Weeks : 15 Weeks
		Topic to be covered :
WEEK	DAYS	TOPIC
1st Week	1st	The need for Security
	2nd	Continue
	3rd	Security Approach
	4th	Continue
2nd Week	1st	Principles of Security
	2nd	Continue
	3rd	Types of Attacks
	4th	Continue
3rd Week	1st	Cryptography Concepts Plain Text & Cipher Text
	2nd	Substitution techniques
	3rd	Continue
	4th	Transposition Techniques
4th Week	1st	Encryption & Decryption
	2nd	Continue
	3rd	Symmetric & Asymmetric Key Cryptography
	4th	Continue
5th Week	1st	Symmetric Key Algorithm types
	2nd	Continue
	3rd	Overview of Symmetric Key Cryptography
	4th	Continue
6th Week	1st	Data Encryption Standards
	2nd	Continue
	3rd	The RSA Algorithm
	4th	Continue
7th Week	1st	Symmetric & Asymmetric Key Cryptography
	2nd	Continue
	3rd	Digital Signature
	4th	Continue
	1st	Digital Certificates

WEEK	DAYS	TOPIC
8th Week	2nd	Continue
	3rd	Continue
	4th	Private Key Management
9th Week	1st	PKIX Model
	2nd	Continue
	3rd	Public Key Cryptography Standards
	4th	Continue
10th Week	1st	Basic Concept
	2nd	Secure Socket Layer
	3rd	Continue
	4th	Transport Layer Security
11th Week	1st	Secure Hyper Text transfer Protocol (SHTTP)
	2nd	Time Stamping Protocol (TSP)
	3rd	Secure Electronic Transaction (SET)
	4th	Continue
12th Week	1st	Authentication basics
	2nd	Continue
	3rd	Password
	4th	Continue
13th Week	1st	Authentication Tokens
	2nd	Certificate Based Authentication
	3rd	Continue
	4th	Biometric Authentication
14th Week	1st	Revision
	2nd	Brief Introduction of TCP/IP
	3rd	Continue
	4th	Firewall
15th Week	1st	Continue
	2nd	IP Security
	3rd	Virtual private Network (VPN)
	4th	Revision & Semester Question Answer Discussion

S. Samal

Signature of the faculty

42/02/23

Signature of the Principal