Academic Lesson Plan of Summer 2024

Discipline: Information Technology	Semester : 6th	Name of the Teaching faculty: Archana Tripathy
Subject :	No.of Days/per week class allotted : 04	Semester from date : 16/01/2024 to 26/04/2024
CRYPTOGRAPHY AND NETWORK SECURITY	Class Day	No. of weeks : 15

	Class Day	Theory / Practical Topics
January 3rd	16-01-2024	The need for security
	19-01-2024	Continue
	20-01-2024	Security approach
January 4th	22-01-2024	Continue
	27-01-2024	Principles of security
January 5th	29-01-2024	Types of attacks
	30-01-2024	REVISION
	31-01-2024	Cryptography concepts ,Plain text & Cipher Text
February 1st	02-02-2024	Substitution techniques
	03-02-2024	Continue
February 2nd	05-02-2024	Transposition techniques
	06-02-2024	Continue
	09-02-2024	Encryption & Decryption
	10-02-2024	Symmetric & Asymmetric key cryptography
February 3rd	12-02-2024	Continue
	13-02-2024	REVISION
	16-02-2024	Symmetric key algorithm types
	17-02-2024	Overview of Symmetric key cryptography
February 4th	19-02-2024	Continue
	20-02-2024	Data encryption standards
	23-02-2024	The RSA algorithm
	24-02-2024	Continue
February 5th	26-02-2024	Symmetric & Asymmetric key cryptography
	27-02-2024	Digital signature
March 1st	01-03-2024	Continue
	04-03-2024	REVISION
March 2nd	08-03-2024	Digital certificates
	09-03-2024	Continue
	11-03-2024	Private key management,PKIX Model
March 3rd	12-03-2024	Public key cryptography standards
	15-03-2024	Continue
	16-03-2024	REVISION
	18-03-2024	Basic concept of Secure socket layer
March 4th	19-03-2024	Secure Socket layer
	22-03-2024	Continue
	23-03-2024	Transport layer security,Secure Hyper text transfer protocol(SHTTP),Time stamping protocol (TSP)
March 5th	30-03-2024	Transport layer security,Secure Hyper text transfer protocol(SHTTP),Time stamping protocol (TSP)
	02-04-2024	Secure electronic transaction (SET)
April 1st	05-04-2024	Continue
	06-04-2024	REVISION
	08-04-2024	Authentication basics,Password
April 2nd	09-04-2024	Authentication Tokens
	12-04-2024	Certificate based authentication
	13-04-2024	Biometric authentication,REVISION
	15-04-2024	Brief introduction of TCP/IP
April 3rd	16-04-2024	Firewall
	19-04-2024	Continue
	20-04-2024	IP Security,Virtual Private Network (VPN)
	22-04-2024	Virtual Private Network (VPN)
April 4th	23-04-2024	Continue
	26-04-2024	REVISION & Semester Question Answer Discussion

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