

**Academic Lesson Plan of Summer 2022-23**

**Department of Information Technology**

**Subject:CRYPTOGRAPHY & NETWORK SECURITY**

Department : Information Technology			Semester : 4th	Name of the teaching faculty: Archana Tripathy
Month	Date	WEEK	Periods	Semester from :10.03.22 to 10.6.22
				No.of Periods/Week-05
				No. of Weeks:15 Weeks
				Total periods-60
				Topics to be covered:
<b>MARCH</b>	11.03.22	<b>1ST</b>	1	The need for security
	12.03.22		2	Continue
	14.03.22		3	Security approach
	15.03.22		4	Continue
	17.03.22	<b>2ND</b>	5	Principles of security
	21.03.22		6	Types of attacks
	22.03.22	<b>3RD</b>	7	Continue
	24.03.22		8	REVISION
	25.03.23		9	Cryptography concepts ,Plain text & Cipher Text
	26.03.22		10	Substitution techniques
	28.03.22		11	Continue
	29.03.22		12	Transposition techniques
	31.03.22		13	Continue
<b>Total classes in MARCH</b>			<b>13</b>	
<b>APRIL</b>	2.04.22	<b>4TH</b>	1	Encryption & Decryption
	4.04.22		2	Symmetric & Asymmetric key cryptography
	5.04.22		3	Continue
	8.04.22		4	REVISION
	9.04.22	<b>5TH</b>	5	Symmetric key algorithm types
	11.04.22		6	Overview of Symmetric key cryptography
	12.04.22		7	Continue
	16.04.22	<b>6TH</b>	8	3.3 Data encryption standards
	18.04.22		9	3.5 The RSA algorithm
	19.04.22		10	Continue
	22.04.22		11	Symmetric & Asymmetric key cryptography
	23.04.22	<b>7TH</b>	12	Digital signature
	25.04.22		13	Continue
	26.04.22	<b>8TH</b>	14	REVISION
	29.04.22		15	Digital certificates
	30.04.22		16	Continue
<b>Total Classes in APRIL</b>			<b>16</b>	
	2.05.22	<b>9TH</b>	1	Private key management
	5.05.22		2	PKIX Model
	6.05.22		3	Continue
	7.05.22		4	Public key cryptography standards
	9.05.22		5	Continue

<b>MAY</b>	10.05.23	<b>10TH</b>	6	REVISION
	12.05.23		7	Basic concept of Secure socket layer
	13.05.22		8	Secure socket layer
	14.05.22		9	Continue
	17.05.22	<b>11TH</b>	10	Transport layer security
	19.05.22		11	Continue
	20.05.22		12	Secure Hyper text transfer protocol(SHTTP)
	21.05.22		13	Time stamping protocol (TSP)
	23.05.22	<b>12TH</b>	14	Secure electronic transaction (SET)
	24.05.22		15	Continue
	26.05.22		16	REVISION
	27.05.23		17	Authentication basics
	28.05.22		18	Continue
	31.05.24		19	Password
<b>Total Classes in MAY</b>			<b>19</b>	
	2.06.23		1	Authentication Tokens
	3.06.22		2	Certificate based authentication
	4.06.22		3	Continue
	6.06.22		4	Biometric authentication
	7.06.22		5	REVISION
	9.06.22	<b>14TH</b>	6	Brief introduction of TCP/IP
	10.06.23		7	Continue
	11.06.22		8	Firewall
	13.06.22	<b>15TH</b>	9	Continue
	16.06.22		10	IP Security
	17.06.22		11	Virtual Private Network (VPN)
	18.06.22		12	Continue
<b>Total class in JUNE</b>			<b>12</b>	<b>REVISION &amp; Semester Question Answer Discussion</b>

Signature of Academic Co-ordinator

Signature of Sr.Lecturer(I/C)