

**Academic Lesson**

Department : Information Technology	Semester : 6th
<b>Subject: Cryptography &amp; Network Security</b>	<b>No.of days/per week class allotted . 5p/week.</b>
Feb 3rd week	1 <sup>st</sup>
	2 <sup>nd</sup>
	3 <sup>rd</sup>
Feb 4th week	1 <sup>st</sup>
	2 <sup>nd</sup>
	3 <sup>rd</sup>
	4 <sup>th</sup>
Feb 5th week	1 <sup>st</sup>
	2 <sup>nd</sup>
March 1st week	1 <sup>st</sup>
	2 <sup>nd</sup>
March 2nd week	1 <sup>st</sup>
	2 <sup>nd</sup>
March 3rd week	1 <sup>st</sup>
	2 <sup>nd</sup>
	3 <sup>rd</sup>
	4 <sup>th</sup>
March 4th week	1 <sup>st</sup>
	2 <sup>nd</sup>
	3 <sup>rd</sup>
	4 <sup>th</sup>
March 5th week	1 <sup>st</sup>
	2 <sup>nd</sup>
	3 <sup>rd</sup>
April 2nd week	1 <sup>st</sup>
	2 <sup>nd</sup>
April 3rd week	1 <sup>st</sup>
	2 <sup>nd</sup>
April 4th week	1 <sup>st</sup>
	2 <sup>nd</sup>
	3 <sup>rd</sup>
	4 <sup>th</sup>
May 1st week	1 <sup>st</sup>

	2 <sup>nd</sup>
	3 <sup>rd</sup>
May 2nd week	1 <sup>st</sup>
	2 <sup>nd</sup>
	3 <sup>rd</sup>
	4 <sup>th</sup>
May 3rd week	1 <sup>st</sup>
	2 <sup>nd</sup>
	3 <sup>rd</sup>
May 4th week	1 <sup>st</sup>
	2 <sup>nd</sup>



**on Plan of Summer 2023**

<b>Name of the teaching faculty: Archana Tripathy</b>
<b>Semester from : 14th Feb 2023 to 23rd May 2023</b>
<b>No. of weeks:15 weeks</b>
<b>Topics to be covered:</b>
The need for security
Security approach
Principles of security
Types of attacks
Revision
Cryptography concepts ,Plain text & Cipher Text
Substitution techniques
Transposition techniques
Encryption & Decryption
Symmetric & Asymmetric key cryptography
Revision
Symmetric key algorithm types
Overview of Symmetric key cryptography
Data encryption standards
Continue
The RSA algorithm
Symmetric & Asymmetric key cryptography
Continue
Digital signature
continue
Revision
Digital certificates
Continue
PKIX Model,Private key management
Public key cryptography standards
Revision
Basic concept,Secure socket layer
Transport layer security, Secure Hyper text transfer protocol(SHHTTP)
Time stamping protocol (TSP),Secure electronic transaction (SET)
Continue
Authentication basics
Password ,Authentication Tokens
Continue

Certificate based authentication
Continue
Biometric authentication
Revision
Brief introduction of TCP/IP
Firewall
continue,IP Security
IP Security
Virtual Private Network (VPN)
Revision & Semester Question Answer Discussion
Revision & Semester Question Answer Discussion

**Signature of the faculty Name**

**Signature of the Faculty**