

ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY, BHUBANESWAR

	Semester: <u>6th</u>	Name of the Teaching Faculty <u>Dibakar Kumar Mishra</u>	
<u>CNS</u>	No of Days/Week Class Allotted: <u>60</u>	Semester From date: <u>06/01/20</u> To date _____	No. of Weeks:
Class Day	Theory Topics		
1st	Network Security Concept.		
2nd	Cryptography Concept.		
3rd	The need for security in CNS		
4th	Security approach / principle of security		
5th	Types of attack. Active attack, passive attack		
1st	Plain text & cipher text.		
2nd	Substitution Techniques.		
3rd	Transposition Techniques.		
4th	Encryption & Decryption.		
5th	Symmetric & Asymmetric key CNS.		
1st	Symmetric & Public key Algorithm		
2nd	Network data model in symmetric key algorithm		
3rd	Symmetric key algorithm types.		
4th	Symmetric key cryptography		
5th	Overall view of symmetric key cryptography.		

27 01 20 ↓ 09 03 20	1st	symmetric and public key algorithm
	2nd	Network Data model for symmetric key algorithm
	3rd	symmetric key algorithm
	4th	symmetric key algorithm types
	5th	methods & overview of symmetric key cryptography
09 03 20 08 02 20	1st	symmetric key algorithm
	2nd	symmetric key algorithm type
	3rd	block cipher technique
	4th	DES technique
	5th	DES Algorithm
10 02 20 15 02 20	1st	Digital Signature,
	2nd	Digital certificates,
	3rd	Private key management,
	4th	PKIX model,
	5th	public key cryptography standard.

Arif Sahoo

ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY, BHUBANESWAR

Discipline:	Semester: 6th	Name of the Teaching Faculty: Bikash Kumar Baredy	
Subject: Cryptography & Network Security	No of Days/Week Class Allotted: 60	Semester From date: _____ To date _____	No. of Weeks: _____

WEEK	Class Day	Theory Topics
08 09 20 22 02 20	1st	Basic concept of Internet Security.
	2nd	Secure socket layer.
	3rd	Transport layer Security.
	4th	TCP/IP layer protocol.
	5th	Secure Hypertext Transfer Protocol
11 03 20 14 03 20	1st	Secure socket layer
	2nd	Transport layer security.
	3rd	TCP/IP layer protocol
	4th	Secure Hypertext Transfer Protocol
	5th	Time stamping protocol.
	1st	Secure electronic transaction
	2nd	Authentication basics
	3rd	Password
	4th	Authentication Token
	5th	Certificate based authentication

	1st	Biometric authentication
	2nd	Brief introduction of TCP/IP
	3rd	Firewall
	4th	IP Security
	5th	Virtual Private Network (VPN)
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	