



GANAPATI INSTITUTE OF ENGINEERING AND TECHNOLOGY(POLYTECHNIC)
Mathasahi, Jagatpur, Cuttack - 754200

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
LESSON PLAN

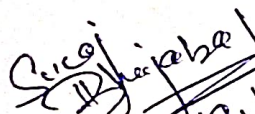
Session (2025-2026)(S)

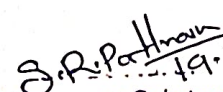
Discipline: Computer Science and Engineering	Semester: 6 th , Summer/2025	Name of the Faculty: Mr. Suraj Kumar Bhujbal
Subject: Cryptography & Network Security TII-I	No. of Days/week: 04	Start Date: 22.12.2025 End Date: 18.04.2026

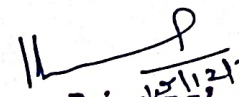
Week	Class Day	Theory Topics
1st	1st	Introduction To CNS
	2nd	The need for security
	3rd	Security approach
	4th	Principles of security
2nd	1st	Types of attacks
	2nd	Revision
	3rd	Plaintext & Cipher Text
	4th	Substitution techniques
3rd	1st	Substitution techniques contd...
	2nd	Transposition techniques
	3rd	Transposition techniques contd..
	4th	Encryption & Decryption
4th	1st	Symmetric key cryptography
	2nd	Asymmetric key cryptography
	3rd	Revision
	4th	Quiz/Test

5th	1st	Symmetrickeyalgorithmtypes
	2nd	OverviewofSymmetrickeycryptography
	3rd	Dataencryptionstandards
	4th	Dataencryptionstandards contd..
6th	1st	OverviewofAsymmetrickeycryptography
	2nd	Asymmetrickeycryptographycontd...
	3rd	TheRSAalgorithm
	4th	TheRSAalgorithmcontd..
7th	1st	Symmetric&Asymmetrickeycryptography
	2nd	Symmetric&Asymmetrickeycryptographycontd...
	3rd	Digitalsignature
	4th	Digitalsignaturecontd..
8th	1st	Questionanswerdiscussion
	2nd	Digitalcertificates
	3rd	Digitalcertificatescontd..
	4th	Digitalcertificatescontd..
9th	1st	Privatekey management
	2nd	Privatekeymanagement contd..
	3rd	PKIXModel
	4th	PKIXModelcontd..
10th	1st	Publickeycryptographystandards
	2nd	Publickeycryptographystandards contd
	3rd	Revision
	4th	BasicconceptsofInternetsecurityprotocols
11th	1st	Securesocketlayer
	2nd	Securesocketlayercontd..
	3rd	Transportlayersecurity
	4th	SecureHypertexttransferprotocol(SHTTP)
12th	1st	SecureHypertexttransferprotocol(SHTTP)contd..
	2nd	Timestampingprotocol(TSP)
	3rd	Secureelectronictransaction(SET)
	4th	QuizTest
13th	1st	Authenticationbasics,Password
	2nd	AuthenticationTokens
	3rd	Certificatebasedauthentication

	4th	Biometric authentication
14th	1st	Question Answer Discussion
	2nd	Brief introduction of TCP/IP
	3rd	Firewall
	4th	IP Security
15th	1st	IP Security contd..
	2nd	Virtual Private Network (VPN)
	3rd	Virtual Private Network (VPN) contd
	4th	Discussion of previous year questions


 Sign of faculty
 19.12.25


 Dept. of Computer Science & Engg
 Sign of Sr. Lect.
 19.12.25


 Sign of Principal
 Principal
 GJET (Polytechnic)
 Jagatpur, Cuttack
 19.12.25