

PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR DEPARTMENT OF COMPUTER TECHNOLOGY ACADEMIC SESSION: 2023-24 (ODD SEMESTER)

ASSIGNMENT-1

	The second secon			
223	Cryptography & Network Security (BTCT701T)	Semester	1	VII - A and B
3	Prof. P. U. Tembhare Prof. Snehal Bhulade	Assignment No.		1
10	I, II and III	Date of Display	13	21-08-2023
	39	: Cryptography & Network Security (BTCT701T)	: Cryptography & Network Security (BTCT701T) Semester : Prof. P. U. Tembhare Prof. Snehal Bhujade Assignment No.	L. II and III

Course Outcomes:

After completing the course, students will be able to :

- col: To develop the student's ability to understand the concept of security goals in various applications and learn classical encryption techniques.
- co2: To apply fundamental knowledge on cryptographic mathematics used in various symmetric and asymmetric key cryptography.
- co3: To develop the student's ability to analyze the cryptographic algorithms.

1 1.	Apply Extended Euclid algorithm to compute GCD (99,78). Show all the computations.	CO1	ш
	Snow all the computations.		
2 2. a	What is Vigenere Cipher? Explain it's working using suitable example.	CO1	11
2. 6	Demonstrate the working of encryption and decryption procedure in Hill Cipher with respect to following parameters:	CO1	Ш
	Plain Text : ACOLLEGE Key : 19 3		
3 3.	Explain Key Calculation Procedure in Simplified DES algorithm.	CO2	111
4 4.	Explain in detail about encryption procedure in IDEA algorithm.	CO2	п
5 5.	Demonstrate the working of RSA decryption algorithm with following	CO3	.111
	parameters: Cipher Text $C = 10$ Public Key $(e,n) = (5,35)$		
6 6.	Apply the Chinese Remainder Theorem to solve following congruent equations. $X\equiv 2\pmod 3$ $X\equiv 3\pmod 5$ $X\equiv 2\pmod 7$	CO3	11

Prof. P. U. Tembhare I Subject Teachers

Prof. Snehai Bhujade

Dr.(Mrs.) N. M. Thakare

Deat of Computer Technology
Priyadarshini College of Engineering
Hinana Boad Magnir-19