



SARASWATI Education Society's  
**SARASWATI College of Engineering**

Learn Live Achieve and Contribute

Kharghar, Navi Mumbai - 410 210.

**NAAC Accredited**

## **Department of Computer Engineering**

**Name : Shaikh Adnan Shaukat Ali**

**Roll No : 76**

**Class/Sem : TE/VI**

**Branch : Computer**

**Year : 2021-22**

**Subject : Cryptography and System Security(CSS)**



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## INDEX

Expt. No.	Date	Name of the Experiment
1	27/1/2022	Find the multiplicative inverse of any number $Z_n$ using Extended Euclidean algorithm. Also find the gcd and t values. Show the output of each step.
2	27/1/2022	Implementation of Euler's Totient Function.
3	8/2/2022	To implement Caesar cipher (Encryption and Decryption).
4	24/3/2022	To implement a program in python for password cracking using Brute Force Method. Password contains only lower alphabet characters. Length of password is 4.
5	24/3/2022	Implementation of RSA Cryptosystem, which includes: a. Implementation of RSA Key Generation Algorithm. b. Encryption and decryption using RSA algorithm.
6	24/3/2022	For varying message sizes, generate message digest using MD5 algorithm and check the integrity of message.
7	24/3/2022	For varying message sizes, generate message digest using SHA-1 algorithm and check the integrity of message.
8	4/4/2022	Implementation of Diffie Hellman Algorithm in python. Also, perform Diffie Hellman Practical using Cryptography lab of Virtual labs of IIT Bombay.
9	5/5/2022	Study of packet sniffer tool "wireshark": a. Download and install wireshark and capture icmp, tcp, and http packets in promiscuous mode. b. Explore how the packets can be traced based on different filters.
10	13/4/2022	Study the use of network reconnaissance tools like WHOIS, dig, tracer, nslookup.
11	13/4/2022	Perform Digital Signature Scheme Experiment using Cryptography lab of Virtual labs of IIT Bombay.

**Prof. Ritu Jain**

**Subject I/C**

**Prof. Sujata Bhairnallykar**

**H.O.D**



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Assign. No.	Date	Name of the Experiment
1	17/3/2022	Assignment 1
2	15/4/2022	Assignment 2

**Prof. Ritu Jain**

**Subject I/C**

**Prof. Sujata Bhairnallykar**

**H.O.D**