

Walchand College of Engineering, Sangli (Government Aided Autonomous Institute)	
AY 2025-26	
Course Information	
Programme	B.Tech. (Computer Science and Engineering)
Class, Semester	Final Year B. Tech., Sem VII
Course Code	6CS451 C
Course Name	Cryptography and Network Security Lab

Experiment No. 03

Title - Implementation of Euclidean and Extended Euclidean Algorithm

Objectives:

Develop a program to implement the **Euclidean Algorithm** and the **Extended Euclidean Algorithm** for computing the **Greatest Common Divisor (GCD)** of two integers and, in the extended version, also compute the **modular inverse** and the coefficients of Bézout's identity.

Equipment/Tools:

Theory:

Procedure:

Steps:

Observations and Conclusion: