# Lab Manual Network Programming Lab



Department of Computer Science & Engineering
College Of Engineering Cherthala, Alappuzha

# COLLEGE OF ENGINEERING CHERTHALA, ALAPPUZHA DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### Vision:

To evolve into a center of excellence in the field of computer science and engineering providing innovative and quality engineers contributing to the society and nation

#### Mission:

To impact high quality professional training with emphasis on state of the art technology in computer science and engineering including professional and ethical values in the young minds

## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

## **PROGRAMME OUTCOMES (POs)**

PO1	Apply the knowledge of mathematics, science and engineering fundamentals to solve complex computer science and engineering related problems.
PO2	Identify, formulate, make literature reviews, and analyze complex computer science and engineering problems to reach substantiated conclusions.
PO3	
PO4	
PO5	
PO6	
P07	
PO8	
PO9	
PO10	
PO11	
PO12	

Syllabus	
Course Outcomes	
Mapping of course outcomes with program outcomes	6
Abstract POs defined by National Board of Accreditation	7
References	8
Getting started with the basics of network configuration files and networking commands in Linux	
To familiarize and understand the use and functioning of system calls used for network programming in Linux.	12
Implement client-server communication using socket programming and TCP as transport layer protocol	16
Implement client-server communication using socket programming and UDP as transport layer protocol	24
Implementation of a multi user chat server using TCP as transport layer protocol.	29