

CS 252A: Computing Laboratory-II

1. Objectives: After completion of this course the students will be able to: (i) carry out some system administration tasks such as setting up servers such as an http server; (ii) explain the 7-layer OSI model of network architecture, and the roles of the corresponding protocols; (iii) explain basic cyber security concepts and carry out some cyber security testing; (iv) learn some advanced concepts such as block chains and crypto currency.
2. Prerequisites: CSE 251, ESO 207, ESC 101.
3. Course Contents:
 - a. Basics of Networking
 - b. Basics of Client Server Systems
 - c. Basic Concepts in Cryptography and Cyber Security
 - d. Basic Debugging Environment
 - e. Basic concepts of Crypto-currency and Block Chain
 - f. Advance concepts of Block Chain
4. Special Emphasis: Securing Computing Systems, Managing Servers, Concept of Block Chain
5. Lectures: Thursdays 9 - 10 am at RM 101, Labs: MW 2:00 – 5: 00 PM
6. Office Hours: Monday 10-11 am
7. Evaluation Components & Policies: Lab assignments: 40%, Projects: 40%, Two exams: 10% each
8. Course Policies: no attendance; copying in an assignment/lab/project will result in zero marks for all assignments; copying in exam will result in zero marks in the exam; withdrawal allowed as per DOAA guidelines.
9. Books & References: Will be posted in course website.