CSC111 INTRODUCTION TO COMPUTER SYSTEMS.

Learning Outcomes

Describe the progression of computers from vacuum tubes to VLSI. To learn details of the low-level representation of data and data structures in memory. To learn how a modern computer operates, at the level of the microprocessor and memory hierarchy.

Content

Organization: Introduction to the computer and the notion of a programmable machine. The basic organization based on the Von Neumann model. Functional components (CPU, memory, I/O) and their logical organization. Number systems and internal data representation. Concept software and types of software. Components of contemporary personal computer systems from end-user perspective. Application: Classical and contemporary applications of computers. Proficiency in basic computer usage and productivity/office automation applications including word-processing, spreadsheets, e-mail, web, etc. Basic first level security and maintenance issues. Ethical and societal issues.

Pre-requisites

None

Delivery

Lectures