

**Introduction to Information Technology (CSC 101)**  
**Tribhuvan University**  
**Soch College of Information Technology**  
**Bachelor of Science in Computer Science and Information Technology**

**Course Title:** Introduction to Information Technology

**Course no:** CSC-101 Full Marks: 60+20+20

**Credit hours:** 3 Pass Marks: 24+8+8

**Nature of course:** Theory (3 Hrs.) + Lab (3 Hrs.)

**Course Synopsis:** Fundamental concept of Information technology. Computer systems, Computer software, DBMS, and application of computer science.

**Goal:** This course introduces fundamental concepts of Information Technology and computer science.

**Course Contents:**

**Unit 1. Introduction to Computer Systems** ----- 10 Hrs.

Introduction to computers, Classification of digital computer systems, Anatomy of a digital Computer, Computer Architecture, Memory system, Memory Units, Auxiliary Storage devices, Inputs devices, Output Devices.

**Unit 2. Computer Software and Software Development** ----- 6 Hrs.

Introduction to Computer Software, Operating Systems, Programming Languages, General Software Features and Trends.

**Unit 3. Database Management Systems** ----- 6 Hrs.

Data processing, Introduction to Database Management systems, Database design

**Unit 4. Telecommunications** ----- 8 Hrs.

Introduction to Telecommunications, Computer Networks, Communication Systems, Distributed systems

**Unit 5. Internet and New Technologies in Information Technology** ----- 10 Hrs.

Internet, Multimedia tools and system, Intranets, Electronic Commerce, Hypermedia, Data Warehouses and Data Marts, Data Mining, Geographical Information System

**Unit 6. Applications of Information Technology** ----- 5 Hrs.

Computers in Business and Industry, Computers in education, training, Computers in Entertainment, science, medicine and Engineering

**Laboratory works:** The main objective is familiarizing students with operating system and desktop applications using current version of windows.

**Text/Reference books:** Alexis Leon, Mathews Leon, Fundamentals of Information Technology, Leon TechWorld