

BSc Computing and Entrepreneurship modules

1. Introduction to Programming

This module introduces the fundamentals of computer programming and algorithm construction. Students will develop basic skills in programming by learning the core control structures and problem-solving strategies with Python programming language.

Core content:

- Introduction to algorithms and program
- Program structure – decision making
- Program structure - loops
- Introduction to function
- Writing own function
- Using string and string operators
- String methods
- Introduction to lists
- List operators and methods
- Using lists and strings in functions
- File handling

2. Introduction to Computing and Operating Systems

Operating systems along with hardware and software components form an integral part of Computer Systems. This module focuses on modern computer architecture and system software. It provides an introduction to the structure and mechanism used by the operating system to control the execution of application software and to provide access to the hardware components.

Core content:

- Introduction to computer system: primary components
- Data representation and conversion
- CPU and memory and other hardware components
- CPU instruction set: MIPS
- Introduction to OS
- Types of OS
- Linux Commands
- Computer networks
- Types of computer networks
- Computer Network architecture
- Communication over computer network