

# B.Sc. (Hons) Computing

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The B.Sc. (Hons) Computing is a three-year full-time programme. The programme is designed to produce graduates qualified to pursue a wide variety of careers in the computing field. It allows you a greater choice and more flexibility within the area of computing as it gives you a broad view of computer systems, hardware and software, and information systems.

## Admission Requirements

The qualifications required for admission are 2 Passes at GCE (Advanced Level) Examination and 5 Passes inclusive of 2 Credit Passes for English and Mathematics at GCE (Ordinary Level) Examination, **or** successful completion of the APIIT Foundation Programme. Those with additional qualifications may receive advanced entry to higher levels of the programme. (Please contact Student Admissions Office for details.)

## Programme Structure

A diverse range of teaching strategies including case studies, video presentations and project work is employed to achieve the learning objectives. These are intended to develop students' knowledge and skills and their ability to identify and solve real world problems. Students are also trained to work efficiently in a group or independently in a disciplined and structured environment. Greater emphasis is placed on the engineering principles, design skills, formal methodologies and good management practices required for the development of quality software systems.

Students are required to undertake a computing project as part of the training. This project requires students to develop a software solution supported by appropriate research in the computing theories and technologies. It is aimed at encouraging students to bring together the knowledge, skills and abilities which they have developed throughout the programmes into an innovative, industry-strength software solution.

### Level 1 (Diploma)

The Level 1 (Diploma) is a one-year full-time programme. Level 1 comprises the following modules:

- Multimedia Applications
- Computer Systems Architecture
- Systems Analysis & Design
- Software Development Project
- Numerical Methods & Logic
- Operating Systems
- Databases and Data Structures
- Java Programming
- Visual Basic .NET
- Telecommunications
- Problem Solving & Program Design Using C
- Networks and Networking

### Level 2

The Level 2 is a one-year full-time programme. Level 2 comprises the following modules:

- Professional and Enterprise Development
- Database and Web Database Systems
- Web Programming
- Mathematics and Algorithmics
- Human Computer Interaction & Usability
- Principles and Practices of Software Production
- Further Programming Concepts in C++
- Hardware & Software Systems and Networks II

### Level 3 (Degree)

The Level 3 is a nine-month full-time programme. Level 3 comprises the following modules:

- Advanced Programming Language Concepts
- Advanced Database Systems
- Enterprise Web Applications
- Computer Science Project
- Project Management
- Information Systems Development Trends

## Career Opportunities

Graduates will be able to enter the employment market with the advantage of strong technical skills and embark on careers in system engineering, system analysis, software development, database administration, and data communication networks



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