

B.Sc. (Hons) Computing (Software Engineering)

The B.Sc. (Hons) Computing (Software Engineering) is a three-year full-time programme. The programme is designed to produce graduates to pursue careers in software engineering field of the information technology industry. It gives you a broad knowledge of modern software design methods and all phases of the system development life cycle with an emphasis on structure, requirements, design, programming and management in order to graduate as a well-rounded computer professional.

Admission Requirements

The qualifications required for admission are 2 Passes at GCE (Advanced Level) Examination, 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 software engineering project as part of the training. In the project, students carry out detailed investigation into software engineering methodologies, tools and techniques that are used in the development and implementation of high quality software systems.

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
- System Development Methods
- Mathematics and Algorithmics
- Human Computer Interaction & Usability
- Principles and Practices of Software Production
- Further Programming Concepts In C++
- Hardware and Software Systems and Networks II

Level 3 (Degree)

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

- Algorithmics
- Computing and Concurrent Systems Design
- Software Engineering Project
- Advanced Programming Language Concepts
- Project Management
- Design Patterns

Career Opportunities

Graduates will be well equipped with techniques and knowledge to be employed as software engineers in a wide variety of organisations.



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