

# B.Sc. / B.Eng. (Hons) Computing Science

---

This award aims to provide a robust education in the field of Computing while allowing the widest possible choice. Students on this award are able to sample a wide range of topics across the field of Computing such as Programming, Networking, Databases and Web applications. The final destination of a Computing Science graduate will depend on their interests developed through the program.

## 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 Degree Foundation Programme. Those with additional qualifications may receive advanced entry to higher levels of the programme.

## Programme Structure

A diverse range of teaching strategies including lectures, tutorials, case studies, portfolio of practical exercises, continuous assessment, group and individual project and seminars by external speakers is employed to achieve the essential learning outcomes. These are intended to maximize graduate's ability to solve professional problems within Computing, including basic computing algorithms, programming, techniques for computer system development, operation of hardware and software systems, computer networks and database systems. This will enable you to work effectively in a group or independently in a disciplined and structured environment.

Students are required to undertake a computing project in their final year as part of the award. Students are required to draw on a considerable range of knowledge and skills acquired through the modules previously studied. Each student will be assigned a supervisor to guide and support the student in order to successfully complete the project.

### Level C:

The Level C is a one-year full-time programme, and comprises the following modules:

- Introduction to Software Development
- Hardware, Software Systems & Graphics
- Maths & Statistics for Computing
- Introduction to Operating Systems
- Object Oriented and Event Driven Programming
- System Modelling
- Algorithms and Data Structures in C
- Introduction to Networking with LAN & WAN

### Level I:

The Level I is a one-year full-time programme, and comprises the following modules:

- Professional & Enterprise Development
- Database Systems
- Imaging and Special Effects
- Principles & Practices of Software Production
- Further Object-Oriented Programming
- LAN Switching and WAN Networks
- Object Oriented Systems Development
- Mathematics and Algorithmics

### Level H:

The Level H is a nine-month full-time programme, and comprises the following modules:

- Building Web Applications
- Advanced Database Systems
- Network Service Quality
- Project Management
- Computing Science Project
- Algorithmics
- **Information Systems Engineering in Industry – Additional core for B.Eng.**

## Career Opportunities

The final destination of a Computing Science graduate will depend on their interests. Typical job titles of recent graduates include Application Programmer, Web Designer, Software Engineer, IT Consultant, Systems Engineer and IT Systems Analyst.

\*The above syllabus details are subjected to be updated.



**ASIA PACIFIC INSTITUTE OF INFORMATION TECHNOLOGY**

APIIT CITY CAMPUS, 388, Union Place, Colombo 02, Sri Lanka.

Tel: (+94) 11 2675060 Fax: (+94) 11 2687249

Email: info@apiit.lk Web: http://www.apiit.edu.lk

