

1BA 2021-2022: Information Technology

Semester I & II:

CT1100: Computer Systems

Lecturer: Dr. Jim Duggan

This course enables students to understand the essential building blocks of the Information Age: software, hardware, data, people and networks. This includes how computer systems are developed, how they work and their role in our lives.

Lecture Hours: 24

Lab/Tutorial Hours: 22

Semester I & II:

CT1120: Algorithms

Lecturer: Dr. Adrian Clear

This module provides an introduction to computer algorithms. It presents the concept of an algorithm and examines a number of standard algorithms for searching and sorting in detail. In addition to this, it illustrates how algorithms underpin all information age transactions (e.g. internet, social networks, navigation systems).

Lecture Hours: 24

Semester I:

CT1101: Programming I

Lecturer: Dr. Finlay Smith

This module introduces students to computer programming and allows students to design, implement, test, and debug simple computer programs. Topics covered include; Input, processing and output; functions; decision structures & repetition structures.

Lecture Hours: 24

Lab Hours: 16

Semester II:

CT1102: **Programming II**

Lecturer: Dr. Finlay Smith

This module builds upon Introduction to Programming I and introduces topics such as modular programming; files & exceptions; arrays; dictionaries and sets.

Lecture Hours: 24

Lab Hours: 20