



## School of Computing Science

### First Year Computing Science

Introducing fundamental concepts and techniques in Computing Science.

#### First year courses in Computing Science

**CS1P** (for students with prior programming experience): significant programming concepts, file handling and graphics programming - all using the Python language (over two semesters)

**CS1F** (for students with prior programming experience): databases and human computer interaction (semester 1)

**CS1CT** (for students with little or no prior programming experience): computational skills preparing students for later more advanced programming courses. (semester 1)

**CS1S** (for all students): computer systems and hardware (semester 2)

*Most students who study CS1P will also take CS1F and CS1S. Students who perform well in CS1CT can continue with CS1S and the second half of CS1P in semester 2.*

*First year study for a BSc requires two other subjects apart from Computing Science: at least one of these must be a science subject.*

#### The learning environment

Much of computing science, particularly programming, involves significant problem-solving. All our courses have scheduled weekly laboratory sessions, which focus on a series of practical assignments.

In addition to examinations, all courses have ongoing assessment, including laboratory programming examinations.

Access to the First Year laboratory is made possible during normal working hours through secure key-card entry, although some students prefer to work at home using free distributions of the Python programming environment.

