LONDON'S GLOBAL UNIVERSITY

Computer Science

Theory of Computation (COMP0003)

Description

Aims:
The module aims to introduce students to formal logical reasoning and to fundamental concepts in the theory of computation and formal languages.

Learning outcomes:
On successful completion of the module, a student will be able to:
1.identify and reason with the logical content of arguments;
2.recognise, write down and reason about automata and language grammars;
3.carry out standard proofs and refutations involving logic and computational models.

Content:
This course introduces students to the theory of computation. The first 5 weeks of the course will focus on mathematical logic, including: propositional logic, first-order logic, proof by induction and modal logic. The second 5 weeks will focus on fundamentals of computation, automata and language theory.

Requisites:
In order to be eligible to select this module, a student must e registered on a programme for which it is a formally-approved option or elective choice AND must have A-level Mathematics (or equivalent).

Key information

Year	2019/20
Credit value	15 (150 study hours)
Delivery	UG L4, Campus-based
Reading List	View on UCL website
Tutor	Dr James Brotherston
Term	Term 1
Timetable	View on UCL website

Assessment

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk