Computer Science

Database and Information Management Systems (COMP0022)

Description

Aims:
Students will learn fundamental theories and methods of database systems: what they are, how they are developed and how they function to achieve their purposes. The module will exemplify these constructs with contemporary database technologies and students will learn how these technologies are exploited to build effective information systems of different scale.

Learning outcomes:
On successful completion of the module, a student will be able to:
1. understand the theories and methods of database systems;
2. have competence with applying the theories and methods of database systems in creating effective information systems;
3. understand current and emerging database technologies and the application settings in which they are used.

Content:
- The Database Management System
- Transaction management and failure management
- Query processing and optimization
- Distributed databases
- Data warehousing
- Data mining and online analytic processing.
- Semi-structured data databases
- Emerging database models and technologies.
- Database implementation and optimisation

Additionally, for FHEQ Level 7:
- SQL
- Data modelling
- Database design specification and normalisation

Requisites:
For FHEQ Level 6:
In order to be eligible to select this module, a student must

Key information

Year 2019/20
Credit value 15 (150 study hours)
Delivery UG L6, Campus-based
Reading List View on UCL website
Tutor Dr John Dowell
Term Term 2
Timetable View on UCL website

Assessment

- Written examination (main exam period): 70%
- Group project: 30%

Find out more

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

Disclaimer: All information correct as of June 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
e registered on a programme for which it is a formally-approved option or elective choice AND have passed BSc/ MEng Computer Science (Years 1 and 2) at UCL.

For FHEQ Level 7:
In order to be eligible to select this module, a student must be registered on a programme for which it is a formally-approved option or elective choice.
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**Key information**

**Year**
2019/20

**Credit value**
15 (150 study hours)

**Delivery**
PGT L7, Campus-based

**Reading List**
View on UCL website

**Tutor**
Ms Yuzuko Nakamura

**Term**
Term 1

**Timetable**
View on UCL website

**Assessment**

- Written examination (main exam period): 70%
- Group project: 30%

**Find out more**

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