Research Methods in Software Engineering (COMP0108)

Description

Aims:
To introduce students to cutting-edge research methods in software engineering emphasising the close reading of research papers and the critical, yet balanced, evaluation of research ideas.

Learning outcomes:
On successful completion of the module, a student will be able to:
1. identify research areas in software engineering, discuss their seminal problems and solution techniques;
2. critically review and discuss research papers in software engineering, and evaluate the strength of evidence;
3. understand how papers are reviewed and accepted at conferences and journals;
4. explain the variety of research methods used in software engineering and identify what research method is appropriate in what context;
- Students should also gain a good knowledge of a number of areas of research carried out in the Software Systems Engineering group;

Content:
- This module will teach students how to conduct research in software engineering. It will introduce them to seminal papers and the cutting-edge research that UCL faculty are pursuing;
- The module will begin by discussing what research is from the point of view of software engineering. It will discuss finding, evaluating and formulating research ideas. This module focuses on helping students develop the skills and habits needed to closely read research papers;

Requisites:
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 AND must have a good standard of computer literacy and programming.

Key information

Year 2019/20
Credit value 15 (150 study hours)
Delivery PGT L7, Campus-based
Reading List View on UCL website
Tutor Dr Justyna Petke
Term Term 1
Timetable View on UCL website

Assessment

Coursework: 100%

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 August 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.