
 Software engineering M814

Presentation pattern November to April

Module description

This online module explores the advanced concepts and techniques used throughout the software life cycle, for the effective production and management of large, complex, and long-lived software systems. It provides a holistic perspective of technical and non-technical factors involved in developing useful and safe software systems in complex social and organisational contexts. Students will gain hands-on experience of software engineering practices, in both individual and team-working contexts. To study this module they will need to have completed M813 *Software development*, or have equivalent professional software development knowledge.

Person specification

The person specification for this module should be read in conjunction with the [generic person specification](#) for an associate lecturer at The Open University.

As well as meeting all the requirements set out in the generic person specification, you should have:

- a comprehensive understanding of the essential principles and practices of software engineering
- knowledge of requirements engineering in the context of business problems
- experience of software development or its application, and its organisational context
- awareness of the human, social, professional, legal and ethical issues associated with software development.

It would be an advantage to have:

- experience of current techniques or tools for some or all of requirements engineering, software development, maintenance, estimation and configuration management
- familiarity with software quality management principles, practice and standards
- understanding of stakeholder issues in relation to business problems
- knowledge of risk assessment, metrics and estimation for software
- awareness of the state-of-the-art in software engineering
- a relevant higher degree
- experience of teaching in an academic, industrial or commercial environment.

Additional information

- We welcome applications from candidates whose experience derives from either an industrial or an academic background or both.

Module related details - a full explanation can be found on the website

Credits awarded to the student for the successful completion of a module:	30
Number of assignments submitted by the student:	3
Method of submission for assignments:	2
Level of ICT requirements:	2
Number of students likely to be in a standard group:	20
Salary band:	4
Estimated number of hours per teaching week:	6