Developing concurrent distributed systems  M362

Presentation pattern   February to October

Module description
The computing systems that support any large enterprise now use concurrency and distribution. In this module, students look at the theory and practice of developing such systems. They'll also learn about the advanced use of Java – such as Java's concurrency features and the layered approach for building large enterprise systems – using Java Enterprise Edition as a practical illustration.

They'll also examine heterogeneous and mobile systems and security. The module uses examples, from simple stand-alone systems, distributed systems with web access and online auction systems.

Students should be familiar with Java, which could be gained from successfully completing M257 or its equivalent.

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:

- recent or current experience of teaching software development ideally at degree level
- familiarity with the Java programming language
- familiarity with concurrency issues and key concepts in distributed systems
- ability to comment on, teach and assess programs written in Java.

Your application will also be considered if you have:

- extensive commercial experience of concurrent and distributed systems development and programming in Java.

It would be an advantage to have:

- familiarity with Java enterprise technologies
- experience of teaching software development using object oriented techniques at degree level
- experience of using electronic forms of support for distance learning (training is provided if needed)
- a relevant postgraduate degree.

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: 1a
Level of ICT requirements: 2
Number of students likely to be in a standard group: 20
Salary band: 3
Estimated number of hours per teaching week: 3