

Presentation pattern October to June

Module description

Cloud computing and mobile technologies offer new possibilities for the production and distribution of IT applications and services. Rapid, elastic and scalable provisioning of IT resources allows organisations to be more innovative, agile and cost effective. In our personal lives, cloud and mobile technologies allow us to store, access and share information online. Storing and processing information with no clear physical location or legal authority raises important concerns around governance and security. In this online module students will learn about the technical and social aspects of cloud computing and mobile technologies, and will gain hands-on experience of these technologies.

The module allows students to gain hands on experience of working with cloud technologies and shows how 'the cloud' relates to web and mobile technologies. TM352 also enables students to understand important social, political and legal issues.

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:

- up-to-date qualifications or experience in Computing or ICT
- experience of teaching Computing or ICT at university degree level or relevant experience in the field (in which case, if you do not have such experience, you will be required to familiarise yourself with an area of our curriculum)
- experience of working with and using programming languages, such as Java, JavaScript and PHP
- ability to support students in developing generic key skills and reflective practice relating to project work
- ability to use computer-mediated communication (CMC) and to use computers and the internet for teaching and learning, (including email and conferencing), and a willingness to keep that knowledge up-to-date
- an interest in the general issues of computing, information and communication technologies (including socio-technical ones)
- knowledge of different cloud computing models and how they might be used
- knowledge of web technologies (such as HTML5, CSS3, REST, SOAP, HTTP); and different mobile platforms
- experience of using an integrated development environment (IDE)
- the ability to support students undertaking a short project (time management, planning, research and writing skills)
- a willingness to learn all the software tools used in the module to a level of expertise where you can provide first-point-of-contact advice to students
- a willingness to keep up-to-date with new Computing and ICT technologies as they emerge during the lifetime of the module

It would be an advantage to have:

- experience of using OpenStack or Amazon Web Services as a developer
- experience of using the NetBeans IDE
- direct experience of developing, implementing or supporting cloud based and/or mobile applications

Additional information

- The associate lecturer's role is to provide online and telephone support for up to 20 students and to mark three assignments, which will have both a written and a practical element, and to be available to undertake the marking of project reports for students.
- Assignments are submitted, marked and returned electronically. In addition, associate lecturers are expected to participate in peer forums, student-group forums and email communication.

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

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| 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: | 3 |
| Number of students likely to be in a standard group: | 20 |
| Salary band: | 4 |
| Estimated number of hours per teaching week: | 4 |