

Presentation pattern October to June

Module description

Most of the MSc modules are based on guided reading of an individual set textbook. Students need to successfully complete six modules worth 180 points to be awarded the degree.

Module description

Complex variable theory pervades a wide variety of important subjects and this module teaches topics that are both useful in the theoretical sciences and of interest in their own right. It deals with subjects that seem to be a natural outgrowth of the study of analytical functions of one complex variable, for example potential theory, the theory of ordinary linear differential equations, Fourier and Laplace transforms and asymptotic expansions. This module, based on *Applied Complex Variables* (J. W. Dettman, reprinted by Dover, 1984), should appeal to scientists and engineers as well as to mathematicians.

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 good honours degree in mathematics or another subject directly relevant to the module contents, together with evidence of successful postgraduate study in mathematics, such as a higher degree in mathematics
- have experience working in an area directly relevant to the module
- be able to provide evidence of a complete understanding of a large proportion of the material covered in the module (by, for example, successfully completing a pre-interview marking exercise) and demonstrate the ability and willingness to quickly develop an understanding of the remainder of the material
- be able to present mathematics electronically and annotate pdfs
- be able and willing to use e-learning facilities, such as:
 - the module website, and other University websites, to download essential material and to retrieve other information
 - University systems for the purposes of monitoring students' progress
 - e-mail and University forums for asynchronous communication with students, tutors, and other staff
 - the University's online tutorial software (training provided)
 - on-screen marking of electronically submitted student assignments in pdf format

It would be an advantage to have:

- a PhD in a relevant area
- teaching experience in the relevant specialist subject area at post graduate or third year level.

You will be required to mark assignments electronically. This will be in pdf format

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: | 4 |
| Method of submission for assignments: | 1b |
| Level of ICT requirements: | 2 |
| Number of students likely to be in a standard group: | 15 |
| Salary band: | 2 |
| Estimated number of hours per teaching week: | 2.5 |