

*Presentation pattern*    November to April

*Module description*

Engineering is at the heart of modern life. Today engineers use computers and software in the design and manufacture of most of the products, processes and systems that make up our lifestyles. This module introduces students to the finite element method and instils the need for comprehensive evaluation and checking when interpreting results. It covers basic theory; modelling, meshing and analysing component models for stresses, deflections, temperatures and vibrations under operating conditions and loads; treatment of boundary conditions and restraints; and examples of good practice for safe and effective application in use.

*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 degree in mechanical engineering or an engineering-related field
- experience of teaching and using finite element analysis
- interest in engineering design, computer-aided engineering and analysis
- the ability to relate to distance learning students at postgraduate level.

It would be an advantage to have:

- experience of tutoring on T884.

*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:	2
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:	5