
Manufacture materials design T881

Presentation pattern November to April

Course description

Manufacturing processes, selection of materials and design of components are three facets of the same task: making something that serves its purpose efficiently. Unlike many other manufacturing courses, this one emphasises the interaction of the three facets rather than teaching them independently. Block 1 of the course establishes common elements of the three areas. Block 2 looks at the main routes to manufacture of components: cutting, casting, forming and joining. In Block 3, students examine case studies from each of the three areas. Course materials include study texts as well as a 'databank' of advanced manufacturing processes, traditional and new, with criteria for deciding on process, material and design.

Person specification

The person specification for this course 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 background in manufacturing materials or design engineering
- a concern with the production of engineering components, in either a teaching or an industrial environment
- ability to teach, at postgraduate level, advanced techniques in the context of traditional manufacturing methods.

It would be an advantage to have:

- industrial experience
- experience of adult teaching or in professional training programmes.

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:	15
Salary band:	2
Estimated number of hours per teaching week:	3.5