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Applicable differential geometry M827

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*Presentation pattern* February to October

*This module is presented in alternate even-numbered years.*

*Module description*

Differential geometry, an amalgam of ideas from calculus and geometry, could be described as the study of geometrical aspects of calculus, especially vector calculus – vector fields, gradients, line and surface integrals, differential equations – and, equally, as the study of topics in geometry that calculus applies to – parallelism, curvature and isometry in smooth surfaces and their higher-dimensional generalisations. Although we concentrate on topics useful in applications, this is not a module in the applications themselves and should appeal equally to students interested in pure and applied mathematics. It is based on the set book *Applicable Differential Geometry* (M. Crampin, F.A.E. Pirani, Cambridge University Press, 1986).

*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 in another subject relevant to the module
- candidates should show evidence of having studied and worked in the relevant subject area.

It would be an advantage to have:

- a higher degree and experience of teaching and examining, particularly in distance education or at postgraduate level
- teaching experience in the relevant specialist subject area
- you may be required to mark assignments electronically.

*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:	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:	1
Estimated number of hours per teaching week:	2.5