

*Presentation pattern*    *October to June*

*Module description*

TM355 Communications Technology explores the technologies underlying the communication of information, whether as text, audio, speech, image or video. The module looks at the technological principles for conveying information, the media and networks that are used, and the problems encountered and ways of mitigating them.

Students will learn about the relevant properties of optical fibre, copper cable and radio waves, and about the techniques used in fixed-line and mobile broadband (3G and 4G) delivery. Throughout there is an emphasis on underlying principles, such as the theory of signals and modulation, source coding (for efficient representation of information) and channel coding (for robust transmission through noisy channels).

*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 relevant degree or equivalent industry experience in communications technologies,
- a knowledge of communication principles and a willingness to keep up to date with new developments during the lifetime of the module
- an ability to engage with students' work and give appropriate, individual feedback and advice.
- numerical competence and the ability and willingness to teach the mathematical concepts of the module
- a commitment to work within the OU online teaching environment using the OU technologies that are an integral part of this module

It would be an advantage to have:

- experience of teaching telecommunications at undergraduate level or equivalent
- experience of using electronic forms of distance teaching and support

*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:	2
Level of ICT requirements:	2
Number of students likely to be in a standard group:	20
Salary band:	3
Estimated number of hours per teaching week:	3.5