



CITY UNIVERSITY
LONDON

The University for business and the professions

School of Engineering and Mathematical Sciences

MSc Telecommunications and Networks

The field of telecommunications has been revolutionised by the invention of optical fibres and semiconductor lasers, and more recently by the development of erbium-doped fibre amplifiers and dense wavelength division multiplexing. This exciting area will continue to develop with the growth of mobile and wireless communication systems and the increasing use of the internet. This course aims to equip engineers and applied scientists with the specialised knowledge and skills required to meet the challenges presented by this rapid industry changes.

Course content

Students are prepared for a career in the fast changing world of telecommunications. The syllabus covers the recent major technological developments in telecommunications, technology, protocols, security and networks including digital, mobile and wireless communications, photonics and optical communications, internet and web service security, and coding.

Modules include:

- Multiservice communication networks
- Signals and information theory
- Cryptography and coding
- Digital Communications
- Digital image processing
- Optical communications
- Lasers and optoelectronics
- Digital signal processing
- Web service security
- Wireless communications
- Research skills and techniques

Employment opportunities

Students gain the skills and knowledge base for a professional career as a design and development engineer in the mobile, wireless, internet, optical and telecommunications sectors or a higher research degree course.

Entry requirements

Applicants should normally hold a second class honours degree, or equivalent, in an engineering or appropriate science discipline. However, we are always ready to talk to potential students with other qualifications. For those students whose first language is not English, the following qualifications are also required:

- IELTS: 6.5
- TOEFL (internet-based): 100

Duration

Full time: one year, with the project taking approximately six months during or after this period.

Part time: two years, with the project taking approximately six months during or after this period.

Fees

Full time: £4,950 UK/EU
£10,500 International

Part time: £2,475 UK/EU
£5,250 International

Scholarships

Each year, we make funds available for scholarships to outstanding students on each of our masters courses.

More information

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