

MSc Telecommunications

Birmingham City University



Online-based
distance learning

Qualification

The MSc Telecommunications awards include Postgraduate Certificate (Stage 1), Postgraduate Diploma (Stage 2) and full MSc Telecommunications (Stage 3). On successful completion of all stages you will be awarded the MSc Telecommunications.

Awarding Body

Birmingham City University

Course Description

The field of telecommunications has experienced immense developments over the past years and provides an area for exciting opportunities in science and technology. A specialisation in telecommunications is essential for those willing to drive a number of related industries in the new millennium.

This postgraduate course is geared towards the shift from traditional telecommunication and data communications systems to mobile and wireless communications and the management of network services. The course provides advanced knowledge of telecommunications technologies and issues related to communications networks.

Topics covered in the course include the latest developments in the fields of telecommunications and networks. The course focuses on telecommunications technologies and their practical applications in modern industries. Due to the fast pace of the developments in the telecommunications sector the course is designed in such a way that fundamental principles are covered in alignment with state of the art technological advances in digital communications.

The course is suitable for competent students from both scientific and engineering backgrounds wishing to gain a comprehensive understanding of recent techniques in the design, development, administration and management of telecommunications.

Mode

Online distance learning

Course Content (Modules)

Comprises five modules and a project / dissertation:

Stage 1

1. Project Management & Research Methodology

This module covers project planning, scheduling and monitoring tools and techniques while at the same time developing research philosophies, strategies and methods relevant to the telecommunications industry.

You will develop project management and research competencies that will enable you to plan, undertake and evaluate independent research in an organisational setting.

2. Data Communications Systems

This module will provide you with a detailed knowledge and understanding of the key principles of the design, development and diagnostics of data communication systems.

You will develop an in-depth knowledge of the management of data communication system, compression techniques for digital voice and video transmission, and network traffic protocols

3. Telecommunication Systems

This module will provide you with a detailed knowledge of the principles of telecommunications systems, while emphasising technologies that support digital communications. Emphasis is placed on the characteristics and advantages of digital signals, as well as issues relating to transmission, line coding and modulation.

You will study a variety of topics providing a detailed knowledge and understanding of telecommunication networks and their properties.

Stage 2

4. Management of Network Services

This module will provide you with a detailed knowledge of the requirements and operation of networks and associated service management. Emphasis is placed on the realisation of Quality of Service (QoS) concepts in digital networks and mobile communications.

You will develop an in-depth knowledge and understanding of the management of network infrastructure and services within a business environment, including the classification of equipment and services.

5. Mobile & Wireless Communications

This module will provide you with an in-depth knowledge of the fundamentals of mobile and wireless communications systems emphasising the wireless environment, mobile systems, as well as network planning and mobile services.

You will gain a holistic view of modern digital mobile and wireless communications systems. The wireless communication medium and modulation techniques will be investigated before undertaking a detailed review of key mobile systems, and investigate issues of network planning and mobile services.



Stage 3

Project / Dissertation

The project will allow you to demonstrate your ability to apply skills and knowledge to the solution of a practical problem or to an investigation into a research topic appropriate to the rationale of the course

Assessment

For the modules studied you will complete a total of 5 reports, one examination and a Viva Voce (oral examination). Assessment for the Project / Dissertation comprises the following:

- Project Proposal
- Presentations and Viva Voce examination
- Dissertation

Duration of Programme

The Birmingham City University MSc Telecommunications is normally studied over two years, but may be extended to suit your individual needs for up to a maximum of seven years.

Entry Requirements

- First degree from an approved university equivalent to UK second class honours in a relevant subject.
- English ability equivalent to an IELTS score of 6.0, where the medium of undergraduate study was not English.

Applicants who do not hold the standard entry requirements may be considered for admission provided they can demonstrate that their qualifications and/or industrial experience are equivalent to that attained through the completion of an appropriate honours degree programme.

What's Included

RDI's Online University **ilearn** is used to deliver all resources for this course including:

- **Study materials** - Access electronic copies of your learning materials and important information, such as assessment instructions, whenever and wherever you are.
- **Tutor support** - Tutors use live chats and forums to stimulate discussions, request input and highlight external sources.
- **External resources** - Links to external sources can include key journal articles, your university's online library, sites of topical interest, etc.
- **Discussion with other students** - Forums allow students to come together, share thoughts and ideas and you can initiate topics that you want to discuss with your fellow students.

In addition you will have access to a programme co-ordinator for administrative support who you can contact as often as you like by telephone and email.

Workload

We recommend an average of 12-15 hours study time per week for this programme.

Exemptions

For this qualification we may allow you to count credit for relevant study you have already done elsewhere. Exemptions are considered on an individual basis when you submit an application form. Please note that work experience alone cannot be considered for exemptions.

Enrolment Dates

October, January, April and July

How to Apply

In addition to the completed application form:

- Copies of your relevant certificates and/or transcripts
- Two suitable references. Please note we can only accept academic and/or professional work references.
- Proof of English language ability (IELTS or TOEFL), if English is not your first language.



Apply online

Visit our website www.rdi.co.uk



Email us

Email applications@rdi.co.uk



Call us

Contact us today on **FREEphone**
0800 COURSES / 0800 268 7737