

**EE硕士选校方案**

（了解课程信息+院校信息为主）

**伦敦大学国王学院**

**专业：Mobile & Personal Communications**

Bachelors degree with a minimum high 2:2 honours in electronics, electrical engineering, computer science, applied mathematics or physics.(均分要求77%以上)

IELTS:6.5 overall with a minimum of 6.0 in each skill

##### Required Modules

You are required to take:

* Digital Communications (15 credits)
* Random Variables & Stochastic Processes  (15 credits)
* Communication Theory (15 credits)
* Mobile & Personal Communications Systems (15 credits)
* Telecommunications Networks I (15 credits)
* Principles of Management (15 credits)
* Individual Project (60 credits)

##### Optional Modules

In addition, you are required to take 30 credits from a range of optional modules, which may typically include:

* Fundamentals of Digital Signal Processing (15 credits)
* Network Theory (15 credits)
* Optical Communications (15 credits)
* Telecommunications Networks II (15 credits)
* Topics on Data & Signal Analysis (15 credits)

**官网链接：**

<https://www.kcl.ac.uk/study/postgraduate/taught-courses/mobile-and-personal-communications-msc>

**专业：Electronic Engineering with Management**

Bachelors degree with a minimum high 2:2 honours in electronics, electrical engineering, computer science, applied mathematics or physics. (均分要求77%以上)

##### Required Modules

You are required to take:

* Project Management (15 credits)
* Fundamentals of Digital Signal Processing (15 credits)
* Topics on Data & Signal Analysis (15 credits)
* Principles of Management (15 credits)
* Telecommunications Networks I (15 credits)
* Real Time Systems & Control (15 credits) \*
* Individual Project (60 credits)

##### Optional Modules

In addition, you are required to take 60 credits from a range of optional modules, which may typically include:

* Operations Management (15 credits)
* Digital Communications (15 credits)
* Optical Communications (15 credits)
* Random Variables & Stochastic Processes (15 credits)
* Communication Theory (15 credits)
* Mobile & Personal Communications Systems (15 credits)
* Telecommunications Networks II (15 credits)
* Network Theory (15 credits)

**官网链接：**

<https://www.kcl.ac.uk/study/postgraduate/taught-courses/electronic-engineering-with-management-msc>

**曼彻斯特大学**

[**Department of Electrical and Electronic Engineering**](http://www.imperial.ac.uk/engineering/departments/electrical-engineering/)

[Advanced Control and Systems Engineering [MSc]](http://www.eee.manchester.ac.uk/study/pgt/acse-msc/)

[Communication Engineering [MSc]](http://www.eee.manchester.ac.uk/study/pgt/ce-msc/)

[Digital Signal Processing [MSc]](http://www.eee.manchester.ac.uk/study/pgt/dsp-msc/)

[Electrical Power Systems Engineering [MSc]](http://www.eee.manchester.ac.uk/study/pgt/aepse-msc/)

[Electrical Power Systems Engineering [MSc] - Distance Learning](http://www.eee.manchester.ac.uk/study/pgt/elecpowerdist/)

[Advanced Electrical Power Systems Engineering [MSc]](http://www.eee.manchester.ac.uk/study/pgt/aepse-msc/)  2 year course

[Power Electronics, Machines and Drives [MSc]](http://www.eee.manchester.ac.uk/study/pgt/pemd-msc/)

[Renewable Energy and Clean Technology [MSc]](http://www.eee.manchester.ac.uk/study/pgt/react-msc/)

**官网链接：**

<http://www.eee.manchester.ac.uk/study/pgt/>

所有关于八个专业的信息都在以上链接，关于课程设置可以点击Course Units查看。学费信息在fees，雅思入学要求在IELTS Entry Requirement查看.

**专业：MSc Electrical Power Systems Engineering**

Academic entry qualification overview

We require a good Upper Second Class Honours degree or international equivalent in an electrical and electronic engineering discipline.

When assessing your academic record, we take into account your grade average with particular emphasis on relevant course units and the standing of the institution where you studied your qualification.(均分要求80%以上)

IELTS score of 6.5 overall with no sub-test of less than 6.0

Course unit list

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

| Title | Code | Credit rating | Mandatory/optional |
| --- | --- | --- | --- |
| [Dissertation](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60070#course-unit-details) | EEEN60070 | 60 | Mandatory |
| [Power System Protection](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60076#course-unit-details) | EEEN60076 | 15 | Mandatory |
| [Electrical Energy Systems](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60302#course-unit-details) | EEEN60302 | 15 | Mandatory |
| [Analysis of Electrical Power and Energy Conversion Systems](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60312#course-unit-details) | EEEN60312 | 15 | Mandatory |
| [Power System Operation and Economics](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60321#course-unit-details) | EEEN60321 | 15 | Mandatory |
| [Power System Dynamics & Quality of Supply](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60342#course-unit-details) | EEEN60342 | 15 | Mandatory |
| [Smart Grids & Sustainable Electricity Systems](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60352#course-unit-details) | EEEN60352 | 15 | Mandatory |
| [Techniques for Research and Industry](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60357#course-unit-details) | EEEN60357 | 15 | Mandatory |
| [Power Syst Plant, Asset Management and Condition Monitoring](https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/EEEN60372#course-unit-details) | EEEN60372 | 15 | Mandatory |

**官网链接：**

<https://www.manchester.ac.uk/study/masters/courses/list/07875/msc-electrical-power-systems-engineering/course-details/#course-profile>

**专业：MSc Renewable Energy and Clean Technology**

Academic entry qualification overview

We require a good Upper Second Class Honours degree or international equivalent in any of the following: electrical and electronic engineering, mechanical engineering, engineering, physics, or equivalent scientific discipline which includes a significant mathematical and engineering content.

Applicants will be considered with alternative qualifications who also have appropriate industrial experience.

When assessing your academic record, we take into account your grade average with particular emphasis on relevant course units and the standing of the institution where you studied your qualification.

IELTS score of 6.5 overall with no sub-test of less than 6.0

**课程设置：**

Course unit list

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

| Title | Code | Credit rating | Mandatory/optional |
| --- | --- | --- | --- |
| [Dissertation](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60070#course-unit-details) | EEEN60070 | 60 | Mandatory |
| [Smart Grids & Sustainable Electricity Systems](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60352#course-unit-details) | EEEN60352 | 15 | Mandatory |
| [Techniques for Research and Industry](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60357#course-unit-details) | EEEN60357 | 15 | Mandatory |
| [Introduction to Power Systems](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60401#course-unit-details) | EEEN60401 | 15 | Mandatory |
| [Interfacing clean energy systems](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60402#course-unit-details) | EEEN60402 | 15 | Mandatory |
| [Understanding Energy as a 'system' driving modern society](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60411#course-unit-details) | EEEN60411 | 15 | Mandatory |
| [Solar Energy Technologies](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60421#course-unit-details) | EEEN60421 | 15 | Mandatory |
| [Zero Carbon Built Infrastructure](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60422#course-unit-details) | EEEN60422 | 15 | Mandatory |
| [Marine Energy: Wind, Wave & Tidal](https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/EEEN60431#course-unit-details) | EEEN60431 | 15 | Mandatory |

**官网链接：**

<https://www.manchester.ac.uk/study/masters/courses/list/09009/msc-renewable-energy-and-clean-technology/course-details/#course-profile>

**专业:MSc Communications and Signal Processing**

Academic entry qualification overview

We require an Upper Second Class Honours degree or international equivalent in an electronic and electrical engineering discipline. This is a competitive application process and preference will be given to applicants with grades above our minimum entry requirements.

Applicants should have previously studied communication and signal processing engineering fundamentals, and also have good programing skills (i.e. C++, Java, MATLAB).

When assessing your academic record, we take into account your grade average with particular emphasis on relevant course units and the standing of the institution where you studied your qualification.

IELTS score of 6.5 overall with no sub-test less than 6.0

课程设置：

Course unit list

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

| Title | Code | Credit rating | Mandatory/optional |
| --- | --- | --- | --- |
| [Dissertation](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60070#course-unit-details) | EEEN60070 | 60 | Mandatory |
| [Digital Communications Engineering](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60131#course-unit-details) | EEEN60131 | 15 | Mandatory |
| [Advanced Digital Signal Processing](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60176#course-unit-details) | EEEN60176 | 15 | Mandatory |
| [Introduction to Communication and Signal Analysis](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60180#course-unit-details) | EEEN60180 | 15 | Mandatory |
| [Networks and Internet of Things](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60184#course-unit-details) | EEEN60184 | 15 | Mandatory |
| [Optical Communication Systems and Networks](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60185#course-unit-details) | EEEN60185 | 15 | Mandatory |
| [Antennas and RF Systems](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60121#course-unit-details) | EEEN60121 | 15 | Optional |
| [Machine Learning and Optimisation Techniques](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60151#course-unit-details) | EEEN60151 | 15 | Optional |
| [Wireless Communications & Mobile Networks](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60162#course-unit-details) | EEEN60162 | 15 | Optional |
| [Multi-Sensor Signal Processing & Imaging](https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/EEEN60175#course-unit-details) | EEEN60175 | 15 | Optional |

**官网链接：**

<https://www.manchester.ac.uk/study/masters/courses/list/12034/msc-communications-and-signal-processing/course-details/#course-profile>

**格拉斯哥大学**

# 专业：ELECTRONICS & ELECTRICAL ENGINEERING MSc

## ENTRY REQUIREMENTS：

A 2.1 equivalent degree (GPA 3.0) in a relevant subject. （均分要求75%以上）

* overall score **6.5**
* no sub-test less than **6.0**

# 课程设置:

### Core courses

* [INTEGRATED SYSTEMS DESIGN PROJECT M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5044)
* [MSC PROJECT](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5059P)

### Optional courses include:

* [ACOUSTICS AND AUDIO TECHNOLOGY 4](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG4001)
* [BIOSENSORS AND DIAGNOSTICS M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5288)
* [CONTROL M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5022)
* [DIGITAL COMMUNICATION 4](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG4052)
* [DIGITAL SIGNAL PROCESSING](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5027)
* [ELECTRICAL ENERGY SYSTEMS M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5029)
* [ENERGY CONVERSION SYSTEMS M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5250)
* [LASERS AND INTEGRATED OPTICS M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5298)
* [MICRO & NANO TECHNOLOGY](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5055)
* [MICROWAVE AND MILLIMETRE WAVE CIRCUIT DESIGN](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5056)
* [ADVANCED DEVICES M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5261)
* [OPTICAL COMMUNICATIONS](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5066)
* [POWER ELECTRONICS AND DRIVES M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5292)
* [REAL TIME EMBEDDED PROGRAMMING](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5220)
* [ROBOTICS 4](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG4118)
* [VLSI DESIGN M](https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/?card=course&code=ENG5092)

https://www.gla.ac.uk/postgraduate/taught/electronicselectricalengineering/#englishlanguagerequirements

**谢菲尔德大学**

**专业：Electronic and Electrical Engineering MSc(Eng)**

## Entry requirements:

A 2:1 honours degree in electronic and electrical engineering, physics, maths or any other branch of engineering involving significant mathematical competence.

We will also consider your application if you have a 2:2 or equivalent, or industry experience. （均分要求75%以上）

## English language requirements

Overall IELTS score of 6.5 with a minimum of 6.0 in each component, or equivalent

**课程设置：**

**Core modules**

Major Research Project

**Optional modules**

Examples include:

AC Machines

Advanced Control of Electric Devices

Energy Storage Management

Motion Control and Servo Drives

Permanent Magnet Machines and Actuators

Power Electronic Converters

Power Semiconductor Devices

Advanced Computer Systems

Advanced Integrated Electronics

Advanced Signal Processing

Semiconductor Materials

Principles of Semiconductor Device Technology

Packaging and Reliability of Microsystems

Nanoscale Electronic Devices

Energy Efficient Semiconductor Devices

Optical Communication Devices and Systems

Computer Vision

Electronic Communication Technologies

Data Coding Techniques for Communications and Storage

Principles of Communications

Antennas, Propagation and Satellite Systems

Mobile Networks and Physical Layer Protocols

System Design

Broadband Wireless Techniques

Wireless Packet Data Networks and Protocols

**官网链接：**

[**https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/electronic-and-electrical-engineering-msceng**](https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/electronic-and-electrical-engineering-msceng)

**专业MSc(Eng) Advanced Electrical Machines, Power Electronics and Drives**

课程设置：

Modules

Core modules

Power Electronic Converters

AC Machines

Permanent Magnet Machines and Actuators

Motion Control and Servo Drives

Advanced Control of Electric Drives

Energy Storage and Management

MSc Individual Project

Major Research Project

Optional modules

Power Semiconductor Devices

Advanced Signal Processing

Packaging and Reliability of Microsystems

Electronic Communication Technologies

Systems Design

**官网链接：**

[**https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/advanced-electrical-machines-power-electronics-and-drives-msceng**](https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/advanced-electrical-machines-power-electronics-and-drives-msceng)

**专业Semiconductor Photonics and Electronics**

**课程设置：**

Modules

Core modules

Semiconductor Materials

Principles of Semiconductor Device Technology

Packaging and Reliability of Microsystems

Nanoscale Electronic Devices

Energy Efficient Semiconductor Devices

Optical Communication Devices and Systems

Compound Semiconductor Device Manufacture

Major Research Project

**官网链接：**

[**https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/semiconductor-photonics-and-electronics-msc**](https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/semiconductor-photonics-and-electronics-msc)

**专业Wireless Communication Systems**

**课程设置：**

Modules

Core modules

Advanced Signal Processing

Advanced Communication Principles

Antennas, Propagation and Satellite Systems

Mobile Networks and Physical Layer Protocols

Broadband Wireless Techniques

Wireless Packet Data Networks and Protocols

Major Research Project

Optional modules

Examples include:

Data Coding Techniques for Communication and Storage

Optical Communication Devices and Systems

Computer Vision

Electronic Communication Technologies

Data Coding Techniques for Communication and Storage

**官网链接：**

[**https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/wireless-communication-systems-msc**](https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/wireless-communication-systems-msc)

# 专业：Data Communications

### Core modules课程设置

* Network and Inter-Network Architectures
* Network Performance Analysis
* Data Coding Techniques for Communications and Storage
* Advanced Communication Principles
* Mobile Networks and Physical Layer Protocols
* Major Research Project
* One of the following:
  + Foundations of Object-Orientated Programming
  + Object-Orientated Programming and Software Design

### Optional modules

Examples include:

* Computer Security and Forensics
* 3D Computer Graphics
* Software Development for Mobile Devices
* Cloud Computing
* Advanced Signal Processing
* Antennas, Propagation and Satellite Systems
* Optical Communication Devices and Systems
* Computer Vision
* Broadband Wireless Techniques
* Wireless Packet Data Networks and Protocols
* System Design

**官网链接：**

# <https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/data-communications-msceng>

# 专业：Advanced Control and Systems Engineering

## Entry requirements

You’ll be an engineering, mathematics or science honours graduate with a 2:1 degree from a recognised institution. Or you may be an experienced professional, thinking about updating your knowledge of the subject. You’ll need to have excellent mathematical notation and basic computer programming skills.

## English language requirements

Overall IELTS score of 6.5 with a minimum of 6.0 in each component, or equivalent

### Core modules

* Foundations of Control Systems
* Optimisation and Signal Processing
* Advanced Control
* Industrial Automation
* Modern Control and System Identification
* Control Systems Project and Dissertation

### Optional modules

Choose from a range of optional modules. These might include:

* Intelligent and Vision Systems
* Industrial training programme (ITP) in Advanced Manufacturing
* Cybersecurity for Control Systems
* Multisensor and Decision Systems

**官网链接：**

# <https://www.sheffield.ac.uk/postgraduate/taught/courses/2020/advanced-control-and-systems-engineering-msceng>

**诺丁汉大学**

**专业Electrical and Electronic Engineering MSc**

Entry requirements：A high 2:2 or equivalent in Electrical and/or Electronic Engineering, or other relevant degree.（均分要求73%-75%以上）

IELTS：6.0 (no less than 5.5 in any element)

**课程设置：**

核心课程：

Electrical and Electronic Fundamentals for Master

Research Project Organisation and Design

MSc Project

选修课程:

Advanced AC Drives

Advanced Control System Design

Advanced Electrical Machines

Analogue Electronics

Digital Communications

Electrical Machines, Drive Systems and Applications

Integrated Circuits and Systems

Renewable Generation Technologies

Optical Networks

Power Systems for Aerospace ,Marine and Automotive Applications

Robotics, Dynamics and Control

Power Electronic Applications and Control

Sensing Systems and Signal Processing

Mobile Technologies

Power Networks

Systems Engineering

RF Electronics

Artificial Intelligence and Intelligent Systems

Optical and Photonics Technology

HDL for Programmable Devices

Microwave, Millimetre and Terahertz Systems

Advanced Computational Engineering

Distributed Generation and Alternative Energy

Digital Signal Processing

Instrumentation and Measurement

Advanced Power Electronics

Advanced Engineering Mathematics

[**https://www.nottingham.ac.uk/pgstudy/course/taught/Electrical-and-Electronic-Engineering-MSc**](https://www.nottingham.ac.uk/pgstudy/course/taught/Electrical-and-Electronic-Engineering-MSc)

**专业Electrical Engineering**

**课程设置：**

核心课程：

Electrical and Electronic Fundamentals for Master

Research Engineering Research Project Organisation and Design

MSc Project

**选修课程：**

Advanced Control System Design

Instrumentation and Measurement

Advanced AC Drives

Distributed Generation and Alternative Energy

Power Systems for Aerospace ,Marine and Automotive

Advanced Power Electronics

Advanced Electrical Machines

Power Networks

Renewable Generation Technologies

Systems Engineering

Electrical Machines, Drive Systems and Applications

Power Electronic Applications and Control

Sensing Systems and Signal Processing

[**https://www.nottingham.ac.uk/pgstudy/course/taught/Electrical-Engineering-MSc**](https://www.nottingham.ac.uk/pgstudy/course/taught/Electrical-Engineering-MSc)

**专业Power Electronics and Drives MSc**

**课程设置：**

核心课程：

Advanced AC Drives with Project

Advanced Control System Design

Electrical and Electronic Fundamentals for Master

MSc Project

Advanced Power Electronics

Power Systems for Aerospace ,Marine and Automotive Applications

Research Project Organisation and Design

**选修课程：**

Sensing Systems and Signal Processing

Systems Engineering

Renewable Generation Technologies

Power Networks

[**https://www.nottingham.ac.uk/pgstudy/course/taught/Power-Electronics-and-Drives-MSc**](https://www.nottingham.ac.uk/pgstudy/course/taught/Power-Electronics-and-Drives-MSc)

**专业：Electronic Communications and Computer Engineering MSc课程设置：**

core modulesElectrical and Electronic Fundamentals for Masters (autumn)20 creditsResearch Project Design and Organisation (spring)10 creditsMSc Project (Summer)Optional modulesAdvanced Computational Engineering (autumn)Artificial Intelligence and Intelligent Systems (spring)Digital Signal Processing (autumn)HDL for Programmable Devices (spring)Instrumentation and Measurement (autumn)Microwave, Millimetre and Terahertz Systems (autumn)Optical and Photonics Technology (spring)RF Electronics (spring)Analogue Electronics (autumn)Integrated Circuits and SystemsIT Infrastructure and Cyber SecurityScalable Cross-Platform Software DesignDigital CommunicationsEmbedded ComputingMobile TechnologiesOptical NetworksRobotics, Dynamics and Control (spring)Systems Engineering (spring)Sensing Systems and Signal Processing (spring)

**官网链接：**

https://www.nottingham.ac.uk/pgstudy/course/taught/Electronic-Communications-and-Computer-Engineering-MSc

**南安普顿大学**

**专业：Electronic Engineering**

#### Typical entry requirements

##### Honours Degree:

A UK bachelor’s degree with a minimum (2:1) degree (or equivalent) in Electronic Engineering or a closely related subject, and a high 2:1 in the required modules\*.（均分要求78%-80%）

IELTS 6.5 overall, with a minimum of 6.0 in all components

**课程设置：**

核心课程:

Project Preparation

Green Electronics

Digital Coding and Transmission

Digital IC and Systems Design

Microfabrication

Microsensor Technologies

Microfluidics and Lab-on-a-Chip

Bionanotechnology

Nanofabrication and Microscopy

Bio/Mirco/ Nano Systems

Radio Communications Engineering

Signal Processing

Wireless and Mobile Networks

Advanced Systems and Signal Processing

Digital Systems Synthesis

Embedded Processors

Digital Systems Design

Secure Hardware Design

Nanoelectronic Devices

An Introduction to Silicon Photonics

Optical Fibres

Optical Fibre Sensors

**官网链接:**

[**https://www.ecs.soton.ac.uk/programmes/msc-electronic-engineering#modules**](https://www.ecs.soton.ac.uk/programmes/msc-electronic-engineering#modules)

# 专业：MSc Energy and Sustainability with Electrical Power Engineering

# 课程设置：

<https://www.ecs.soton.ac.uk/programmes/msc-energy-and-sustainability-electrical-power-engineering#modules>

# 专业：MSc Mobile Communications and Smart Networking

# 课程设置：

<https://www.ecs.soton.ac.uk/programmes/msc-mobile-communications#_ga=2.14833014.1795527429.1582726553-351744750.1582726553>

# 专业：MSc Systems, Control and Signal Processing

# 课程设置：

<https://www.ecs.soton.ac.uk/programmes/msc-systems-control-and-signal-processing#_ga=2.14833014.1795527429.1582726553-351744750.1582726553>

**利兹大学**

**专业Electronic and Electrical Engineering**

**Entry requirements:**

A bachelor degree with a 2:1 (hons) in a related subject. （均分要求75%以上）

IELTS 6.5 overall, with no less than 6.0 in any component.

**课程设置：**

Modern Industry Practice

Mini Projects and Laboratory

MSc Individual Project

Optional modules (selection of typical options shown below)

Wireless Communications Systems Design

Power Electronics and Drives

Electric Power Generation by Renewable Sources

FPGA Design for System-on-Chip

Control Systems Design

Embedded Microprocessor System Design

Medical Electronics and E-Health

**官网链接：**

[**https://courses.leeds.ac.uk/23702/MSc\_%28Eng%29\_Electronic\_and\_Electrical\_Engineering**](https://courses.leeds.ac.uk/23702/MSc_%28Eng%29_Electronic_and_Electrical_Engineering)

**专业Communications and Signal Processing MSc (Eng)**

**课程设置：**

Modern Industry Practice

Wireless Communications Systems Design

Digital Signal Processing for Communications

Optical Communications Networks

Data Communications and Network Security

MSc Individual Project

Optional modules (selection of typical options shown below)

Cellular Mobile Communication Systems

Mini Projects and Laboratory

High Speed Internet Architecture

FPGA Design for System-on-Chip

Embedded Microprocessor System Design

**官网链接：**

[**https://courses.leeds.ac.uk/g235/communications-and-signal-processing-msc-eng-**](https://courses.leeds.ac.uk/g235/communications-and-signal-processing-msc-eng-)

**专业Embedded Systems Engineering MSc (Eng)**

**课程设置：**

Modern Industry Practice

Digital Signal Processing for Communications

Mini Projects and Laboratory

FPGA Design for System-on-Chip

Digital Media Engineering

Embedded Microprocessor System Design

Medical Electronics and E-Health

MSc Individual Project

Optional modules (selection of typical options shown below)

Data Communications and Network Security

**官网链接：**

[**https://courses.leeds.ac.uk/f310/embedded-systems-engineering-msc-eng-**](https://courses.leeds.ac.uk/f310/embedded-systems-engineering-msc-eng-Compulsory)

**专业Digital Communications Networks MSc (Eng)**

**课程设置：**

Compulsory modules

Modern Industry Practice

Optical Communications Networks

High Speed Internet Architecture

Data Communications and Network Security

MSc Individual

Optional modules (selection of typical options shown below)

Wireless Communications Systems

Cellular Mobile Communication Systems

FPGA Design for System-on-Chip

Digital Media Engineering

Medical Electronics and E-Health

**官网链接：**

[**https://courses.leeds.ac.uk/g276/digital-communications-networks-msc-eng-**](https://courses.leeds.ac.uk/g276/digital-communications-networks-msc-eng-)