



THE UNIVERSITY of EDINBURGH
School of Engineering

Postgraduate opportunities

MSc Signal Processing and Communications

The School of Engineering at the University of Edinburgh offers an acclaimed degree unique in Europe, providing graduates with specialist knowledge and the skills relevant to pursue a successful career in either industry or research

Introducing a Unique Course Combining the Fields of Signal Processing and Communications

Signal processing and communications provide the theoretical foundation for any application which generates, processes, transmits or stores any type of signal. A few practical examples of this technology are 5G communication networks, smart phones, sensor networks, internet applications and medical imaging.

Courses are taught with fundamental principles and use real-world system examples to demonstrate their practical applications. During the course of the year, teaching of theory is supported by one MATLAB based course providing you with experimental practice. Course work and projects are based on the current research at the Institute for Digital Communications (IDCOM), a world-renowned institute based at the University of Edinburgh developing theory, algorithms and hardware for the next generation of signal processing, imaging and communications systems.

Scholarships
[www.ed.ac.uk/
student-funding](http://www.ed.ac.uk/student-funding)

Programme Structure

This programme is delivered on-campus full time for 12 months

Taught component

Digital Communication Fundamentals
Advanced Wireless Communications
Array Processing and MIMO Systems
Image Processing
Statistical Signal Processing
Discrete-Time Signal Analysis
Digital Signal Processing Laboratory
Adaptive Signal Processing
Probability, Random Variables and Estimation Theory

Dissertation

While studying the taught courses students will also undertake preparatory work for their project. This dissertation, which will be based on a real-world problem posed by academic staff, will be completed over the summer after conclusion of the taught courses.

The University of Edinburgh is ranked 19th in the world by the QS World University Rankings 2016/17.

QS World University ranking, 2016/17

Careers

There are a number of excellent opportunities for graduates after completion of their degree. Epson, Agilent, Wolfson Microelectronics, Xilinx, Pentland Systems and Leonardo-Finmeccanica (formally Selex ES) all provide exceptional employment opportunities. IDCOM is one of the leading institutes in the UK in signal processing and digital communications. All academics are recognised experts in their fields and due to these links, you will have the opportunities to participate in cutting edge research. In addition, each year we strive to offer PhD scholarships to students who are at the top of their MSc class.

Entry requirements

You should have a UK 2:1 degree or its international equivalent typically in electronics, electrical engineering or a related area. Applications from other physical sciences are also accepted. Further information on international equivalencies can be found at: www.ed.ac.uk/studying/international/postgraduate-entry

Tuition Fee 2017/18*

UK/EU Students: £10,800

International Students: £23,700

*Fees change annually. For the most up-to-date information about fees see: www.ed.ac.uk/student-funding/tuition-fees/postgraduate/taught-fees

English Language Requirements

IELTS Academic module 6.5 (with 6.0 in each section), TOEFL iBT 92 (with 20 in each section). For more information about other qualifications we accept please go to: www.ed.ac.uk/studying/international/english/postgraduate

Contact Us

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