



Course Information Sheet for entry in 2018-19

MSc in Microelectronics, Optoelectronics and Communications

About the course

This part-time MSc is primarily a conversion course for those with a mathematics and physics background. The course provides a strong foundation in microelectronics, optoelectronics and communications, encouraging the development of a range of capabilities and allowing you to acquire essential skills and analytical abilities required to embark on a career in a relevant engineering sector.

The structure of the course has been tailored for busy people in employment who wish to minimise time away from the workplace to study. It is targeted at students who are already working in an engineering context, have a mathematics or physics undergraduate degree, and who have been encouraged by their employers to gain up-to-date knowledge and skills in three key electrical engineering sectors: microelectronics, optoelectronics and communications. This part-time course is also applicable to graduates from other disciplines in engineering.

Course modules are expected to include:

- Fundamentals of Microelectronics and Communications
- Advanced Microelectronics
- Wireless Communications
- Fundamentals of Optoelectronic Devices and Applied Optics
- Optical Communications
- Organic Electronics and Nanotechnology for Optoelectronic Devices, or Engineering in Society.

The first year consists of the Microelectronics and Communications units, which includes the principles, theories and methodologies underpinning the design of both analogue and digital electronic systems. For the Wireless Communications unit, you will learn about technologies used in the wireless communications industry and gain a critical awareness of their limitations and the new insights gained by looking at the forefront of current research.

The second year of the course will focus on the Optoelectronics units, which will cover the fundamentals of applied optics and semiconductor physics that are required to understand the performance and design of optoelectronic components and devices. You will then have the option of choosing the Organic Electronics and Nanotechnology course or the Engineering in Society unit before embarking on a dissertation.

Each of the six units includes an intensive residential week in Oxford that includes lectures, tutorials, classes and, in some cases, practical work. For each unit, these residential weeks are supplemented by the online learning environment that consists of additional course material and examples to support the distance learning and assessment.

Units are assessed through practicals, problem sets, written reports and assignments. Practical assessments are conducted when students are in Oxford. Students are provided with written feedback as well as verbal feedback from the course tutors.

For their dissertation, students normally conduct their project in their home institution or company, with the aid of supervisors from the Department of Engineering Science.

Changes to courses

The University will seek to deliver this course in accordance with the description set out above. However, there may be situations in which it is desirable or necessary for the University to make changes in course provision, either before or after registration. For further information, please see the University's Terms and Conditions.

Expected length of course

2 years

Costs

Annual fees for entry in 2018-19

Fee status	Tuition fee	College fee	Total annual fees
Home/EU (including Islands)	£8,638	£1,556	£10,194
Overseas	£9,310	£1,556	£10,866

The fees shown above are the annual tuition and college fees for this course for entry in the stated academic year; for courses lasting longer than one year, please be aware that fees will usually increase annually. Information about how much fees and other costs may increase is set out in the University's Terms and Conditions.

Tuition and college fees are payable each year for the duration of your fee liability (your fee liability is the length of time for which you are required to pay tuition and college fees).

Additional cost information

Please note that this course requires that you attend in Oxford for teaching, and you may incur additional travel and accommodation expenses for this. Further, as part of your course requirements, you may need to choose a dissertation, a project or a thesis topic. Depending on your choice of topic and the research required to complete it, you may incur additional expenses such as travel expenses.

Living costs

In addition to your tuition and college fees, you will need to ensure that you have adequate funds to support your living costs for the duration of your course.

The likely living costs for 2018-19 are published below. These costs are based on a single, full-time graduate student, with no dependants, living in Oxford. We provide the cost per month so you can multiply up by the number of months you expect to live in Oxford.

	Likely living costs for 1 month		Likely living costs for 9 months		Likely living costs for 12 months	
	Lower range	Upper range	Lower range	Upper range	Lower range	Upper range
Food	£258	£361	£2,318	£3,245	£3,090	£4,326
Accommodation	£536	£677	£4,824	£6,093	£6,432	£8,124
Personal items	£118	£263	£1,066	£2,364	£1,421	£3,152
Social activities	£41	£123	£369	£1,105	£492	£1,474
Study costs	£39	£85	£348	£765	£464	£1,020
Other	£22	£47	£202	£419	£269	£559
Total	£1,014	£1,556	£9,127	£13,991	£12,168	£18,655

When planning your finances for any future years of study at Oxford beyond 2018-19, you should allow for an estimated increase in living expenses of 3% each year.

More information about how these figures have been calculated is available at www.graduate.ox.ac.uk/livingcosts.