Addendum to the Programme Specification

7936 MSc Electronic Engineering

This Addendum has been produced to highlight the key changes made to the existing Programme Specification as a result of the University's response to the Covid-19 Pandemic. You should read it in conjunction with the relevant Programme Specification from the year you started your programme.

Programme Specification for entry in 2020-21
Programme Specification for entry in 2019-20
Programme Specification for entry in 2018-19

University level information

In view of COVID-19, the University has had to make changes to some elements of programme delivery for 2020-21. These changes have included the method of delivery, such as face-to-face and online, and the number of modules available.

The University aims to provide as much of a face-to-face component to your education as prevailing conditions at the time allow, combined with its new blended approach that will develop active independent and group online learning.

As the COVID-19 pandemic develops, the University's response to this and other issues may likewise need to evolve. The University will consult with student representatives as necessary and appropriate and will communicate changes to you as soon as practicable so that you have the information you need to understand how a change may impact you and what steps you need to take next. The University remains committed to supporting you as you learn.

Programme Information

In light of Covid-19, there will be some changes to how some group work tasks and lab works will be organised. ECS aims to reopen the teaching laboratories and hold regular scheduled sessions in S1 2020-21, following social distancing rules and regulations. In some cases, laboratory experiments have been redesigned to be either software based or virtual. In other cases, you may be working on numerical data obtained from physical experiments. Where written examinations are unable to take place due to social distancing measures, an alternative form of assessment will be offered for 2020-21

All timetabled lectures that in a normal (i.e. face-to-face) situation could be recorded will be recorded, and will be made available to all students registered on the module. The lecturing team for each module will organise question-and-answer sessions, or discussion activities aimed at approximating as much as possible personal interaction, as it occurs during lectures or seminars.

Please consider that some optional modules might have limited space available in 2020-21, based on available laboratory space.

Programme Structure

The indicative list of available optional modules can be found in the programme specifications as linked on the previous page. These options are subject to change each academic year, and in some cases there may be limited spaces available on those modules.

Programme:	MSc Electronic Engineering - 7936
Term:	2020-2021 Academic Session (202021)
Area title:	7936-1 - MSc Electronic Engineering

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester / Term
COMP 6200	MSc Project	60	Yes	Non-Standard
ELEC 6211	Project Preparation	15	No	Semester 2
ELEC 6259	Research Methods & Proj Prep	15	No	Full Academic Year

Optional Modules

You must choose from the following modules:

Module		Credit	Semester / Term
Rule 1	**Please select 90 credits** **Please select 45 credits from semester 1 and 45 credits from semester 2 from the following:**		
Rule 1 GROUP 1	**Select at least 15 credits** **You may select 15-60 credits from the following:**		
ELEC 6201	Microfabrication	15	Semester 1
ELEC 6217	Wireless Transceiver Design and Implementation	15	Semester 1
ELEC 6236	Digital System Design	15	Semester 1
OPTO 6007	Silicon Photonics	15	Semester 1
Rule 1 GROUP 2	**Select up to 75 credits**		

	You may select up to 75 CATS if you wish to follow the micro/nanoelectronics stream of options. ELEC6236 (above) is also part of this stream. If you take ELEC6237 you should also take ELEC6236. If you take ELEC6233 or ELEC6234 in S2 you should also take ELEC6236 in S1. Make sure you have the correct balance of modules in each semester.		
ELEC 3221	Digital IC and Systems Design	15	Semester 1
ELEC 6233	Digital Systems Synthesis	15	Semester 2
ELEC 6234	Embedded Processors	15	Semester 2
ELEC 6237	Secure Hardware and Embedded Devices	15	Semester 1
ELEC 6256	Nanoelectronic Devices (MSc)	15	Semester 1
Rule 1 GROUP 3	**Select up to 75 credits** **You may select up to 75 CATS if you wish to follow the micro/nanotechnology stream of options. ELEC6201 (above) is also part of this stream. If you take ELEC6203, ELEC6204 or ELEC6205 you should also take ELEC6201. If you take ELEC6208 in S2 you should also take ELEC6203 in S1. If you take ELEC3202 in S2 you should also take ELEC3207 in S1. Make sure you have the correct balance of modules in each semester.**		
ELEC 3202	Green Electronics	15	Semester 2
ELEC 6203	Microsensor Technologies	15	Semester 1
ELEC 6204	Microfluidics and Lab-on-a-Chip	15	Semester 2
ELEC 6205	Bionanotechnology	15	Semester 1
ELEC 6206	Nanofabrication and Microscopy	15	Semester 2

ELEC 6208	Bio/Micro/Nano Systems	15	Semester 2
Rule 1 GROUP 4	**Select up to 60 credits** **You may select up to 60 CATS if you wish to follow the communications stream of options. ELEC6217 (above) is also part of this stream. If you take ELEC6219 in S2 you should also take ELEC3203 in S1. If you take ELEC6229 in S2 you should also take ELEC6218 in S1. Make sure you have the correct balance of modules in each semester.**		
ELEC 3203	Digital Coding and Transmission	15	Semester 1
ELEC 6218	Signal Processing	15	Semester 1
ELEC 6219	Wireless and Mobile Networks	15	Semester 2
ELEC 6229	Advanced Systems and Signal Processing	15	Semester 2
Rule 1 GROUP 5	**Select up to 30 credits** **You may select up to 30 CATS if you wish to follow the optoelectronics stream of options. OPTO6007 (above) is also part of this stream. If you take OPTO6011 in S2 you should also take OPTO6008 in S1. Make sure you have the correct balance of modules in each semester.**		
OPTO 6008	Optical Fibres	15	Semester 1
OPTO 6011	Optical Fibre Sensors	15	Semester 2

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term

COMP 6200	MSc Project	60	Yes	Non-Standard