

# Addendum to the Programme Specification

## 7013 BEng Aerospace 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

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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

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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.

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. Where written examinations are unable to take place due to social distancing measures, an alternative form of assessment will be offered for 2020-21

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

## Programme Structure

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Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note that, in some instances, modules have limited spaces available.

<b>Programme:</b>	BEng Aerospace Electronic Eng - 7013
<b>Term:</b>	2020-2021 Academic Session (202021)
<b>Area title:</b>	7013-1 - BEng Aerospace Elec Eng P1

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
<a href="#">ELEC 1028</a>	TT Personal Tutorial	0	No	Full Academic Year
<a href="#">ELEC 1029</a>	TT ELEC Labs Yr1	0	No	Full Academic Year
<a href="#">ELEC 1200</a>	Electronic Circuits	15	Yes	Semester 1
<a href="#">ELEC 1201</a>	Programming	15	Yes	Semester 1
<a href="#">ELEC 1202</a>	Digitl Systms & Microprocessors	15	Yes	Semester 1
<a href="#">ELEC 1203</a>	Mechanics	15	Yes	Semester 2
<a href="#">ELEC 1205</a>	Solid State Devices	15	Yes	Semester 2
<a href="#">ELEC 1207</a>	Electronic Systems	15	Yes	Semester 2
<a href="#">ELEC 1208</a>	Flight Mech & Aeros Syst Eng	15	Yes	Full Academic Year
<a href="#">MATH 1055</a>	Maths for Elec & Elec Eng	15	Yes	Full Academic Year
<a href="#">MATH 1061</a>	Engineering Maths Workshop	0	No	Full Academic Year

<b>Programme:</b>	BEng Aerospace Electronic Eng - 7013
<b>Term:</b>	2020-2021 Academic Session (202021)
<b>Area title:</b>	7013-2 - BEng Aerospace Elec Eng P2

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
<a href="#">ELEC 2024</a>	TT Electronic Labs Yr2	0	No	Full Academic Year
<a href="#">ELEC 2208</a>	Power Electronics and Drives	15	No	Semester 2

<a href="#">ELEC 2211</a>	Electromech Energy Conversion	15	No	Semester 1
<a href="#">ELEC 2213</a>	Electrical Machines	15	No	Semester 2
<a href="#">ELEC 2220</a>	Control & Communications	15	No	Semester 1
<a href="#">ELEC 2221</a>	Digital Syst & Signal Process	15	No	Semester 1
<a href="#">ELEC 2223</a>	Aerospace Electronics Design	15	No	Full Academic Year
<a href="#">ELEC 2224</a>	Radar Techniques & Application	15	No	Semester 2
<a href="#">MATH 2047</a>	Maths for Elec & Elec Eng II	15	No	Semester 1

<b>Programme:</b>	BEng Aerospace Electronic Eng - 7013
<b>Term:</b>	2020-2021 Academic Session (202021)
<b>Area title:</b>	7013-3 - BEng Aerospace Elec Eng P3

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
<a href="#">COMP 3200</a>	Part III Individual Project	45	Yes	Full Academic Year
<a href="#">ELEC 3224</a>	Guidance, Navigation & Control	15	No	Semester 1
<a href="#">ELEC 3225</a>	Space Systems Engineering	15	No	Semester 1

Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term
Rule 1	<p><b>Select 45 credits</b></p> <p><b>Fifteen credits in Semester 1 and thirty credits in Semester 2</b></p>		
<a href="#">COMP 3215</a>	Real-Time Computing and Embedded Systems	15	Semester 1
<a href="#">COMP 3217</a>	Security of Cyber Physical Systems	15	Semester 2
<a href="#">COMP 3219</a>	Engineering Management and Law	15	Semester 1

<a href="#">ELEC 3201</a>	Robotic Systems	15	Semester 1
<a href="#">ELEC 3204</a>	Wireless and Optical Communications	15	Semester 2
<a href="#">ELEC 3205</a>	Control System Design	15	Semester 1
<a href="#">ELEC 3206</a>	Digital Control System Design	15	Semester 2
<a href="#">ELEC 3213</a>	Power Systems Engineering	15	Semester 2
<a href="#">ELEC 3214</a>	Power Systems Technology	15	Semester 1
<a href="#">ELEC 3216</a>	Mechanical Power Transmission and Vibration	15	Semester 2
<a href="#">ELEC 3218</a>	Signal and Image Processing	15	Semester 1
<a href="#">LANG XX15</a>	Language Module	15	<a href="#">Show Electives</a>
<a href="#">MATH 3081</a>	Operational Research	15	Semester 1
<a href="#">MATH 3082</a>	Optimisation	15	Semester 2
<a href="#">MATH 3083</a>	Advanced Partial Differential Equations	15	Semester 1
<a href="#">MATH 3084</a>	Integral Transform Methods	15	Semester 2
<a href="#">SESG 3024</a>	Manufacturing and Materials	15	Semester 1
<a href="#">SESM 3031</a>	Automobile Systems	15	Semester 1
UOSM ----	A maximum of 15 credits in any level NQF5 module in subject UOSM ("Broadening Horizons")		<a href="#">Show Electives</a>