

Programme Regulations: 2026/27

Programme Titles:

Degree of Bachelor of Engineering with Honours in Electrical and Electronic Engineering with International Foundation

Code: 1981U - Sept intake
1982U - Jan intake

Notes

- (i) *These programme regulations should be read in conjunction with the University's Taught Programme Regulations.*
- (ii) *Unless otherwise stated under 'Type', modules are not core.*
- (iii) *A compulsory module is a module which a student is required to study.*
- (iv) *A core module is a module which a student must pass, and in which a fail mark may neither be carried nor compensated; such modules are designated by the board of studies as essential for progression to a further stage of the programme or for study in a further module.*
- (v) *All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.*
- (vi) *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*
- (vii) *Programme transfers for Tier 4 students may be restricted by current Tier 4 rules. Please refer to the Visa Team for advice.*

1. Stage 0 – January intake

- (a) All candidates shall take the following compulsory modules:

Jan Intake	Sept Intake	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
INU0502	INU0102	English for Academic Purposes – Foundation	40	20	20	3	Core
INU0514	INU0114	Mathematics for Physical Sciences and Engineering 1	20	10	10	3	
INU0515	INU0115	Mathematics for Physical Sciences and Engineering 2	20	10	10	3	
INU0516	INU0116	Physics for Engineering	20	10	10	3	
INU0522	INU0122	Study Skills (for Foundation)	20	10	10	3	

Resit Assessment

As an exception to the University Taught Programme Regulations re-assessment may take place before the August/September period on the recommendation of an interim progress board.

For the English for Academic Purposes (EAP) module, the following will apply:

Note: The required pass mark for the module is 60 (an average of the four subskills (reading, listening, writing and speaking). The required competence level (as determined by UKVI regulations) in each subskill is 55. A minimum mark of 55 in all subskills as well as an average of 60 across all four components is required to pass the EAP module.

If a student has achieved a module mark of 60 or more but has one or more subskill mark of less than 55, then in line with Programme Regulations the student has not passed the module. In this case, the student will be required to re-sit only those subskills where they have failed to achieve the competence level of 55.

A student will only be granted one re-sit opportunity.

The second attempt result achieved at the subskill level will be capped at 60, but the overall module mark will be uncapped. The overall module mark will be calculated as an average of the capped mark(s) achieved at the second attempt, together with any first attempt subskill mark(s) where a re-sit was not required. This is to ensure that the University is provided with the student's actual English language competence level and that the re-sit capping penalty is only attached to those components being retaken.

2. Stage 1

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Type</i>
ENG1001	Engineering Mathematics I	20	10	10	4	
ENG1003	Electrical and Magnetic Systems	15	10	5	4	
ENG1004	Electronics & Sensors	10		10	4	
ENG1005	Thermofluid Mechanics	15	5	10	4	
ENG1006	Properties and Behaviour of Engineering Materials	15	15		4	
ENG1007	Mechanics I	15	5	10	4	
ENG1008	Introduction to Programming Languages (C, Matlab and Python)	15	8	7	4	
ENG1009	Sustainable Design, Creativity and Professionalism	15	7	8	4	

3. Stage 2

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Type</i>
EEE2008	Project and Professional Issues	20		20	5	
EEE2009	Signals and Communications	20	20		5	
EEE2014	Semiconductor Devices and Analogue Electronics	20	20		5	
EEE2021	Computer Programming and Organisation	20	10	10	5	
ENG2025	Digital Electronics	10		10	5	
ENG2026	Automatic Control Systems	10		10	5	
ENG2029	AC Electrical Power and Conversion	10		10	5	
ENG2031	Mathematical Modelling and Statistical Methods for Engineering	10		10	5	

4. Stage 3

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Type</i>
EEE3024	Industrial Automation & Control Systems	20	10	10	6	
EEE3094	Individual Project and Technical Report	30	10	20	6	
ENG2032	Business and Law for Engineers	10		10	5	

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- (b) Candidates must choose one of the following three specialism as indicated below (modules cannot be mixed between specialisms):

Microsystems

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>specialism *</i>
EEE3023	Digital Communication Systems	20	10	10	6	
EEE3026	Electronic Devices and Semiconductor Technology	20	10	10	6	
EEE3027	Integrated Circuit Design and Embedded System	20	10	10	6	

Communications

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
EEE3023	Digital Communication Systems	20	10	10	6
EEE3027	Integrated Circuit Design and Embedded System	20	10	10	6
EEE3030	Signal Processing and Machine Learning	20	10	10	6

Electrical Power

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
EEE3025	Power Electronics – Design & Applications	20	10	10	6
EEE3028	Electrical Machines and Drives	20	10	10	6
EEE3029	Net-Zero Energy Networks	20	10	10	6

With the approval of the Degree Programme Director alternative optional modules to those listed above may be selected.

5. Assessment Methods

Details of the assessment pattern in each module are explained in the module outline.

6. Degree classification

Candidates will be assessed for the degree classification on the basis of all the modules taken at Stages 2 and 3 with the weightings of the stages being 1:2 for Stage 2 and Stage 3 respectively.