

Programme Regulations: 2021/22

Programme Titles

Degree of Master of Engineering with Honours in Electronics and Computer Engineering with Industrial Project - UCAS Code: H654 (with Foundation Year – UCAS Code: H606)

Degree of Master of Engineering with Honours in Electronics and Computer Engineering with Industrial Project with Placement Year - Code: 1191U

Notes

- (i) *These programme regulations should be read in conjunction with the University's Taught Programme Regulations.*
- (ii) *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.*
- (iii) *A compulsory module is a module which a student is required to study.*
- (iv) *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*
- (v) *If a candidate meets the requirements for the three year degree BEng in Electronics and Computer Engineering (H652) they may transfer to that programme at any time before the start of Stage 3.*
- (vi) *Programme transfers for Tier 4 students may be restricted by current Tier 4 rules. Please refer to the Visa Team for advice.*

See also:

Stage 0 (Foundation Year) for all Degrees of Bachelor of Engineering with Honours and Master of Engineering with Honours

1. Stage 0

Candidates who do not meet the requirements for entry into Stage 1 may with approval of the Degree Programme Director commence this degree programme at Stage 0 and shall proceed under the regulations relating to Stage 0.

2. Stage 1

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>
CSC1036	Programming Portfolio	30		30	4
ENG1001	Engineering Mathematics I	20	10	10	4
ENG1002	Sustainable Design & Professional Skills I	30	10	20	4
ENG1003	Electrical and Magnetic Systems	15		15	4
ENG1004	Electronics & Sensors	10	10		4
ENG1006	Properties and Behaviour of Engineering Materials	15	15		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>
CSC2031	Security & Programming Paradigms	20	20		5
CSC2032	Algorithm Design & Analysis	10	10		5
EEE2007	Computer Systems and Microprocessors	20	10	10	5
EEE2008	Project and Professional Issues	20		20	5
EEE2009	Signals and Communications	20	20		5
ENG2025	Digital Electronics	10		10	5
EEE2016	Analogue Electronics	10	10		5
EEE2019	Engineering Internet of Things Project	10		10	5

(b) To progress to Stage 3 of this degree programme, candidates are required to obtain an average over all modules taken at Stage 2 of at least 55 at the first attempt.

4. Stage 3

(a) All candidates shall take the following compulsory module(s):

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
CSC3121	Distributed Systems	10	10		6
EEE3015	Telecommunication Networks	10		10	6
ENG2001	Accounting, Finance and Law for Engineers	10	5	5	5

(b) All candidates shall take **one** of the following optional 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>
EEE3095	Individual Project and Dissertation	40	20	20	6
EEE3096	Individual Project and Dissertation	40	10	30	6
EEE3097	Individual Project and Dissertation	40	30	10	6

(c) All candidates must take optional modules from the following list so that the total number of credits is 120:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
CSC3634+	Fault Tolerant and Cyber-Physical Systems	20	20		6
CSC3131*	Building Systems for People	20	20		6
CSC3632+	System and Network Security	20	20		6
EEE3001	Linear Controller Design and State Space Analysis	10	10		6
EEE3004	Digital Signal Processing	10	10		6
EEE3008	Industrial Automation and Robotics	10	10		6
EEE3009+	Real Time and Embedded Systems	10		10	6

EEE3013	Image Processing and Machine Vision	10		10	6
EEE3016	Photonics	10		10	6

+ Recommended modules

*Degree Programme Director approval is required for this optional module.

- (d) When selecting Stage 3 optional modules, candidates must ensure that they include the pre-requisites for their intended Stage 4 specialist module. When selecting Stage 4 modules, candidates must be aware that Industrial Placements take place during Semester 1.
- (e) To progress to Stage 4 of this degree programme, candidates are required to obtain an average over all modules taken at Stage 3 of at least 50 at the first attempt.

5. Year 4 (Placement Year)

On completion of Stage 3 and before entering Stage 4, candidates may as part of their studies for the degree spend a year in a placement with an approved organisation. Permission to undertake a placement is subject to the approval of the Degree Programme Director. Students who are required to re-sit their Stage 3 assessment must delay the start of their placement until they have done so. Students who fail Stage 3 may not complete a placement year.

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
NCL3000	Careers Service Placement Year Module	120	60	60	6

6. Stage 4

- (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>
EEE8113	Group Design Project	30		30	7
EEE8114	Industrial Project	40	40		7
EEE8106	Extended Course Work on Applications and Design (ECAD)	10	10		7

- (b) All candidates shall take the following specialist module.

<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>Mode</i>
EEE8127	Microelectronics Design Tools	20		20	7	Block

- (c) All candidates must take a 20 credit optional module from the table below.

<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>Mode</i>
EEE8116	Bioelectronics	20	20		7	Block
EEE8124	Low Power VLSI Design	20		20	7	Block

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

7. Assessment Methods

Details of the assessment pattern in each module are explained in the module outline. To satisfy IET accreditation requirements, a module comprising two assessment modes (coursework and examination) that assess different learning outcomes and each mode contributes more than 30% to the overall module mark, can only be passed if neither assessment mode is awarded a mark that is no more than 10% below the normal module pass mark.

8. Subject to University Confirmation: Engineering Council Policy on Compensation and Condonement

For students who started stage one from 2018/19, the Engineering Council's policy on compensation and condonement will apply to marks awarded for modules at all stages, to satisfy IET accreditation requirements. To be awarded an accredited honours degree, only a maximum of 30 credits can be compensated over the duration of the degree programme. Furthermore, the condonement policy does not allow the failure of any compulsory or optional module on the degree programme, where the final mark is 10 percentage points or more below the pass mark.

Any student not satisfying IET accreditation requirements, but satisfying University's Degree and Assessment regulations, will have the opportunity to be awarded a non-accredited honours degree with its classification based on the overall final stage averages beyond stage one.

9. Degree classification

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