

## Programme Regulations: 2021/22

### Programme Title:

**Degree of Master of Engineering with Honours in Power Engineer (Degree Apprenticeship) - UCAS Code: H630**

#### 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.*

### 1. Stage 1/Year 1

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

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
ENG1001	Engineering Mathematics I	20	10	10	4	Core
ENG1002	Sustainable Design, Creativity, and Professionalism	30	10	20	4	
ENG1003	Electrical and Magnetic Systems	15		15	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	

### 2. Stage 2/Year 2

- (a) All candidates shall take the following compulsory modules in the first semester of the second year of the programmes:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
EEE2012	Control and Electrical Machines	20	20		5
EEE2014	Semiconductor Devices and Analogue Electronics	20	20		5
EEE2017	Communication in Engineering Practice	20	20		5

### 3. Stage 2/Year 3

- (a) All candidates shall take the following compulsory modules in the second semester of the second year of the programmes:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
EEE2009	Signals and Communications	20	20		5
EEE2015	Electromagnetic Fields and Waves	10		10	5

EEE2018	Project and Professional Issues (DA)	30		30	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/Year 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>
EEE3002	Electrical Machines	10	10		6
EEE3008	Industrial Automation and Robotics	10	10		6
EEE3009	Real Time and Embedded Systems	10	10		6
EEE3021	Renewable Energy Systems and Smart Grids	10		10	6
EEE8013	Linear Controller Design and State Space with Matlab Applications	15	15		7
EEE8017	Power Systems Operation and Analysis	15		15	7
EEE8111	Study Project	10	10		7
EEE8132	Industrial Project (Degree Apprenticeship)	30		30	7
ENG2001	Accounting, Finance and Law for Engineers	10	5	5	5

- (b) 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. Stage 4/Year 5

- (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>
EEE8012	Power Electronics – Design & Implementation	15		15	7
EEE8046	Asset Management, Maintenance and Condition Monitoring	15		15	7
EEE8047	Network Design and Automation	15		15	7
EEE8078	Power Network Protection and Control	15	15		7
EEE8130	Electrical Power Engineering Degree Apprenticeship End Point Assessment	60	20	40	7

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

- (b) Only candidates who successfully complete EEE8130 will be able to be considered for a degree classification in MEng Power Engineer (Degree Apprenticeship). Furthermore, only candidates who are awarded the MEng Power Engineer (Degree Apprenticeship) will be considered for the award of the apprenticeship by the employer.

## **6. Assessment methods**

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

For the purpose of professional accreditation anticipated, the University's Learning, Teaching and Student Experience Committee has approved a variation in Undergraduate Examination Convention J.34 to the effect that the maximum number of credits that may be compensated is 20 only

## **7. Degree classification**

Candidates will be assessed for the degree classification on the basis of all the modules taken at Stages 2, 3 and 4 with the weightings of the stages being 1:3:3 for Stage 2, Stage 3 and Stage 4 respectively.