

## Programme Regulations: 2026/27

### Programme Title: BEng (Hons) Degree Apprenticeship in Product Design and Development Engineering – Advanced Manufacturing

UCAS Code: 1903U

#### 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) *Unless otherwise stated under 'Type', modules are not core.*
- (iv) *A compulsory module is a module which a student is required to study.*
- (v) *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.*
- (vi) *All modules are delivered in blended mode unless stated otherwise as linear, eLearning or distance learning.*
- (vii) *This programme is a Degree Apprenticeship and will contain a submission of an End Point Assessment (EPA) before any award is acknowledged.*
- (viii) *The period of study for this degree apprenticeship shall normally be 4 years starting in September.*
- (ix) *To receive retrospective accreditation (if approval is sought and awarded) appropriate assessment conditions will need to be met.*

#### 1. 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>	<i>Mode</i>
ENG1501	Engineering Mathematics 1	20	10	10	4	Core	Blended
ENG1502	Industrial Project 1 – Design and Professional Skills	30	10	20	4	Core	Distance
ENG1503	Electrical and Magnetic Systems	20	10	10	4	Core	Blended
ENG1504	Electronics and Sensors	10		10	4	Core	Blended
ENG1506	Properties and Behaviours of Engineering Materials	20	20		4	Core	Blended
ENG1507	Mechanics 1	20	10	10	4	Core	Blended

#### 2. Stage 2/Year 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>	<i>Mode</i>
ENG2501	Engineering Mathematics 2	10	10		5	Core	Blended

ENG2502	Automatic Control Systems	10		10	5	Core	Blended
ENG2503	Energy Sources and Storage	10	10		5	Core	Blended
ENG2505	Materials Science	10	10		5	Core	Blended
ENG2509	Electrical Power and Conversion	10		10	5	Core	Blended

### 3. Stage 2/Year 2

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

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Mode
ENG2504	Mechanics II	20		20	5	Core	Blended
ENG2506	Mathematical Modelling and Statistical Methods	10		10	5	Core	Blended
ENG2507	Design and Manufacturing	20	10	10	5	Core	Blended
ENG2508	Semiconductor Devices and Analogue Electronics	20	20		5	Core	Blended

### 4. Stage 3

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

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Mode
ENG3502	Electric Drives – Application, Control and Manufacture	20	10	10	6	Core	Blended
ENG3504	Industrial Automation, PLCs and Robotics	20	10	10	6	Core	Blended
ENG3509	Digital Control, Embedded Systems, Fieldbus Technology	20	10	10	6	Core	Blended
ENG3510	Machinery Fault Diagnosis and Prognosis	20	10	10	6	Core	Blended
ENG3594	Industrial Project 2 (Dissertation module)	40	20	20	6	Core	Distance

### 5. Assessment methods

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

Apprentices must complete and pass all credit carrying modules of the BEng Honours engineering degree accredited by an Engineering Council (UK) licensed Professional Engineering Institution (PEI).

### 6. 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.

#### *Award of the Apprenticeship*

Apprenticeship Grading Performance in the EPA will determine the apprenticeship grade of pass, merit, distinction or fail. Each end-point assessment method will be marked and graded, and each should be passed. The individual grades will then be aggregated to produce the final apprenticeship grade. To gain an

apprenticeship pass or higher grade, the apprentice must achieve a minimum of a pass in each method. An apprenticeship pass represents full competence against the standard. A grade of merit or distinction means an apprentice is demonstrating competence above the standard.

*Award of the BEng (Hons) in Industrial Automation and Control Systems*

Apprentices cannot successfully complete the Bachelors' degree without passing the EPA and vice versa.