

These programme regulations should be read in conjunction with the University's [core regulations for undergraduate programmes](#).

## **MEng General Engineering (H100)**

1. This programme is available at Durham City, in a full-time mode of study.

### **Level 1 (Certificate)**

2. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Applied Mechanics I	<a href="#">ENGI1091</a>	20
Electrical Engineering I	<a href="#">ENGI1101</a>	20
Thermodynamics & Fluid Mechanics I	<a href="#">ENGI1111</a>	20
Electronic Fundamentals & Manufacture	<a href="#">ENGI1121</a>	20
Mathematics for Engineers and Scientists	<a href="#">MATH1551</a>	20

3. Candidates shall also study and be assessed in modules to the value of 20 credits offered by any Boards of Studies (including appropriate credit-bearing language modules offered by the University's [Centre for Foreign Language Study](#)).

### **Level 2 (Diploma)**

4. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Systems Modelling and Computing	<a href="#">ENGI2011</a>	20
Analytical Methods	<a href="#">ENGI2051</a>	20
Mechanics and Materials	<a href="#">ENGI2141</a>	20
Manufacturing and Electromechanics	<a href="#">ENGI2151</a>	20
Electronics and Design	<a href="#">ENGI2161</a>	20
Thermofluids and Design	<a href="#">ENGI2171</a>	20

### **Level 3 (Degree)**

#### **EITHER (Civil Engineering Route)**

5. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Soil Engineering	<a href="#">ENGI3311</a>	20
Structures and Geomatics	<a href="#">ENGI3301</a>	20
Environmental Engineering	<a href="#">ENGI3341</a>	20
Applied Mechanics III	<a href="#">ENGI3411</a>	20
Civil Design	<a href="#">ENGI3401</a>	20
Design and Management for Civil Engineering	<a href="#">ENGI3381</a>	20

#### **OR (Electrical Engineering Route)**

6. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Control and Signal Processing	<a href="#">ENGI3391</a>	20
Electrical Engineering	<a href="#">ENGI3371</a>	20
Electronics	<a href="#">ENGI3361</a>	20
Thermodynamics and Fluid Mechanics	<a href="#">ENGI3291</a>	20
Engineering Design	<a href="#">ENGI3351</a>	20
Management and Manufacture	<a href="#">ENGI3421</a>	20

#### **OR (Electronic Engineering Route)**

7. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Electronics	<a href="#">ENGI3361</a>	20
Computer Architecture and Communications	<a href="#">ENGI3321</a>	20
Microelectronics	<a href="#">ENGI3331</a>	20
Control and Signal Processing	<a href="#">ENGI3391</a>	20

Engineering Design	<a href="#">ENGI3351</a>	20
Management and Manufacture	<a href="#">ENGI3421</a>	20

**OR (Mechanical Engineering Route)**

8. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Control and Signal Processing	<a href="#">ENGI3391</a>	20
Electrical Engineering	<a href="#">ENGI3371</a>	20
Applied Mechanics III	<a href="#">ENGI3411</a>	20
Thermodynamics and Fluid Mechanics	<a href="#">ENGI3291</a>	20
Engineering Design	<a href="#">ENGI3351</a>	20
Management and Manufacture	<a href="#">ENGI3421</a>	20

**Level 4 (Degree)**

**EITHER (Aeronautics)**

9. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Aeromechanics	<a href="#">ENGI4231</a>	20
Fluid Mechanics and Turbomachinery	<a href="#">ENGI4221</a>	20
Applied Mechanics	<a href="#">ENGI4211</a>	20
MEng Research and Development Project	<a href="#">ENGI4093</a>	60

**OR (Civil Engineering)**

10. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Geotechnical and Highway Engineering	<a href="#">ENGI4161</a>	20
Civil Design and Materials	<a href="#">ENGI4141</a>	20
Hydrology and the Environment	<a href="#">ENGI4151</a>	20
MEng Research and Development Project	<a href="#">ENGI4093</a>	60

**OR (Design and Operations Engineering)**

11. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
MEng Technical Project	<a href="#">ENGI4112</a>	40
MEng Industrial Project	<a href="#">ENGI4111</a>	20
Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
Enterprise and Operations	<a href="#">ENGI4311</a>	20

12. Candidates shall also study and be assessed in modules to the value of 20 credits from List A:

<b>List A:</b>		<b>Credit value</b>
Applied Mechanics	<a href="#">ENGI4211</a>	20
Digital Systems	<a href="#">ENGI4251</a>	20
Energy Conversion and Delivery	<a href="#">ENGI4271</a>	20

**OR (Electronic Engineering)**

13. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Digital Systems	<a href="#">ENGI4251</a>	20
Microelectronics	<a href="#">ENGI4131</a>	20
Communications Systems	<a href="#">ENGI4121</a>	20
MEng Research and Development Project	<a href="#">ENGI4093</a>	60

**OR (Mechanical Engineering)**

14. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Applied Mechanics	<a href="#">ENGI4211</a>	20
Fluid Mechanics and Turbomachinery	<a href="#">ENGI4221</a>	20
MEng Research and Development Project	<a href="#">ENGI4093</a>	60

15. Candidates shall also study and be assessed in modules to the value of 20 credits from List B:

<b>List B:</b>		<b>Credit value</b>
Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
Enterprise and Operations	<a href="#">ENGI4311</a>	20
Energy Markets, Low Carbon and Thermal Technologies	<a href="#">ENGI4281</a>	20

### **OR (New and Renewable Energy)**

16. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Energy Conversion and Delivery	<a href="#">ENGI4271</a>	20
Energy Markets, Low Carbon and Thermal Technologies	<a href="#">ENGI4281</a>	20
MEng Research and Development Project	<a href="#">ENGI4093</a>	60

17. Candidates shall also study and be assessed in modules to the value of 20 credits from List C:

<b>List C:</b>		<b>Credit value</b>
Digital Systems	<a href="#">ENGI4251</a>	20
Applied Mechanics	<a href="#">ENGI4211</a>	20
Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
Enterprise and Operations	<a href="#">ENGI4311</a>	20

### **Assessment, progression and award**

18. Professional Awareness in Engineering Course (PEAC). Although not part of the formal assessment of any module, attendance at this is compulsory for professional body accreditation of the degree.
19. An exemption has been given to the Core Regulations so that students who wish to progress to Level 2 of the MEng are required to achieve an average marks of 50% across all modules excluding the free choice open module studied at Level 1, with no mark for a module below 40%. Students who fail to achieve this standard but whose marks are consistent with the requirements of the Core Regulations for progression from Level 1 to Level 2 shall be permitted to progress to Level 2 of the BEng in General Engineering in the Honours or Ordinary stream in accordance with the Core Regulations.
20. Students who fail to achieve the standard required under the Core Regulations for progression to Level 3 of an MEng but who achieve the standard required for progression to Level 3 of a Bachelors programme may progress to Level 3 of the BEng in General Engineering in the Honours or Ordinary stream in accordance with the Core Regulations.
21. A student who is qualified to progress from Level 2 to Level 3 of an MEng programme but wishes to transfer to Level 3 of the BEng in General Engineering shall be permitted to do so.
22. A student who has satisfied the requirements for progression from Level 2 to Level 3 of an MEng programme and whose language ability is satisfactory to the Board of Studies may be allowed to undertake Level 3 on an agreed student exchange scheme at an overseas university. This is subject to the availability of appropriate places at the overseas university.
23. Students whose achievement at the end of Level 3 does not qualify them to proceed to Level 4 may be awarded the degree of BSc Engineering at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelors degree.
24. Students who successfully complete the Electronic Engineering route at Level 3 may register for the following specialisms at Level 4: Electronic Engineering OR Design and Operations Engineering.
25. Students who successfully complete the Electrical Engineering route at Level 3 may register for the following specialisms at Level 4: New and Renewable Energy OR Design and Operations Engineering.
26. Students who successfully complete the Mechanical Engineering route at Level 3 may register for the following specialisms at Level 4: Mechanical Engineering OR Aeronautics OR Design and Operations Engineering OR New and Renewable Energy.
27. Students who successfully complete the Civil Engineering route at Level 3 may register for the following specialism at Level 4: Civil Engineering.

28. A student whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MEng may be awarded the degree of BSc Engineering at Honours level in accordance with the Core Regulations for the award of a Bachelors degree.

**Professional accreditation**

29. This programme is accredited, depending on the specialism chosen in Level 4:

- a. by the IET for students entering Level 1 up to and including October 2013 (Design and Operations Engineering, Electronic Engineering, Mechanical Engineering, New and Renewable Energy specialisms);
- b. by the IMechE for students entering Level 1 up to and including October 2013 provided a 2.2 degree classification or above is achieved (Aeronautics, Design and Operations Engineering, Mechanical Engineering, New and Renewable Energy specialisms);
- c. by the JBM (ICE, IStructE, IHE, CIHT) for students entering Level 1 up to and including October 2013 (Civil Engineering specialism).