

**MEng GENERAL ENGINEERING (H100)**  
**MEng CIVIL ENGINEERING (H200)**  
**MEng MECHANICAL ENGINEERING (H300)**  
**MEng AERONAUTICS (H420)**  
**MEng ELECTRONIC ENGINEERING (H610)**  
**MEng COMMUNICATIONS ENGINEERING (H640)**  
**MEng DESIGN AND OPERATIONS ENGINEERING (H150)**  
**MEng NEW AND RENEWABLE ENERGY (H221)**

Programme offered at: Durham.

Mode of study: this programme is available full-time.

**LEVEL 1 (Certificate)**

1	Engineering 1A	<a href="#">ENGI1091</a>	20
2	Engineering 1B	<a href="#">ENGI1101</a>	20
3	Engineering 1C	<a href="#">ENGI1111</a>	20
4	Engineering 1D	<a href="#">ENGI1121</a>	20
5	Mathematics for Engineers and Scientists	<a href="#">MATH1551</a>	20
6	One 20 credit open module chosen from:		20
	EITHER	One 20 credit Level 1 open module offered by any Board of Studies	
	OR	An open 20 credit language module offered by the Language Centre	

Notes:

PEAC (Professional Awareness in Engineering Course). Although not part of the formal assessment of any module, attendance at this is compulsory for professional body accreditation of the degree.

An exemption has been given to the Core Regulations so that students are required to achieve an average mark of 50%, across all modules excluding the free choice open module studied at Level 1, with no mark for a module below 40% to progress to Level 2 of an MEng programme. 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.

**LEVEL 2 (Diploma)**

1	Systems Modelling and Computing	<a href="#">ENGI2011</a>	20
2	Analytical Methods	<a href="#">ENGI2051</a>	20
3	Mechanics and Materials	<a href="#">ENGI2141</a>	20
4	Manufacturing and Electromechanics	<a href="#">ENGI2151</a>	20
5	Electronics and Design	<a href="#">ENGI2161</a>	20
6	Thermofluids and Design	<a href="#">ENGI2171</a>	20

Notes:

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;

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;

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. Students who take part in the student exchange scheme will not be able to register on the MEng General Engineering at level 4.

**LEVEL 3 (Degree)**

	EITHER: Electronic Engineering <sup>(i)</sup>		
1	Electronics	<a href="#">ENGI3361</a>	20
2	Computer Architecture & Communications	<a href="#">ENGI3321</a>	20
3	Microelectronics	<a href="#">ENGI3331</a>	20
4	Control and Signal Processing	<a href="#">ENGI3391</a>	20
5	Engineering Design	<a href="#">ENGI3351</a>	20
6	Management & Electronic Manufacture	<a href="#">ENGI3431</a>	20

	OR: Electrical Engineering <sup>(ii)</sup>		
1	Control and Signal Processing	<a href="#">ENGI3391</a>	20
2	Electrical Engineering	<a href="#">ENGI3371</a>	20
3	Electronics	<a href="#">ENGI3361</a>	20
4	Thermodynamics & Fluid Mechanics	<a href="#">ENGI3291</a>	20
5	Engineering Design	<a href="#">ENGI3351</a>	20
6	Management & Manufacture	<a href="#">ENGI3421</a>	20
	OR: Mechanical Engineering <sup>(iii)</sup>		
1	Control and Signal Processing	<a href="#">ENGI3391</a>	20
2	Electrical Engineering	<a href="#">ENGI3371</a>	20
3	Applied Mechanics	<a href="#">ENGI3411</a>	20
4	Thermodynamics & Fluid Mechanics	<a href="#">ENGI3291</a>	20
5	Engineering Design	<a href="#">ENGI3351</a>	20
6	Management & Manufacture	<a href="#">ENGI3421</a>	20
	OR: Civil Engineering <sup>(iv)</sup>		
1	Soil Engineering	<a href="#">ENGI3311</a>	20
2	Structures and Surveying	<a href="#">ENGI3301</a>	20
3	Environmental Engineering	<a href="#">ENGI3341</a>	20
4	Applied Mechanics	<a href="#">ENGI3411</a>	20
5	Civil Design	<a href="#">ENGI3401</a>	20
6	Design and Management for Civil Engineering	<a href="#">ENGI3381</a>	20

Notes:

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 in Engineering at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelors degree.

- (i) Students who successfully complete the Electronic Engineering stream in Level 3 may register for Electronic Engineering (H610) or Computer Engineering (H130) or Communications Engineering (H640) or Design and Operations Engineering (H150) at Level 4;
- (ii) Students who successfully complete the Electrical Engineering stream in Level 3 may register for New and Renewable Energy (H221) or Design and Operations Engineering (H150) or General Engineering (H100) at Level 4;
- (iii) Students who successfully complete the Mechanical Engineering stream in Level 3 may register for New and Renewable Energy (H221) or Design and Operations Engineering (H150) or Mechanical Engineering (H300) or Aeronautics (H420) or General Engineering (H100) at Level 4;
- (iv) Students who successfully complete the Civil Engineering stream in Level 3 may register for Civil Engineering (H200) at Level 4.

LEVEL 4 (Degree)

EITHER

	<u>MEng Electronic Engineering (H610)</u> <sup>(i)</sup> ✕		
1-3	MEng Research and Development Project	<a href="#">ENGI4093</a>	60
4	Digital Systems	<a href="#">ENGI4251</a>	20
5	Microelectronics	<a href="#">ENGI4131</a>	20
6	Communications Systems	<a href="#">ENGI4121</a>	20

OR

	<u>MEng Communications Engineering (H640)</u> <sup>(i)</sup> ✕		
1-3	MEng Research and Development Project	<a href="#">ENGI4093</a>	60
4	Communications Systems	<a href="#">ENGI4121</a>	20
5	Digital Systems	<a href="#">ENGI4251</a>	20
6	Microelectronics	<a href="#">ENGI4131</a>	20

OR

	<u>MEng New and Renewable Energy (H221)</u> <sup>(i) (ii)</sup> ✕		
1-3	EITHER MEng Research and Development Project \$	<a href="#">ENGI4093</a>	60
	OR MEng Technical Project \$	<a href="#">ENGI4112</a>	40
	and Group Design Project \$	<a href="#">ENGI4301</a>	20
4	Energy Conversion and Delivery	<a href="#">ENGI4271</a>	20
5	Thermomechanical Energy Conversion and Energy Markets	<a href="#">ENGI4281</a>	20
6	A module of 20 credits from the following:		
	Digital Systems	<a href="#">ENGI4251</a>	20
	Applied Mechanics	<a href="#">ENGI4211</a>	20
	Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
	Supply Chain Management	<a href="#">ENGI4171</a>	20

OR			
	<u>MEng Design and Operations Engineering</u> (H150) <sup>(i)(ii)</sup> ✕		
1-2	MEng Technical Project	<a href="#">ENGI4112</a>	40
3	MEng Industrial Project	<a href="#">ENGI4111</a>	20
4	Management and Operation of Production Systems	<a href="#">ENGI4191</a>	20
5	Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
6	A module of 20 credits from the following:		
	Supply Chain Management	<a href="#">ENGI4171</a>	20
	Production Networks and Energy Markets	<a href="#">ENGI4241</a>	20
OR			
	<u>MEng Aeronautics</u> (H420) <sup>(ii)</sup> ✕		
1-3	EITHER MEng Research and Development Project \$	<a href="#">ENGI4093</a>	60
	OR MEng Technical Project \$	<a href="#">ENGI4112</a>	40
	and Group Design Project \$	<a href="#">ENGI4301</a>	20
4	Aeromechanics	<a href="#">ENGI4231</a>	20
5	Fluid Mechanics and Turbomachinery	<a href="#">ENGI4221</a>	20
6	A module of 20 credits from the following:		
	Applied Mechanics	<a href="#">ENGI4211</a>	20
	Bioengineering and Energy Markets	<a href="#">ENGI4261</a>	20
	Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
	Supply Chain Management	<a href="#">ENGI4171</a>	20
OR			
	<u>MEng Mechanical Engineering</u> (H300) <sup>(ii)</sup> ✕		
1-3	EITHER MEng Research and Development Project \$	<a href="#">ENGI4093</a>	60
	OR MEng Technical Project \$	<a href="#">ENGI4112</a>	40
	and Group Design Project \$	<a href="#">ENGI4301</a>	20
4	Applied Mechanics	<a href="#">ENGI4211</a>	20
5	EITHER Thermodynamics and Fluid Mechanics	<a href="#">ENGI4181</a>	20
	OR Fluid Mechanics and Turbomachinery	<a href="#">ENGI4221</a>	20
6	A module of 20 credits from the following:		
	Bioengineering and Energy Markets	<a href="#">ENGI4261</a>	20
	Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
	Supply Chain Management	<a href="#">ENGI4171</a>	20
OR			
	<u>MEng Civil Engineering</u> (H200) <sup>(iii)</sup> ✕		
1-3	MEng Research and Development Project	<a href="#">ENGI4093</a>	60
4	Geotechnical Engineering	<a href="#">ENGI4161</a>	20
5	Civil Design and Materials	<a href="#">ENGI4141</a>	20
6	Hydrology and the Environment	<a href="#">ENGI4151</a>	20
OR			
	<u>MEng General Engineering</u> (H100)		
1-2	MEng Technical Project	<a href="#">ENGI4112</a>	40
3-6	Modules to the value of 80 credits from the following		
	Digital Systems	<a href="#">ENGI4251</a>	20
	Applied Mechanics	<a href="#">ENGI4211</a>	20
	Energy Conversion and Delivery	<a href="#">ENGI4271</a>	20
	Advanced Design and Manufacture	<a href="#">ENGI4201</a>	20
	Bioengineering and Energy Markets	<a href="#">ENGI4261</a>	20
	Supply Chain Management	<a href="#">ENGI4171</a>	20
	EITHER Fluid Mechanics and Turbomachinery	<a href="#">ENGI4221</a>	20
	OR Thermodynamics and Fluid Mechanics	<a href="#">ENGI4181</a>	20

\$ A student who spends Level 3 overseas on an exchange scheme and who wishes to obtain an IMechE accredited degree in one of the listed programmes must select MEng Technical Project ([ENGI4112](#)) and Group Design Project ([ENGI4301](#)) to satisfy the requirements of the accreditation body. A student who successfully completes Level 3 in Durham must select MEng Research and Development ([ENGI4093](#)).

Notes:

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 with Honours in Engineering in accordance with the Core Regulations for the award of a Bachelors degree.

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

- (i) by the IET for students entering Level 1 up to and including October 2012;
- (ii) by the IMechE for students entering Level 1 up to and including October 2013 provided a 2.2 degree classification or above is achieved;

- (iii) by the JBM for students entering Level 1 up to and including October 2013.
  - ✕ This programme is not accredited for those students who complete Level 1 at Harbin Engineering University, China
-