

AHEP 4th edition - Defining characteristics of accredited degree programmes

Notes for consultation:

- If printing this document, it is best to do so on A3 paper
- A 'number' is used within the consultation document as an identifier to enable respondents to comment on headings and notes. These references will be deleted from the final version of the document, but other numbering will be retained.

<p>QD1 Foundation degrees and equivalent qualifications accredited as partially meeting the educational requirement for IEng registration (Further learning to Bachelors level will be required)</p>	<p>QD2 Bachelors degrees and Bachelors (Honours) degrees accredited for IEng registration</p>	<p>QD3 Bachelors (Honours) degrees accredited as partially meeting the educational requirement for CEng registration (Further learning to Masters level will be required)</p>	<p>QD4 Integrated Masters (MEng) degrees accredited for CEng registration</p>	<p>QD5 Masters degrees other than the Integrated Masters (MEng) (Accredited as further learning to Masters level, partially meeting the educational requirement for CEng)</p>
<p>QD6 Foundation degrees or equivalent qualifications accredited for the purpose of IEng registration will have an emphasis on the applications of current and developing technology.</p> <p>Graduates from a Foundation degree or equivalent qualification must achieve the prescribed learning outcomes and will possess a coherent body of knowledge including mathematics, natural science and engineering principles, and a proven ability to apply that knowledge to analyse and solve broadly-defined engineering problems using established principles and techniques.</p> <p>With an appreciation of professional engineering practice and ethics, graduates will be able to apply their knowledge and skills to new situations.</p> <p>Graduates are likely to have acquired some of this ability through involvement in individual and/or group design projects.</p>	<p>QD7 Bachelors degrees and Bachelors (Honours) degrees accredited for the purpose of IEng registration will have an emphasis on the applications of current and developing technology.</p> <p>Graduates from Bachelors degrees or Bachelors (Honours) degree must achieve the prescribed learning outcomes and will possess a coherent body of knowledge including mathematics, natural science and engineering principles, and a proven ability to apply that knowledge to analyse and solve broadly-defined engineering problems using established principles and techniques. At least some of the knowledge will be informed by current developments in the subject of study.</p> <p>With an appreciation of professional engineering practice and ethics, graduates will be commercially aware and able to apply their knowledge and skills to design and deliver products, systems and processes to meet defined needs using current technology.</p> <p>Graduates are likely to have acquired some of this ability through involvement</p>	<p>QD8 Bachelors (Honours) degrees accredited for the purpose of CEng registration will have an emphasis on developing solutions to engineering problems using new or existing technologies, through innovation, creativity and change.</p> <p>Graduates from a Bachelors (Honours) degree must achieve the prescribed learning outcomes and will possess a coherent body of knowledge including mathematics, natural science and engineering principles, and a proven ability to apply that knowledge to analyse and solve complex engineering problems. At least some of the knowledge will be at the forefront of the particular subject of study.</p> <p>Graduates will be able to select and apply quantitative and computational analysis techniques, recognising the limitations of the methods employed.</p> <p>With an appreciation of professional engineering practice and ethics, graduates will be commercially astute and able to apply their knowledge and skills to design and deliver new products or services to meet defined needs using new or existing technologies.</p>	<p>QD9 Integrated Masters degrees (often denoted MEng) accredited for the purpose of CEng registration will have an emphasis on developing solutions to engineering problems using new or existing technologies, through innovation, creativity and change.</p> <p>The Integrated Masters will go beyond the outcomes of accredited Bachelors (Honours) degrees to provide a greater range and depth of specialist knowledge, within a research and/or industrial environment, as well as a broader and more general academic base. These programmes should provide a foundation for leadership and innovative engineering practice.</p> <p>Graduates from an Integrated Masters degree must achieve the prescribed learning outcomes and will possess a broad and coherent body of knowledge including mathematics, natural science and engineering principles, and a proven ability to apply that knowledge to analyse and solve complex engineering problems. Much of the knowledge will be at the forefront of the particular subject of study.</p>	<p>QD10 Masters Degrees other than the Integrated Masters accredited as further learning to Masters level for the purpose of CEng registration vary in nature. Some offer the chance to study in greater depth particular aspects or applications of a broader discipline in which the graduate holds an Honours degree at Bachelors level. Others bring together different engineering disciplines or subdisciplines in the study of a particular topic, or engineering application, while a further category may be truly multidisciplinary. These programmes should provide a foundation for leadership and innovative engineering practice.</p> <p>Graduates from a Masters Degrees other than the Integrated Masters must achieve the prescribed learning outcomes and will possess a coherent body of knowledge including mathematics, natural science and engineering principles, and a proven ability to apply that knowledge to analyse and solve complex engineering problems. Much of the knowledge will be at the forefront of the particular subject of study.</p>

	<p>in individual and/or group design projects.</p>	<p>Graduates are likely to have acquired some of this ability through involvement in individual and/or group design projects.</p>	<p>Graduates will be able to select and apply quantitative and computational analysis techniques in the absence of complete data, discussing the limitations of the methods employed.</p> <p>With an appreciation of professional engineering practice and ethics, graduates will be commercially astute and able to apply their knowledge and skills to design, deliver and evaluate innovative new products or services to meet defined needs using new or existing technologies.</p> <p>They will have acquired much of this ability through involvement in individual and group design projects. Ideally some of these projects would have industrial involvement or be practice-based.</p>	<p>Graduates will be able to select and apply quantitative and computational analysis techniques in the absence of complete data, discussing the limitations of the methods employed.</p> <p>With an appreciation of professional engineering practice and ethics, graduates will be commercially astute and able to apply their knowledge and skills to design, deliver and evaluate innovative new products or services to meet defined needs using new or existing technologies.</p> <p>They will have acquired much of this ability through individual and/or group design projects. Ideally some of these projects would have industrial involvement or be practice-based.</p>
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