

EAB

Engineering Accreditation Board

Appendix A: General Learning Outcomes

Graduates with the exemplifying qualifications, irrespective of registration category or qualification level, must satisfy the following criteria:

Knowledge and Understanding

- KU1 Demonstrate knowledge and understanding of essential facts, concepts, theories and principles of their engineering discipline, and its underpinning science and mathematics.
- KU2 Have an appreciation of the wider multidisciplinary engineering context and its underlying principles.
- KU3 Appreciate the social, environmental, ethical, economic and commercial considerations affecting the exercise of their engineering judgement.

Intellectual Abilities

- IA1 Apply appropriate quantitative science and engineering tools to the analysis of problems.
- IA2 Demonstrate creative and innovative ability in the synthesis of solutions and in formulating designs.
- IA3 Comprehend the broad picture and thus work with an appropriate level of detail.

Practical skills

- PS1 Possess practical engineering skills acquired through, for example, work carried out in laboratories and workshops; in industry through supervised work experience; in individual and group project work; in design work; and in the development and use of computer software in design, analysis and control. Evidence of group working and of participation in a major project is expected. However, individual professional bodies may require particular approaches to this requirement.

General transferable skills

- GT1 Develop transferable skills that will be of value in a wide range of situations. These are exemplified by the Qualifications and Curriculum Authority Higher Level Key Skills and include problem solving, communication, and working with others, as well as the effective use of general IT facilities and information retrieval skills. They also include planning self-learning and improving performance, as the foundation for lifelong learning/CPD.