

# BE (HONS) (CIVIL, STRUCTURAL AND ENVIRONMENTAL) ENGINEERING

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## Programme Learning Outcomes

Programme Learning Outcomes for BE (Hons) (Civil, Structural and Environmental) (NFQ Level 8, Major Award)

On successful completion of this programme, students should be able to:

- Apply principles from mathematics, science and engineering science to problems in civil, structural and environmental engineering;
- Apply information technology to visualise and analyse problems in civil, structural and environmental engineering;
- Identify, formulate, analyse and solve civil, structural and environmental engineering problems;
- Design civil, structural and environmental engineering components and systems to industry standards;
- Evaluate critically the engineering, economic, environmental and societal impacts of proposed design solutions;
- Evaluate critically published work in the technical literature;
- Work effectively as an individual, in teams and in multi-disciplinary settings;
- Communicate effectively with the engineering community and with society at large;
- Demonstrate understanding of the need for high ethical standards in the practice of engineering.