

BE (HONS) (ENERGY) ENGINEERING

Programme Learning Outcomes

Programme Learning Outcomes for BE (Hons) (Energy) (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 energy engineering and the constituent disciplines (civil, electrical and mechanical engineering);
- Apply information technology to visualise and analyse problems in energy engineering and the constituent disciplines (civil, electrical and mechanical engineering);
- Identify, formulate, analyse and solve problems relating to the abovementioned engineering disciplines;
- Design energy engineering components and systems to industry standards;
- Evaluate critically the engineering, economic, environmental and societal impacts of proposed design solutions;
- Critically evaluate published work in the technical literature;
- Work effectively as an individual, in teams and in multi-disciplinary settings;
- Effectively communicate engineering-related information and the results of one's own work (in both oral and written form);
- Apply an understanding to the need for high ethical standards in the practice of engineering.