

BE (HONS) (ELECTRICAL AND ELECTRONIC) ENGINEERING

Programme Learning Outcomes

Programme Learning Outcomes for BE (Electrical and Electronic) (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 electrical and electronic engineering and in the related disciplines of microelectronic and mechanical engineering;
- Apply information technology to visualise and analyse problems in electrical and electronic engineering and in the related disciplines of microelectronic and mechanical engineering;
- Identify, formulate, analyse and solve problems relating to the above mentioned engineering disciplines;
- Design components and systems to the standard required by the electronics and electrical engineering industries;
- 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);
- Understand the need for high ethical standards in the practice of engineering.