

POSTGRADUATE DIPLOMA IN SUSTAINABLE ENERGY

Programme Learning Outcomes

Programme Learning Outcomes for Postgraduate Diploma in Sustainable Energy (NFQ Level 9, Major Award)

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

- Apply concepts and the theoretical basis from engineering sciences to problems in sustainable energy and related disciplines;
- Identify, formulate, model and design sustainable energy systems, components and processes;
- Design, analyse, and re-engineer sustainable energy engineering systems, components, and processes with an emphasis on renewable energy technologies and sustainable energy end use;
- Evaluate critically the engineering, economic, environmental, societal, and legal impacts of complex sustainable energy systems by applying design, analysis and modeling in a holistic way;
- Plan, conduct, manage and document sustainable energy R&D-projects including data management and analysis, energy systems design, and aspects of interdisciplinary information exchange;
- Communicate effectively with the engineering community and the engineering society through the appropriate application of IT-supported communication and presentation tools and the collective development of scientific publications.