

POSTGRADUATE CERTIFICATE IN OFFSHORE RENEWABLE ENERGY

Overview

NFQ Level 9, Minor Award

The Postgraduate Certificate in Offshore Renewable Energy is a part-time programme delivered in a blended format over a period of 12 months from the date of registration, across Semesters 1 (September to December), 2 (January to May) and 3 (June to August).

Each module includes a number of lectures that students can attend in person, but these lectures will be recorded and students are required to watch the recordings on Canvas.

Postgraduate Diploma in Energy Innovation for Zero Carbon

A student who successfully completes and is awarded the Postgraduate Certificate in Offshore Renewable Energy and Innovation may apply for the **Postgraduate Diploma in Energy Innovation for Zero Carbon**.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

Programme Requirements

Code	Title	Credits
Students take 30 credits as follows:		
<i>Core Modules</i>		
NE6201	Wind Energy	
NE6202	Energy Innovation	
NE6203	Ocean Energy	
NE6211	Offshore Wind Energy	
NE6212	Clean Energy Futures	
NE6221	Work Based Integrated Learning in Energy Engineering	
Total Credits		0

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

Programme Learning Outcomes

Programme Learning Outcomes for Postgraduate Certificate in Offshore Renewable Energy (NFQ Level 9, Minor Award)

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

- Demonstrate knowledge of a range of analytical methodologies used to quantify marine renewable energy potential.
- Describe the challenges, opportunities and research frontier for energy innovation (sector, system and technology) in achieving a zero carbon energy system.

- Outline recent scientific and engineering developments relevant to wind and wave energy systems in marine environments.
- Apply a range of energy systems modelling and data analysis techniques to solve relevant energy system problems.
- Undertake an analytical marine energy innovation project in the context of current challenges for the energy industry in Ireland.