

## MEng Structured (Mechanical) - 2026

Postgraduate Diploma in Engineering (Mechanical Engineering) in Renewable and Sustainable Energy Studies

### 1. Credits

The programme consists of 8 postgraduate modules (15 credits each), a research assignment (60 credits) and Professional Communication (0 credits).

This is a 180-credit programme that can be completed in one year for full-time students or over two years for part-time students.

This document should be studied in consultation with the PG Schedule.

### 2. Modules<sup>1</sup>

	Credits
<b>Group 1: (Sec 3.3) - Compulsory</b>	
Numerical Methods	15
<b>Group 2: (Sec 3.6) - Choose any 2</b>	
Advanced Topics in Engineering Management	15
Data Science	15
Project Management	15
Project Economics and Finance	15
<b>Group 3: (Sec 3.4 &amp; 3.5) - Compulsory</b>	
Research Methodology	15
Professional Communication	15
<b>Group 4: (sec 3.4 &amp; sec 3.6) - Choose any 4</b>	
Photovoltaic Energy Systems	15
Bio-Energy	15
Energy Storage Systems	15
Green Hydrogen Technology	15
Hydrogen in the Energy System	15
Long-term Power System Planning	15

<sup>1</sup> Students may apply to the Postgraduate Coordinator for recognition of modules done at other departments or institutions. However, no recognition can be granted for modules done as part of another qualification.

Smart Grid Technology	15
Solar Thermal Energy Systems	15
Renewable Energy Systems	15
<i>Water Power Technologies* (Not offered in 2026)</i>	
Wind Energy	15
<b>Group 5: (Sec 3.6) - Compulsory</b>	
Research Assignment (Mechanical)	60

### 3. Format of delivery

- Offering of modules is subject to availability.
- Almost all modules follow a 2-2-1 presentation format. There will be 5 lecture days split over 3 weeks (Week 1: 2 lectures, Week 2: 2 lectures, Week 3: 1 lecture).
- Attendance of modules for full-time and part-time students is compulsory.
- *All lectures and tutorial sessions will be conducted online, allowing both lecturers and students to engage in real-time.* Students also have the option to request in-person lectures and sessions, which will be held at a venue on campus. These in-person sessions will take place simultaneously with the online sessions and will be streamed live.
- Module choices are subject to approval by the Programme Coordinator and should be chosen strictly according to this outline.
- **Some modules may follow a different format to accommodate guest lecturers.**