

FACULTY OF ENGINEERING

DEPARTMENT OF ELECTRONIC AND ELECTRICAL ENGINEERING

RENEWABLE ENERGY AND DECARBONISATION TECHNOLOGIES

Master of Science in Renewable Energy and Decarbonisation Technologies
Postgraduate Diploma in Renewable Energy and Decarbonisation Technologies
Postgraduate Certificate in Renewable Energy and Decarbonisation Technologies

*These programme regulations are for the **January intake only** and should be read in conjunction with [General Academic Regulations – Postgraduate Taught Degree Programme Level](#).*

Admission

1. Notwithstanding the [General Academic Regulations – Postgraduate Taught Degree Programme Level](#) applicants shall possess:
 - i. a first or second class Honours degree (in Electrical or Electronic Engineering or Mechanical Engineering or cognate subject) from a United Kingdom university; or
 - ii. a qualification deemed by the Programme Leader acting on behalf of Senate to be equivalent; or
 - iii. an appropriate professional experience.
2. In all cases, applicants whose first language is not English shall be required to demonstrate an appropriate level of English.

Duration of Study

3. Notwithstanding the [General Academic Regulations – Postgraduate Taught Degree Programme Level](#) the maximum period of study shall be as follows:
 - i. Masters by full-time study 24 months
 - ii. PG Diploma by full-time study 18 months
 - iii. PG Certificate by full-time study 12 months

Mode of Study

4. The programmes are available by full-time and part-time study and online study.

Curriculum

5. All students shall undertake an approved curriculum as follows:
 - i. Postgraduate Certificate no fewer than 60 credits
 - ii. Postgraduate Diploma no fewer than 120 credits
 - iii. degree of MSc no fewer than 180 credits including the EE990 project

Compulsory Modules

Module Code	Module Title	Level	Credits
EC928	Energy Economics	5	10
EE877	Wind Energy and Distributed Energy Resources 1	5	10

EE993	Solar Energy Systems	5	10
EE994	Energy Storage Systems	5	10
EE886	Assignment and Professional Studies	5	20
EE875	Power Electronics Principles	5	10
EE995	Energy Decarbonisation Technologies	5	10
EE820	Offshore Wind Farms O&M and Economics	5	10
Students for the degree of MSc only:			
EE990	MSc Project in Renewable Energy and Decarbonisation Technologies	5	60

Students who have previously completed any module from the list of compulsory modules will be required to undertake an appropriate alternative as approved by the Programme Leader.

Optional Modules

No fewer than 30 credits chosen from:

Module Code	Module Title	Level	Credits
EV939	Environmental Impact Assessment	5	10
CL994	Circular Economy and Transformations towards Sustainability	5	10
DM951	Design for Industry 4 and Smart Products	5	10
CL904	Waste Management and Landfill Design	5	10
EE802	Control and Protection of Future Networks	5	10
EE818	Data Analytics and AI for Energy Systems	5	10
DM994	Systems Engineering Concepts	5	10
DM943	Sustainable Product Design & Manufacturing	5	10
DM920	Strategic Technology Management	5	10
NM969	Renewable Marine Energy Systems	5	10

Not all optional modules on this list will be available in each academic year. Exceptionally, such other modules totalling no more than 20 credits, as approved by the Programme Leader.

Students without appropriate background knowledge may be additionally required to undertake selected foundation modules.

Examination, Progress and Final Assessment

- The [General Academic Regulations – Postgraduate Taught Degree Programme Level](#) shall apply.

7. The final award will be based on performance in the examinations, coursework and the EE990 Project where undertaken.

Award

8. **Degree of MSc:** In order to qualify for the award of the degree of MSc in Renewable Energy and Decarbonisation Technologies, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits, of which 60 must have been awarded in respect of the Project EE990.
9. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Renewable Energy and Decarbonisation Technologies, a candidate must have accumulated no fewer than 120 credits from the programme curriculum.
10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Renewable Energy and Decarbonisation Technologies, a candidate must have accumulated no fewer than 60 credits from the programme curriculum.