ENERGY TRANSITION SYSTEMS AND TECHNOLOGIES (CAMPUS - JANUARY START) (MSc/PgDip/PgCert)

57J91JB1/61J91SVX/62J91SVZ

Duration: MSc 12 months full-time and 27 months part time; PgDip 9 months full time and 18 months part time; PgCert 4 months full time and 8 months part time.

Content: The programme aims to provide students with a multidisciplinary education in core aspects of the energy transition technologies, their integration, and their impact in different ecosystems. Students will learn core engineering principles on advanced renewable activities and projects, taking advantage of the pioneering industrial activity in the sector in the North-East of Scotland. Engineering foundations will be complemented with multidisciplinary learning outcomes covering economics, environmental, regulatory, and social aspects relevant for the energy transition and renewable energies activities.

Students will undertake the project and complete the dissertation in energy systems, which will be defined to be industrial relevant.

Candidates shall be required to attend the following designated programme of courses:

FULL TIME ROUTE

Stage 1

PD5506 Getting Started at the University of Aberdeen (0 Credit Points)
EG556U Fundamentals of Energy Transition (0 Credit Points)
EG551J Energy Conversion and Storage (15 Credit Points)
EG554T Energy Systems Integration (15 Credit Points)

Plus one of the following:

EG552S Legislation, Economics and Safety (15 Credit Points)
EG552U Marine and Wind Energy (15 Credit Points)

Plus one of the following:

EG551K Renewable Energy Integration to Grid (15 Credit Points)
EG555S Sustainable Engineering Challenges (15 Credit Points)

Stage 2

EG504K Carbon Capture, Utilisation and Storage (CCUS) (15 Credit Points)
EG50M1 Energy from Biomass (15 Credit Points)

Plus one from the following:

EG503A Geothermal and Hydro Energy (15 Credits Points)
EG503V Solar Energy (15 Credits Points)

Plus one from the following:

GG5065 Introduction to GIS Tools, Techniques, Cartography and Geovisualisation (15 Credit Points)
BU5053 Introduction to Energy Economics (15 Credit Points)

Stage 3

EG59M2 MSc Individual Project (60 Credit Points)

PART TIME ROUTE

Year 1

PD5506 Getting Started at the University of Aberdeen (0 Credit Points)
EG556U Fundamentals of Energy Transition (0 Credit Points)
EG551J Energy Conversion and Storage (15 Credit Points)
EG554T Energy Systems Integration (15 Credit Points)

Year 2

EG504K Carbon Capture, Utilisation and Storage (CCUS) (15 Credit Points)
EG50M1 Energy from Biomass (15 Credit Points)

One of the following:

EG552S Legislation, Economics and Safety (15 Credit Points)
EG552U Marine and Wind Energy (15 Credit Points)

Plus one of the following:

EG551K Renewable Energy Integration to Grid (15 Credit Points)
EG555S Sustainable Engineering Challenges (15 Credit Points)

Year 3

One of the following:

EG503A Geothermal and Hydro Energy (15 Credit Points)
EG503V Solar Energy (15 Credit Points)

Plus one of the following:

GG5065 Introduction to GIS Tools, Techniques, Cartography and Geovisualisation (15 Credit Points)
BU5053 Introduction to Energy Economics (15 Credit Points)

EG555N MSc Individual Project (60 Credit Points)

Assessment: By a combination of written examination and course work as prescribed for each course. In addition, MSc candidates must submit a dissertation on their individual project and may be required to undergo an oral examination. The Degree of MSc shall not be awarded to a candidate who fails to achieve a CGS Grade of D3 or above in the individual project, irrespective of their performance in other courses.