

GLOBAL ENERGY TRANSITION SYSTEMS AND TECHNOLOGIES (QATAR)
(MSc/PgDip/PgCert)

57J19SB1/57J19VX/57J19SVZ

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 MSc in Global Energy Transition Systems and Technologies (Qatar) introduces and gives an overview of the topic of energy transition. The focus is on the diverse challenges faced in the context of the energy transition, and multiple technical solutions. As well as technical dimensions, the programme intentionally focusses on non-technical (eg economic, policy) aspects of the energy transition as examples of critical elements. The programme also introduces students to systems thinking in the context of energy systems and teaches them some relevant methods for system-level analysis (eg energy system analysis). Upon completion of the programme, students should have an overview of the key issues in energy transition and be well equipped to address some of them (as they must in their final project) with some of the taught methods.

Students will undertake the project and complete the dissertation in Energy Transition Systems and Technologies which will be defined to be research or industrial relevant.

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

FULL-TIME ROUTE

Session 1

PD5006 Getting Started at the University of Aberdeen (0 credit points)
QB5044 Project Management (15 credit points)
QE5001 Introduction to Energy Transition: Demand, Technology and Economics (15 credit points)
QE5002 Carbon Capture, Utilisation and Storage (15 credit points)
QE5003 Solar Energy (15 credit points)

Session 2

QE5504 Energy Conversion and Storage (15 credit points)
QE5505 Energy Systems Integration (15 credit points)
QE5506 Marine and Wind Energy (15 credit points)
QE5507 Legislation, Economics and Safety (15 credit points)

Session 3

QE5908 Individual Project (60 credit points)

PART-TIME ROUTE

Year 1

Session 1

PD5006 Getting Started at the University of Aberdeen (0 credit points)
QE5001 Introduction to Energy Transition: Demand, Technology and Economics (15 credit points)
QE5002 Carbon Capture, Utilisation and Storage (15 credit points)

Session 2

QE5504 Energy Conversion and Storage (15 credit points)
QE5505 Energy Systems Integration (15 credit points)

Year 2

Session 1

QB5044 Project Management (15 credit points)

QE5003 Solar Energy (15 credit points)

Session 2

QE5506 Marine and Wind Energy (15 credit points)

QE5507 Legislation, Economics and Safety (15 credit points)

Year 3

Session 3

QE5008 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.