

FACULTY OF ENGINEERING

DEPARTMENT OF CHEMICAL AND PROCESS ENGINEERING

ADVANCED CHEMICAL ENGINEERING WITH ENERGY SYSTEMS INNOVATION

Master of Science in Advanced Chemical Engineering with Energy Systems Innovation

Postgraduate Diploma in Advanced Chemical Engineering with Energy Systems Innovation

Postgraduate Certificate in Advanced Chemical Engineering with Energy Systems Innovation

These regulations are to be read in conjunction with [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

Admission

1. Students will normally have been admitted in the first instance to the degree of MSc in Advanced Chemical Engineering with Energy Systems Innovation.

Duration of Study

2. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

Mode of Study

3. The programme is available by full-time study only.

Place of Study

4. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

Curriculum

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

Compulsory Modules

Module Code	Module Title	Level	Credits
CP533	Clean Combustion Technologies	5	10
CP537	Electrochemical Energy Devices	5	10
CP541	Introduction to Hydrogen Engineering	5	10
CP967	Project Scoping	5	20
ME928	Energy Systems Analysis	5	10
DM957	Management of Technology and Innovation	5	10
Students for the degree of MSc only:			

CP949	Individual Project	5	60
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Optional Modules

No fewer than 50 credits chosen from:

Module Code	Module Title	Level	Credits
CP527	Petroleum Engineering	5	10
CP917	Process Design Principles	5	10
CP974	Advanced Process Design	5	20
DM943	Sustainable Product Design and Manufacturing	5	10
DM994	Systems Engineering Concepts	5	10
EF929	Financial Engineering	5	10
EF931	Project Management	5	10
EF932	Risk Management	5	10
EV939	Environmental Impact Assessment	5	10
ME927	Energy Resources and Policy	5	10

Only students undertaking the Postgraduate Diploma can also choose the following optional module:

CP973	PGDip Individual Project	5	20
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Exceptionally, other modules may be offered in lieu, as approved by the Programme Leader.

Examination, Progress and Final Assessment

- See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).
- The final award will be based on performance in the examinations, coursework and the Individual Project CP949.

Award

- Degree of MSc:** In order to qualify for the award of the degree of MSc in Advanced Chemical Engineering with Energy Systems Innovation, a candidate must have performed to the satisfaction of the Board of Examiners and must normally have accumulated no fewer than 180 credits of which 60 must have been awarded in respect of the Individual Project CP949.
- Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Advanced Chemical Engineering with Energy Systems Innovation, a candidate must have accumulated no fewer than 120 credits from the taught modules of the programme.

10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Advanced Chemical Engineering with Energy Systems Innovation, a candidate must have accumulated no fewer than 60 credits from the taught modules of the programme.