

FACULTY OF ENGINEERING

DEPARTMENT OF CHEMICAL AND PROCESS ENGINEERING

ADVANCED CHEMICAL ENGINEERING

Master of Science in Advanced Chemical Engineering
Postgraduate Diploma in Advanced Chemical Engineering
Postgraduate Certificate in Advanced Chemical Engineering

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

Admission

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

Duration of Study

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

Place of Study

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

Mode of Study

4. The programmes are available by full-time study only.

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
CP974	Advanced Process Design	5	20
CP967	Project Scoping	5	20
Students for the degree of MSc only:			
CP949	Individual Project	5	60

Optional Modules

Students must choose no fewer than 80 credits of optional modules with a minimum of 50 credits from List A and a minimum of 10 credits from List B.

List A

Module Code	Module Title	Level	Credits
CP917	Process Design Principles	5	10
CP527	Petrochemical Engineering	5	10
CP523	Molecular Simulation in Chemical Eng	5	10
CP533	Clean Combustion Technologies	5	10
CP537	Electrochemical Energy Devices	5	10
CP530	Safety Management Practices	5	10
CP529	Programming and Optimisation	5	10
CP535	Molecular and Interfacial Science	5	10
CP538	Environmental Engineering for Solving Industrial Challenges	5	10

List B

Module Code	Module Title	Level	Credits
EF931	Project Management	5	10
EF932	Risk Management	5	10
EF929	Financial Engineering	5	10
EV939	Environmental Impact Assessment	5	10
EF945	Knowledge and Information Management for Engineers	5	10

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

Module Code	Module Title	Level	Credits
CP973	PGDip Individual Project	5	20

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 Project where undertaken.

Award

- Degree of MSc:** In order to qualify for the award of the degree of MSc in Advanced Chemical Engineering, a candidate must have performed to the satisfaction of the Board

of Examiners and must have accumulated no fewer than 180 credits, and 60 credits must have been awarded in respect of the Individual Project CP949.

9. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Advanced Chemical Engineering, a candidate must have accumulated no fewer than 120 taught credits, of which 20 credits must be awarded for the Project Scoping CP967.
10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Advanced Chemical Engineering, a candidate must have accumulated no fewer than 60 credits from the taught curriculum.