FACULTY OF ENGINEERING

DEPARTMENT OF CHEMICAL AND PROCESS ENGINEERING

PROCESS TECHNOLOGY AND MANAGEMENT
CHEMICAL TECHNOLOGY AND MANAGEMENT
ADVANCED CHEMICAL AND PROCESS ENGINEERING

Master of Science in Process Technology and Management
Postgraduate Diploma in Process Technology and Management
Postgraduate Certificate in Process Technology and Management

Master of Science in Chemical Technology and Management
Postgraduate Diploma in Chemical Technology and Management
Postgraduate Certificate in Chemical Technology and Management

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

These regulations are to 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 degree (or in the case of direct entry to the degree of MSc, a first or second class Honours degree) from a United Kingdom university in a relevant discipline; or
    ii. a qualification deemed by the Programme Leader acting on behalf of Senate to be equivalent to i. above; and
    iii. have appropriate professional experience and shall normally be employed in the appropriate industry.

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. The minimum duration of study is 3 years and for the maximum duration of study, the General Academic Regulations - Postgraduate Taught Degree Programme Level shall apply.

Mode of Study

4. The programmes are available by part-time distance learning study only.

Curriculum

5. **MSc Process Technology and Management** students shall take all modules from the Process Technology, and Business and Management lists, plus an approved curriculum of 30 credits from the optional lists, including a minimum of 20 credits from List A.

6. **MSc Chemical Technology and Management** students shall take all modules from the compulsory Chemical Technology list, and 30 credits from the Business and Management list,

plus an approved curriculum of 40 credits from the optional lists, including a minimum of 20 credits from List A.

7. **MSc Advanced Chemical and Process Engineering** students shall take all modules from the compulsory Advanced Chemical and Process Engineering list, plus an approved curriculum (of 50 credits) chosen from the optional lists, including a minimum of 20 credits from List A, with a maximum of 20 credits drawn from the business and management list.

Compulsory Modules

Advanced Chemical and Process Engineering

Module Code	Module Title	Level	Credits
CP917	Process Design Principles	5	10
CP964	Process Analysis in Chemical Engineering	5	20
CP974	Advanced Process Design	5	20
CP975	Ethics, Sustainability and Environmental Engineering	5	20

Process Technology

Module Code	Module Title	Level	Credits
CP917	Process Design Principles	5	10
CP974	Advanced Process Design	5	20
CP964	Process Analysis in Chemical Engineering	5	20

Chemical Technology

Module Code	Module Title	Level	Credits
CP917	Process Design Principles	5	10
CP964	Process Analysis in Chemical Engineering	5	20
CP974	Advanced Process Design	5	20

Business and Management

Module Code	Module Title	Level	Credits
EF963	Finance for Engineers	5	10
CP935	IT Strategy	5	10
CP933	Project Management	5	10

CP934	Business and Technology Strategy	5	10

Students for the degree of MSc only (all streams):

Module Code	Module Title	Level	Credits
CP936	Project	5	60

Optional Modules

List A

Module Code	Module Title	Level	Credits
CP976	Advanced Process Safety	5	10
CP919	Programming and Optimisation	5	10
CP970	Molecular and Interfacial Science	5	10
CP975	Ethics, Sustainability and Environmental Engineering	5	20
CP955	Molecular simulation in chemical engineering	5	10
CP969	Clean Combustion Technologies	5	10
CP971	Petroleum Engineering	5	10
CP972	Electrochemical Energy Devices	5	10
CP964	Process Analysis in Chemical Engineering	5	20
CL996	Materials and Microstructures	5	10

List B

Module Code	Module Title	Level	Credits
CP930	Management of Technological Innovation	5	10
ME948	Hydraulics	5	10
ME950	Boiler Thermal Hydraulics	5	10
ME945	Introduction to Open Source CFD	5	10
CP974	Advanced Process Design	5	20

Exceptionally, such other modules totalling no more than 20 credits, as approved by the Programme Leader.

A maximum of 30 credits of modules from the compulsory lists may be substituted for modules from the optional list, provided it is evident from the student's prior education and experience, and professional development needs, that this represents a more appropriate and relevant curriculum.

This is also subject to agreement from the Programme Leader, that the alternative curriculum continues to meet the accreditation requirements.

Not all optional modules on this list will be available in each academic year.

Examination, Progress and Final Assessment

8. The General Academic Regulations - Postgraduate Taught Degree Programme Level shall apply.

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

Award

10. **Degree of MSc:** In order to qualify for the award of the degree of MSc in Process Technology and Management, or Chemical Technology and Management, or Advanced Chemical and Process Engineering a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits from an approved programme curriculum, including the 60 credit project

11. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Process Technology and Management or Chemical Technology and Management, or Advanced Chemical and Process Engineering a candidate must have accumulated no fewer than 120 credits from an approved programme curriculum.

12. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Process Technology and Management or Chemical Technology and Management, or Advanced Chemical and Process Engineering a candidate must have accumulated no fewer than 60 credits from an approved programme curriculum.