

# POSTGRADUATE DIPLOMA IN PHARMACEUTICAL AND BIOPHARMACEUTICAL ENGINEERING

## Programme Requirements

Code	Title	Credits
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### Year 1

Students take **30** credits as follows - all listed core modules (**15** credits) and **15** credits of elective modules:

#### Core Modules

PE6010	Pharmaceutical Engineering	5
PE6011	Biopharmaceutical Engineering	5
PE6013	Powder and Particle Technology and Unit Operations	5

#### Elective Modules

Students take modules to the value of **15** credits from the following: 15

CM6010	Introductory Pharmaceutical Chemistry	
PE6004	Biopharmaceutical Supporting Systems	
PE6018	Pharmaceutical Process Validation and Quality	
PE6019	Process Analytical Technology	

### Year 2

Students take **30** credits as follows

#### Core Modules

PE6012	Pharmaceutical Process Equipment, Materials and Mechanical Design	5
PE6016	Process Optimisation and Scale-up in the Pharmaceutical Industry	5
PE6022	Aseptic Manufacturing Design	5
PE6024	Process Safety Engineering	5
PE6026	Project Engineering - From Concept to Completion	5
PE6027	Advanced Biopharmaceutical Engineering	5

## Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.