MENGSC (PHARMACEUTICAL AND BIOPHARMACEUTICAL ENGINEERING)

Programme Requirements

Programme Requirements		
Code	Title Cre	dits
	O credits as follows – 60 credits of taught modules f research modules	
Taught Modules		
Year 1		
	O credits as follows - all listed core modules (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 m	odules to the value of 15 credits from the following:	15
CM6010	Introductory Pharmaceutical Chemistry (5)	
PE6004	Biopharmaceutical Supporting Systems (5)	
PE6018	Pharmaceutical Process Validation and Quality (5)	
PE6019	Process Analytical Technology (5)	
Year 2		
Students take 30	Coredits 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
Research Modul	e	
Students can tal	ke the research module from Year 2.	
PE6021	Dissertation in Pharmaceutical and Biopharmaceutical Engineering	30
Total Credits		90

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*.