

# MSC (INDUSTRIAL PHARMACEUTICAL SCIENCES, OPERATIONS AND MANAGEMENT)

## Programme Requirements

### Full-time

Code	Title	Credits
<b>Part I</b>		

Students take **60** credits as follows - all listed core modules (**50** credits) and **10** credits of elective modules:

#### Core Modules

PF6026	Pharmaceutical Technology and Unit Operations with Regulatory Insights	5
PF6027	Pharmaceutical GxP and Regulatory Science	5
PF6032	Bioprocessing Unit Operations	5
PF6033	Pharmaceutical Analysis and Analytics	5
PF6045	Pharmaceutical Operations & Management	10
BU6514	Business Case for Analytics	5
MG6024	Developing Management and Leadership Skills	10
MG6025	Project Management	5

#### Elective Modules <sup>1</sup>

Students take modules to the value of **10** credits from the following: 10

PF6028	Process Control and Validation for Pharmaceutical Processes (5)	
PF6029	Biotechnology-derived and Advanced Therapy Medicinal Products (ATMPs) (5)	
PF6044	Digital Transformation in the (Bio)pharma Industry (5)	
PF6035	Lean Six Sigma for BioPharma (10)	

#### Part II

Students take **30** credits as follows:

#### Core Modules

PF6036	Industrial-based Dissertation and Placement	30
--------	---	----

**Total Credits** 90

### Part-time

Code	Title	Credits
------	-------	---------

#### Part I

Students take **60** credits as follows - all listed core modules (**30** credits) in Year 1; and all listed core modules (**20** credits) and **10** credits of elective modules in Year 2:

#### Year 1

Students take **30** credits as follows:

#### Core Modules <sup>2</sup>

MG6025	Project Management	5
PF6026	Pharmaceutical Technology and Unit Operations with Regulatory Insights	5
PF6027	Pharmaceutical GxP and Regulatory Science	5
PF6028	Process Control and Validation for Pharmaceutical Processes	5

PF6032	Bioprocessing Unit Operations	5
PF6033	Pharmaceutical Analysis and Analytics	5

#### Year 2

Students take **30** credits as follows - all listed core modules (**20** credits) and **10** credits of elective modules:

#### Core Modules <sup>2</sup>

BU6514	Business Case for Analytics	5
MG6024	Developing Management and Leadership Skills	10
PF6034	Pharmaceutical Operations	5

#### Elective Modules <sup>1</sup>

Students take modules to the value of **10** credits from the following: 10

PF6029	Biotechnology-derived and Advanced Therapy Medicinal Products (ATMPs) (5)	
PF6044	Digital Transformation in the (Bio)pharma Industry (5)	
PF6035	Lean Six Sigma for BioPharma (10)	

#### Part II

Students take **30** credits as follows:

#### Core Modules

PF6039	Industry-based Dissertation	30
--------	-----------------------------	----

**Total Credits** 90

<sup>1</sup> Depending on numbers, not all electives may run in a given year.

<sup>2</sup> Taught modules will be offered on a cyclical basis over alternative years for part-time students.

## 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*.