

INDUSTRIAL BIOTECHNOLOGY (MSc/PgDip/PgCert)

57J74SB1/61J74SVX/62J74SVZ

Duration: 12 months full time; 24 months part time (MSc)

Content:

Candidates shall be required to attend the following designated programme of courses:

FULL TIME ROUTE

Stage 1

BT5014 Biotechnology (15 credit points)
MB5025 Molecular Genetics (15 credit points)
MT5010 Basic Skills – Induction (0 credit points)

Plus two from the following:

BT5015 Introduction to Commercialisation and Bio-Business (15 credit points)
BT5013 Small Molecular Drug Discovery (15 credit points)
MB5021 Bioinformatics (15 credit points)
MC5008 Introduction to Microbiology (15 credit points)
PU5017 Applied Statistics (15 credit points)

Stage 2

BT5510 Advanced Biotechnology (15 credit points)

Plus three from the following:

BT5508 Advanced Bio-Business and the Commercialisation of Bioscience Research (15 credit points)
BT5509 Biologic Drug Discovery (15 credit points)
MB5517 Genome-Enabled Medicine (15 credit points)
MB5522 Advanced Bioinformatics and Genome Sequencing (15 credit points)

MB5021 is a pre-requisite for MB5522

Stage 3

BT5903 Placement (60 credit points)

PART TIME ROUTE (NB Courses taken in first year cannot be taken in second year)

Year 1

Stage 1:

Students must take the following courses:

BT5014 Biotechnology (15 credit points)
Or
MB5025 Molecular Genetics (15 credit points)

Plus one from the following:

BT5015 Introduction to Commercialisation and Bio-Business (15 credit points)
BT5013 Small Molecular Drug Discovery (15 credit points)
MB5021 Bioinformatics (15 credit points)
MC5008 Introduction to Microbiology (15 credit points)
PU5017 Applied Statistics (15 credit points)

Stage 2:

BT5510 Advanced Biotechnology (15 credit points)

Plus one from the following:

BT5508 Advanced Bio-Business and the Commercialisation of Bioscience Research (15 credit points)

BT5509 Biologic Drug Discovery (15 credit points)

MB5517 Genome-Enabled Medicine (15 credit points)

MB5522 Advanced Bioinformatics and Genome Sequencing (15 credit points)

MB5021 is a pre-requisite for MB5522

Year 2

Stage 1:

MT5010 Basic Skills – Induction (0 credit points)

All students must take:

BT5014 Biotechnology (15 credit points)

Or

MB5025 Molecular Genetics (15 credit points)

Plus one from the following:

BT5012 Introduction to Bio-Business and the Commercialisation of BioScience Research (15 credit points)

BT5013 Small Molecular Drug Discovery (15 credit points)

MB5021 Bioinformatics (15 credit points)

MC5008 Introduction to Microbiology (15 credit points)

PU5017 Applied Statistics (15 credit points)

Stage 2:

Students should select two from the following:

BT5508 Advanced Bio-Business and the Commercialisation of Bioscience Research (15 credit points)

BT5509 Biologic Drug Discovery (15 credit points)

MB5517 Genome-Enabled Medicine (15 credit points)

MB5522 Advanced Bioinformatics and Genome Sequencing (15 credit points)

Stage 3:

BT5903 Placement (60 credit points)

Assessment: By practical work, by written essays and by oral presentations, or by a combination of these, as prescribed for each course. The placement will be assessed on the basis of performance and written reports. There may be an oral examination to complete the programme. Candidates must pass all courses at an appropriate standard for the award of the MSc degree.