

MSc in Bioprocess Engineering

Course Short Code

MSBE

Course Year

1

Course Offering: 01

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## **Masters of Science in Bioprocess Engineering, Year 1**

**\*It is your responsibility to ensure that you register correctly\***

**Students Follow the Concentration Route Chosen at application stage**

### **Core Modules**

<b>Module Code</b>	<b>Module Title</b>	<b>Module Credits</b>	<b>Semester</b>
BTE1024	Fundamentals of Bioreaction Engineering	5	Semester 1
BTE1031	Introduction to Bioprocess Engineering	5	Semester 1
BTE1033	Animal Cell Culture Technology	5	Semester 1
BTE1035	Bioreactor Design, Modelling & Monitoring	5	Semester 1
BTE1036	Regulatory Affairs Sc. for Biotech Products	5	Semester 1
GCB1005	Recombinant DNA Technology	5	Semester 1
BTE1039	Bioprocess Engineering Design Project	30	Semester 1, 2 & 3
BTE1025	Bioseparations	5	Semester 2
BTE1028	Bioprocessing Laboratory 1	5	Semester 2
BTE1032	Bioprocess Scale Up & Technology Transfer	5	Semester 2
BTE1034	Biopharmaceutical Industry Regulation & Management	5	Semester 2
BTE1037	Formulation & Delivery of Biopharmaceuticals	5	Semester 2

BTE1038	Biopharmaceutical Facility Design & Operation	5	Semester 2
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### Optional Modules

**Flexible Student Route,** Modules are core to complete the programme but students can decide to register for them either in year one or year two.

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BTE1031	Introduction to Bioprocess Engineering	5	Semester 1
BTE1033	Animal Cell Culture Technology	5	Semester 1
BTE1035	Bioreactor Design, Modelling & Monitoring	5	Semester 1
BTE1036	Regulatory Affairs Sc. for Biotech Products	5	Semester 1
GCB1005	Recombinant DNA Technology	5	Semester 1
BTE1039	Bioprocess Engineering Design Project	30	Semester 1, 2 & 3
BTE1025	Bioseparations	5	Semester 2
BTE1028	Bioprocessing Laboratory 1	5	Semester 2
BTE1032	Bioprocess Scale Up & Technology Transfer	5	Semester 2
BTE1034	Biopharmaceutical Industry Regulation & Management	5	Semester 2
BTE1037	Formulation & Delivery of Biopharmaceuticals	5	Semester 2
BTE1038	Biopharmaceutical Facility Design & Operation	5	Semester 2