

MEng. Mechanical & Manufacturing Engineering

Course Short Code

MMME

Course Year

C

Course Offering: 03

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MEng. Mechanical & Manufacturing Engineering, Continuous

Below is the registration information in relation to:

Over the duration of this programme you must register for 60 credits of modules (30 credits in Semester 1 and 30 credits in Semester 2), plus a 30 credit project.

SEMESTER 1

You must register for the following core module:

MM533	Research Practice and Methodology
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Following Modules have to be chosen according to the Stream

No Major

Students must select the module below and the remaining 7 modules from the list of optional modules

AUTUMN SEMESTER

MM542 (Masters)	30 Cre
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Major in Sustainable Systems and Energy

SEMESTER 1 Modules

EE535	Energy System Decarbonisation
MM535	Energy Auditing and Energy Management

SEMESTER 2 Modules

MM536	Advanced Sustainable Energy Systems
MM537	Whole Life Cycle Analysis

AUTUMN SEMESTER

MM544	Sustainable Systems and Energy	30 Credits
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Major in Advanced Manufacturing

SEMESTER 1 Modules

MM523	Product Design, Development & Value Analysis	7.5 Credits
MM584	Manufacturing Systems Simulation	7.5 Credits

SEMESTER 2 Modules

MM555	Manufacturing Process Analysis & Tool Design
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AUTUMN SEMESTER

MM547 in Advanced Manufacturing	30 Cre
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Major in Simulation-Driven Design

SEMESTER 1 Modules

MM584 Manufacturing Systems Simulation	7.5 Cre
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SEMESTER 2 Modules

MM524	Advanced FEA
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MM532	Computational Thermo-Fluid Dynamics
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MM538	Turbomachinery
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AUTUMN SEMESTER

MM548 Simulation-Driven Design	30 Cre
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Major in Biomedical Engineering

Students must select the modules below and the remaining 3 modules from the list of optional modules

YEAR LONG SEMESTER

BIM517 Mechanics of Tissue Engineering	7.5 Cre
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BM500 for Clinical Practice	7.5 Cre
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SEMESTER 2 Modules

MM524	Advanced FEA
MM532	Computational Thermo-Fluid Dynamics

AUTUMN SEMESTER

MM546	Medical Project (Masters)	30 Credits
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Year Long Optional / Complimentary Modules: Students must select 3 Modules

MM517	Mechanics of Tissue Engineering	7.5 Credits
MM500	Research for Clinical Practice	7.5 Credits

SEMESTER 1 Optional / Complimentary Modules: Students must select 3 Modules

***MM421 & MM432 must be chosen if not taken before as they are prerequisites for semester 2 modules**

EE535	Energy System Decarbonisation
MM421	Finite Element Analysis
MM432	Heat and Mass Transfer
MM523	Product Design, Development & Value Analysis
MM584	Manufacturing Systems Simulation
MM535	Energy Auditing and Energy Management

SEMESTER 2 Optional / Complimentary Modules: Students must select 4 Modules

EE507	Entrepreneurship for Engineers
MM524	Advanced FEA
MM532	Computational Thermo-Fluid Dynamics
MM555	Manufacturing Process Analysis & Tool Design
MM536	Advanced Sustainable Energy Systems
MM538	Turbomachinery
MM537	Whole Life Cycle Analysis
MM550	Global Sustainable Development Challenges

Autumn Semester Modules

Each student must select one of the project modules depending on the major:

MM542	Project (Masters)
MM544	Project Sustainable Systems and Energy
MM548	Project Simulation-Driven Design
MM546	Biomedical Project (Masters)
MM547	Project in Advanced Manufacturing

Last updated: October 12th 2023