

Medical Device Design Stream Modules

Both Semesters

ME7B08
Research Project (40 ECTS)

(modules are 5 ECTS unless stated otherwise)

Semester One

The following are mandatory modules for this stream

ME5M20
Biomaterials

ME5M19
Biomechanics

ME7B24
Experimental and Research Methods in Biomedical Engineering

MEP56BM9
Medical Device Design Fundamentals

Select one module from the following modules for this stream

MEP55B10
Finite Element Analysis

MEP55B91
Neural Signal Analysis

MEP56BM1
Medical Device Design Innovation Project (10 ECTS)

Semester Two

The following are mandatory modules for this stream

MEP55BM9
Active Implanted Medical Devices and Systems

ME5BIO7
Advanced Medical Imaging

Select one module from the following modules for this stream

ME7BM3
Allied Health Sciences

ME5BIO3
Tissue Engineering

Neural Stream Modules

(modules are 5 ECTS unless stated otherwise)

Both Semesters

ME7B08
Research Project (40 ECTS)

Semester One

The following are mandatory modules for this stream

- ME5M20**
Biomaterials
- ME7B24**
Experimental and Research Methods in Biomedical Engineering
- PG7901**
Form and Function of the Nervous System
- MEP56BM9**
Medical Device Design Fundamentals
- PG7914**
Neural Engineering
- MEP55B91**
Neural Signal Analysis

Semester Two

The following are mandatory modules for this stream

- MEP55BM9**
Active Implanted Medical Devices and Systems
- ME5BIO7**
Advanced Medical Imaging
- PR7917**
Data Science in Neuroimaging
- CSP7001**
Introduction to Machine Learning

Tissue Engineering Stream Modules

Both Semesters

ME7B08
Research Project (40 ECTS)

(modules are 5 ECTS unless stated otherwise)

MEP56BM1
Medical Device Design Innovation Project (10 ECTS)

Semester One

The following are mandatory modules for this stream

ME5M20
Biomaterials

ME5M19
Biomechanics

ME7B24
Experimental and Research Methods in Biomedical Engineering

ME7B16
Laboratory Techniques in Cell and Tissue Engineering

MEP56BM9
Medical Device Design Fundamentals

Semester Two

The following are mandatory modules for this stream

ME5BIO7
Advanced Medical Imaging

ME5BIO3
Tissue Engineering

Please select one of the following modules

ME7BM3
Allied Health Sciences

MEP55BM9
Active Implanted Medical Devices and Systems