MSBME Study Path (2018 Cohort)

Full-time Normal Study Path <u>by Taught Courses</u> (1 Year)

(Study load: ≥ 12 CUs / semester)

<table>
<tr><th>Yr.</th><th>Sem.</th><th colspan="5">Courses</th><th>CUs</th></tr>
<tr><td rowspan="2">1</td><td>A</td><td rowspan="2">MBE6101
Manufacturing of Biomedical Devices (3CUs)</td><td>MBE6111
Biomedical Instrumentation
(3CUs)</td><td>MBE5110
Biomedical Engineering Design #
or
Elective course
(3CUs)</td><td>Elective course
(3CUs)</td><td>Elective course
(3CUs)</td><td rowspan="2">15</td></tr>
<tr><td colspan="5"><u>Elective courses</u>:
(a) MBE6007 Advanced Automation Technology
(b) MBE6022 Project Development Study
(c) MBE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials
(d) MBE6119 Electron Microscopy</td></tr>
<tr><td rowspan="2">B</td><td rowspan="2">MBE6005
Micro Systems Technology
(3CUs)</td><td rowspan="2">MBE6118
Biomedical Photonics
(3 CUs)</td><td>MBE6117 Biomedical Safety and Risk Assessment Δ
or
Elective course
(3CUs)</td><td>Elective course
(3CUs)</td><td>Elective course
(3CUs)</td><td rowspan="2">15</td></tr>
<tr><td colspan="3"><u>Elective courses</u>:
(a) MBE6002 Computer Controlled Systems
(b) MBE6046 Nano-Manufacturing
(c) MBE6121 Biomechanics</td></tr>
</table>

Total CUs = 30

Recommended for students who do not have biomedical engineering/science or bioengineering background.
Δ Recommended for students who have biomedical engineering/science or bioengineering background.

MSBME Study Path (2018 Cohort)

Full-time Normal Study Path <u>by Dissertation</u> (1 Year)

(Study load: ≥ 12 CUs / semester)

<table>
<tr><th>Yr.</th><th>Sem.</th><th colspan="4">Courses</th><th>CUs</th></tr>
<tr><td rowspan="3">1</td><td rowspan="2">A</td><td rowspan="2">MBE6101
Manufacturing of Biomedical Devices (3CUs)</td><td rowspan="2">MBE6111
Biomedical Instrumentation
(3CUs)</td><td>MBE5110
Biomedical Engineering Design #
or
Elective course
(3CUs)</td><td>Elective course
(3CUs)</td><td rowspan="2">12</td></tr>
<tr><td colspan="2"><u>Elective courses</u>:
(a) MBE6007 Advanced Automation Technology
(b) MBE6022 Project Development Study
(c) MBE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials
(d) MBE6119 Electron Microscopy</td></tr>
<tr><td>B</td><td>MBE6005
Micro Systems Technology
(3CUs)</td><td>MBE6118
Biomedical Photonics
(3 CUs)</td><td>MBE6117
Biomedical Safety and Risk Assessment Δ
or
Elective course
(3CUs)

<u>Elective courses</u>:
(a) MBE6002 Computer Controlled Systems
(b) MBE6046 Nano-Manufacturing
(c) MBE6121 Biomechanics</td><td rowspan="2">MBE6008
Dissertation
(6CUs)
+
(3CUs)</td><td>15</td></tr>
<tr><td>S</td><td></td><td></td><td></td><td>3</td></tr>
</table>

Total CUs = 30

Recommended for students who do not have biomedical engineering/science or bioengineering background.
Δ Recommended for students who have biomedical engineering/science or bioengineering background.

MSBME Study Path (2018 Cohort)

Part-time Normal Study Path by Taught Courses (2 Years)

(Study load: ≤ 9 CUs / semester)

Yr.	Sem.	Courses			CUs
1	A	MBE6101 Manufacturing of Biomedical Devices (3CUs)	MBE6111 Biomedical Instrumentation (3CUs)	MBE5110 Biomedical Engineering Design # *or* Elective course (3CUs)	**9**
	B	MBE6005 Micro Systems Technology (3CUs)	MBE6118 Biomedical Photonics (3 CUs)	MBE6117 Biomedical Safety and Risk Assessment Δ *or* Elective course (3CUs)	**9**
2	A	Elective course (3CUs)	Elective course (3CUs)		**6**
	B	Elective course (3CUs)	Elective course (3CUs)		**6**
Elective courses in Semester A: (a) MBE6007 Advanced Automation Technology / (b) MBE6022 Project Development Study (c) MBE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials / (d) MBE6119 Electron Microscopy Elective courses in Semester B: (a) MBE6002 Computer Controlled Systems / (b) MBE6046 Nano-Manufacturing / (c) MBE6121 Biomechanics					

Recommended for students who do not have biomedical engineering/science or bioengineering background.
Δ Recommended for students who have biomedical engineering/science or bioengineering background.
The elective course list may change subject to changes in the programme and/or demand for individual courses.

MSBME Study Path (2018 Cohort)

Part-time Normal Study Path <u>by Dissertation</u> (1.5 Years)

(Study load: ≤ 11 CUs / semester)

<table>
<tr><th>Yr.</th><th>Sem.</th><th colspan="4">Courses</th><th>CUs</th></tr>
<tr><td rowspan="3">1</td><td>A</td><td>MBE6101
Manufacturing of Biomedical Devices (3CUs)</td><td>MBE6111
Biomedical Instrumentation
(3CUs)</td><td colspan="2">MBE5110
Biomedical Engineering Design #
or
Elective course
(3CUs)</td><td>9</td></tr>
<tr><td>B</td><td>MBE6005
Micro Systems Technology
(3CUs)</td><td>MBE6118
Biomedical Photonics
(3 CUs)</td><td>MBE6117
Biomedical Safety and Risk Assessment Δ
or
Elective course
(3CUs)</td><td rowspan="4">MBE6008
Dissertation
(2CUs)
+
(3CUs)
+
(4CUs)

(Maximum - 6 semesters)</td><td>11</td></tr>
<tr><td>S</td><td></td><td></td><td></td><td>3</td></tr>
<tr><td>2</td><td>A</td><td>Elective course (3CUs)</td><td></td><td></td><td>7</td></tr>
<tr><td colspan="5"><u>Elective courses in Semester A</u>:
(a) MBE6007 Advanced Automation Technology /
(b) MBE6022 Project Development Study /
(c) MBE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials /
(d) MBE6119 Electron Microscopy
<u>Elective courses in Semester B</u>:
(a) MBE6002 Computer Controlled Systems / (b) MBE6046 Nano-Manufacturing / (c) MBE6121 Biomechanics</td></tr>
</table>

Total CUs = 30

Recommended for students who do not have biomedical engineering/science or bioengineering background.
Δ Recommended for students who have biomedical engineering/science or bioengineering background.
The elective course list may change subject to changes in the programme and/or demand for individual courses.