MSBME Study Path (2025 Cohort)
Full-time Normal Study Path via **Taught Courses** (1 Year)

<table>
<tr><th>Yr.</th><th>Sem.</th><th colspan="5">Courses</th><th>CUs</th></tr>
<tr><td rowspan="6">1</td><td rowspan="2">A</td><td colspan="5"><u>Elective courses for selection</u><u>@</u><u>:</u></td><td rowspan="2">15</td></tr>
<tr><td><u>Bioimaging</u>

- BME5110 Biomedical Engineering Design</td><td><u>BioMEMS</u>

- BME6101 Manufacturing of Biomedical Devices

- BME6111 Biomedical Instrumentation</td><td><u>Nanomedicine / Biomaterials</u>

- BME6136 Advanced Biomaterials for Healthcare and Biomedical Applications</td><td><u>Biomedical Robotics</u>

- BME6145 Applied Artificial Intelligence for Biomedical and Healthcare Applications</td><td><u>Flexible Bioelectronics</u>

- BME6123 Flexible Bioelectronics for Medical Applications</td></tr>
<tr><td rowspan="2">B</td><td colspan="5"><u>Elective courses for selection</u><u>@</u><u>:</u></td><td rowspan="2">12
or
15</td></tr>
<tr><td><u>Bioimaging</u>

- BME6118 Biomedical Imaging and Biophotonics

- BME6140 Advanced Optical Microscopy for Biomedical Engineering</td><td><u>BioMEMS</u>

- BME6005 Micro Systems Technology</td><td><u>Nanomedicine / Biomaterials</u>

- BME6135 Engineering Principles for Drug Delivery</td><td><u>Biomedical Robotics</u>

- BME6115 Biorobotics

- BME6121 Biomechanics

- BME6138 Robotics in Minimally Invasive Healthcare</td><td><u>Flexible Bioelectronics</u>

- BME6142 Rapid Diagnostic Devices for Personalized Healthcare</td></tr>
<tr><td rowspan="2">S</td><td colspan="5"><u>Elective courses for selection</u><u>@</u><u>:</u></td><td rowspan="2">0
or
3</td></tr>
<tr><td colspan="2"><u>Nanomedicine / Biomaterials</u>

- BME6141 Fundamentals and Applications of Single-molecule Biophysics in Rapid Diagnostics</td><td colspan="2"><u>Flexible Bioelectronics</u>

- BME6117 Biomedical Safety and Risk Assessment</td></tr>
<tr><td colspan="5"></td><td>Total CUs =</td><td>30</td></tr>
</table>

Remarks:
( ) number of credit units
@ Courses list may change subject to changes in the programme and/or demand for individual courses.

MSBME Study Path (2025 Cohort)
Full-time Normal Study Path via **Dissertation** (1 Year)

<table>
<tr><th>Yr.</th><th>Sem.</th><th colspan="6">Courses</th><th>CUs</th></tr>
<tr><td rowspan="4">1</td><td>A</td><td colspan="6"><u>Elective courses for selection</u>@:
<u>Bioimaging</u>

- BME5110 Biomedical Engineering Design

<u>BioMEMS</u>

- BME6101 Manufacturing of Biomedical Devices

- BME6111 Biomedical Instrumentation

<u>Nanomedicine / Biomaterials</u>

- BME6136 Advanced Biomaterials for Healthcare and Biomedical Applications

<u>Biomedical Robotics</u>

- BME6145 Applied Artificial Intelligence for Biomedical and Healthcare Applications

<u>Flexible Bioelectronics</u>

- BME6123 Flexible Bioelectronics for Medical Applications</td><td>15</td></tr>
<tr><td>B</td><td rowspan="2">BME6008 Dissertation (6 CUs)

+

(3CUs)</td><td colspan="5"><u>Elective courses for selection</u>@:
<u>Bioimaging</u>

- BME6118 Biomedical Imaging and Biophotonics

- BME6140 Advanced Optical Microscopy for Biomedical Engineering

<u>BioMEMS</u>

- BME6005 Micro Systems Technology

<u>Nanomedicine / Biomaterials</u>

- BME6135 Engineering Principles for Drug Delivery

<u>Biomedical Robotics</u>

- BME6115 Biorobotics

- BME6121 Biomechanics

- BME6138 Robotics in Minimally Invasive Healthcare

<u>Flexible Bioelectronics</u>

- BME6142 Rapid Diagnostic Devices for Personalized Healthcare</td><td>12</td></tr>
<tr><td>S</td><td colspan="5"><u>Elective courses for selection</u>@:
<u>Nanomedicine / Biomaterials</u>

- BME6141 Fundamentals and Applications of Single-molecule Biophysics in Rapid Diagnostics

<u>Flexible Bioelectronics</u>

- BME6117 Biomedical Safety and Risk Assessment</td><td>3</td></tr>
<tr><td colspan="7"></td><td>Total CUs =</td><td>30</td></tr>
</table>

Remarks:
( ) number of credit units
@ Courses list may change subject to changes in the programme and/or demand for individual courses.

MSBME Study Path (2025 Cohort)
Part-time Normal Study Path via **Taught Courses** (2 Years)
Students are required to complete (i) ten electives OR (ii) dissertation + seven electives. The advice is not to take more than 11 credit units in a semester.

Yr.	Sem.	Courses					CUs
1	A	**Elective courses for selection[@]:**					9
		Bioimaging - BME5110 Biomedical Engineering Design	**BioMEMS** - BME6101 Manufacturing of Biomedical Devices - BME6111 Biomedical Instrumentation	**Nanomedicine / Biomaterials** - BME6136 Advanced Biomaterials for Healthcare and Biomedical Applications	**Biomedical Robotics** - BME6145 Applied Artificial Intelligence for Biomedical and Healthcare Applications	**Flexible Bioelectronics** - BME6123 Flexible Bioelectronics for Medical Applications	
	B	**Elective courses for selection[@]:**					9
		Bioimaging - BME6118 Biomedical Imaging and Biophotonics - BME6140 Advanced Optical Microscopy for Biomedical Engineering	**BioMEMS** - BME6005 Micro Systems Technology	**Nanomedicine / Biomaterials** - BME6135 Engineering Principles for Drug Delivery	**Biomedical Robotics** - BME6115 Biorobotics - BME6121 Biomechanics - BME6138 Robotics in Minimally Invasive Healthcare	**Flexible Bioelectronics** - BME6142 Rapid Diagnostic Devices for Personalized Healthcare	
2	A	**Elective courses for selection[@]:**					6
		Bioimaging - BME5110 Biomedical Engineering Design	**BioMEMS** - BME6101 Manufacturing of Biomedical Devices - BME6111 Biomedical Instrumentation	**Nanomedicine / Biomaterials** - BME6136 Advanced Biomaterials for Healthcare and Biomedical Applications	**Biomedical Robotics** - BME6145 Applied Artificial Intelligence for Biomedical and Healthcare Applications	**Flexible Bioelectronics** - BME6123 Flexible Bioelectronics for Medical Applications	
	B	**Elective courses for selection[@]:**					6
		Bioimaging - BME6118 Biomedical Imaging and Biophotonics - BME6140 Advanced Optical Microscopy for Biomedical Engineering	**BioMEMS** - BME6005 Micro Systems Technology	**Nanomedicine / Biomaterials** - BME6135 Engineering Principles for Drug Delivery	**Biomedical Robotics** - BME6115 Biorobotics - BME6121 Biomechanics - BME6138 Robotics in Minimally Invasive Healthcare	**Flexible Bioelectronics** - BME6142 Rapid Diagnostic Devices for Personalized Healthcare	
						Total CUs =	**30**

Remarks:
( ) number of credit units
[@] Courses list may change subject to changes in the programme and/or demand for individual courses.

MSBME Study Path (2025 Cohort)
Part-time Normal Study Path via **Dissertation** (1.5 Years)

<table>
<tr><th>Yr.</th><th>Sem.</th><th colspan="6">Courses</th><th>CUs</th></tr>
<tr><td rowspan="4">1</td><td>A</td><td colspan="6"><u>Elective courses for selection@</u>:</td><td>9</td></tr>
<tr><td></td><td><u>Bioimaging</u>

- BME5110 Biomedical Engineering Design</td><td><u>BioMEMS</u>

- BME6101 Manufacturing of Biomedical Devices

- BME6111 Biomedical Instrumentation</td><td><u>Nanomedicine / Biomaterials</u>

- BME6136 Advanced Biomaterials for Healthcare and Biomedical Applications</td><td><u>Biomedical Robotics</u>

- BME6145 Applied Artificial Intelligence for Biomedical and Healthcare Applications</td><td colspan="2"><u>Flexible Bioelectronics</u>

- BME6123 Flexible Bioelectronics for Medical Applications</td></tr>
<tr><td>B</td><td colspan="5"><u>Elective courses for selection@</u>:</td><td rowspan="3">BME6008 Dissertation (2 CUs)

+
(3 CUs)

+
(4CUs)
Maximum 6 semesters</td><td>11</td></tr>
<tr><td></td><td><u>Bioimaging</u>

- BME6118 Biomedical Imaging and Biophotonics

- BME6140 Advanced Optical Microscopy for Biomedical Engineering</td><td><u>BioMEMS</u>

- BME6005 Micro Systems Technology</td><td><u>Nanomedicine / Biomaterials</u>

- BME6135 Engineering Principles for Drug Delivery</td><td><u>Biomedical Robotics</u>

- BME6115 Biorobotics

- BME6121 Biomechanics

- BME6138 Robotics in Minimally Invasive Healthcare</td><td><u>Flexible Bioelectronics</u>

- BME6142 Rapid Diagnostic Devices for Personalized Healthcare</td></tr>
<tr><td>S</td><td colspan="5"><u>Elective courses for selection@</u>:</td><td>3 or 6</td></tr>
<tr><td></td><td colspan="2"><u>Nanomedicine / Biomaterials</u>

- BME6141 Fundamentals and Applications of Single-molecule Biophysics in Rapid Diagnostics</td><td colspan="3"><u>Flexible Bioelectronics</u>

- BME6117 Biomedical Safety and Risk Assessment</td></tr>
<tr><td rowspan="2">2</td><td>A</td><td colspan="5"><u>Elective courses for selection@</u>:</td><td rowspan="2">4 or 7</td></tr>
<tr><td></td><td><u>Bioimaging</u>

- BME5110 Biomedical Engineering Design</td><td><u>BioMEMS</u>

- BME6101 Manufacturing of Biomedical Devices

- BME6111 Biomedical Instrumentation</td><td><u>Nanomedicine / Biomaterials</u>

- BME6136 Advanced Biomaterials for Healthcare and Biomedical Applications</td><td><u>Biomedical Robotics</u>

- BME6145 Applied Artificial Intelligence for Biomedical and Healthcare Applications</td><td><u>Flexible Bioelectronics</u>

- BME6123 Flexible Bioelectronics for Medical Applications</td></tr>
<tr><td colspan="7">Total CUs =</td><td>30</td></tr>
</table>

Remarks:
( ) number of credit units
@ Courses list may change subject to changes in the programme and/or demand for individual courses.