

MSBME Study Path (2020 Cohort)  
**Full-time Normal Study Path via Taught Courses (1 Year)**  
**(Taking a load of ≥12 CUs / semester)**

Yr.	Sem.	Courses					CUs
<b>1</b>	<b>A</b>	BME6101 Manufacturing of Biomedical Devices (3CUs)	BME6111 Biomedical Instrumentation (3CUs)	BME6121 Biomechanics (3 CUs)	BME5110 Biomedical Engineering Design # <i>or</i> Elective course (3CUs)	Elective course (3CUs)	<b>15</b>
	<u>Elective courses<sup>@</sup>:</u> (a) BME5111 Regenerative Medicine (b) BME6022 Project Development Study (c) BME6123 Flexible Bioelectronics for Medical Applications (d) MNE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials (e) MNE6119 Electron Microscopy						
	<b>B</b>	BME6005 Micro Systems Technology (3CUs)	Elective course (3CUs)	Elective course (3CUs)	BME6117 Biomedical Safety and Risk Assessment <sup>Δ</sup> <i>or</i> Elective course (3CUs)	Elective course (3CUs)	<b>15</b>
<u>Elective courses<sup>@</sup>:</u> (a) BME6115 Biorobotics (b) BME6114 Advanced Control Systems (c) BME6118 Biomedical Imaging and Biophotonics (d) BME6135 Engineering Principles for Drug Delivery (e) <i>BME61xx New Course pending</i>							

**Total CUs = 30**

Note 1: ( ) number of credit units

Note 2: # 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.

Note 3: @ Courses list may change subject to changes in the programme and/or demand for individual courses.

MSBME Study Path (2020 Cohort)  
**Full-time Normal Study Path via Dissertation (1 Year)**  
**(Taking a load of  $\geq 12$  or 15 CUs / semester)**

Dissertation is recommended to students who plan to graduate at the end of Summer Term. Students are also strongly recommended to take dissertation as their elective to complete the programme in 1 year as follows:

Yr.	Sem.	Courses				CUs
<b>1</b>	<b>A</b>	BME6101 Manufacturing of Biomedical Devices (3CUs)	BME6111 Biomedical Instrumentation (3CUs)	BME6121 Biomechanics (3 CUs)	BME5110 Biomedical Engineering Design # <i>or</i> Elective course (3CUs)	<b>12 or 15</b>
	<u>Elective courses@:</u> (a) BME5111 Regenerative Medicine (b) BME6022 Project Development Study (c) BME6123 Flexible Bioelectronics for Medical Applications (d) MNE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials (e) MNE6119 Electron Microscopy					
	<b>B</b>	BME6008 Dissertation (6CUs)  + (3CUs)	BME6005 Micro Systems Technology (3CUs)	Elective course (3CUs)	BME6117 Biomedical Safety and Risk Assessment $\Delta$ <i>or</i> Elective course (3CUs)	<b>12 or 15</b>
<u>Elective courses@:</u> (a) BME6115 Biorobotics (b) BME6114 Advanced Control Systems (c) BME6118 Biomedical Imaging and Biophotonics (d) BME6135 Engineering Principles for Drug Delivery (e) <i>BME61xx New Course pending</i>						
	<b>S</b>					<b>3</b>

**Total CUs = 30**

Note 1: ( ) number of credit units

Note 2: # Recommended for students who do not have biomedical engineering/science or bioengineering background.

$\Delta$  Recommended for students who have biomedical engineering/science or bioengineering background.

Note 3: @ Courses list may change subject to changes in the programme and/or demand for individual courses.

MSBME Study Path (2020 Cohort)  
**Part-time Normal Study Path via Taught Courses (2 Years)**  
**(Taking a load of  $\leq 9$  CUs / semester)**

Students are required to complete the five core courses plus (i) five electives or (ii) dissertation + one elective + Project Development Study (elective). The advice is not to take more than 11 credit units in a semester.

Yr.	Sem.	Courses			CUs
1	A	BME6101 Manufacturing of Biomedical Devices (3CUs)	BME6111 Biomedical Instrumentation (3CUs)	BME5110 Biomedical Engineering Design # <i>or</i> Elective course (3CUs)	9
	B	BME6005 Micro Systems Technology (3CUs)	Elective course (3CUs)	BME6117 Biomedical Safety and Risk Assessment $\Delta$ <i>or</i> Elective course (3CUs)	9
2	A	BME6121 Biomechanics (3 CUs)	Elective course (3CUs)		6
	B	Elective course (3CUs)	Elective course (3CUs)		6
<u>Elective courses in Semester A<sup>@</sup>:</u> (a) BME5111 Regenerative Medicine; (b) BME6022 Project Development Study; (c) BME6123 Flexible Bioelectronics for Medical Applications; (d) MNE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials; (e) MNE6119 Electron Microscopy <u>Elective courses in Semester B<sup>@</sup>:</u> (a) BME6115 Biorobotics; (b) BME6114 Advanced Control Systems; (c) BME6118 Biomedical Imaging and Biophotonics; (d) BME6135 Engineering Principles for Drug Delivery; (e) <i>BME61xx New Course pending</i>					

**Total CUs = 30**

Note 1: ( ) number of credit units

Note 2: # Recommended for students who do not have biomedical engineering/science or bioengineering background.

$\Delta$  Recommended for students who have biomedical engineering/science or bioengineering background.

Note 3: <sup>@</sup> Courses list may change subject to changes in the programme and/or demand for individual courses.

MSBME Study Path (2020 Cohort)  
**Part-time Normal Study Path via Dissertation (1.5 Years)**  
**(Taking a load of  $\leq 11$  CUs / semester)**

Dissertation is recommended to students who plan to graduate at the end of Summer Term. If students select dissertation as their elective, they can complete the programme as follows:

Yr.	Sem.	Courses			CUs
1	A	BME6101 Manufacturing of Biomedical Devices (3CUs)	BME6111 Biomedical Instrumentation (3CUs)	BME5110 Biomedical Engineering Design # <i>or</i> Elective course (3CUs)	9
	B	BME6005 Micro Systems Technology (3CUs)	Elective course (3CUs)	BME6117 Biomedical Safety and Risk Assessment $\Delta$ <i>or</i> Elective course (3CUs)	BME6008 Dissertation (2CUs) + (3CUs)
	S				3
2	A	BME6121 Biomechanics (3 CUs)			+ (4CUs)  (Maximum - 6 semesters)
<u>Elective courses in Semester A<sup>@</sup>:</u> (a) BME5111 Regenerative Medicine; (b) BME6022 Project Development Study; (c) BME6123 Flexible Bioelectronics for Medical Applications; (d) MNE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials; (e) MNE6119 Electron Microscopy <u>Elective courses in Semester B<sup>@</sup>:</u> (a) BME6115 Biorobotics; (b) BME6114 Advanced Control Systems; (c) BME6118 Biomedical Imaging and Biophotonics; (d) BME6135 Engineering Principles for Drug Delivery; (e) <i>BME61xx New Course pending</i>					

**Total CUs = 30**

Note 1: ( ) number of credit units

Note 2: # Recommended for students who do not have biomedical engineering/science or bioengineering background.

$\Delta$  Recommended for students who have biomedical engineering/science or bioengineering background.

Note 3: @ Courses list may change subject to changes in the programme and/or demand for individual courses.