# MSBME Study Path (2019 Cohort) Full-time Normal Study Path <u>via Taught Courses</u> (1 Year)

(Taking a load of  $\ge 12 \text{ CUs / semester}$ )

Yr.	Sem.	Courses					CUs
1	A	BME6101 Manufacturing of Biomedical Devices (3CUs)	BME5110 Biomedical Instrumentation (3CUs)  BME5110 Biomedical Engineering Design  # Elective course (3CUs)  Elective course (3CUs)				15
			Take any 2 courses from:  (a) BME5111 Regenerative Medicine  (b) BME6022 Project Development Study  (c) BME6121 Biomechanics  (c) MNE6007 Advanced Automation Technology  (d) MNE6110 Mechanical Behaviour of Materials: From Metallic to Biomedical/ Biological Materials  (e) MNE6119 Electron Microscopy				
	В	BME6005 Micro Systems Technology (3CUs)	BME6118 Biomedical Photonics (3CUs)	BME6117 Biomedical Safety and Risk Assessment <sup>Δ</sup> or Elective course (3CUs)  Take any 2/3 courses from: (a) BME6115 Biorobotics (b) BME6122 Physiological Modeling	Elective course (3CUs)	Elective course (3CUs)	15
				(c) BME6122 Flysiological Modelii (c) BME6123 Flexible Bioelectronic (d) MNE6046 Nano-Manufacturing		l Applications	

Total CUs = 30

Note 1: ( ) number of credit units

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

<sup>&</sup>lt;sup>∆</sup> Recommended for students who have biomedical engineering/science or bioengineering background.

### MSBME Study Path (2019 Cohort)

### Full-time Normal Study Path <u>via Dissertation</u> (1 Year) (Taking a load of ≥ 12 CUs / semester)

Students are strongly recommended to take dissertation as their elective to complete the programme in 1 year as follows:

Yr.	Sem.	Courses				CUs
1	A	BME6101 Manufacturing of Biomedical Devices (3CUs)	BME6111 Biomedical Instrumentation (3CUs)	BME5110  Biomedical Engineering Design #  or Elective course (3CUs)  Take any 1/2 courses from:  (a) PME5111 Pagenerative Medicine		12
	В	BME6005 Micro Systems Technology (3CUs)	BME6118 Biomedical Photonics (3CUs)	BME6117 Biomedical Safety and Risk Assessment <sup>Δ</sup> or  Elective course (3CUs)  Take elective course from: (a) BME6115 Biorobotics (b) BME6122 Physiological Modeling (c) BME6123 Flexible Bioelectronics for Medical Applications (d) MNE6046 Nano-Manufacturing	BME6008 Dissertation (6CUs)	15
	S				(3CUs)	3

Total CUs = 30

Note 1: ( ) number of credit units

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

 $<sup>^{\</sup>Delta}$  Recommended for students who have biomedical engineering/science or bioengineering background.

#### MSBME Study Path (2019 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			
	A	BME6101 Manufacturing of Biomedical Devices (3CUs)	BME6111 Biomedical Instrumentation (3CUs)	BME5110 Biomedical Engineering Design #  or Elective course (3CUs)	9	
1	В	BME6005 Micro Systems Technology (3CUs)	BME6118 Biomedical Photonics (3CUs)	BME6117 Biomedical Safety and Risk Assessment <sup>Δ</sup> or  Elective course  (3CUs)	9	
_	A	Elective course (3CUs)	Elective course (3CUs)		6	
2	В	Elective course (3CUs)		re course CUs)	6	
(a) B (d) M Biolo Elect (a) B	ME5111 INE6007 ogical Ma ive cours ME6115	7 Advanced Automation Technology; (eaterials; (f) MNE6119 Electron Microsomes in Semester B:	2 Project Development Study; (c) BME62 e) MNE6110 Mechanical Behaviour of Mocopy ical Modeling; (c) BME6123 Flexible B	Iaterials: From Metallic to Biomedical/		

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 (2019 Cohort)

## Part-time Normal Study Path <u>via Dissertation</u> (1.5 Years) (Taking a load of $\leq$ 11 CUs / semester)

If students select dissertation as their elective, they can complete the programme as follows:

Yr.	Sem.	Courses				CUs
	A	BME6101 Manufacturing of Biomedical Devices (3CUs)	BME5110 Biomedical Engineering Design #  Or  Elective course (3CUs)  BME5110 Biomedical Engineering Design #  Or  Elective course (3CUs)		sign <sup>#</sup>	9
1	В	BME6005 Micro Systems Technology (3CUs)	BME6118 Biomedical Photonics (3CUs)	BME6117 Biomedical Safety and Risk Assessment <sup>Δ</sup> or  Elective course (3CUs)	BME6008 Dissertation (2CUs) +	11
	S				(3CUs)	3
2	A		(4CUs)	7		
(a) BM Biome (d) MI Metall <u>Electiv</u> (a) BM Medic	ME5111 echanics NE6007 lic to Biove cours ME6115 cal Appli	Advanced Automation Technomedical/ Biological Material es in Semester B:	ology; (e) MNE6110 M s; (f) MNE6119 Electro	echanical Behaviour of Materials: From	(Maximum - 6 semesters)	

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.