

3.2.1.3 Recommended Semester Schedule

TABLE 3.2.1B: RECOMMENDED SEMESTER SCHEDULE FOR BIOMEDICAL ENGINEERING STUDENTS

MODULES	MCS	MODULES	MCS
Semester 1		Semester 2	
BN1111 Biomedical Engineering Principles and Practice I	4	BN2111 Biomedical Engineering Principles and Practice II	4
EG1311 Design and Make	4	CS1010E Programming Methodology	4
MA1511 Engineering Calculus	2	ES1531 Critical Thinking & Writing	4
MA1512 Differential Equations for Engineering	2	GER1000 Quantitative Reasoning (GE 2)	4
MLE1010 Materials Engineering Principles and Practice	4	MA1513 Linear Algebra with Differential Equations	2
GE 1	4	PC1432 Physics IIE	4
Sub-total	20	Sub-total	22
Semester 3		Semester 4	
BN2201 Quantitative Physiology for Bioengineers	4	BN2102 Bioengineering Data Analysis	4
BN2403 Fundamentals of Biosignals Processing and Bioinstrumentation	4	BN2204 Fundamentals of Biomechanics	4
CM1501 Organic Chemistry for Engineers	4	BN2301 Biochemistry and Biomaterials for Bioengineers	4
EE2211 Introduction to Machine Learning	4	EG2401A Engineering Professionalism	2
GEQ1000 (GE 3)	4	IE2141 Systems Thinking and Dynamics	4
GE4	4	GE 5	4

MODULES		MCS	MODULES		MCS
Sub-total		24	Sub-total		22
Semester 5 (First Half Cohort*)			Semester 5 (Second Half Cohort*)		
EG3611A Industrial Attachment		10	BN3101 Biomedical Engineering Design		6
UE 1		4	UE 1		4
			UE 2		4
			UE 3		4
			Technical Elective 1		4
Sub-total		14	Sub-total		22
Semester 6 (First Half of Cohort*)			Semester 6 (Second Half of Cohort*)		
BN3101 Biomedical Engineering Design		6	EG3611A Industrial Attachment		10
UE 2		4	UE 4		4
UE 3		4			
UE 4		4			
Technical Elective 1		4			
Sub-total		22	Sub-total		14
Semester 7			Semester 8		
BN4101 B.Eng. Dissertation		4	BN4101 B.Eng. Dissertation		4
Pathway Elective 1		4	Pathway Elective 2		4
Technical Elective 2		4	UE 7		3
UE 5		4	UE 8		4
UE 6		4			4
Sub-total		20	Sub-total		16

1. Students without the GCE 'A' Level Chemistry or equivalent are strongly recommended to read CM1417 Fundamentals of Chemistry as their UE modules in their first year.

2. **Half Cohort**

+ Students are allowed to take up two modules in the evening, subject to approval.

Note: This schedule is correct as at time of printing and is subject to changes.

TABLE 3.2.1C: RECOMMENDED SEMESTER SCHEDULE FOR BIOMEDICAL ENGINEERING STUDENTS WITHOUT PHYSICS

Modules	MCs	Modules	MCs
Semester 1		Semester 2	
BN1111 Biomedical Engineering Principles and Practice I	4	BN2111 Biomedical Engineering Principles and Practice II	4
EG1311 Design and Make	4	CS1010E Programming Methodology	4
MA1511 Engineering Calculus	2	ES1531 Critical Thinking & Writing	4
MA1512 Differential Equations for Engineering	2	GER1000 Quantitative Reasoning (GE 1)	4
MLE1010 Materials Engineering Principles and Practice	4	PC1222 Fundamentals of Physics II (UE 2)	4
PC1221 Fundamentals of Physics I (UE 1)	4	PC1432 Physics IIE	4
Sub-total	20	Sub-total	24
Semester 3		Semester 4	
BN2201 Quantitative Physiology for Bioengineers	4	BN2102 Bioengineering Data Analysis	4
BN2403 Fundamentals of Biosignals Processing and Bioinstrumentation	4	BN2204 Fundamentals of Biomechanics	4
CM1501 Organic Chemistry for Engineers	4	BN2301 Biochemistry and Biomaterials for Bioengineers	4
EE2211 Introduction to Machine Learning	4	EG2401A Engineering Professionalism	2
GEQ1000 (GE 2)	4	IE2141 Systems Thinking and Dynamics	4

MA1513 Linear Algebra with Differential Equations	2	GE 3	4
Sub-total	22	Sub-total	22
Semester 5 (First Half of Cohort*)		Semester 5 (Second Half of Cohort*)	
EG3611A Industrial Attachment	10	BN3101 Biomedical Engineering Design	6
UE 3	4	UE 3	4
		GE 4	4
		GE 5	4
		Technical Elective 1	4
Sub-total	14	Sub-total	22
Semester 6 (First Half of Cohort*)		Semester 6 (Second Half of Cohort*)	
BN3101 Biomedical Engineering Design	6	EG3611A Industrial Attachment	10
UE 4	4	UE 3	4
GE 4	4		
GE 5	4		
Technical Elective 1	4		
Sub-total	22	Sub-total	19
Semester 7		Semester 8	
BN4101 B.Eng. Dissertation	4	BN4101 B.Eng. Dissertation	4
Pathway Elective 1	4	Pathway Elective 2	4
Technical Elective 2	4	UE 7	4
UE 5	4	UE 8	4
UE 6	4		
Sub-total	20	Sub-total	16

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2. **Half Cohort**

+ Students are allowed to take up two modules in the evening, subject to approval.

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