

COHORT 2018/2019
Bachelor of Engineering (Biomedical Engineering)

Recommended Semester Schedule for Biomedical Engineering Students (Poly Students)

A) PPP Pathway

Semester 1		Semester 2	
CM1417 Fundamentals of Chemistry (UEM 1)	4	MA1511 Engineering Calculus	2
GE 1	4	MA1512 Differential Equations for Engineering	2
MA1301 Introductory Mathematics (UEM 2)	4	GER1000 Quantitative Reasoning (GE 3)	4
PC1222 Fundamentals of Physics II (UEM 3)	4	PC1432 Physics IIE	4
GE 2	4	ES1531 Critical Thinking & Writing	4
		PC1221 Fundamentals of Physics I	4
Sub-total	20	Sub-total	20
Semester 3		Semester 4	
BN2201 Quantitative Physiology for Bioengineers	4	BN2102 Bioengineering Data Analysis	4
BN2202 Introduction to Biotransport	4	BN2204 Fundamentals of Biomechanics	4
BN2403 Fundamentals of Biosignals Processing and Bioinstrumentation	4	BN2301 Fundamental Biochemistry and Biomaterials for Bioengineers	4
GEQ1000 (GE 4)	4	EG2401A Engineering Professionalism	2
CM1501 Organic Chemistry for Engineers	4	GE 5	4
MA1513 Linear Algebra with Differential Equations	2		
Sub-total	22	Sub-total	18
Semester 5		Semester 6	
BN3101 Biomedical Engineering Design	6	BN4101 B.Eng. Dissertation	4
Free Elective 1 (to replace IA)	4	Technical Elective 3	4
Free Elective 2 (to replace IA)	4	Technical Elective 4	4
Technical Elective 1	4	Free Elective 3 (to replace IA)	2
Technical Elective 2	4	Pathway Elective 1 (Professional Development module)	4
Sub-total	22	Sub-total	18
Semester 7			
BN4101 B.Eng. Dissertation	4	<u>Exemptions</u> CS1010E (4MCs) BN1101 (6MCs) BN1102 (6MCs) UEM (20MCs)	
Pathway Elective 2 (Professional Development module)	4		
Sub-total	8		

B) RfP Pathway

Semester 1		Semester 2	
CM1417 Fundamentals of Chemistry (UEM 1)	4	MA1511 Engineering Calculus	2
GE 1	4	MA1512 Differential Equations for Engineering	2
MA1301 Introductory Mathematics (UEM 2)	4	GER1000 Quantitative Reasoning (GE 3)	4
PC1222 Fundamentals of Physics II (UEM 3)	4	PC1432 Physics IIE	4
GE 2	4	ES1531 Critical Thinking & Writing	4
		PC1221 Fundamentals of Physics I	4
Sub-total	20	Sub-total	20
Semester 3		Semester 4	
BN2201 Quantitative Physiology for Bioengineers	4	BN2102 Bioengineering Data Analysis	4
BN2202 Introduction to Biotransport	4	BN2204 Fundamentals of Biomechanics	4
BN2403 Fundamentals of Biosignals Processing and Bioinstrumentation	4	BN2301 Fundamental Biochemistry and Biomaterials for Bioengineers	4
GEQ1000 (GE 4)	4	EG2401A Engineering Professionalism	2
CM1501 Organic Chemistry for Engineers	4	GE 5	4
MA1513 Linear Algebra with Differential Equations	2		
Sub-total	22	Sub-total	18
Semester 5		Semester 6	
BN3101 Biomedical Engineering Design	6	BN4101 B.Eng. Dissertation	4
Free Elective 1 (to replace IA)	4	Technical Elective 3	4
Free Elective 2 (to replace IA)	4	Technical Elective 4	4
Technical Elective 1	4	Free Elective 3 (to replace IA)	2
Technical Elective 2	4	Pathway Elective 1 (BN5000 module)	4
Sub-total	22	Sub-total	18
Semester 7			
BN4101 B.Eng. Dissertation	4	<u>Exemptions</u> CS1010E (4MCs) BN1101 (6MCs) BN1102 (6MCs) UEM (20MCs)	
Pathway Elective 2 (BN5000 module)	4		
Sub-total	8		