

**Bachelor of Engineering (Materials Engineering)
Second Major in Business (AY2022-23)**

Updated: 27-Jun-22

Academic Unit (AU) Required for graduation

Year of Study	Core	MPE	CC	FC	BDE	Total AU
1	25 / 26 [†]	-	9	-	6	40 / 41 [†]
2	23	-	8	3	6	40
3	12	-	-	12	6	30
4	15	9	-	-	12	36
	75 / 76 [†]	9	17	15	30	146 / 147 [†]

[†]Students without H2 Level Physics will take PH1012 (4 AU)

Year 1 - Semester 1

Course Code and Title	Course Type	AU
CC0003 Ethics & Civics in a Multi-Cultural World	CC	2
CC0005 Healthy Living & Wellbeing	CC	3
PH1011 Physics ^{*/**}	Core	3
MH1810 Mathematics I [*]	Core	3
MS1013 Materials Chemistry I [*]	Core	2
MS1008 Introduction to Computational Thinking	Core	3
MS1017 Introduction to Materials Science	Core	2
AB1201 Financial Management	BDE	3
Total		21

Pre-Req	Co-Req	Offered in		
		S1	S2	Both
		Y		
		Y		
				Y
				Y
		Y		
		Y		
		Y		
		Y		

** Students who obtained at least 3 'A's in H2 level subjects and at least grade 'E' or 'C6' in General Paper (GP) or Knowledge Inquiry (KI) will be eligible for exemption if a grade 'A' is obtained in the corresponding subject at H2 level.*

*** Students without H2 Level Physics will take PH1012 Physics A (4 AU)*

Year 1 - Semester 2

Course Code and Title	Course Type	AU
CC0001 Inquiry and Communication in the Interdisciplinary World	CC	2
CC0002 Navigating the Digital World	CC	2
EG1001 Engineer & Society	Core	2
MS1014 Materials Chemistry II	Core	2
MS1018 Properties of Materials	Core	2
MS1016 Thermodynamics of Materials	Core	3
MS2013 Introduction to Polymer Science	Core	3
AB1501 Marketing	BDE	3
Total		19

Pre-Req	Co-Req	Offered in		
		S1	S2	Both
			Y	
			Y	
			Y	
			Y	
			Y	
			Y	
	MS1017			Y
	MS1014/MS1016			Y
			Y	

Year 2 - Semester 1

Course Code and Title	Course Type	AU
CC0007 Science & Technology for Humanity	CC	3
MS2012 Introduction to Manufacturing Processes	Core	3
MH2811 Mathematics II	Core	3
MS2014 Materials Structure and Defects	Core	3
MS2016 Phase Transformation and Kinetics	Core	3
MS2018 Electronic & Magnetic Properties of Materials	Core	3
MS2083 Laboratory on Structure-Property Relationship in Polymers	Core	1
AD1102 Financing Account	BDE	3
Total		22

Pre-Req	Co-Req	Offered in		
		S1	S2	Both
		Y		
				Y
				Y
MS1017	MH1810			Y
	MS1018			Y
	MS1016			Y
				Y
MS2013				Y
		Y		

Year 2 - Semester 2

Course Code and Title	Course Type	AU
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Pre-Req	Co-Req	Offered in		
		S1	S2	Both

