Bachelor of Engineering (Materials Engineering) Second Major in Business - ITP (AY2023-24)

					Last Update:	13-Oct-23
Academic Unit (AU) Required for graduation						
Year of Study	Core	MPE	СС	FC	BDE	Total AU
1	25 / 26 ⁺	-	9	-	6	40 / 41 +
2	20	-	8	3	11	42
3	12	-	-	12	6	30
4	18	9	-	-	8	35
	75 / 76 ⁺	9	17	15	31	147 / 148 ⁺

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

Year 1 (AY2023-24) - Semester 1			
Course Code and Title	Course Type	AU	
CC0003 Ethics & Civics in a Multi-Cultural World	CC	2	
CC0005 Healthy Living & Wellbeing	СС	3	
PH1011 Physics */**	Core	3	
MH1810 Mathematics I*	Core	3	
MS1013 Materials Chemistry I*	Core	2	
MS1016 Thermodynamics of Materials	Core	3	
MS1017 Introduction to Materials Science	Core	2	
AB1201 Financial Management	BDE	3	
Total		21	

^{*} 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 (AY2023-24) - 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	
MS1008 Introduction to Computational Thinking	Core	3	
MS1014 Materials Chemistry II	Core	2	
MS1018 Properties of Materials	Core	2	
MS2013 Introduction to Polymer Science	Core	3	
AB1501 Marketing	BDE	3	
Total			

Bachelor of Engineering (Materials Engineering)
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	Last Update:	13-Oct-23		
Year 2 (AY2024-25) - Semesto	Year 2 (AY2024-25) - Semester 1			
Course Code and Title	Course Type	AU		
CC0007 Science & Technology for Humanity	CC	3		
MH2811 Mathematics II	Core	3		
MS2012 Introduction to Manufacturing Processes	Core	3		
MS2015 Mechanical Behaviour of Materials	Core	3		
MS2016 Introduction to Metallurgy	Core	2		
MS2083 Laboratory on Structure-Property Relationship in Polymers	Core	1		
AD1102 Financing Account	BDE	3		
BF2227 Commodities Markets	BDE	3		
Total				

Year 2 (AY2024-25) - Semeste	er 2	
Course Code and Title	Course Type	AU
ML0004 Career and Entrepreneurial Development for the Future World	CC	2
CC0006 Sustainability: Society, Economy & Environment	CC	3
MS0003 Introduction to Data Science and Artificial Intelligence	FC	3
MS2014 Materials Structure and Defects	Core	3
MS2018 Electronic & Magnetic Properties of Materials	Core	3
MS2084 Phase Transformations and Kinetics in Steels	Core	1
MS3082 Design Lab	Core	1
BF3214 Commodities Trading	BDE	2
BE1402 Business Operations and Process	BDE	3
Total		21
Year 3 (AY2025-26) - Semeste	er 1	
Course Code and Title	Course Type	AU
HW0288 Effective Communication	FC	2
MS3011 Metallic & Ceramic Materials	Core	3
MS3012 Micro/Nanoelectronic Materials Processing	Core	3
MS3013 Electrochemical Corrosion	Core	3
MS3014 Analysis of Materials	Core	3
BF2226 Trade Incoterms and Ship Chartering	BDE	3
AD2102 Management Accounting	BDE	3
Total		20

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	Last Update:	13-Oct-23	
Year 3 (AY2025-26) - Semester 2			
Course Code and Title	Course Type	AU	
***MS3099 Professional Internship	FC	10	
Total		10	

^{***}The school will assign students for Professional Internship in Year 3, either Semester 1 or 2.

Year 4 (AY2026-27) - Semester 1			
Course Code and Title	Course Type	AU	
MS4089 Final Year Project	Core	4	
MS3015 Industrial Design	Core	3	
MS4012 Quality Control	Core	3	
MS4013 Biomaterials	Core	2	
BF3226 Strategic Management in Commodity Market	BDE	2	
BF2302 International Tax and Trading Law	BDE	2	
MPE1	MPE	3	
Total		19	

Year 4 (AY2026-27) - Semester 2			
Course Code and Title	Course Type	AU	
MS4089 Final Year Project	Core	4	
MS4014 Nanomaterials: Fundamentals and Applications	Core	2	
BF3213 Enterprise Risk Management in Commodity Market	BDE	2	
BF3212 Trade, Structured & Supply Chain Finance	BDE	2	
MPE2	MPE	3	
MPE3	MPE	3	
Total		16	
	Total AU for Graduation	147	