Bachelor of Engineering (Materials Engineering)
Second Major in Business - ITP (AY2021-22)

Last Update: *26-Jun-23*

Academic Unit (AU) Required for graduation						
Year of Study	Core	MPE	CC	FC	BDE	Total AU
1	25 / 26[+]	-	9	-	6	40 / 41[+]
2	16	-	8	3	11	38
3	22	-	-	7	9	38
4	12	9	-	-	8	29
	75 / 76[+]	9	17	10	34	147 / 148[+]

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

Year 1 (AY2021-22) - 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**

** 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 (AY2021-22) - 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**

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Year 2 (AY2022-23) - Semester 1		
Course Code and Title	**Course Type**	**AU**
CC0007 Science & Technology for Humanity	CC	3
MH2811 Mathematics II	Core	3
MS2014 Materials Structure and Defects	Core	3
MS2016 Phase Transformation and Kinetics	Core	3
MS2083 Laboratory on Structure-Property Relationship in Polymers	Core	1
AD1102 Financing Account	BDE	3
BF2227 Commodities Markets	BDE	3
Total		**19**

Year 2 (AY2022-23) - Semester 2		
Course Code and Title	**Course Type**	**AU**
ML0004 Career and Entrepreneurial Development for the Future World	CC	2
CC0006 Sustainability: Society, Economy & Enviroment	CC	3
MS0003 Introduction to Data Science and Artificial Intelligence	FC	3
MS2012 Introduction to Manufacturing Processes	Core	3
MS2015 Mechanical Behaviour of Materials	Core	3
BF3214 Commodities Trading	BDE	2
BE1402 Business Operations and Process	BDE	3
BDE1	BDE	2
Total		**21**

Year 3 (AY2023-24) - Semester 1		
Course Code and Title	**Course Type**	**AU**
MS2018 Electronic & Magnetic Properties of Materials	Core	3
MS3011 Metallic & Ceramic Materials	Core	3
MS3012 Micro/Nanoelectronic Materials Processing	Core	3
MS3013 Electrochemical Corrosion	Core	3
MS3082 Design Lab	Core	1
AD2102 Management Accounting	BDE	3
Total		**16**

Bachelor of Engineering (Materials Engineering) Second Major in Business - ITP (AY2021-22)		
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Year 3 (AY2023-24) - Semester 2		
Course Code and Title	**Course Type**	**AU**
HW0288 Effective Communication	FC	2
MS3014 Analysis of Materials	Core	3
MS3015 Industrial Design	Core	3
MS4012 Quality Control	Core	3
BF2226 Trade Incoterms and Ship Chartering	BDE	3
BDE2	BDE	3
Total		**17**

Year 3 (AY2023-24) - Special Term		
Course Code and Title	**Course Type**	**AU**
MS3096 Professional Attachment	FC	5
Total		**5**

Year 4 (AY2024-25) - Semester 1		
Course Code and Title	**Course Type**	**AU**
MS4089 Final Year Project	Core	4
MS4013 Biomaterials	Core	2
MPE1	MPE	3
BF3226 Strategic Management in Commodity Market	BDE	2
BF2302 International Tax and Trading Law	BDE	2
Total		**13**

Year 4 (AY2024-25) - 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**