

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

Last Update: 13-Oct-23

**Academic Unit (AU) Required for graduation**

Year of Study	Core	MPE	CC	FC	BDE	Total AU
1	25 / 26 <sup>+</sup>	-	9	-	6	40 / 41 <sup>+</sup>
2	16	-	8	3	9	36
3	19	3	-	7	11	40
4	15	6	-	-	9	30
	75 / 76 <sup>+</sup>	9	17	10	35	146 / 147 <sup>+</sup>

<sup>+</sup>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	CC	3
PH1011 Physics <sup>*/**</sup>	Core	3
MH1810 Mathematics I <sup>*</sup>	Core	3
MS1013 Materials Chemistry I <sup>*</sup>	Core	2
MS1016 Thermodynamics of Materials	Core	3
MS1017 Introduction to Materials Science	Core	2
AB1201 Financial Management	BDE	3
<b>Total</b>		<b>21</b>

*\* 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
<b>Total</b>		<b>19</b>

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**Year 2 (AY2024-25) - Semester 1**

<b>Course Code and Title</b>	<b>Course Type</b>	<b>AU</b>
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
<b>AD1102 Financing Account</b>	<b>BDE</b>	<b>3</b>
<b>Total</b>		<b>18</b>

**Year 2 (AY2024-25) - Semester 2**

<b>Course Code and Title</b>	<b>Course Type</b>	<b>AU</b>
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
<b>AB1601 Organisation Behaviour &amp; Design</b>	<b>BDE</b>	<b>3</b>
<b>Total</b>		<b>18</b>

**Year 3 (AY2025-26) - Semester 1**

<b>Course Code and Title</b>	<b>Course Type</b>	<b>AU</b>
MS3011 Metallic & Ceramic Materials	Core	3
MS3012 Micro/Nanoelectronic Materials Processing	Core	3
MS3082 Design Lab	Core	1
<b>AD2101 Management Accounting</b>	<b>BDE</b>	<b>3</b>
<b>AB1301 Business Law</b>	<b>BDE</b>	<b>3</b>
BDE1	BDE	3
BDE2	BDE	2
<b>Total</b>		<b>18</b>

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**Year 3 (AY2025-26) - Semester 2**

Course Code and Title	Course Type	AU
HW0288 Effective Communication	FC	2
MS3013 Electrochemical Corrosion	Core	3
MS3014 Analysis of Materials	Core	3
MS3015 Industrial Design	Core	3
MPE1	MPE	3
BF2219 Investments	BDE	3
<b>Total</b>		<b>17</b>

**Year 3 (AY2025-26) - Special Term**

Course Code and Title	Course Type	AU
MS3096 Professional Attachment	FC	5
<b>Total</b>		<b>5</b>

**Year 4 (AY2026-27) - Semester 1**

Course Code and Title	Course Type	AU
MS4089 Final Year Project	Core	4
MS4012 Quality Control	Core	3
MS4013 Biomaterials	Core	2
MPE2	MPE	3
BE2602 Management in Principles, Skills & Competencies	BDE	3
<b>Total</b>		<b>15</b>

**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
MPE3	MPE	3
BE1402 Business Operations and Process	BDE	3
BM2502 Consumer Insights	BDE	3
<b>Total</b>		<b>15</b>
<b>Total AU for Graduation</b>		<b>146</b>