

Bachelor of Engineering (Materials Engineering)
Poly Direct Entry Admission (AY2023-24)

Last Update

13-Oct-23

Academic Unit (AU) Required for graduation

Year of Study	Core	MPE	CC	FC	BDE	Total AU
2	25	-	7	3	-	35
3	28	-	4	7	2	41
4	15	9	6	-	6	36
	68	9	17	10	8	112

Year 2 (AY2023-24) - Semester 1

Course Code and Title	Course Type	AU
CC0002 Navigating the Digital World	CC	2
CC0005 Healthy Living & Wellbeing	CC	3
EG1001 Engineers In Society	Core	2
MS1008 Introduction to Computational Thinking	Core	3
MS1016 Thermodynamics of Materials	Core	3
MS1017 Introduction to Materials Science	Core	2
MH1810 Mathematics I	Core	3
Total		18

Year 2 (AY2023-24) - Semester 2

Course Code and Title	Course Type	AU
CC0001 Inquiry and Communication in the Interdisciplinary World	CC	2
MH2811 Mathematics II	Core	3
MS0003 Introduction to Data Science and Artificial Intelligence	FC	3
MS1018 Properties of Materials	Core	2
MS2013 Introduction to Polymer Science	Core	3
MS2014 Materials Structure and Defects	Core	3
MS2083 Laboratory on Structure-Property Relationship in Polymers	Core	1
Total		17

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Year 3 (AY2024-25) - Semester 1

Course Code and Title	Course Type	AU
ML0004 Career and Entrepreneurial Development for the Future World	CC	2
HW0288 Effective Communication	FC	2
MS2012 Introduction to Manufacturing Processes	Core	3
MS2015 Mechanical Behaviour of Materials	Core	3
MS2016 Introduction to Metallurgy	Core	2
MS3011 Metallic & Ceramic Materials	Core	3
MS3082 Design Lab	Core	1
BDE1	BDE	2
Total		18

Year 3 (AY2024-25) - Semester 2

Course Code and Title	Course Type	AU
CC0003 Ethics & Civics in a Multi-Cultural World	CC	2
MS2018 Electronic & Magnetic Properties of Materials	Core	3
MS3012 Micro/Nanoelectronic Materials Processing	Core	3
MS3013 Electrochemical Corrosion	Core	3
MS3014 Analysis of Materials	Core	3
MS3015 Industrial Design	Core	3
MS2084 Phase Transformations and Kinetics in Steels	Core	1
Total		18

Year 3 (AY2024-25) - Special Term

Course Code and Title	Course Type	AU
MS3096 Professional Attachment	FC	5
Total		5

Year 4 (AY2025-26) - Semester 1

Course Code and Title	Course Type	AU
CC0007 Science & Technology for Humanity	CC	3

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MS4089 Final Year Project	Core	4
MS4012 Quality Control	Core	3
MS4013 Biomaterials	Core	2
MPE1	MPE	3
MPE2	MPE	3
Total		18

Year 4 (AY2025-26) - Semester 2

Course Code and Title	Course Type	AU
CC0006 Sustainability: Society, Economy & Environment	CC	3
MS4089 Final Year Project	Core	4
MS4014 Nanomaterials: Fundamentals and Applications	Core	2
BDE2	BDE	3
BDE3	BDE	3
MPE3	MPE	3
Total		18
Total AU for Graduation		112