

AY2021-22 MTEC CGPA Computation

BEng (Materials Engineering) and BSocSci (Economics) (Students admitted from AY2021/2022)

List of courses that contribute towards BEng (Materials Engineering)				AU Load	
Discipline Requirement	Core	PH1011/12	Physics**	3	75 AU
		MH1810	Mathematics I	3	
		EG1001	Engineer & Society	2	
		MS1008	Introduction to Computational Thinking	3	
		MS1013	Materials Chemistry I	2	
		MS1014	Materials Chemistry II	2	
		MS1017	Introduction to Materials Science	2	
		MS1018	Properties of Materials	2	
		MS1016	Thermodynamics of Materials	3	
		MH2811	Mathematics II	3	
		MS2012	Introduction to Manufacturing	3	
		MS2013	Introduction to Polymer Science	3	
		MS2083	Polymer Lab	1	
		MS2014	Materials Structure and Defects	3	
		MS2015	Mechanical Behaviour of Materials	3	
		MS2016	Phase Transformation and Kinetics	3	
		MS2018	Electronic & Magnetic Properties of Materials	3	
		MS3011	Metallic & Ceramic Materials	3	
		MS3012	Micro/Nanoelectronic Materials Processing	3	
		MS3013	Corrosion of Materials	3	
		MS3082	Design Lab	1	
		MS3014	Analysis of Materials	3	
		MS3015	Materials Aspect in Design	3	
		MS4012	Quality Control	3	
		MS4013	Biomaterials	2	
		MS4014	Nanomaterials: fundamentals and applications	2	
		MS4089	Final Year Project	8	
BDE	HE1001	Microeconomic I	3	15 AU from compulsory Year 1 and 2 Economics courses. Remaining 3 AU from Year 3 and 4 Economics PE that yield the highest CGPA. + 5 AU (PA only)	
	HE1002	Macroeconomic I	3		
	HE2001	Microeconomics II	3		
	HE2002	Macroeconomics II	3		
	HE2003	Econometrics I	3		
	HExxxx	Economics PE1	3		
	HExxxx	Economics PE2	3		

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	Major PE	MS46xx MS46xx MS46xx MS46xx	Materials Engineering PE1 Materials Engineering PE2 Materials Engineering PE3 Materials Engineering PE4	3 3 3 2	11 AU
CFICC	Common Core	CC0003 CC0005 CC0001 CC0002 CC0007 ML0004 CC0006	Ethics & Civics in a Multi-Cultural World Healthy Living & Wellbeing Inquiry and Communication in the Interdisciplinary World Navigating the Digital World Science & Technology for Humanity Career and Entrepreneurial Development for the Future World Sustainability: Society, Economy & Environment	2 3 2 2 3 3 2	17 AU
	Foundational Core	MS0003 HW0288 MS3099/MS3096	Introduction to Data Science and Artificial Intelligence Effective Communication 2 Professional Internship/Professional Attachment	3 2 10/5	15 AU (PI Option) 10 AU (PA Option)
TOTAL				136/137** AU	

** Students without 'A' level Physics will take PH1012 Physics A (4AU)