MEEC CGPA Computation (MAINSTREAM)

BEng (Mechanical Engineering) and BSocSci (Economics) (wef AY2025/2026 Intake onwards)

t of Courses that	Contributes t	o BEng (Mech	nanical Engineering)		AU Load
Discipline	Core	MH1810	Mathematics 1	3	79AU
Requirement		PH1011	Physics*	3	
		FE1073	An Introduction to Engineering & Practices	1	
		EG1001	Engineers in Society	2	
		MA2003	Introduction to Thermo-Fluids	3	-
		MH1811	Mathematics II	3	
		MA1001	Dynamics	3	
		MA1008	Introduction to Computational Thinking	3	
		MA2001	Mechanics of Materials	3	
		MA2002	Theory of Mechanism	3	
		MA2004	Manufacturing Processes	3	
		MA2006	Engineering Mathematics	3	-
		MA2009	Introduction to Electrical & Electronic Devices	3	
		MA2071	Laboratory Experiments	1	1
		MA2005	Engineering Graphics	3	1
		MA2007	Thermodynamics	3	-
		MA2079	Engineering Innovation and Design	2	-
		MA3001	Machine Element Design	3	-
		MA3006	Fluid Mechanics	3	-
		MA3002	Solid Mechanics and Vibration	3	-
		MA3003	Heat Transfer	3	-
		MA3004	Mathematical Methods in Engineering	3	-
		MA3005	Control Theory	3	-
		MA3071	Engineering Experiments (ME)	1	-
		MA4079	Final Year Project	8	-
		MA4073	Fluid Dynamics	3	-
		MA4002 MA4001	Engineering Design	4	-
	BDE	HE1001	Microeconomics I	3	<u>18AU</u>
	BDL	HE1001	Macroeconomics I	3	15AU from
		HE1002 HE2001	Microeconomics II	3	compulsory
		HE2001 HE2002	Macroeconomics II	3	Year 1 and 2
		HE2002 HE2003	Econometrics I	3	Economics Cor
		HEXXXX	Economics PE	3	courses.
				5	Remaining 3A
					from Year 3 an
					4 Economics P
					that yield the
					highest CGPA
					+ 5AU
					(PA only)
	Major PE	MA48XX	Major-PE 1	3	6AU
		MA48XX	Major-PE 2	3	
					1

List of Courses that	at Contributes to	BEng (Mech	anical Engineering)		AU Load		
Interdisciplinary Collaborative	Common Core	CC0001	Inquiry and Communication in the Interdisciplinary World	2	17AU		
Core		CC0002	Navigating the Digital World	2			
		CC0003	Ethics & Civics in a Multi-Cultural World	2			
		CC0005	Healthy Living & Wellbeing	3			
		CC0006	Sustainability: Society, Economy & Environment	3			
		CC0007	Science & Technology for Humanity	3			
		ML0004	Career and Entrepreneurial Development for the Future World	2			
	Foundational	HW0288	Engineering Communication	2	15AU		
	Core	MA0218	Introduction to Data Science and Artificial Intelligence	3	or		
		MA3920/	Professional Internship/ Professional	10/			
		MA3910	Attachment	5	10AU		
					(PA only)		
	TOTAL						

MEEC CGPA Computation (DESIGN STREAM) BEng (Mechanical Engineering) and BSocSci (Economics) (wef AY2025/2026 Intake onwards)

List of Courses th	AU Load				
Discipline	Core	MH1810	Mathematics 1	3	79AU
Requirement	core	PH1011	Physics*	3	7580
Requirement		1111011	An Introduction to Engineering	5	-
		FE1073	& Practices	1	
		EG1001	Engineers in Society	2	
		MA2003	Introduction to Thermo-Fluids	3	
		MH1811	Mathematics II	3	-
		MA1001	Dynamics	3	-
			Introduction to Computational		-
		MA1008	Thinking	3	
		MA2001	Mechanics of Materials	3	
		MA2002	Theory of Mechanism	3	
		MA2004	Manufacturing Processes	3	
		MA2006	Engineering Mathematics	3	
			Introduction to Electrical &		
		MA2009	Electronic Devices	3	
		MA2071	Laboratory Experiments	1	1
		MA2005	Engineering Graphics	3	
		MA2014	Product Presentation	3	
			Engineering Innovation and	2	
		MA2079	Design	2	
		MA3001	Machine Element Design	3	
		MA3006	Fluid Mechanics	3	
		MA3002	Solid Mechanics and Vibration	3	
		MA3010	Thermodynamics and Heat Transfer	3	
		MA3004	Mathematical Methods in Engineering	3	•
		MA3005	Control Theory	3	
		MA3003	Engineering Experiments (ME)	1	-
		MA3071 MA4079	Final Year Project	8	-
		MA4073 MA2013	Creative Thinking and Design	3	-
		MA4011	Engineering Product Design	4	-
	BDE	HE1001	Microeconomics I	3	<u>18AU</u>
		HE1001	Macroeconomics I	3	15AU from
		HE2001	Microeconomics II	3	compulsory
		HE2001	Macroeconomics II	3	Year 1 and 2
		HE2003	Econometrics I	3	Economics Core
		HEXXXX	Economics PE	3	courses.
				_	Remaining 3AU
					from Year 3 and
					4 Economics PE
					that yield the
					highest CGPA.
					+ 5AU
					(PA only)
	Major PE	MA48XX	Major-PE 1	3	6AU
		MA48XX	Major-PE 2	3	

List of Courses that Contributes to BEng (Mechanical Engineering)					U Load
Interdisciplinary	Common	CC0001	Inquiry and Communication in	2	17AU
Collaborative	Core	00001	the Interdisciplinary World	2	
Core		CC0002	Navigating the Digital World	2	
		CC0003	Ethics & Civics in a Multi-	2	
		CC0005	Cultural World	Z	
		CC0005	Healthy Living & Wellbeing	3	
		CC0006	Sustainability: Society, Economy & Environment	3	
		CC0007	Science & Technology for Humanity	3	
		ML0004	Career and Entrepreneurial Development for the Future	2	
		WIL0004	World	2	
	Foundational	HW0288	Engineering Communication	2	15AU
	Core	MA0218	Introduction to Data Science and Artificial Intelligence	3	or
		MA3920/	Professional Internship/	10/	
		MA3910	Professional Attachment	5	10AU
					(PA only)
		тот	 FAL		135 AU

MEEC CGPA Computation (ROBOTICS & MECHATRONICS STREAM)

BEng (Mechanical Engineering) and BSocSci (Economics) (wef AY2025/2026 Intake onwards)

List of Courses th	AU Load				
Discipline	Core	MH1810	Mathematics 1	3	79AU
Requirement		PH1011	Physics*	3	
		-	An Introduction to Engineering &		
		FE1073	Practices	1	
		EG1001	Engineers in Society	2	
		MA2003	Introduction to Thermo-Fluids	3	
		MH1811	Mathematics II	3	
		MA1001	Dynamics	3	
		MA1008	Introduction to Computational	3	
		WIA1008	Thinking	5	
		MA2001	Mechanics of Materials	3	
		MA2002	Theory of Mechanism	3	
		MA2004	Manufacturing Processes	3	
		MA2006	Engineering Mathematics	3	
		MA2009	Introduction to Electrical &	3	
			Electronic Devices		
		MA2071	Laboratory Experiments	1	
		MA2005	Engineering Graphics	3	
		MA2012	Introduction to Mechatronics	3	
			Systems Design		
		MA2079	Engineering Innovation and Design	2	
		MA3001	Machine Element Design	3	
		MA3006	Fluid Mechanics	3	
		MA3002	Solid Mechanics and Vibration	3	
		MA3010	Thermodynamics and Heat Transfer	3	
		MA3004	Mathematical Methods in	3	
			Engineering	2	
		MA3005	Control Theory	3	
		MA3071	Engineering Experiments (ME)	1	
		MA4079	Final Year Project	8	
		MA2011	Mechatronics System Interfacing	3	
		MA4012	Mechatronics Engineering Design	4	10411
	BDE	HE1001 HE1002	Microeconomics I	3	<u>18AU</u> 15AU from
		-	Macroeconomics I	3	compulsory Year
		HE2001 HE2002	Microeconomics II Macroeconomics II	3	1 and 2
		HE2002 HE2003	Econometrics I	3	Economics Core
		HEXXXX	Economics PE	3	courses.
				5	Remaining 3AU
					from Year 3 and
					4 Economics PE
					that yield the
					highest CGPA.
					+ 5AU
					(PA only)
	Major PE	MA48XX	Major-PE 1	3	6AU
		MA48XX	Major-PE 2	3	
	1	1	1	1	1

List of Courses that Contributes to BEng (Mechanical Engineering)					AU Load
Interdisciplinary Collaborative	Common Core	CC0001	Inquiry and Communication in the Interdisciplinary World	2	17AU
Core		CC0002	Navigating the Digital World	2	
		CC0003	Ethics & Civics in a Multi-Cultural World	2	
		CC0005	Healthy Living & Wellbeing	3	
		CC0006	Sustainability: Society, Economy & Environment	3	
		CC0007	Science & Technology for Humanity	3	
		ML0004	Career and Entrepreneurial Development for the Future World	2	
	Foundational	HW0288	Engineering Communication	2	15AU
	Core	MA0218	Introduction to Data Science and Artificial Intelligence	3	or
		MA3920/	Professional Internship/ Professional	10/	
		MA3910	Attachment	5	10AU
					(PA only)
	135 AU				

MEEC CGPA Computation (INTELLIGENT MANUFACTURING STREAM)

BEng (Mechanical Engineering) and BSocSci (Economics) (wef AY2025/2026 Intake onwards)

List of Courses the	at Contributes		25/2026 Intake OnWards) chanical Engineering)		AU Load
Discipline	Core	MH1810	Mathematics 1	3	79AU
Requirement		PH1011	Physics*	3	
			An Introduction to Engineering &		
		FE1073	Practices	1	
		EG1001	Engineers in Society	2	
		MA2003	Introduction to Thermo-Fluids	3	
		MH1811	Mathematics II	3	
		MA1001	Dynamics	3	
		MA1008	Introduction to Computational Thinking	3	
		MA2001	Mechanics of Materials	3	
		MA2001 MA2002		3	
		MA2002 MA2004	Theory of Mechanism Manufacturing Processes	3	
				3	
		MA2006	Engineering Mathematics Introduction to Electrical &	5	
		MA2009	Electronic Devices	3	
		MA2071	Laboratory Experiments	1	
		MA2005	Engineering Graphics	3	
		MA2012	Introduction to Mechatronics Systems Design	3	
		MA2079	Engineering Innovation and Design	2	
		MA3001	Machine Element Design	3	
		MA3006	Fluid Mechanics	3	
		MA3002	Solid Mechanics and Vibration	3	
		MA3010	Thermodynamics and Heat Transfer	3	
		MA3004	Mathematical Methods in	2	
			Engineering	3	
		MA3005	Control Theory	3	
		MA3071	Engineering Experiments (ME)	1	
		MA4079	Final Year Project	8	
		MA2011	Mechatronics System Interfacing	3	
		MA4013	Manufacturing Engineering Design	4	
	BDE	HE1001	Microeconomics I	3	<u>18AU</u>
		HE1002	Macroeconomics I	3	15AU from
		HE2001	Microeconomics II	3	compulsory Year
		HE2002	Macroeconomics II	3	1 and 2
		HE2003	Econometrics I	3	Economics Core
		HEXXXX	Economics PE	3	courses.
					Remaining 3AU
					from Year 3 and
					4 Economics PE
					that yield the highest CGPA.
					+ 5AU
					(PA only)
	Major PE	MA48XX	Major-PE 1	3	6AU
		MA48XX MA48XX	Major-PE 2	3	0.10

List of Courses the	at Contributes t	o BEng (Mec	hanical Engineering)		AU Load	
Interdisciplinary Collaborative	Common Core	CC0001	Inquiry and Communication in the Interdisciplinary World	2	17AU	
Core		CC0002	Navigating the Digital World	2		
		CC0003	Ethics & Civics in a Multi-Cultural World	2		
		CC0005	Healthy Living & Wellbeing	3		
		CC0006	Sustainability: Society, Economy & Environment	3		
		CC0007	Science & Technology for Humanity	3		
		ML0004	Career and Entrepreneurial Development for the Future World	2		
	Foundational	HW0288	Engineering Communication	2	15AU	
	Core	MA0218	Introduction to Data Science and Artificial Intelligence	3	or	
		MA3920/	Professional Internship/ Professional	10/		
		MA3910	Attachment	5	10AU	
					(PA only)	
	TOTAL					