MEEC CGPA Computation (MAINSTREAM)

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

t of Courses that Co	ontributes to BEng (iviechanicai Eng			AU Load
Discipline	Core	MH1810	Mathematics 1	3	79/80*AU
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	
		MA2005	Engineering Graphics	3	
		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	
		MA4002	Fluid Dynamics	3	
		MA4001	Engineering Design	4	
	BDE	HE1001	Microeconomics I	3	<u>18AU</u>
	JDL	HE1002	Macroeconomics I	3	15AU from
		HE2001	Microeconomics II	3	compulsory Year
		HE2001		3	and 2 Economic
		-	Macroeconomics II	1	Core courses.
		HE2003	Econometrics I	3	Remaining 3Al
		HEXXXX	Economics PE	3	from Year 3 and
					4 Economics Pl
					that yield the
					highest CGPA.
					+ 5AU
		1			(PA only)
	Major PE	MA48XX	Major-PE 1	3	6AU
		MA48XX	Major-PE 2	3	00
Interdisciplinary	Common Core		Inquiry and Communication in an		14AU
		CC0001	Interdisciplinary World	2	
ollaborative Core					
ollaborative Core		CC0002	·	2	
ollaborative Core		CC0002	Navigating the Digital World	2	
ollaborative Core		CC0003	Navigating the Digital World Ethics & Civics in a Multi-Cultural World	2	
ollaborative Core		CC0003 CC0015	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing		
ollaborative Core		CC0003	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy &	2	
ollaborative Core		CC0003 CC0015 CC0006	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment	2 2 3	
ollaborative Core		CC0003 CC0015	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity	2	
ollaborative Core		CC0003 CC0015 CC0006	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the	2 2 3	
ollaborative Core	Professional	CC0003 CC0015 CC0006 CC0007 ML0004	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the V.U.C.A World	2 2 3 3 2	15A 11
ollaborative Core	Professional	CC0003 CC0015 CC0006 CC0007	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the V.U.C.A World Engineering Communication	2 2 3 3	16AU
ollaborative Core	Professional Series	CC0003 CC0015 CC0006 CC0007 ML0004	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the V.U.C.A World Engineering Communication Introduction to Data Science and Artificial	2 2 3 3 2	16AU or
ollaborative Core		CC0003 CC0015 CC0006 CC0007 ML0004 HW0288 MA0218	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the V.U.C.A World Engineering Communication Introduction to Data Science and Artificial Intelligence	2 2 3 3 2 2 2	
ollaborative Core		CC0003 CC0015 CC0006 CC0007 ML0004 HW0288 MA0218	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the V.U.C.A World Engineering Communication Introduction to Data Science and Artificial Intelligence Professional Internship/ Professional	2 2 3 3 2 2 2 3	or
ollaborative Core		CC0003 CC0015 CC0006 CC0007 ML0004 HW0288 MA0218 MA3920/ MA3910	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the V.U.C.A World Engineering Communication Introduction to Data Science and Artificial Intelligence Professional Internship/ Professional Attachment	2 2 3 3 2 2 3 10/ 5	or 11 AU
ollaborative Core	Series	CC0003 CC0015 CC0006 CC0007 ML0004 HW0288 MA0218	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the V.U.C.A World Engineering Communication Introduction to Data Science and Artificial Intelligence Professional Internship/ Professional	2 2 3 3 2 2 2 3	or
ollaborative Core		CC0003 CC0015 CC0006 CC0007 ML0004 HW0288 MA0218 MA3920/ MA3910	Navigating the Digital World Ethics & Civics in a Multi-Cultural World Health & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career Design & Workplace Readiness in the V.U.C.A World Engineering Communication Introduction to Data Science and Artificial Intelligence Professional Internship/ Professional Attachment	2 2 3 3 2 2 3 10/ 5	or 11 AU

^{*}Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

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

Discipline	Core	MH1810	Mathematics 1	3	79/80*AU
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	1
		MA2002	Theory of Mechanism	3	1
		MA2004	Manufacturing Processes	3	
		MA2006	Engineering Mathematics	3	1
		MA2009	Introduction to Electrical & Electronic Devices	3	1
		MA2071	Laboratory Experiments	1	1
		MA2005	Engineering Graphics	3	1
		MA2014	Product Presentation	3	1
		MA2079	Engineering Innovation and Design	2	
		MA3001	Machine Element Design	3	1
		MA3006	Fluid Mechanics	3	
		MA3002	Solid Mechanics and Vibration	3	1
		MA3010	Thermodynamics and Heat Transfer	3	1
		MA3010	·	3	1
		MA3004 MA3005	Mathematical Methods in Engineering Control Theory	3	1
				1	1
		MA3071	Engineering Experiments (ME)	-	
		MA4079	Final Year Project	8	-
		MA2013	Creative Thinking and Design	3	-
	225	MA4011	Engineering Product Design	4	40411
	BDE	HE1001	Microeconomics I	3	18AU
		HE1002	Macroeconomics I	3	15AU from
		HE2001	Microeconomics II	3	compulsory Yea
		HE2002	Macroeconomics II	3	and 2 Economi
		HE2003	Econometrics I	3	Core courses. Remaining 3Al
		HEXXXX	Economics PE	3	from Year 3 an
					4 Economics P
					that yield the
					highest CGPA
					Ingriest cor /
					+ 5AU
					(PA only)
	Major PE	MA48XX	Major-PE 1	3	6AU
	inajo: : 2	MA48XX	Major-PE 2	3	1 0/10
Interdisciplinary	Common Core		Inquiry and Communication in an		14AU
Collaborative Core	Common Core	CC0001	Interdisciplinary World	2	A0
Collaborative Core		CC0002	Navigating the Digital World	2	1
		CC0002	Ethics & Civics in a Multi-Cultural World	2	1
		CC0005	Health & Wellbeing	2	1
		CC0013	Sustainability: Society, Economy &		1
		CC0006	Environment	3	
		CC0007		3	1
		CC0007	Science & Technology for Humanity	3	-
		ML0004	Career Design & Workplace Readiness in the	2	
	Drofossional	шилозоо	V.U.C.A World	2	16411
	Professional	HW0288	Engineering Communication	2	16AU
	Series	MA0218	Introduction to Data Science and Artificial	3	or
			Intelligence		44.411
		MA3920/	Professional Internship/ Professional	10/	11AU
		MA3910	Attachment	5	(PA only)
		MLxxxx	Profession Preparation	1	
	Care, Serve,		Service Learning	3	3
	Learn (CSL)	1	_		

^{*}Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

MEEC CGPA Computation (ROBOTICS & MECHATRONICS STREAM)

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

ist of Courses that C		1			AU Load
Discipline	Core	MH1810	Mathematics 1	3	79AU
Requirement		PH1011	Physics*	3	
		FE1073	An Introduction to Engineering & Practices	1	4
		EG1001	Engineers in Society	2	4
		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	
		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	1
		MA3002	Solid Mechanics and Vibration	3	1
		MA3010	Thermodynamics and Heat Transfer	3	-
		MA3004	Mathematical Methods in Engineering	3	†
		MA3005	Control Theory	3	1
				1	1
		MA3071	Engineering Experiments (ME)		-
		MA4079	Final Year Project	8	_
		MA2011	Mechatronics System Interfacing	3	_
		MA4012	Mechatronics 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	and 2 Economics C
		HE2003	Econometrics I	3	courses. Remainir 3AU from Year 3 a
		нехххх	Economics PE	3	4 Economics PE the yield the highest CGPA. + 5AU (PA only)
	Major PE	MA48XX	Major-PE 1	3	6AU
		MA48XX	Major-PE 2	3	<u></u>
Interdisciplinary Collaborative Core	Common Core	CC0001	Inquiry and Communication in an Interdisciplinary World	2	14AU
		CC0002	Navigating the Digital World	2	
		CC0003	Ethics & Civics in a Multi-Cultural World	2	1
		CC0015	Health & Wellbeing	2	1
			Sustainability: Society, Economy &		1
		CC0006	Environment	3	
		CC0007	Science & Technology for Humanity	3	1
		ML0004	Career Design & Workplace Readiness in the V.U.C.A World	2	1
	Professional	HW0288	Engineering Communication	2	16AU
	Series	MA0218	Introduction to Data Science and Artificial	3	or
		N4A2020/	Intelligence Professional Internship / Professional	10/	
		MA3920/	Professional Internship/ Professional	10/	(PA only)
		MA3910	Attachment	5	(PA OHIY)
		MLxxxx	Profession Preparation	1	
	Care, Serve,		Service Learning	3	3

^{*}Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

MEEC CGPA Computation (INTELLIGENT MANUFACTURING STREAM)

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

List of Courses tha	at Contributes to BEng		ngineering)		AU Load
Discipline	Core	MH1810	Mathematics 1	3	79/80*AU
Requirement		PH1011	Physics*	3	1
-		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	
		MA2005	Engineering Graphics	3	
		1417 (2003	Introduction to Mechatronics Systems	<u> </u>	
		MA2012	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 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 1
		HE2002	Macroeconomics II	3	and 2 Economics Core
		HE2003	Econometrics I	3	courses. Remaining
		HEXXXX	Economics PE	3	3AU from Year 3 and
					4 Economics PE that yield the highest CGPA.
					+ 5AU (PA only)
	Major PE	MA48XX	Major-PE 1	3	6AU
	ajoi i L	MA48XX	Major-PE 2	3	-
Interdisciplinary Collaborative	Common Core	CC0001	Inquiry and Communication in an Interdisciplinary World	2	14AU
Core		CC0002	Navigating the Digital World	2	1
		CC0002	Ethics & Civics in a Multi-Cultural World	2	1
		CC0003	Health & Wellbeing	2	1
			Sustainability: Society, Economy &		1
		CC0006	Environment	3	
		CC0007	Science & Technology for Humanity	3	-
		ML0004	Career Design & Workplace Readiness in the V.U.C.A World	2	
	Professional Series	HW0288	Engineering Communication	2	16AU
		MA0218	Introduction to Data Science and Artificial Intelligence	3	or
		MA3920/	Professional Internship/ Professional	10/	11 AU
		MA3910	Attachment	5	(PA only)
		MLxxxx	Profession Preparation	1	` - ','
	Care, Serve, Learn	TTI EARLY	Service Learning	3	3
	(CSL)	<u> </u>	TOTAL		420/427* ***
Ctudonto wit	hout 'A' Level Physics w		TOTAL 2. Physics A' (4ALI)		136/137 AU

^{*}Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).