AY2021-22 MEEC CGPA Computation (MAINSTREAM)

BEng (Mechanical Engineering) and BSocSci (Economics) (wef AY2021/2022)

st of Courses that	Contributes		chanical Engineering)		U 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	
		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>
		HE1002	Macroeconomics I	3	15AU from
		HE2001	Microeconomics II	3	compulsory
		HE2002	Macroeconomics II	3	Year 1 and 2
		HE2003	Econometrics I	3	Economics
		HEXXXX	Economics PE	3	Core courses.
		11270000	20011011110312	J	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	
Interdisciplinary	Common	CC0001	Inquiry and Communication in		17AU
Collaborative	Core	CC0001	the Interdisciplinary World	2	
Core		CC0002	Navigating the Digital World	2	
		CC0003	Ethics & Civics in a Multi-	2	
			Cultural World		
		CC0005	Healthy Living & Wellbeing	3	
		CC0006	Sustainability: Society,	3	
			Economy & Environment		
		CC0007	Science & Technology for	3	
			Humanity	·	
		N 41 000 4	Career and Entrepreneurial	2	
		ML0004	Development for the Future	2	
			World		
	Foundational	HW0288	Engineering Communication	2	15AU
	Core	MA0218	Introduction to Data Science	3	or
			and Artificial Intelligence		
		MA3080/	Professional Internship/	10/	10411
		MA3075	Professional Attachment	5	10AU
					(PA only)
	<u> </u>	ТОТ	TAL		135 AU

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

List of courses that	at contribute to	wards BSoc	Sci (Econs)	AL	J Load
Discipline	Core	HE1001	Microeconomics I	3	32AU
Requirement		HE1002	Macroeconomics I	3	
		HE2001	Microeconomics II	3	
		HE2002	Macroeconomics II	3	
		HE2003	Econometrics I	3	
		HE3001	Microeconomics III	3	
		HE3002	Macroeconomics III	3	
		HE3003	Econometrics II	3	
		MA4079	Final Year Project	8	
			·		
	MPE	MH1820	Introduction to Probability and Statistical Methods	3	33AU
		HE3XXX	Econs PE1	3	
		HE3XXX	Econs PE2	3	
		HE3XXX	Econs PE3	3	
		HE3XXX	Econs PE4	3	
		HE3XXX	Econs PE5	3	
		HE3XXX	Econs PE6	3	
		HE4XXX	Econs PE7	4	
		HE4XXX	Econs PE8	4	
		HE4XXX	Econs PE9	4	
	BDE	MH1810	Mathematics 1	3	9AU from
		PH1011	Physics*	3	Year 1
		FE1073	An Introduction to Engineering &	1	Engineering
			Practices		graded
		EG1001	Engineers in Society	2	Core
		MH1811	Mathematics II	3	courses
		MA1001	Dynamics	3	that yield the highest
		MA1008	Introduction to Computational Thinking	3	CGPA.

	BDE	MA2003	Introduction to Thermo-Fluids	3	21AU from
		MA2001	Mechanics of Materials	3	Year 2 and
		MA2002	Theory of Mechanism	3	3
		MA2004	Manufacturing Processes	3	Engineering
		MA2006	Engineering Mathematics	3	graded
		MA2009	Introduction to Electrical & Electronic Devices	3	courses that yield
		MA2071	Laboratory Experiments	1	the highest
		MA2005	Engineering Graphics	3	CGPA +
		MA2007	Thermodynamics	3	5AU
		MA2079	Engineering Innovation and Design	2	(PA only)
		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	
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
		MA3080/	Professional Internship/	10/	
		MA3075	Professional Attachment	5	10AU (PA only)
		TO	TAL		127AU

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

AY2021-22 MEEC CGPA Computation (DESIGN STREAM)

BEng (Mechanical Engineering) and BSocSci (Economics) (wef AY2021/2022)

	Contributes	to BEng (Me	chanical Engineering)		U 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	
		MA2005	Engineering Graphics	3	
		MA2014	Product Presentation	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	
		MA2013	Creative Thinking and Design	3	
		MA4011	Engineering Product Design	4	

	BDE	HE1001	Microeconomics I	3	<u>18AU</u>
		HE1002	Macroeconomics I	3	15AU from
		HE2001	Microeconomics II	3	compulsory
		HE2002	Macroeconomics II	3	Year 1 and 2
		HE2003	Econometrics I	3	Economics
		HEXXXX	Economics PE	3	Core courses.
		11270000	20011011110312	J	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	
Interdisciplinary	Common	CC0001	Inquiry and Communication in		17AU
Collaborative	Core	CC0001	the Interdisciplinary World	2	
Core		CC0002	Navigating the Digital World	2	
		CC0003	Ethics & Civics in a Multi-	2	
			Cultural World		
		CC0005	Healthy Living & Wellbeing	3	
		CC0006	Sustainability: Society,	3	
			Economy & Environment		
		CC0007	Science & Technology for	3	
			Humanity	·	
		N 41 000 4	Career and Entrepreneurial	2	
		ML0004	Development for the Future	2	
			World		
	Foundational	HW0288	Engineering Communication	2	15AU
	Core	MA0218	Introduction to Data Science	3	or
			and Artificial Intelligence		
		MA3080/	Professional Internship/	10/	10411
		MA3075	Professional Attachment	5	10AU
					(PA only)
	<u> </u>	ТОТ	TAL		135 AU

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

List of courses that	at contribute to	wards BSoc	Sci (Econs)	AL	J Load
Discipline	Core	HE1001	Microeconomics I	3	32AU
Requirement		HE1002	Macroeconomics I	3	
		HE2001	Microeconomics II	3	
		HE2002	Macroeconomics II	3	
		HE2003	Econometrics I	3	
		HE3001	Microeconomics III	3	
		HE3002	Macroeconomics III	3	
		HE3003	Econometrics II	3	
		MA4079	Final Year Project	8	
			·		
	MPE	MH1820	Introduction to Probability and Statistical Methods	3	33AU
		HE3XXX	Econs PE1	3	
		HE3XXX	Econs PE2	3	
		HE3XXX	Econs PE3	3	
		HE3XXX	Econs PE4	3	
		HE3XXX	Econs PE5	3	
		HE3XXX	Econs PE6	3	
		HE4XXX	Econs PE7	4	
		HE4XXX	Econs PE8	4	
		HE4XXX	Econs PE9	4	
	BDE	MH1810	Mathematics 1	3	9AU from
		PH1011	Physics*	3	Year 1
		FE1073	An Introduction to Engineering &	1	Engineering
			Practices		graded
		EG1001	Engineers in Society	2	Core
		MH1811	Mathematics II	3	courses
		MA1001	Dynamics	3	that yield the highest
		MA1008	Introduction to Computational Thinking	3	CGPA.

Í	BDE	MA2003	Introduction to Thermo-Fluids	3	21AU from
		MA2001	Mechanics of Materials	3	Year 2 and
		MA2002	Theory of Mechanism	3	3
		MA2004	Manufacturing Processes	3	Engineering
		MA2006	Engineering Mathematics	3	graded
		MA2009	Introduction to Electrical &	3	courses
			Electronic Devices	4	that yield
		MA2071	Laboratory Experiments	1	the highest
		MA2005	Engineering Graphics	3	CGPA +
		MA2013	Creative Thinking and Design	3 2	5AU
		MA2079	Engineering Innovation and Design	3	(PA only)
		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	
		MA2014	Product Presentation	3	
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
		MA3080/	Professional Internship/	10/	
		MA3075	Professional Attachment	5	10AU
					(PA only)
		_) TAL		40
		127AU			

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

AY2021-22 MEEC CGPA Computation (ROBOTICS & MECHATRONICS STREAM)

BEng (Mechanical Engineering) and BSocSci (Economics) (wef AY2021/2022)

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	BDE	HE1001	Microeconomics I	3	<u>18AU</u>
		HE1002	Macroeconomics I	3	15AU from
		HE2001	Microeconomics II	3	compulsory
		HE2002	Macroeconomics II	3	Year 1 and 2
		HE2003	Econometrics I	3	Economics
		HEXXXX	Economics PE	3	Core courses.
		11270000	20011011110312	J	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	
Interdisciplinary	Common	CC0001	Inquiry and Communication in		17AU
Collaborative	Core	CC0001	the Interdisciplinary World	2	
Core		CC0002	Navigating the Digital World	2	
		CC0003	Ethics & Civics in a Multi-	2	
			Cultural World		
		CC0005	Healthy Living & Wellbeing	3	
		CC0006	Sustainability: Society,	3	
			Economy & Environment		
		CC0007	Science & Technology for	3	
			Humanity	·	
		N 41 000 4	Career and Entrepreneurial	2	
		ML0004	Development for the Future	2	
			World		
	Foundational	HW0288	Engineering Communication	2	15AU
	Core	MA0218	Introduction to Data Science	3	or
			and Artificial Intelligence		
		MA3080/	Professional Internship/	10/	10411
		MA3075	Professional Attachment	5	10AU
					(PA only)
	<u> </u>	ТОТ	TAL		135 AU

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

List of courses that	at contribute to	wards BSoc	Sci (Econs)	AL	J Load
Discipline	Core	HE1001	Microeconomics I	3	32AU
Requirement		HE1002	Macroeconomics I	3	
		HE2001	Microeconomics II	3	
		HE2002	Macroeconomics II	3	
		HE2003	Econometrics I	3	
		HE3001	Microeconomics III	3	
		HE3002	Macroeconomics III	3	
		HE3003	Econometrics II	3	
		MA4079	Final Year Project	8	
			·		
	MPE	MH1820	Introduction to Probability and Statistical Methods	3	33AU
		HE3XXX	Econs PE1	3	
		HE3XXX	Econs PE2	3	
		HE3XXX	Econs PE3	3	
		HE3XXX	Econs PE4	3	
		HE3XXX	Econs PE5	3	
		HE3XXX	Econs PE6	3	
		HE4XXX	Econs PE7	4	
		HE4XXX	Econs PE8	4	
		HE4XXX	Econs PE9	4	
	BDE	MH1810	Mathematics 1	3	9AU from
		PH1011	Physics*	3	Year 1
		FE1073	An Introduction to Engineering &	1	Engineering
			Practices		graded
		EG1001	Engineers in Society	2	Core
		MH1811	Mathematics II	3	courses
		MA1001	Dynamics	3	that yield the highest
		MA1008	Introduction to Computational Thinking	3	CGPA.

	BDE	MA2003	Introduction to Thermo-Fluids	3	21AU from
		MA2001	Mechanics of Materials	3	Year 2 and
		MA2002	Theory of Mechanism	3	3
		MA2004	Manufacturing Processes	3	Engineering
		MA2006	Engineering Mathematics	3	graded
		MA2009	Introduction to Electrical &	3	courses
			Electronic Devices		that yield
		MA2071	Laboratory Experiments	1	the highest
		MA2005	Engineering Graphics	3	CGPA +
		MA2012	Introduction to Mechatronics Systems Design	3	5AU (PA only)
		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	
		MA2011	Mechatronics System Interfacing	3	
Interdisciplinary	Common		Inquiry and Communication in the		17AU
Collaborative	Core	CC0001	Inquiry and Communication in the Interdisciplinary World	2	1740
Core	33.3	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
		MA3080/	Professional Internship/	10/	
		MA3075	Professional Attachment	5	10AU (PA only)
					(**************************************
		TO	TAL		127AU

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