<u>Double Degree in Bachelor of Engineering (Aerospace Engineering) and Bachelor of Social Science (Economics)</u>

Students admitted from AY2020/2021 ** Students without 'A' level Physics will read PH1012 Physics A (4 AU)

	mitted from A1 at contribute to		Computation for BEng (Aerospace Engineering)	i nyo	AU Load	
2.01 0. 000.000 1.10		PH1011	Physics**	3	/ TO 2000	
		MH1810	Mathematics 1	3		
		MH1811	Mathematics 2	3		
		MA1008	Introduction to Computational Thinking	3		
		MA1001	Dynamics	3		
		MA1700	Aerospace Discovery Course	1		
		XXXXXX		3		
			Engineering Fundamentals 2 Mechanics of Materials			
		MA2001		3		
		MA2003	Introduction to Thermo-fluids	3		
		MA2005	Engineering Graphics	3		
		MA2006	Engineering Mathematics	3		
		MA2007	Thermodynamics	3		
		MA2072	Laboratory Experiments (AE)	1		
		MA2079	Engineering Innovation and Design	2		
	Core	MA2700	Aerospace Materials & Manufacturing Processes	3	04 (DA) /	
		MA2701	Flight Performance	2	91 (PA) /	
		MA3003	Heat Transfer	3	96 (PI)	
		MA3006	Fluid Mechanics	3		
		MA3072	Engineering Experiments (AE)	1]	
Discipline Requirement		MA3075/	Professional Attachment / Professional	5/	1	
		MA3080	Internship	10		
		MA3700	Aircraft Structures I	3		
		MA3701	Aerodynamics	3		
		MA3702	Aircraft Propulsion	3		
oquoo		MA3703	Flight Dynamics	2		
		MA3704	Aircraft Electrical Devices	3		
		MA3705	Aerospace Control Theory	3		
		MA4079	Final Year Project	8		
		MA4701	Aircraft Design	3		
		MA4702	Aircraft Structures II	3		
		MA4704	Aeroelasticity	3		
		MA4705	Aircraft Navigation and Flight Computers	3		
		HE1001	Microeconomic Principles	3	24 111	
		HE1001		3	24 AU 12 AU from compulsory Year 1 and 2	
			Macroeconomic Principles	3		
	UE	HE1005	Intro to Probability & Statistical Inference	3		
		HE2005	Principles of Econometrics	3	Economics	
					courses.	
			Economics Course 1	3	Remaining 12 AU	
			Economics Course 1 Economics Course 2	3	from 3 rd and 4 th	
			Economics Course 3	3	year Economics	
			Economics Course 3 Economics Course 4	4	courses that yield	
			Economics Course 4	_	the highest	
		MA48xx	Aerospace Engineering PE 1	3	CGPA.	
	Major PE	MA48xx	Aerospace Engineering PE 2	3	6	
		HW0188	Effective Communication	2		
	GER-Core	HW0288	Engineering Communication	2		
		ML0003	Kickstart your Career Success	1		
General		MA0218	Introduction to Data Science and Artificial	3		
Education		IVIAUZIO	Introduction to Data Science and Artificial Intelligence	3	14	
Requirements		GC0001	Sustainability: Seeing Through The Haze	1		
(GER)		HY0001	Ethics and Moral Reasoning	1		
(GER)			Enterprise & Innovation	1		
		ET0001		3	-	
	GED HE	EG0001	Engineers and Society	5	5 (DA 0014)	
	GER-UE	<u> </u>	GER-UE		5 (PA only)	
			IC	TAL	140	

Students admitted from AY2020/2021 ** Students without 'A' level Physics will read PH1012 Physics A (4 AU)

Part				Students without 'A' level Physics will read I GPA Computation for	1110		
PH1011		AU Load					
MH1810	•			Physics**	3		
MH1811 Mathematics 2 3 MA1001 Introduction to Computational Thinking 3 FE1073 Introduction to Computational Thinking 3 FE1073 Introduction to Engineering & Practices 1 MA1001 Dynamics 3 MA2001 Mechanics of Materials 3 MA2001 Mechanics of Materials 3 MA2002 Theory of Mechanism 3 MA2003 Introduction to Thermo-fluids 3 MA2003 Introduction to Thermo-fluids 3 MA2003 Introduction to Thermo-fluids 3 MA2006 Engineering Graphics 3 MA2006 Engineering Graphics 3 MA2006 Engineering Graphics 3 MA2006 Engineering Graphics 3 MA2007 Thermodynamics 3 Introduction to Electrical Circuits & Electronic Devices MA2007 Thermodynamics 3 MA2008 MA2009 Engineering Innovation and Design 2 MA3001 Machine Element Design 3 MA3002 Solid Mechanics and Vibration 3 MA3003 Machine Element Design 3 MA3004 Mathematical Methods in Engineering 3 MA3006 Fluid Mechanics 3 MA3006 Fluid Mechanics 3 MA30075 Professional Attachment / Professional Internship 10 MA4001 Engineering Experiments (ME) 1 MA3075/ Professional Attachment / Professional Internship 10 MA4001 Engineering Design 4 MA4002 Fluid Dynamics 3 MA4079 Final Year Project 8 HE1005 Internship 10 MA4007 Final Year Project 8 HE1005 Principles 6 Economic Principles 3 Table Mechanical Engineering PE 1 Mason 4 Mathematical Engineering PE 2 Mason 4 Mathematical Engineering PE 2 Mason 4 Mathematical Engineering PE 3 Mathematical Engineering PE 4 Mathematical Engineering PE 4 Ma							
MA1008 Introduction to Computational Thinking 3 FE1073 Introduction to Engineering & Practices 1 MA1001 Dynamics 3 MA2002 Theory of Mechanics of Materials 3 MA2002 Theory of Mechanism 3 MA2003 Introduction to Thermo-fluids 3 MA2004 Manufacturing Processes 3 MA2005 Engineering Graphics 3 MA2006 Engineering Mathematics 3 MA2007 Thermodynamics 3 MA2007 Theory of Mechanism 3 MA2006 Engineering Mathematics 3 MA2007 Thermodynamics 3 MA2007 Thermodynamics 3 MA2007 Thermodynamics 3 MA2007 Engineering Mathematics 3 MA2007 Engineering Innovation and Design 2 MA2007 Engineering Innovation and Design 2 MA3001 Machine Element Design 3 MA3002 Solid Mechanics and Vibration 3 MA3003 Ma3003 Heat Transfer 3 MA3004 Mathematical Methods in Engineering 3 MA3005 Control Theory 3 MA3006 Fluid Mechanics 3 MA3006 Fluid Mechanics 3 MA3007 Engineering Experiments (ME) 1 MA3075 Professional Attachment / Professional 5 MA3007 Engineering Experiments (ME) 1 MA3075 Professional Attachment / Professional 5 MA3007 Engineering Design 4 MA4007 Fluid Dynamics 3 MA4007 Final Year Project 8 HE1001 Microeconomic Principles 3 MA4007 HE1005 Intro to Probability & Statistical Inference 3 MA4007 HE1005 Intro to Probability & Statistical Inference 3 MA4007 HE1005 Intro to Probability & Statistical Inference 3 MA4007 HE2005 Principles of Economic Principles 3 Mechanical Engineering PE 1 3 Ma4007 Ma4007 Mechanical Engineering PE 2 3 Mechanical Engineering PE 3 3 Mechanical Engi							
FE1073 Introduction to Engineering & Practices 1							
MA1001 Dynamics 3 XXXXXX Engineering Fundamentals 2 3 MA2001 Mechanics of Materials 3 MA2002 Theory of Mechanism 3 MA2003 Introduction to Thermo-fluids 3 MA2004 Manufacturing Processes 3 MA2005 Engineering Graphics 3 MA2006 Engineering Graphics 3 MA2006 Engineering Mathematics 3 MA2006 Engineering Mathematics 3 MA2007 Thermodynamics 3 Introduction to Electrical Circuits & 3 Electronic Devices 3 MA2007 Engineering Mathematics 3 MA2007 Engineering Mathematics 3 MA2007 Engineering Mathematics 3 MA2007 Engineering Innovation and Design 2 MA3001 Machine Element Design 3 MA3002 Solid Mechanics and Vibration 3 MA3003 Mathematical Methods in Engineering 3 MA3005 Control Theory 3 MA3006 Mathematical Methods in Engineering 3 MA3006 Fluid Mechanics 3 MA3007 Engineering Experiments (ME) 1 MA3075 Professional Altachment / Professional 5 Internship 10 MA4001 Engineering Design 4 MA4002 Fluid Dynamics 3 MA4002 Macroeconomic Principles 3 MA4002 MA4002 MA4002 MA400							
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MA2002 Theory of Mechanism 3 MA2003 Introduction to Thermo-fluids 3 MA2004 Manufacturing Processes 3 MA2005 Engineering Graphics 3 MA2006 Engineering Mathematics 3 MA2007 Thermodynamics 3 Introduction to Electrical Circuits & 3 MA2007 Thermodynamics 3 MA2007 Thermodynamics 3 Introduction to Electrical Circuits & 3 MA2007 Electronic Devices 3 MA2007 Electronic Devices 3 MA2007 Engineering Innovation and Design 2 MA3001 Machine Element Design 3 MA3002 Solid Mechanics and Vibration 3 MA3003 Mathematical Methods in Engineering 3 MA3004 Mathematical Methods in Engineering 3 MA3006 Fluid Mechanics 3 MA3007 Professional Attachment / Professional 5 / MA3007 Professional Attachment / Professional							
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Core							
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MA2009							
MA2079		Core	MA2007	1	3	05 (DA)/	
Discipline Requirement MA2079 Engineering Innovation and Design 2 MA3001 Machine Element Design 3 MA3002 Solid Mechanics and Vibration 3 MA3003 Heat Transfer 3 MA3004 Mathematical Methods in Engineering 3 MA3005 Control Theory 3 MA3006 Fluid Mechanics 3 MA3006 Fluid Mechanics 3 MA30071 Engineering Experiments (ME) 1 MA30075 Professional Attachment / Professional 5 / MA3080 Internship 10 MA4001 Engineering Design 4 MA4002 Fluid Dynamics 3 MA4079 Final Year Project 8 HE1002 Macroeconomic Principles 3 HE1002 Macroeconomic Principles 3 HE1002 Macroeconomic Principles 3 HE2005 Principles of Economics Course 3 Tomos Tomo				Electronic Devices			
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Discipline Requirement MA3002 Solid Mechanics and Vibration 3 MA3003 Heat Transfer 3 MA3004 Mathematical Methods in Engineering 3 MA3006 Fluid Mechanics 3 MA3006 Fluid Mechanics 3 MA30071 Engineering Experiments (ME) 1 MA3075 Professional Attachment / Professional 10 MA4001 Engineering Design 4 MA4002 Fluid Dynamics 3 MA4079 Final Year Project 8 HE1001 Microeconomic Principles 3 HE1002 Macroeconomic Principles 3 HE1002 Macroeconomic Principles 3 HE1005 Intro to Probability & Statistical Inference 3 HE2005 Principles of Econometrics 3 HE2005 Principles of Economics Course 2 3 Grown of and 4th year Economics Course 2 3 Grown of and 4th year Economics Course 3 Seconomics Course 4 Grown of and 4th year Economics Course 4 Grown							
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Major PE MA48xx Major PE MA48xx MA48xx MA48xx Mechanical Engineering PE 1 Senomics Course 4			MA3002	Solid Mechanics and Vibration			
MA3005 Control Theory 3 MA3005 MA3005 Fluid Mechanics 3 MA3071 Engineering Experiments (ME) 10 MA3075 MA3075 Professional Attachment / Professional 5 MA3075 MA3080 Internship 10 MA4001 Engineering Design 4 MA4002 Fluid Dynamics 3 MA4079 Final Year Project 8 MA4002 Fluid Dynamics 3 MA4079 Final Year Project 8 ME1002 Macroeconomic Principles 3 12 AU from compulsory Year 1 4 Microeconomic Principles 3 ME1005 Principles of Econometrics 3 ME1005 Principles of Econometrics 3 May 1 Mechanical Engineering PE 1 3 May 2 Mechanical Engineering PE 1 3 Ma48xx Ma48xx Mechanical Engineering PE 2 3 Ma48xx Mechanical Engineering PE 3 3 Ma48xx Mechanical Engineering PE 4 3 Mechanical Engineering PE 4 3			MA3003	Heat Transfer	3		
MA3005 Control Theory 3 MA3005 Fluid Mechanics 3 MA3071 Engineering Experiments (ME) 1 MA3075 Professional Attachment / Professional 5 MA3080 Internship 10 MA4001 Engineering Design 4 MA4002 Fluid Dynamics 3 MA4079 Final Year Project 8 HE1001 Microeconomic Principles 3 HE1002 Macroeconomic Principles 3 HE1005 Intro to Probability & Statistical Inference 3 HE2005 Principles of Econometrics 3 Grown Gr			MA3004	Mathematical Methods in Engineering	3		
MA3006 Fluid Mechanics 3			MA3005		3		
MA3071 Engineering Experiments (ME) 1			MA3006	Fluid Mechanics	3		
MA3075/ MA3080							
MA3080 Internship							
MA4001 Engineering Design 4							
MA4002 Fluid Dynamics 3 3				Engineering Design	_		
MA4079 Final Year Project 8					3		
HE1001 Microeconomic Principles 3 24 AU HE1002 Macroeconomic Principles 3 12 AU from compulsory Year 1 and 2 Economics Course 1 and 2 Economics Course 2 Economics Course 3 Economics Course 3 Economics Course 4 4 Year Economics Course 4 Year Economics Course 5 Economics Course 6 Economics Course 7 Additional Principles of Economics Course 8 Economics Course 9 Additional Principles of Economics Course 9 Add 2 Economi							
HE1002 Macroeconomic Principles 3 12 AU from compulsory Year 1 and 2 Economics Course 1 and 2 Economics courses. Remaining 12 AU from 3rd and 4th year Economics Course 3 Economics Course 4 4 year Economics courses that yield the highest CGPA.						24 AU	
HE1005		UE					
HE2005							
Seconomics Sec							
Major PE			1122000	1 molphod of Edentemodice			
Beauty Company Compa				Economics Course 1	3	Remaining 12 AU	
Major PE				Economics Course 2		from 3 rd and 4 th	
Major PE				Economics Course 3		year Economics	
Major PE						courses that yield	
Major PE						_	
Major PE			MA48xx				
MA48xx Mechanical Engineering PE 3 3 3 3 3 4 4 5 5 5 PA only)		Major DE				12	
General Education Requirements (GER) GER-Core HW0188 Effective Communication 2 HW0288 Engineering Communication Engineeri		wajoi FE				14	
General Education Requirements (GER) GER-Core HW0288 Engineering Communication 2 ML0003 Kickstart your Career Success 1 MA0218 Introduction to Data Science and Artificial 3 Intelligence 3 Intelligence 1 HY0001 Sustainability: Seeing Through The Haze 1 HY0001 Ethics and Moral Reasoning 1 ET0001 Entrepreneurship and Innovation 1 EG0001 Engineers and Society 3 GER-UE - GER-UE 5 5 (PA only)							
General Education Requirements (GER) GER-Core ML0003 Kickstart your Career Success 1 MA0218 Introduction to Data Science and Artificial 3 Intelligence GC0001 Sustainability: Seeing Through The Haze 1 HY0001 Ethics and Moral Reasoning 1 ET0001 Entrepreneurship and Innovation 1 EG0001 Engineers and Society 3 GER-UE - GER-UE 5 5 (PA only)	General						
General Education Requirements (GER) GER Core MA0218 Introduction to Data Science and Artificial 3 Intelligence 5 14 HY0001 Sustainability: Seeing Through The Haze 1 HY0001 Ethics and Moral Reasoning 1 ET0001 Entrepreneurship and Innovation 1 EG0001 Engineers and Society 3 GER-UE - GER-UE 5 5 (PA only)					_	14	
Core Intelligence 14							
Core Intelligence GC0001 Sustainability: Seeing Through The Haze 1 HY0001 Ethics and Moral Reasoning 1 ET0001 Entrepreneurship and Innovation 1 EG0001 Engineers and Society 3 GER-UE - GER-UE 5 5 (PA only)			MA0218		3		
GC0001 Sustainability: Seeing 1 nrough 1 ne Haze 1							
ET0001 Entrepreneurship and Innovation 1 EG0001 Engineers and Society 3 GER-UE - GER-UE 5 5 (PA only)	Requirements						
EG0001 Engineers and Society 3 GER-UE - GER-UE 5 5 (PA only)	(GER)				1		
GER-UE - GER-UE 5 5 (PA only)			ET0001	Entrepreneurship and Innovation			
GER-UE - GER-UE 5 5 (PA only)			EG0001		3		
		GER-UE	-	· ·	5	5 (PA only)	
IUIAL 140		1	II.			140	

<u>Double Degree in Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics)</u>

Students admitted from AY2020/2021 ** Students without 'A' level Physics will read PH1012 Physics A (4 AU)

			GPA Computation for gn/Robotics and Mechatronics Stream	A	AU Load
	our Engineer	PH1011	Physics**	3	
		MH1810	Mathematics 1	3	
		MH1811	Mathematics 2	3	
		MA1008	Introduction to Computational Thinking	3	
		FE1073	Introduction to Engineering & Practices	1	
		MA1001	Dynamics	3	
		XXXXXX	Engineering Fundamentals 2	3	
		MA2001	Mechanics of Materials	3	
		MA2001	Theory of Mechanism	3	
			Introduction to Thermo-fluids		
		MA2003		3	
		MA2004	Manufacturing Processes		
		MA2005	Engineering Graphics	3	
		MA2006	Engineering Mathematics	3	
		MA2009	Introduction to Electrical Circuits & Electronic Devices	3	
		MA2011/	Mechatronics Systems Interfacing/	3	85 (PA) /
	Core	MA2013 MA2012/	Creative Thinking and Design		
		MA2012/	Introduction to Mechatronics Systems Design/ Product Presentation	3	90 (PI)
		MA2071	Laboratory Experiments (ME)	1	
		MA2079	Engineering Innovation and Design	2	
		MA3001	Machine Element Design	3	
		MA3002	Solid Mechanics and Vibration	3	
		MA3004	Mathematical Methods in Engineering	3	
Discipline Requirement		MA3005	Control Theory	3	
		MA3006	Fluid Mechanics	3	
		MA3010	Thermodynamics & Heat Transfer	3	
		MA3071	Engineering Experiments (ME)	1	
		MA3075/	Engineering Experiments (ME)	'	
		MA3080	Professional Attachment / Professional Internship	5/10	
		MA4011/	Engineering Product Design (Design Stream)/		
		MA4012	Mechatronics Engineering Design (Robotics and	4	
			Mechatronics Stream)		
		MA4079	Final Year Project	8	
		HE1001	Microeconomic Principles	3	24 AU
		HE1002	Macroeconomic Principles	3	12 AU from
		HE1005	Intro to Probability & Statistical Inference	3	compulsory
		HE2005	Principles of Econometrics	3	Year 1 and
	UE		Economics Course 1 Economics Course 2 Economics Course 3 Economics Course 4	3 3 3 4	Economics courses. Remaining 12 AU from 3rd and 4th year Economics courses that yield
		MA48xx	Mechanical Engineering Stream PE 1	3	the highest CGPA.
	Major PE	MA48xx	Mechanical Engineering Stream PE 2	3	12
		MA48xx	Mechanical Engineering Stream PE 3	3	
		MA48xx	Mechanical Engineering Stream PE 4	3	
		HW0188	Effective Communication	2	
		HW0288	Engineering Communication	2	- -
			Kickstart vour Career Success	1	
General		ML0003	Kickstart your Career Success	1	
Education	GER-Core	ML0003 MA0218	Introduction to Data Science and Artificial Intelligence	3	14
	GER-Core	ML0003 MA0218 GC0001	Introduction to Data Science and Artificial Intelligence Sustainability: Seeing Through The Haze	3	14
Education	GER-Core	ML0003 MA0218 GC0001 HY0001	Introduction to Data Science and Artificial Intelligence Sustainability: Seeing Through The Haze Ethics and Moral Reasoning	3 1 1	14
Education Requirements	GER-Core	ML0003 MA0218 GC0001 HY0001 ET0001	Introduction to Data Science and Artificial Intelligence Sustainability: Seeing Through The Haze Ethics and Moral Reasoning Entrepreneurship and Innovation	3 1 1	14
Education Requirements	GER-Core	ML0003 MA0218 GC0001 HY0001	Introduction to Data Science and Artificial Intelligence Sustainability: Seeing Through The Haze Ethics and Moral Reasoning	3 1 1	14 5 (PA only)