Double Degree in Bachelor of Engineering (Aerospace Engineering) and Bachelor of Arts (Economics)

Students admitted from AY2019/2020

List of courses that			Computation for BEng (Aerospace Engineering)		AU Load
		PH1011	Physics**	3	
		MH1810	Mathematics 1	3	
		MH1811	Mathematics 2	3	
		MA1008	Introduction to Computational Thinking	3	
		MA1001	Dynamics	3	
		MA1700	Aerospace Discovery Course	1	
		MA1701	Introduction to Aerospace Engineering	3	
		MA2001	Mechanics of Materials	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	
	0	MA2700	Aerospace Materials & Manufacturing	3	
	Core		Processes		91 (PA) /
		MA2701	Flight Performance	2	96 (PI)
		MA3003	Heat Transfer	3	,
		MA3006	Fluid Mechanics	3	
		MA3072	Engineering Experiments (AE)	1	
		MA3075/	Professional Attachment / Professional	5/	
		MA3080	Internship	10	
		MA3700	Aircraft Structures I	3]
Discipline		MA3701	Aerodynamics	3	
Requirement		MA3702	Aircraft Propulsion	3	
		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 AU
		HE1002	Macroeconomic Principles Macroeconomic Principles	3	12 AU from compulsory Year 1 and 2 Economics courses. Remaining 12 AU from 3 rd and 4 th
		HE1005	Intro to Probability & Statistical Inference	3	
	UE	HE2005	Principles of Econometrics	3	
			Economics Course 1	3	
			Economics Course 2	3	
			Economics Course 2 Economics Course 3	3	year Economics
			Economics Course 4	4	courses that yield
			Economics Course 4	-	the highest
	Major PE	NAA 40	Assessed Fasingsring DF 4	_	CGPA.
		MA48xx	Aerospace Engineering PE 1	3	6
		MA48xx	Aerospace Engineering PE 2	3	
	GER-Core	HW0188	Engineering Communication I	2	14
		HW0288	Engineering Communication II	2	
		ML0003	Kickstart your Career Success	1	
General Education Requirements		MA0218	Introduction to Data Science and Artificial Intelligence	3	
		GC0001	Introduction to Sustainability	1	
		HY0001			
(GER)			Ethics and Moral Reasoning	1	
		ET0001	Entrepreneurship and Innovation	1	
	OED III	EG0001	Engineers and Society	3	E/DA colo
	GER-UE	-	GER-UE	5 TAL	5 (PA only) 140

^{**} Students without 'A' level Physics will read PH1012 Physics A (4 AU)

Double Degree in Bachelor of Engineering (Mechanical Engineering) and Bachelor of Arts (Economics)

Students admitted from AY2019/2020

	lents admitted from AY2019/2020								
	List of courses that contribute towards GPA Computation for BEng (Mechanical Engineering) – Mainstream AU Load								
BENG (Mechanic	ai Engineer		tream						
		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					
		MA1002	Fundamental Engineering Materials	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 Mathematics	3					
	Core	MA2007	Thermodynamics	3					
		MA2009	Introduction to Electrical Circuits & Electronic Devices	3	85 (PA)/ 90 (PI)				
		MA2071	Laboratory Experiments (ME)	1					
		MA2079	Engineering Innovation and Design	2					
		MA3001	Machine Element Design	3					
		MA3002	Solid Mechanics and Vibration	3					
		MA3003	Heat Transfer	3					
Discipline		MA3004	Mathematical Methods in Engineering	3					
Requirement		MA3005	Control Theory	3					
		MA3006	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	24 AU				
		HE1002	Macroeconomic Principles	3	12 AU from				
		HE1005	Intro to Probability & Statistical Inference	3	compulsory Year 1				
	UE	HE2005	Principles of Econometrics	3	and 2 Economics				
					courses.				
			Economics Course 1	3	Remaining 12 AU				
			Economics Course 2	3	from 3 rd and 4 th				
			Economics Course 3	3	year Economics				
			Economics Course 4	4	courses that yield				
		NAA 40	Manhanian Farinania BE 4	_	the highest CGPA.				
		MA48xx	Mechanical Engineering PE 1	3					
	Major PE	MA48xx	Mechanical Engineering PE 2	3	12				
	-	MA48xx MA48xx	Mechanical Engineering PE 3	3					
	GER- Core	HW0188	Mechanical Engineering PE 4	2					
			Engineering Communication I						
		HW0288	Engineering Communication II Kickstart your Career Success	2					
General Education Requirements (GER)		ML0003	Introduction to Data Science and Artificial	3					
		MA0218	Introduction to Data Science and Artificial Intelligence	٥	14				
		GC0001		1	14				
		GC0001	Introduction to Sustainability	1					
		HY0001	Ethics and Moral Reasoning	1					
		ET0001	Entrepreneurship and Innovation	1					
	055 ::5	EG0001	Engineers & Society	3	E (DA!)				
	GER-UE	-	GER-UE	5	5 (PA only)				
			ТО	TAL	140				

^{**} Students without 'A' level Physics will read PH1012 Physics A (4 AU)

<u>Double Degree in Bachelor of Engineering (Mechanical Engineering) and Bachelor of Arts (Economics)</u> Students admitted from AY2019/2020

List of courses to BEng (Mechanic	GPA Computation for n/Robotics and Mechatronics Stream		AU Load		
		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	
		MA1002	Fundamental Engineering Materials	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 Mathematics	3	
			Introduction to Electrical Circuits & Electronic		
		MA2009	Devices	3	
		MA2011/	Mechatronics Systems Interfacing/		
		MA2013	Creative Thinking and Design	3	85 (PA) /
	Core	MA2012/	Introduction to Mechatronics Systems Design/		90 (PI)
		MA2014	Product Presentation	3	00 (1 1)
		MA2071	Laboratory Experiments (ME)	1	
		MA2079	Engineering Innovation and Design	2	
		MA3001	Machine Element Design	3	
		MA3001	Solid Mechanics and Vibration	3	
		MA3004	Mathematical Methods in Engineering	3	
Discipline		MA3005	Control Theory	3	
Requirement		MA3006	Fluid Mechanics	3	
•		MA3010	Thermodynamics & Heat Transfer	3	
		MA3071		1	+
		MA3075/	Engineering Experiments (ME)	ı	
		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	<u>24 AU</u>
		HE1002	Macroeconomic Principles	3	12 AU from
		HE1005	Intro to Probability & Statistical Inference	3	compulsory Year
		HE2005	Principles of Econometrics	3	1 and 2
					Economics
	UE			_	courses.
			Economics Course 1	3	Remaining 12 AU
			Economics Course 2	3	from 3 rd and 4 th
			Economics Course 3	3	year Economics
			Economics Course 4	4	courses that yield
					the highest CGPA.
		MA48xx	Mechanical Engineering Stream PE 1	3	OGFA.
		MA48xx	Mechanical Engineering Stream PE Mechanical Engineering Stream PE 2	3	
	Major PE	MA48xx	Mechanical Engineering Stream PE 3	3	12
		MA48xx	Mechanical Engineering Stream PE 3	3	
	GER-Core	HW0188	Engineering Communication I	2	
		HW0288	Engineering Communication II	2	
General Education Requirements (GER)		ML0003	Kickstart your Career Success	1	<u> </u>
		MA0218	Introduction to Data Science and Artificial Intelligence	3	
				1	14
		GC0001	Introduction to Sustainability	1	+
		HY0001	Ethics and Moral Reasoning		1
		ET0001	Entrepreneurship and Innovation	1	
		EG0001	Engineers & Society	3	_ ,
	GER-UE	-	GER-UE	5	5 (PA only)
				OTAL	140

^{**} Students without 'A' level Physics will read PH1012 Physics A (4 AU)