

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

For students admitted to **First Year Engineering from AY2014/2015**

List of courses that contribute towards GPA Computation for BEng (Mechanical Engineering) – Mainstream

List of courses that contribute towards GPA Computation for BEng (Mechanical Engineering) – Mainstream				AU Load		
Discipline Requirement	Core	PH1011	Physics**	3	84 AUs (PA)/ 88 AUs (PI)	
		MH1810	Mathematics 1	3		
		MH1811	Mathematics 2	3		
		FE1008	Computing	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		
		MA2007	Thermodynamics	3		
		MA2009	Introduction to Electrical Circuits & Electronic Devices	3		
		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		
		MA3004	Mathematical Methods in Engineering	3		
		MA3005	Control Theory	3		
		MA3006	Fluid Mechanics	3		
		MA3071	Engineering Experiments (ME)	1		
	MA3076/ MA3079	Professional Attachment / Professional Internship	4/ 8			
	MA4001	Engineering Design	4			
	MA4002	Fluid Dynamics	3			
	MA4079	Final Year Project	8			
	UE	HE1001	Microeconomic Principles	3		24 AUs 12 AUs from compulsory Year 1 and 2 Economics courses. Remaining 12 AUs from 3 rd and 4 th year Economics courses that yield the highest CGPA.
		HE1002	Macroeconomic Principles	3		
		HE1005	Intro to Probability & Statistical Inference	3		
		HE2005	Principles of Econometrics	3		
		Economics Course 1 Economics Course 2 Economics Course 3 Economics Course 4	3 3 3 4			
Major PE	MA48xx	Mechanical Engineering PE 1	3	12 AUs		
	MA48xx	Mechanical Engineering PE 2	3			
	MA48xx	Mechanical Engineering PE 3	3			
	MA48xx	Mechanical Engineering PE 4	3			
General Education Requirements (GER)	GER-Core	HW0188	Engineering Communication I	2	12 AUs	
		HW0288	Engineering Communication II	2		
		-	MLCPS Communication	2		
		GC0001	Introduction to Sustainability	1		
		-	Ethics and Moral Reasoning	1		
		-	Entrepreneurship and Innovation	1		
	MA0101	Engineers & Society	3			
GER-UE	-	GER-UE	4	4 (PA only)		
TOTAL				136 AUs		

** Students without 'A' level Physics will read FE1012/PH1012 Physics A (4 AUs)