

BEng (ELECTRICAL & ELECTRONIC ENGINEERING) AND BA (ECONOMICS)

(wef AY2016)

LIST OF COURSES THAT CONTRIBUTE TOWARDS BENG (ELECTRICAL & ELECTRONIC ENGINEERING)				AU LOAD		
DISCIPLINE REQUIREMENT	CORE	MH1810	MATHEMATICS 1	3	78 AUS (PA OPTION) 83 AUS (PI OPTION)	
		MH1811	MATHEMATICS 2	3		
		FE1008	COMPUTING	3		
		PH1011	PHYSICS **	3		
		FE1073	AN INTRODUCTION TO ENGINEERING & PRACTICES	1		
		EE1002	PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGINEERING	4		
		EE1003	INTRODUCTION TO MATERIALS FOR ELECTRONICS	3		
		EE1071	EEE LABORATORY 1	1		
		EE2001	CIRCUIT ANALYSIS	4		
		EE2002	ANALOG ELECTRONICS	4		
		EE2003	SEMICONDUCTOR FUNDAMENTALS	4		
		EE2004	DIGITAL ELECTRONICS	4		
		EE2006	ENGINEERING MATHEMATICS I	4		
		EE2007	ENGINEERING MATHEMATICS II	4		
		EE2008	DATA STRUCTURES AND ALGORITHMS	4		
		EE2010	SIGNALS AND SYSTEMS	4		
		EE2073	INTRODUCTION TO EEE DESIGN AND PROJECT	2		
		EE3001	ENGINEERING ELECTROMAGNETICS	4		
		EE3002	MICROPROCESSORS	4		
		EE3276/ EE3279	PROFESSIONAL ATTACHMENT / PROFESSIONAL INTERNSHIP	5 / 10		
		EE3080	DESIGN AND INNOVATION PROJECT	2		
		EE4080	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	
			HEXXX	ECONOMICS COURSE 1	3	
			HEXXX	ECONOMICS COURSE 2	3	
			HEXXX	ECONOMICS COURSE 3	3	
			HEXXX	ECONOMICS COURSE 4	3	
		MAJOR PE	EE3XXX	ELECTIVE 1	3	19 AU
			EE3XXX	ELECTIVE 2	3	
			EE4XXX	DESIGN ELECTIVE 1	2	
			EE4XXX	DESIGN ELECTIVE 2	2	
			EE4XXX	TECHNICAL ELECTIVE 1	3	
			EE4XXX	TECHNICAL ELECTIVE 2	3	
			EE4XXX	TECHNICAL ELECTIVE 3	3	
		GER-CORE	EE0040	ENGINEERS AND SOCIETY	3	12 AU
			GC0001	INTRODUCTION TO SUSTAINABILITY	1	
			HY0001	ETHICS AND MORAL REASONING	1	
			ET0001	ENTERPRISE AND INNOVATION	1	
		HW0188	ENGINEERING COMMUNICATION I	2		
		HW0288	ENGINEERING COMMUNICATION II	2		
		ML0001	ABSOLUTE BASICS FOR CAREER	1		
		ML0002	CAREER POWER-UP!	1		
	GER-UE		ELECTIVE	5	5 AUS (PA OPTION)	
TOTAL				138 AUS		

** Students without 'A' level Physics will take PH1012 (FE1012) Physics A (4AU)

BEng (INFORMATION ENGINEERING & MEDIA) AND BA (ECONOMICS) (wef AY2016)

List of courses that contribute towards BEng (Information Engineering & Media)				AU Load	
Discipline Requirement	Core	MH1810	Mathematics 1	3	83 AU (PA Option) 88 AU (PI Option)
		MH1811	Mathematics 2	3	
		FE1008	Computing	3	
		PH1011	Physics **	3	
		DA1000	Thinking and Communicating Visually I	3	
		DA2002	Thinking and Communicating Visually II	3	
		DA3000	Thinking and Communicating Visually III	3	
		IM1001	Data Structures and Algorithms	4	
		IM1002	Analog Electronics	3	
		IM1003	Object-Oriented Programming	3	
		IM1004	Digital Electronics	4	
		IM2001	Software Engineering	3	
		IM2002	Microprocessors	4	
		IM2003	Computer Communications	3	
		IM2004	Signals and Systems	4	
		IM2006	Engineering Mathematics I	4	
		IM2007	Engineering Mathematics II	4	
		IM2073	Introduction to Design and Project	2	
		IM3001	Digital Signal Processing	3	
		IM3002	Communication Principles	3	
		IM3003	Information Security	3	
		IM3276/ IM3279	Professional Attachment / Professional Internship	5/10	
		IM3080	Design and Innovation Project	2	
IM4080	Final Year Project	8			
UE	HE1001	Microeconomic Principles	3	21 AUs 12 AUs from compulsory Year 1 and 2 Economics courses. Remaining 9 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		
	HExxxx	Economics Course 1	3		
	HExxxx	Economics Course 2	3		
	HExxxx	Economics Course 3	3		
Major PE	EE4xxx	Design Elective 1	2	13 AU	
	EE4xxx	Design Elective 2/Technical Elective 4	2		
	EE4xxx	Technical Elective 1	3		
	EE4xxx	Technical Elective 2	3		
	EE4xxx	Technical Elective 3	3		
General Education Requirements (GER)	GER (Core)	ML0001	Absolute Basics for Career	1	16 AU
		ML0002	Career Power Up!	1	
		GC0001	Introduction to Sustainability	1	
		HY0001	Ethics and Moral Reasoning	1	
		ET0001	Entrepreneurship and Innovation	1	
		CS0204	Basic Media Writing (SCI)	3	
		CS2006	Theories of Visual Communication and Their Applications (SCI)	3	
		IM0040	Engineers and Society	3	
	HW0288	Engineering Communication II	2		
GER-UE		Elective	5	5 AUs (PA Option)	
TOTAL				138 AUs	

** Students without 'A' level Physics will take PH1012 (FE1012) Physics A (4AU)