B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) AND BSOCSCI (ECONOMICS)
(AY2020 Cohort)

LIST OF COURSES THAT CONTRIBUTE TOWARDS B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING)					AU LOAD
DISCIPLINE REQUIREMENT	CORE	MH1810	MATHEMATICS 1	3	77 AUs (PA OPTION) 82 AUs (PI OPTION)
		MH1811	MATHEMATICS 2	3	
		PH1011	PHYSICS **	3	
		FE1073	AN INTRODUCTION TO ENGINEERING & PRACTICES	1	
		EE1002	PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	4	
		-	ENGINEERING FUNDAMENTAL COURSE	3	
		EE1005	FROM COMPUTATIONAL THINKING TO PROGRAMMING	3	
		EE1071	EEE LABORATORY 1	1	
		EE2001	CIRCUIT ANALYSIS	4	
		EE2002	ANALOG ELECTRONICS	4	
		EE2003	SEMICONDUCTOR FUNDAMENTALS	4	
		EE2004	DIGITAL ELECTRONICS	4	
		EE2005	ELECTRICAL DEVICES & MACHINES	3	
		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	
		EE3276/	PROFESSIONAL ATTACHMENT /	5/1	
		EE3279	PROFESSIONAL INTERNSHIP	0	
		EE3080	DESIGN AND INNOVATION PROJECT	2	
		EE4080	FINAL YEAR PROJECT	8	
	UE	HE1001	MICROECONOMIC PRINCIPLES	3	24 AUs 12 AUS from compulsory Year 1 & 2 Economics courses. Remaining 12 AUS from Year 3 & 4 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	
		HEXXXX	ECONOMICS COURSE 4	3	
	MAJOR PE	EE3XXX	ELECTIVE1	3	
		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	EG0001	ENGINEERS AND SOCIETY	3	14 AUs
		EE0005	INTRO TO DATA SCIENCE AND ARTIFICIAL INTELLIGENCE	3	
		GC0001	SUSTAINABILITY: SEEING THROUGH THE HAZE	1	
		HY0001	ETHICS AND MORAL REASONING	1	
		ET0001	ENTERPRISE AND INNOVATION	1	
		HW0188	EFFECTIVE COMMUNICATION	2	
		HW0288	ENGINEERING COMMUNICATION	2	
		ML0003	KICKSTART YOUR CAREER SUCCESS	1	
	GER-UE		ELECTIVES	5	5 AUs (PA OPTION)
				TOTAL	139 AUs

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

BEng (INFORMATION ENGINEERING & MEDIA) AND BSOCSCI (ECONOMICS) *(wef AY2020)*

List of courses that contribute towards BEng (Information Engineering & Media)				AU Load	
Discipline Requirement	Core	MH1810	Mathematics 1	3	86 AU (PA Option) 91 AU (PI Option)
		MH1811	Mathematics 2	3	
		EE1005	From Computational Thinking To Programming	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	
		XXXXXX	Engineering Fundamental	3	
		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 3rd and 4th 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)	ML0003	Kickstart Your Career Success	1	15 AU
		EE0005	Intro To Data Science & AI	3	
		GC0001	Introduction to Sustainability	1	
		HY0001	Ethics and Moral Reasoning	1	
		ET0001	Entrepreneurship and Innovation	1	
		CS0205	Basic Media Writing (SCI)	3	
		EG0001	Engineers and Society	3	
		HW0288	Engineering Communication	2	
	GER-UE		Elective	5	5 AUs (PA Option)
			TOTAL		**140 AUs**

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