

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) & ECONOMICS PROGRAMME
(ADMITTED TO EEE YEAR 1 FROM AY2013-2014)

AU REQUIREMENT TABLE – EEE

CORE	MAJOR PRESCRIBED ELECTIVE	GER-CORE	GER-PRESCRIBED ELECTIVE					UE	TOTAL
			AHSS	BM	STS	LS	ANY		
77	19	12	0	0	0	0	3	25	136

* EE3179 is taken in Semester 2. Those taking EE3179 (instead of EE3176) will have the additional 4 AUs counted in the CORE category, and removing the GER-PE category.

OPTION A – INDUSTRIAL ORIENTATION

COURSE CODE AND TITLE	TYPE*	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE^
		LEC	TUT	LAB	TOTAL		
YEAR 1 SEMESTER 1							
MH1810 MATHEMATICS I	C	2	1	0	3	3	
PH1011 PHYSICS *	C	2	1	0	3	3	H2 PHYSICS
FE1073 AN INTRODUCTION TO ENGINEERING & PRACTICES	C	0	0	0	0	1	9 HRS LEC + 6 LABS
HW0110 EFFECTIVE COMMUNICATION	GC	1	1	0	2	2	
HE1001 MICROECONOMIC PRINCIPLES	C	2	1	0	3	3	
HE1002 MACROECONOMIC PRINCIPLES	C	2	1	0	3	3	
* STUDENTS WITHOUT H2 PHYSICS ARE REQUIRED TO READ PH1012 PHYSICS A (4 AUs), INSTEAD OF PH1011.							
YEAR 1 SEMESTER 2							
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	C	3	1	0	4	4	FE1011/FE1012
MH1811 MATHEMATICS 2	C	2	1	0	3	3	
HE1005 INTRO TO PROBABILITY AND STATISTICAL INFERENCE	C	2	1	0	3	3	
HE2001 INTERMEDIATE MICROECONOMICS	C	2	1	0	3	3	
HE2002 INTERMEDIATE MACROECONOMICS	C	2	1	0	3	3	HE1002
YEAR 2 SEMESTER 1							
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3	
FE1008 COMPUTING	C	2	1	1	4	3	
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	
GER ELECTIVE 1	GE	2	1	0	3	3	
HE2005 PRINCIPLES OF ECONOMETRICS	C	2	1	0	3	3	HE1005
YEAR 2 SEMESTER 2							
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4	FE1007
EE2071 LABORATORY 2A	C	0	0	3	3	1	
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	0	2	
HE3021 INTERMEDIATE ECONOMETRICS	C	2	1	0	3	3	HE2005
ECONOMICS ELECTIVE 1	PE	2	1	0	3	3	

COURSE CODE AND TITLE	TYPE*	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE^
		LEC	TUT	LAB	TOTAL		
YEAR 3 SEMESTER 1							
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	EE2001
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	EE1002
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4	FE1007
EE2008 DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
HW0210 TECHNICAL COMMUNICATION	GC	1	1	0	2	2	
HE4010 SINGAPORE ECONOMY IN A GLOBALIZED WORLD	C	2	2	0	4	4	
YEAR 3 SEMESTER 2							
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	FE1006 & FE1007
EE2072 LABORATORY 2B	C	0	0	3	3	1	
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	# EE2007
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3	
ECONOMICS ELECTIVE 2	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 3	PE	2	1	0	3	3	
YEAR 3 SPECIAL SEMESTER							
EE3176 INDUSTRIAL ORIENTATION	C	-	-	-	-	4	10 WEEKS FT
YEAR 4 SEMESTER 1							
EE3002 MICROPROCESSOR	C	3	1	0	4	4	#
EE3080 DESIGN & INNOVATION PROJECT	C	0	0	6	6	2	YEAR 3 STANDING
EE3XXX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	#
ECONOMICS ELECTIVE 4	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 5	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 6	PE	2	1	0	3	3	
YEAR 4 SEMESTER 2							
EE0001 IMPACT OF ELECTROMAGNETIC RADIATION ON HUMANS	GC	2	1	0	3	3	
EE3XXX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	#
EE4XXX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 7	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 8	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 9	PE	2	1	0	3	3	
YEAR 5 SEMESTER 1							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE4XXX DESIGN ELECTIVE 1	PE	1	0	3	4	2	
EE4XXX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	
HW0310 PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2	
ECONOMICS ELECTIVE 10	PE	2	1	0	3	3	
YEAR 5 SEMESTER 2							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE4XXX DESIGN ELECTIVE 2	PE	1	0	3	4	2	
EE4XXX TECHNICAL ELECTIVE 3	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 11	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 12	PE	2	1	0	3	3	

OPTION B – INDUSTRIAL ATTACHMENT

COURSE CODE AND TITLE		TYPE*	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE^
			LEC	TUT	LAB	TOTAL		
YEAR 1 SEMESTER 1								
MH1810	MATHEMATICS I	C	2	1	0	3	3	
FE1008	COMPUTING	C	2	1	1	4	3	
PH1011	PHYSICS *	C	2	1	1	4	3	
FE1073	AN INTRODUCTION TO ENGINEERING & PRACTICES	C	-	-	-	-	1	[9 HRS LECT+6 LABS]
HW0110	EFFECTIVE COMMUNICATION	GC	1	1	0	2	2	
HE1001	MICROECONOMIC PRINCIPLES	C	2	1	0	3	3	
HE1002	MACROECONOMIC PRINCIPLES	C	2	1	0	3	3	
YEAR 1 SEMESTER 2								
EE1002	PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	C	3	1	0	4	4	FE1011/FE1012
EE1003	INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3	
MH1811	MATHEMATICS 2	C	2	1	0	3	3	
HE1005	INTRO TO PROBABILITY AND STATISTICAL INFERENCE	C	2	1	0	3	3	
HE2001	INTERMEDIATE MICROECONOMICS	C	2	1	0	3	3	
HE2002	INTERMEDIATE MACROECONOMICS	C	2	1	0	3	3	HE1002
YEAR 2 SEMESTER 1								
EE2001	CIRCUIT ANALYSIS	C	3	1	0	4	4	
EE2004	DIGITAL ELECTRONICS	C	3	1	0	4	4	
EE2006	ENGINEERING MATHEMATICS I	C	3	1	0	4	4	FE1007
EE2071	LABORATORY 2A	C	0	0	3	3	1	
HE2005	PRINCIPLES OF ECONOMETRICS	C	2	1	0	3	3	HE1005
ECONOMICS ELECTIVE 1		PE	2	1	0	3	3	
YEAR 2 SEMESTER 2								
EE2002	ANALOG ELECTRONICS	C	3	1	0	4	4	EE2001
EE2007	ENGINEERING MATHEMATICS II	C	3	1	0	4	4	FE1007
EE2072	LABORATORY 2B	C	0	0	3	3	1	
EE2073	INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2	
HW0210	TECHNICAL COMMUNICATION	GC	1	1	0	2	2	
HE3021	INTERMEDIATE ECONOMETRICS	C	2	1	0	3	3	HE2005
ECONOMICS ELECTIVE 2		PE	2	1	0	3	3	
YEAR 3 SEMESTER 1								
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	EE1002
EE2008	DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
EE2010	SIGNALS AND SYSTEMS	C	3	1	0	4	4	FE1006 & FE1007
EE0001	IMPACT OF ELECTROMAGNETIC RADIATION ON HUMANS	GC	2	1	0	3	3	
HE4010	SINGAPORE ECONOMY IN A GLOBALIZED WORLD	C	2	1	0	3	4	
ECONOMICS ELECTIVE 3		PE	2	1	0	3	3	
ECONOMICS ELECTIVE 4		PE	2	1	0	3	3	

COURSE CODE AND TITLE	TYPE*	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE^
		LEC	TUT	LAB	TOTAL		
YEAR 3 SEMESTER 2							
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	# EE2007
EE3002 MICROPROCESSOR	C	3	1	0	4	4	#
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3	
EE3XXX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	#
ECONOMICS ELECTIVE 5	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 6	PE	2	1	0	3	3	
YEAR 4 SEMESTER 1							
EE3080 DESIGN & INNOVATION PROJECT	C	0	0	6	6	2	YEAR 3 STANDING
EE3XXX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	#
EE4XXX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 7	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 8	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 9	PE	2	1	0	3	3	
YEAR 4 SEMESTER 2							
EE3179 INDUSTRIAL ATTACHMENT	C	0	0	40	40	8	YEAR 3 STANDING
YEAR 5 SEMESTER 1							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
HW0310 PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2	
EE4XXX DESIGN ELECTIVE 1	PE	1	0	3	4	2	
EE4XXX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 10	PE	2	1	0	3	3	
YEAR 5 SEMESTER 2							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE4XXX DESIGN ELECTIVE 2	PE	1	0	3	4	2	
EE4XXX TECHNICAL ELECTIVE 3	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 11	PE	2	1	0	3	3	
ECONOMICS ELECTIVE 12	PE	2	1	0	3	3	