

**DEGREE IN BACHELOR OF ENGINEERING (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME
WITH A SECOND MAJOR IN BUSINESS
(Admission to Year 1 from AY2014-2015)**

AU REQUIREMENT TABLE (Professional Internship)

STUDY YEAR	EEE MAJOR REQUIREMENTS		BUSINESS MAJOR REQUIREMENTS		GER.CORE (GC)	TOTAL
	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)		
1	21		14		4	39
2	34		7		1	42
3	18	6	6		2	32
4	8	13		12	5	38
TOTAL	81	19	27	12	12	151

CURRICULUM STRUCTURE

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE ^A
		LEC	TUT	LAB	TOTAL			
EEEEB 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	0	3	3		H2 PHYSICS
FE1073 AN INTRODUCTION TO ENGINEERING & PRACTICES	C	0	0	0	0	1		
HW0188 ENGLISH COMMUNICATION I	GC	0	2	0	2	2		HW0001
GC0001 INTRODUCTION TO SUSTAINABILITY: MULTIDISCIPLINARY APPROACHES AND SOLUTIONS (ONLINE)	GC	0	0	0	0	1		
AB1101 FINANCIAL ACCOUNTING	BC	3	1	0	4	4		
AD1201 FINANCIAL MANAGEMENT	BC	2	1	0	3	3		
TOTAL		11	7	1	19	20		
* STUDENTS WITHOUT H2 PHYSICS ARE REQUIRED TO READ PH1012 PHYSICS A (4-AU), INSTEAD OF PH1011.								
EEEEB YEAR 1 – SEMESTER 2								
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	C	3	1	0	4	4		PH1011/PH1012
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3		
EE1071 EEE LABORATORY 1	C	0	0	3	3	1		
MH1811 MATHEMATICS 2	C	2	1	0	3	3		
ML0001 ABSOLUTE BASICS FOR CAREER (ONLINE)	GC	0	0	0	0	1		
AB1501 MARKETING	BC	2	1	0	3	3		
BE1401 BUSINESS OPERATIONS AND PROCESS	BC	3	1	0	4	4		
TOTAL		12	5	3	20	19		
EEEEB YEAR 2 – SEMESTER 1								
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	E2001L	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		MH1811
EE2008 DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L	
GC0002 ETHICS AND MORAL REASONING (ONLINE)	GC	0	0	0	0	1		
AD2101 MANAGEMENT ACCOUNTING	BC	3	1	0	4	4		AB1101
TOTAL		15	5	0	20	21		

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE^
		LEC	TUT	LAB	TOTAL			
EEEE YEAR 2 – SEMESTER 2								
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	E2002L	EE2001
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4		MH1811
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	E2010L	MH1810 & MH1811
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2		
AB0901 PRINCIPLES OF ECONOMICS	BC	2	1	0	3	3		
TOTAL		14.5	5.5	3	23	21		
EEEE YEAR 3 – SEMESTER 1								
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	EE2007^
EE3002 MICROPROCESSORS	C	3	1	0	4	4	E3002L	
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2		
EE3XXX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3		REFER TO WEBSITE
EE3XXX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3		
GC0003 ENTERPRISE AND INNOVATION (ONLINE)	GC	0	0	0	0	1		
AB1301 BUSINESS LAW	BC	2	1	0	3	3		
AB1601 ORGANISATION BEHAVIOUR AND DESIGN	BC	2	1	0	3	3		
TOTAL		14.5	6	6	26	23		
EEEE YEAR 3 – SEMESTER 2								
EE3179 PROFESSIONAL INTERNSHIP	C	20 WEEKS, FULL-TIME				8		
ML0002 CAREER POWER-UP (ONLINE)	GC	0	0	0	0	1		
TOTAL		-	-	-	-	9		
EEEE YEAR 4 – SEMESTER 1								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE4XXX DESIGN ELECTIVE 1	PE	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3		
HW0288 ENGLISH COMMUNICATION II	GC	0	2	0	2	2		HW0188
BUSINESS SPECIALISATION 1	BE	3	1	0	4	4		
BUSINESS SPECIALISATION 2	BE	3	1	0	4	4		
TOTAL		9	5	15	29	19		
EEEE YEAR 4 – SEMESTER 2								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE4XXX DESIGN ELECTIVE 2	PE	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3		
EE4XXX TECHNICAL ELECTIVE 3	PE	2	1	0	3	3		
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3		YEAR 4 CLASSIFICATION
BUSINESS SPECIALISATION 3	BE	3	1	0	4	4		
TOTAL		10	4	15	29	19		
TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION								151

Website Reference:

- <http://www.eee.ntu.edu.sg/programmes/currentstudents/undergraduate/undergraduatefull-time/pages/courseinformation.aspx>
- http://coe.ntu.edu.sg/programmes/prospectivestudents/ps_undergrad/ps_programmes/pages/engbizmajor.aspx

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AU REQUIREMENT TABLE (Industrial Orientation)

STUDY YEAR	EEE MAJOR REQUIREMENTS		BUSINESS MAJOR REQUIREMENTS		GER-CORE (GC)	UNRESTRICTED ELECTIVE (UE)	TOTAL
	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)			
1	21		14		4		39
2	30		7		1		38
3	18	6	6		4		34
4	8	13		12	3		36
ANY YEAR						4	4
TOTAL	77	19	27	12	12	4	151

CURRICULUM STRUCTURE

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE ^A
		LEC	TUT	LAB	TOTAL			
EEEE 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	0	3	3		H2 PHYSICS
FE1073 AN INTRODUCTION TO ENGINEERING & PRACTICES	C	0	0	0	0	1		
HW0188 ENGLISH COMMUNICATION I	GC	0	2	0	2	2		HW0001
GC0001 INTRODUCTION TO SUSTAINABILITY: MULTIDISCIPLINARY APPROACHES AND SOLUTIONS (ONLINE)	GC	0	0	0	0	1		
AB1101 FINANCIAL ACCOUNTING	BC	3	1	0	4	4		
AD1201 FINANCIAL MANAGEMENT	BC	2	1	0	3	3		
TOTAL		11	7	1	19	20		
* STUDENTS WITHOUT H2 PHYSICS ARE REQUIRED TO READ PH1012 PHYSICS A (4-AU), INSTEAD OF PH1011.								
EEEE YEAR 1 – SEMESTER 2								
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	C	3	1	0	4	4		PH1011/PH1012
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3		
EE1071 EEE LABORATORY 1	C	0	0	3	3	1		
MH1811 MATHEMATICS 2	C	2	1	0	3	3		
ML0001 ABSOLUTE BASICS FOR CAREER (ONLINE)	GC	0	0	0	0	1		
AB1501 MARKETING	BC	2	1	0	3	3		
BE1401 BUSINESS OPERATIONS AND PROCESS	BC	3	1	0	4	4		
TOTAL		12	5	3	20	19		
EEEE YEAR 2 – SEMESTER 1								
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	E2001L	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		MH1811
GC0002 ETHICS AND MORAL REASONING (ONLINE)	GC	0	0	0	0	1		
UNRESTRICTED ELECTIVE 1	UE	3	1	0	4	4		
AD2101 MANAGEMENT ACCOUNTING	BC	3	1	0	4	4		AB1101
TOTAL		15	5	0	20	21		

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE^
		LEC	TUT	LAB	TOTAL			
EEEE YEAR 2 – SEMESTER 2								
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	E2002L	EE2001
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002
EE2008 DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L	
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	E2010L	MH1810 & MH1811
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2		
AB0901 PRINCIPLES OF ECONOMICS	BC	2	1	0	3	3		
TOTAL		14.5	5.5	3	23	21		
EEEE YEAR 3 – SEMESTER 1								
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4		MH1811
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	EE2007^
EE3XX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3		REFER TO WEBSITE
GC0003 ENTERPRISE AND INNOVATION (ONLINE)	GC	0	0	0	0	1		
AB1301 BUSINESS LAW	BC	2	1	0	3	3		
TOTAL		10	4	0	14	15		
EEEE YEAR 3 – SEMESTER 2								
EE3002 MICROPROCESSORS	C	3	1	0	4	4	E3002L	
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2		REFER TO WEBSITE
EE3XX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3		
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3		YEAR 4 CLASSIFICATION
HW0288 ENGLISH COMMUNICATION II	GC	0	2	0	2	2		HW0188
ML0002 CAREER POWER-UP (ONLINE)	GC	0	0	0	0	1		
AB1601 ORGANISATION BEHAVIOUR AND DESIGN	BC	2	1	0	3	3		
TOTAL		9.5	6	6	21	18		
EEEE YEAR 3 – SPECIAL TERM								
EE3176 INDUSTRIAL ORIENTATION	C	10 WEEKS, FULL-TIME				4		
EEEE YEAR 4 – SEMESTER 1								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE4XX DESIGN ELECTIVE 1	PE	1	0	3	4	2		
EE4XX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3		
BUSINESS SPECIALISATION 1	BE	3	1	0	4	4		
BUSINESS SPECIALISATION 2	BE	3	1	0	4	4		
TOTAL		9	3	15	27	17		
EEEE YEAR 4 – SEMESTER 2								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE4XX DESIGN ELECTIVE 2	PE	1	0	3	4	2		
EE4XX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3		
EE4XX TECHNICAL ELECTIVE 3	PE	2	1	0	3	3		
BUSINESS SPECIALISATION 3	BE	3	1	0	4	4		
TOTAL		8	3	15	26	16		
TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION								151

Website Reference:

- <http://www.eee.ntu.edu.sg/programmes/currentstudents/undergraduate/undergraduatefull-time/pages/courseinformation.aspx>
- http://coe.ntu.edu.sg/programmes/prospectivestudents/ps_undergrad/ps_programmes/pages/engbizmajor.aspx