

**B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME**  
(Poly Direct Admission to EEE2 in AY2014-2015 - Industrial Orientation)

**AU REQUIREMENT TABLE**

STUDY YEAR	MAJOR REQUIREMENTS		GENERAL EDUCATION REQUIREMENTS (GER)					TOTAL
	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)	GER-CORE (GC)	GER PRESCRIBED ELECTIVE (GP) *			UNRESTRICTED ELECTIVES (UE)	
				LIBERAL ARTS (LA)	SCIENCE, TECH. & SOCIETY (STS)	BUSINESS & MGMT (BM)		
2	34		2					36
3	26	6	5					37
4	8	13	3					24
ANY YEAR						3	6	9
<b>TOTAL</b>	<b>68</b>	<b>19</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>6</b>	<b>106</b>

\* EE3179 (IA) may be taken in either Semester 1 or 2. Students opting for EE3179, instead of EE3176 (IO), will have the additional 4-AU offset from the GER-UE course category.

**CURRICULUM STRUCTURE**

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE^
		LEC	TUT	LAB	TOTAL			
<b>EEE YEAR 2 – SEMESTER 1</b>								
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	E2001L	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
MH2810 MATHEMATICS A	C	3	1	0	4	4		
PH1012 PHYSICS A	C	3	1	0	4	4		
HW0210 TECHNICAL COMMUNICATION	GC	1	1	0	2	2		
<b>TOTAL</b>		13	5	0	18	18		
<b>EEE YEAR 2 – SEMESTER 2</b>								
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	C	3	1	0	4	4		PH1011 / PH1012
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	E2002L	EE2001
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		MH2810
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	E2010L	MH2810
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2		
<b>TOTAL</b>		12.5	4.5	3	20	18		
<b>EEE YEAR 3 – SEMESTER 1</b>								
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4		MH2810
EE2008 DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L	
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	EE2007^
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2		
HW0310 PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2		
<b>TOTAL</b>		13.5	5	6	24	20		
<b>EEE YEAR 3 – SEMESTER 2</b>								
EE3002 MICROPROCESSORS	C	3	1	0	4	4	E3002L	
EE3XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		REFER TO WEBSITE
EE3XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
EE0001 IMPACT OF ELECTROMAGNETIC RADIATION ON HUMANS	GC	2	1	0	3	3		
UNRESTRICTED ELECTIVE 1	UE	3	0	0	2	3		
<b>TOTAL</b>		12	4	0	15	16		
<b>EEE YEAR 3 – SPECIAL TERM (MAY – JULY)</b>								
EE3176 INDUSTRIAL ORIENTATION	C	10 WEEKS, FULL-TIME				4		

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE^
		LEC	TUT	LAB	TOTAL			
<b>EEE YEAR 4 – SEMESTER 1</b>								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE4XXX DESIGN ELECTIVE 1	P	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		
EE4XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
GER PRESCRIBED ELECTIVE	GP	2	1	0	3	3		
TOTAL		7	3	15	25	15		
<b>EEE YEAR 4 – SEMESTER 2</b>								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE4XXX DESIGN ELECTIVE 2	P	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 3	P	2	1	0	3	3		
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3		YEAR 4 CLASSIFICATION
UNRESTRICTED ELECTIVE 2	UE	2	1	0	3	3		
TOTAL		6	3	15	24	15		
<b>TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION</b>								<b>106</b>

WEBSITE REFERENCE:

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

**B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME**  
(Poly Direct Admission to EEE2 in AY2014-2015 - Industrial Attachment)

**CURRICULUM STRUCTURE**

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE <sup>A</sup>
		LEC	TUT	LAB	TOTAL			
<b>EEE YEAR 2 – SEMESTER 1</b>								
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	E2001L	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
MH2810 MATHEMATICS A	C	3	1	0	4	4		
PH1012 PHYSICS A	C	3	1	0	4	4		
HW0210 TECHNICAL COMMUNICATION	GC	1	1	0	2	2		
TOTAL		13	5	0	18	18		
<b>EEE YEAR 2 – SEMESTER 2</b>								
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	C	3	1	0	4	4		PH1011 / PH1012
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	E2002L	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		MH2810
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	E2010L	MH2810
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2		
GER PRESCRIBED ELECTIVE	GP	2	1	0	3	3		
TOTAL		14.5	5.5	3	23	21		
<b>EEE YEAR 3 – SEMESTER 1</b>								
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4		MH2810
EE2008 DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L	
EE3XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2		
HW0310 PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2		
UNRESTRICTED ELECTIVE 1	UE	3	0	0	3	2		
TOTAL		15.5	5	6	26	21		
<b>EEE YEAR 3 – SEMESTER 2</b>								
EE3179 INDUSTRIAL ATTACHMENT *	C	-	-	-	-	8		
<b>EEE YEAR 4 – SEMESTER 1</b>								
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	EE2007 <sup>A</sup>
EE3002 MICROPROCESSORS	C	3	1	0	4	4	E3002L	
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE3XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
EE4XXX DESIGN ELECTIVE 1	P	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		
TOTAL		11	4	15	30	20		

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE^
		LEC	TUT	LAB	TOTAL			
<b>EEE YEAR 4 – SEMESTER 2</b>								
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4	REFER TO WEBSITE
EE4XXX	DESIGN ELECTIVE 2	P	1	0	3	4	2	
EE4XXX	TECHNICAL ELECTIVE 2	P	2	1	0	3	3	
EE4XXX	TECHNICAL ELECTIVE 3	P	2	1	0	3	3	
EE0001	IMPACT OF ELECTROMAGNETIC RADIATION ON HUMANS	GC	2	1	0	3	3	
EE0040	ENGINEERS & SOCIETY	GC	2	1	0	3	3	YEAR 4 CLASSIFICATION
TOTAL			9	4	15	28	18	

<b>TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION</b>	<b>106</b>
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