

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME
(Admission to Engineering Year 1 in AY2014-2015)
(ACCELERATED BACHELOR PROGRAMME - BY INVITATION ONLY)

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)		
1	25		4					29
2	34	3	2					39
3	18	8						26
4	4	8	6					18
ANY YEAR				3	3	3	15	24
TOTAL	81	19	12	3	3	3	15	136

CURRICULUM STRUCTURE

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE ^A
		LEC	TUT	LAB	TOTAL			
ENGINEERING YEAR 1 – SEMESTER 1								
FE1008 COMPUTING	C	2	1	1	4	3		
FE1073 AN INTRODUCTION TO ENGINEERING & PRACTICES	C	0	0	0	0	1		
MH1810 MATHEMATICS I	C	2	1	0	3	3		
PH1011 PHYSICS *	C	2	1	0	3	3		H2 PHYSICS
HW0188 ENGLISH COMMUNICATION I	GC	0	2	0	2	2		HW0001
GER-CORE (SUSTAINABILITY)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 1	GP	2	1	0	3	3		
UNRESTRICTED ELECTIVE 1	UE	2	1	0	3	3		
TOTAL		10	7	1	18	19		
* STUDENTS WITHOUT H2 PHYSICS ARE REQUIRED TO READ PH1012 PHYSICS A (4 AUs), INSTEAD OF PH1011.								
EEE 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		
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
GER CORE (ABSOLUTE BASICS FOR CAREER)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 1	GP	2	1	0	3	3		
UNRESTRICTED ELECTIVE 2	UE	2	1	0	3	3		
TOTAL		14	6	3	23	22		
EEE YEAR 2 – SEMESTER 1								
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	E2001L	
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		MH1811
EE2008 DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L	
GER-CORE (ETHICS & ACADEMIC INTEGRITY)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 2	GP	2	1	0	3	3		
UNRESTRICTED ELECTIVE 3	UE	2	1	0	3	3		
TOTAL		16	6	0	22	23		

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE^
		LEC	TUT	LAB	TOTAL			
EEE YEAR 2 – SEMESTER 2								
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	E2002L	EE2001
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		REFER TO WEBSITE
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	EE2007^
EE3XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		REFER TO WEBSITE
GER-CORE (ENTERPRISE & INNOVATION)	GC	0	0	0	0	1		
TOTAL		14.5	5.5	3	23	22		
EEE YEAR 3 – SEMESTER 1								
EE3002 MICROPROCESSORS	C	3	1	0	4	4	E3002L	
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6.5	2		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		
UNRESTRICTED ELECTIVE 4	UE	2	1	0	3	3		
UNRESTRICTED ELECTIVE 5	UE	2	1	0	3	3		
TOTAL		12.5	5	9	26.5	20		
EEE YEAR 3 – SEMESTER 2								
EE3179 PROFESSIONAL INTERNSHIP	C	20-WEEKS (FULL-TIME)				8		
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
TOTAL		9	6	15	30	12		
EEE YEAR 4 – SEMESTER 1								
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		
EE4XXX TECHNICAL ELECTIVE 2	P	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
GER CORE (CAREER POWER UP)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 4	GP	2	1	0	3	3		
TOTAL		9	6	15	30	21		
TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION								136

WEBSITE REFERENCE:

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