

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) & M.SC INTEGRATED PROGRAMME
(Admission to Year 1 from AY2014-2015)

AU REQUIREMENT TABLE (Professional Internship)

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	3					40
3	18	5	5					28
4	4	11						15
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^
		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 ENGINEERING COMMUNICATION I	GC	0	2	0	2	2		HW0001
GC0001 INTRODUCTION TO SUSTAINABILITY: MULTIDISCIPLINARY APPROACHES AND SOLUTIONS (ONLINE)	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		
EE2008 DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L	
ML0001 ABSOLUTE BASICS FOR CAREER (ONLINE)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 2	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	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		MH1811
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002
HW0288 ENGINEERING COMMUNICATION II	GC	0	2	0	2	2		HW0188
HY0001 ETHICS AND MORAL REASONING (ONLINE)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 3	GP	2	1	0	3	3		
TOTAL		14	7	0	21	22		

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		
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	EE2007^
EE3XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		REFER TO WEBSITE
TOTAL		14.5	5.5	3	23	21		
EEE YEAR 3 – SEMESTER 1								
EE3179 PROFESSIONAL INTERNSHIP	C	20 WEEKS, FULL-TIME				8		REFER TO WEBSITE
ML0002 CAREER POWER-UP (ONLINE)	GC	0	0	0	0	1		
TOTAL		-	-	-	-	9		
EEE YEAR 3 – SEMESTER 2								
EE3002 MICROPROCESSORS	C	3	1	0	4	4	E3002L	
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6.5	2		REFER TO WEBSITE
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		
EE3XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
EE4XXX DESIGN ELECTIVE 1	P	1	0	3	4	2		
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3		YEAR 4 CLASSIFICATION
ET0001 ENTERPRISE AND INNOVATION (ONLINE)	GC	0	0	0	0	1		
UNRESTRICTED ELECTIVE 3	UE	2	0	0	2	3		
TOTAL		10.5	3	21	34.5	22		
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 1	P	2	1	0	3	3		
EE4XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
EE4XXX TECHNICAL ELECTIVE 3	P	2	1	0	3	3		
UNRESTRICTED ELECTIVE 4	UE	2	0	0	2	3		
UNRESTRICTED ELECTIVE 5	UE	2	1	0	3	3		
TOTAL		11	4	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>

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) & M.SC INTEGRATED PROGRAMME
(Admission to Year 1 from AY2014-2015)

AU REQUIREMENT TABLE (Professional Attachment)

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	21		4					25
2	34		3					37
3	18	11	5					34
4	4	8						12
ANY YEAR				3	3	3	19	28
TOTAL	77	19	12	3	3	3	19	136

CURRICULUM STRUCTURE

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE^
		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 ENGINEERING COMMUNICATION I	GC	0	2	0	2	2		HW0001
GC0001 INTRODUCTION TO SUSTAINABILITY: MULTIDISCIPLINARY APPROACHES AND SOLUTIONS (ONLINE)	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		
ML0001 ABSOLUTE BASICS FOR CAREER (ONLINE)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 2	GP	2	1	0	3	3		
UNRESTRICTED ELECTIVE 2	UE	2	1	0	3	3		
TOTAL		11	5	3	19	18		
EEE 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	
HW0288 ENGINEERING COMMUNICATION II	GC	0	2	0	2	2		HW0188
HY0001 ETHICS AND MORAL REASONING (ONLINE)	GC	0	0	0	0	1		
GER PRESCRIBED ELECTIVE 3	GP	2	1	0	3	3		
TOTAL		14	7	0	21	22		

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
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		
TOTAL			12.5	4.5	3	20	18		
EEE 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	6.5	2		REFER TO WEBSITE
EE3XXX	TECHNICAL ELECTIVE 1	P	2	1	0	3	3		
EE3XXX	TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
ML0002	CAREER POWER-UP (ONLINE)	GC	0	0	0	0	1		
TOTAL			10.5	4	6	20.5	17		
EEE YEAR 3 – SEMESTER 2									
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		
EE0040	ENGINEERS & SOCIETY	GC	2	1	0	3	3		YEAR 4 CLASSIFICATION
ET0001	ENTERPRISE AND INNOVATION (ONLINE)	GC	0	0	0	0	1		
UNRESTRICTED ELECTIVE 4		UE	3	1	0	4	4		
TOTAL			8	3	15	26	17		
EEE YEAR 3 – SEMESTER TERM									
EE3176	PROFESSIONAL ATTACHMENT	C	10 WEEKS, FULL-TIME				4		REFER TO WEBSITE
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 2	P	2	1	0	3	3		
EE4XXX	TECHNICAL ELECTIVE 3	P	2	1	0	3	3		
UNRESTRICTED ELECTIVE 5		UE	2	0	0	2	3		
UNRESTRICTED ELECTIVE 6		UE	2	1	0	3	3		
TOTAL			9	3	15	27	18		
TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION								136	

Website Reference:

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