

# B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME

## (POLY DIRECTLY-ADMITTED TO EEE2 IN AY2011-2012)

**AU REQUIREMENT TABLE**

COURSE TYPE		AU REQUIRED	
		ECAL/ENIC	INON
CORE COURSES		86	89
MAJOR PRESCRIBED ELECTIVES		25	22
GER-PE REQUIREMENT	GER-PE - AHSS	3	3
	GER-PE – BM/STS	3	3
UNRESTRICTED ELECTIVES		0	0
<b>TOTAL</b>		<b>117</b>	<b>117</b>

### CURRICULUM STRUCTURE

COURSE CODE AND TITLE		TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE/ CO-REQUISITE <sup>A</sup>
			LEC	TUT	LAB	TOTAL		
<b>YEAR 2 SEMESTER 1</b>								
EE2001	CIRCUIT ANALYSIS	C	2	1	0	3	3	
EE2004	DIGITAL ELECTRONICS	C	2	1	0	3	3	
EE2008	DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
EE2071	LABORATORY 2A	C	0	0	3	3	1	
EE2090	BASIC ENGINEERING MATHEMATICS	C	2	1	0	3	3	
FE1012	PHYSICS A	C	3	1	0	4	4	
HW0210	TECHNICAL COMMUNICATION	C	0	2	0	2	2	
<b>TOTAL</b>		-	11	7	3	21	19	
<b>YEAR 2 SEMESTER 2</b>								
EE1002	PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGINEERING	C	3	1	0	4	4	FE1012
EE2002	ANALOG ELECTRONICS	C	2	1	0	3	3	
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	2	1	0	3	3	
EE2005	AC CIRCUITS & MACHINES	C	2	1	0	3	3	EE2001
EE2006	ENGINEERING MATHEMATICS I	C	3	1	0	4	4	
EE2010	SIGNALS & SYSTEMS	C	2	1	0	3	3	
EE2072	LABORATORY 2B	C	0	0	3	3	1	
EE2079	DESIGN & INNOVATION PROJECT	C	0	0	40	40	3	
<b>TOTAL</b>		-	14	6	43	63	24	
<b>YEAR 3 SEMESTER 1</b>								
EE2007	ENGINEERING MATHEMATICS II	C	3	1	0	4	4	
EE3001	ENGINEERING ELECTROMAGNETICS	C	2	1	0	3	3	EE2007 <sup>A</sup>
EE3002	MICROPROCESSORS	C	2	1	0	3	3	
EE3003	INTEGRATED ELECTRONICS	C	2	1	0	3	3	EE2002
EE3071	LABORATORY 3	C	0	0	3	3	1	
EE3072	PROJECT	C	0	0	3	3	1	
EE3xxx	ELECTIVE 1	PE	2	1	0	3	3	
EE3xxx	ELECTIVE 2	PE	2	1	0	3	3	
<b>TOTAL</b>		-	13	6	6	25	21	
<b>EE3xxx ELECTIVES (Choose 2)</b> EE3011 MODELLING AND CONTROL EE3012 COMMUNICATION PRINCIPLES EE3013 SEMICONDUCTOR DEVICES AND PROCESSING EE3014 DIGITAL SIGNAL PROCESSING EE3015 POWER SYSTEMS AND CONVERSION EE3017 COMPUTER COMMUNICATION EE3018 INTRODUCTION TO PHOTONICS								<b>PRE-REQUISITE</b> EE2006 EE2010 EE2003 EE2010 EE2005 - -

**LEGEND :** C = CORE COURSE ; PE = MAJOR PRESCRIBED ELECTIVE ; GE = GER-PREScribed ELECTIVE



COURSE CODE AND TITLE		TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE/ CO-REQUISITE <sup>A</sup>
			LEC	TUT	LAB	TOTAL		
<b>YEAR 3 SEMESTER 2</b>								
EE3079	INDUSTRIAL ATTACHMENT <sup>+</sup> (24 WEEKS FT)	C	0	0	40	40	10	EEE 3 CLASS.
<b>FOR ELECTRICAL &amp; SYSTEMS OPTION GROUP STUDENTS &amp; ELECTRONIC ENGINEERING OPTION GROUP STUDENTS</b>								
<b>YEAR 4 SEMESTER 1</b>								
EE4079	FINAL YEAR PROJECT <sup>++</sup>	C	0	0	8	8	#	EEE 4 CLASSIFICATION
EE4041	HUMAN RESOURCE MANAGEMENT	C	2	1	0	3	3	
HW0310	PROFESSIONAL COMMUNICATION	C	1	1	0	2	2	
EE4xxx	DESIGN ELECTIVE 1	PE	1	0	2	3	2	REFER TO <sup>+++</sup>
EE4xxx	TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	
EE4xxx	TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	
	GER-PREScribed ELECTIVE [AHSS/BM/STS]	GE	2	1	0	3	3	
	TOTAL	-	10	5	10	25	16	
<b>YEAR 4 SEMESTER 2</b>								
EE4079	FINAL YEAR PROJECT <sup>++</sup>	C	0	0	8	8	10	EEE 4 CLASSIFICATION
EE4040	ENGINEERS & SOCIETY	C	2	1	0	3	3	
EE4xxx	DESIGN ELECTIVE 2	PE	1	0	2	3	2	REFER TO <sup>+++</sup>
EE4xxx	TECHNICAL ELECTIVE 3	PE	2	1	0	3	3	
EE4xxx	TECHNICAL ELECTIVE 4	PE	2	1	0	3	3	
EE4xxx	TECHNICAL ELECTIVE 5	PE	2	1	0	3	3	
	GER-PREScribed ELECTIVE [AHSS/BM/STS]	GE	2	1	0	3	3	
	TOTAL	-	11	5	10	26	27	
<b>FOR INFOCOMMUNICATION ENGINEERING OPTION GROUP STUDENTS</b>								
<b>YEAR 4 SEMESTER 1</b>								
EE4001	SOFTWARE ENGINEERING	C	2	1	0	3	3	EEE 4 CLASSIFICATION
EE4079	FINAL YEAR PROJECT	C	0	0	8	8	#	
EE4041	HUMAN RESOURCE MANAGEMENT	C	2	1	0	3	3	
HW0310	PROFESSIONAL COMMUNICATION	C	1	1	0	2	2	REFER TO <sup>+++</sup>
EE4xxx	DESIGN ELECTIVE 1	PE	1	0	2	3	2	
EE4xxx	TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	
	GER-PREScribed ELECTIVE [AHSS/BM/STS]	GE	2	1	0	3	3	
	TOTAL	-	10	5	10	25	16	
<b>YEAR 4 SEMESTER 2</b>								
EE4079	FINAL YEAR PROJECT	C	0	0	8	8	10	EEE 4 CLASSIFICATION
EE4040	ENGINEERS & SOCIETY	C	2	1	0	3	3	
EE4xxx	DESIGN ELECTIVE 2	PE	1	0	2	3	2	REFER TO <sup>+++</sup>
EE4xxx	TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	
EE4xxx	TECHNICAL ELECTIVE 3	PE	2	1	0	3	3	
EE4xxx	TECHNICAL ELECTIVE 4	PE	2	1	0	3	3	
	GER-PREScribed ELECTIVE [AHSS/BM/STS]	GE	2	1	0	3	3	
	TOTAL	-	11	5	10	26	27	
<b>TOTAL ACADEMIC UNITS FOR GRADUATION</b>								<b>117</b>

**REFERENCES:**

- + <http://www.eee.ntu.edu.sg/currentstudents/undergraduate/bengfulltime/documents/attachments.pdf>  
++ <http://www.eee.ntu.edu.sg/currentstudents/undergraduate/bengfulltime/pages/fyp.aspx>  
+++ [http://www.eee.ntu.edu.sg/currentstudents/undergraduate/bengfulltime/pages/fy\\_option.aspx](http://www.eee.ntu.edu.sg/currentstudents/undergraduate/bengfulltime/pages/fy_option.aspx)

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