

**B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME**  
(POLY DIRECTLY-ADMITTED TO EEE2 FROM AY2013-2014 WITH INDUSTRIAL ORIENTATION)

**AU REQUIREMENT TABLE**

COURSE TYPE		AU REQUIRED
CORE COURSES		69
MAJOR PRESCRIBED ELECTIVES		19
GER CORE		10
GER ELECTIVE	ARTS, HUMANITIES & SOCIAL SCIENCES [AHSS]	0
	BUSINESS & MANAGEMENT [BM]	3
	SCIENCE, TECHNOLOGY & SOCIETY [STS]	0
	LIBERAL STUDIES [LS]	0
	Any Category (AHSS, BM, STS or LS)	0
UNRESTRICTED ELECTIVES		6*
<b>TOTAL</b>		<b>107</b>

\* EE3179 is taken in Semester 2. Those taking EE3179 (instead of EE3176) will have the additional 4 AUs counted in the GER-UE category.

**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>EEE YEAR 2 SEMESTER 1</b>								
EE2001	CIRCUIT ANALYSIS	C	3	1	0	4	4	
EE2004	DIGITAL ELECTRONICS	C	3	1	0	4	4	
EE2071	LABORATORY 2A	C	0	0	3	3	1	
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	3	21	19	
<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	EE2001
EE2006	ENGINEERING MATHEMATICS I	C	3	1	0	4	4	MH2810
EE2010	SIGNALS AND SYSTEMS	C	3	1	0	4	4	MH2810
EE2072	LABORATORY 2B	C	0	0	3	3	1	
EE2073	INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2	
TOTAL			12.5	4.5	6	23	19	
<b>EEE YEAR 3 SEMESTER 1</b>								
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	EE1002
EE2007	ENGINEERING MATHEMATICS II	C	3	1	0	4	4	MH2810
EE2008	DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
EE3001	ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	# EE2007 <sup>A</sup>
EE3080	DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2	YEAR 3 STANDING
TOTAL			11.5	4	6	21	17	

COURSE CODE AND TITLE	TYPE*	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE^
		LEC	TUT	LAB	TOTAL		
<b>EEE YEAR 3 SEMESTER 2</b>							
EE3002 MICROPROCESSORS	C	3	1	0	4	4	#
EE3XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3	#
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	
TOTAL		11	4	0	16	16	
<b>EEE YEAR 3 SPECIAL SEMESTER</b>							
EE3176 INDUSTRIAL ORIENTATION	C	-	-	-	-	4	YEAR 3 STANDING
<b>EEE YEAR 4 SEMESTER 1</b>							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
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 ELECTIVE	BM	2	1	0	3	3	
UNRESTRICTED ELECTIVE 2	UE	2	1	0	3	3	
TOTAL		9	4	15	28	18	
<b>EEE YEAR 4 SEMESTER 2</b>							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
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	
HW0310 PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2	
TOTAL		6	3	15	24	14	
<b>TOTAL ACADEMIC UNITS FOR GRADUATION</b>						<b>108</b>	

**NOTE:**

COURSES MARKED WITH '#' HAVE LABORATORY COMPONENTS. STUDENTS MUST REGISTER FOR ITS CORRESPONDING LAB SESSION.  
E.G. LAB FOR EE3001 = E3001L ; LAB FOR EE3002 = E3002L.

**B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME**  
(POLY DIRECTLY-ADMITTED TO EEE2 FROM AY2013-2014 WITH INDUSTRIAL ATTACHMENT)

**CURRICULUM STRUCTURE**

COURSE CODE AND TITLE	TYPE*	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE^
		LEC	TUT	LAB	TOTAL		
<b>EEE YEAR 2 SEMESTER 1</b>							
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	
EE2071 LABORATORY 2A	C	0	0	3	3	1	
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	3	21	19	
<b>EEE YEAR 2 SEMESTER 2</b>							
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGINEERING	C	3	1	0	4	4	PH1011 / PH1012
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4	MH2810
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	MH2810
EE2072 LABORATORY 2B	C	0	0	3	3	1	
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2	
<b>TOTAL</b>		12.5	4.5	6	23	19	
<b>EEE YEAR 3 SEMESTER 1</b>							
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	EE1002
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4	MH2810
EE2008 DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	# EE2007^
EE3XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3	#
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2	YEAR 3 STANDING
<b>TOTAL</b>		14.5	5	6	25	21	
<b>EEE YEAR 3 SEMESTER 2</b>							
EE3179 INDUSTRIAL ATTACHMENT *	C	-	-	-	-	8	YEAR 3 STANDING
<b>EEE YEAR 4 SEMESTER 1</b>							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE3002 MICROPROCESSORS	C	3	1	0	4	4	#
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	
GER ELECTIVE	BM	2	1	0	3	3	
UNRESTRICTED ELECTIVE 1	UE	3	0	0	2	3	
<b>TOTAL</b>		11	4	15	30	21	

COURSE CODE AND TITLE	TYPE*	NO. OF HOURS PER WEEK				AU	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	YEAR 4 STANDING
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	
HW0310	PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2	
<b>TOTAL</b>			<b>10</b>	<b>5</b>	<b>15</b>	<b>30</b>	<b>20</b>	

**TOTAL ACADEMIC UNITS FOR GRADUATION**

**107**

**NOTE:**

COURSES MARKED WITH '#' HAVE LABORATORY COMPONENTS. STUDENTS MUST REGISTER FOR ITS CORRESPONDING LAB SESSION.  
E.G. LAB FOR EE3001 = **E3001L**; LAB FOR EE3002 = **E3002L**.