

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME
(ADMITTED TO ENGINEERING 1 FROM AY2011-2012 WITH INDUSTRIAL ORIENTATION)

AU REQUIREMENT TABLE

COURSE TYPE		AU REQUIRED
CORE COURSES		77
MAJOR PRESCRIBED ELECTIVES		19
GER CORE		12
GER-PE REQUIREMENT	GER-PE - AHSS	3
	GER-PE - BM	3
	GER-PE - STS	3
	GER-PE - LS	3
	Any Category (AHSS, BM, STS or LS)	3
UNRESTRICTED ELECTIVES		15
TOTAL		138

* EE3179 is taken in Semester 2. Those taking EE3179 (instead of EE3076) 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^
		LEC	TUT	LAB	TOTAL		
ENG YEAR 1 SEMESTER 1 [COMMON ENGINEERING]							
MH1810 MATHEMATICS I	C	2	1	0	3	3	
FE1008 COMPUTING	C	2	1	1	4	3	
PH1011 PHYSICS *	C	2	1	0	3	3	H2 PHYSICS
FE1073 AN INTRODUCTION TO ENGINEERING & PRACTICES	C	-	-	-	-	1	[9 HRS LECT+6 LABS]
HW0110 EFFECTIVE COMMUNICATION	GC	1	1	0	2	2	
HUMANITIES & SOCIAL SCIENCES [AHSS]	GE	2	1	0	3	3	
TOTAL		9	5	1	15	15	
* STUDENTS WITHOUT H2 PHYSICS ARE REQUIRED TO READ FE1012 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	FE1011/FE1012
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3	
MH1811 MATHEMATICS 2	C	2	1	0	3	3	
UNRESTRICTED ELECTIVE 1	UE	2	1	0	3	3	
UNRESTRICTED ELECTIVE 2	UE	2	1	0	3	3	
TOTAL		11	5	0	16	16	
EEE YEAR 2 SEMESTER 1							
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4	FE1007
EE2008 DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
EE2071 LABORATORY 2A	C	0	0	3	3	1	
HW0210 TECHNICAL COMMUNICATION	GC	1	1	0	2	2	
TOTAL		12	5	3	20	18	

COURSE CODE AND TITLE	TYPE*	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE/ CO-REQUISITE ^A	
		LEC	TUT	LAB	TOTAL			
EEE YEAR 2 SEMESTER 2								
EE2002	ANALOG ELECTRONICS	C	3	1	0	4	4	
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	EE1002
EE2007	ENGINEERING MATHEMATICS II	C	3	1	0	4	4	FE1007
EE2010	SIGNALS AND SYSTEMS	C	3	1	0	4	4	FE1006 & FE1007
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	
EEE YEAR 3 SEMESTER 1								
EE3001	ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	# EE2007
EE3002	MICROPROCESSORS	C	3	1	0	4	4	#
EE3080	DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2	YEAR 3 STANDING
EE3XXX	TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	#
UNRESTRICTED ELECTIVE 3		UE	2	1	0	3	3	
TOTAL			10.5	4	6	20	16	
EEE YEAR 3 SEMESTER 2								
EE3XXX	TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	#
EE0001	IMPACT OF ELECTROMAGNETIC RADIATION ON HUMANS	GC	2	1	0	3	3	
SCIENCE, TECHNOLOGY & SOCIETY [STS]		GE	2	1	0	3	3	
GER ELECTIVE		GE	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	6	0	18	18	
EEE YEAR 3 SPECIAL SEMESTER								
EE3076	INDUSTRIAL ORIENTATION	C	-	-	-	-	4	YEAR 3 STANDING
EEE YEAR 4 SEMESTER 1								
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE4XXX	DESIGN ELECTIVE 1	PE	1	0	3	4	2	
EE4XXX	TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	
EE4XXX	TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	
BUSINESS & MANAGEMENT [BM]		GE	2	1	0	3	3	
TOTAL			7	3	15	25	15	
EEE YEAR 4 SEMESTER 2								
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE4XXX	DESIGN ELECTIVE 2	PE	1	0	3	4	2	
EE4XXX	TECHNICAL ELECTIVE 3	PE	2	1	0	3	3	
EE0040	ENGINEERS & SOCIETY	GC	2	1	0	3	3	
HW0310	PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2	
LIBERAL STUDIES [LS]		GE	2	1	0	3	3	
TOTAL			8	4	15	27	17	
TOTAL ACADEMIC UNITS FOR GRADUATION							138	

CHANGE IN COURSE CODES WEF AY2012 SEM 1
• FE1006 = MH1810
• FE1007 = MH1811
• FE1011 = PH1011

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(ADMITTED TO ENGINEERING 1 FROM AY2011-2012 WITH INDUSTRIAL ATTACHMENT)

CURRICULUM STRUCTURE

COURSE CODE AND TITLE	TYPE*	NUMBER OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE [^]
		LEC	TUT	LAB	TOTAL		
ENG YEAR 1 SEMESTER 1 [COMMON ENGINEERING]							
MH1810 MATHEMATICS I	C	2	1	0	3	3	
FE1008 COMPUTING	C	2	1	1	4	3	
PH1011 PHYSICS *	C	2	1	0	3	3	H2 PHYSICS
FE1073 AN INTRODUCTION TO ENGINEERING & PRACTICES	C	-	-	-	-	1	[9 HRS LECT+ 6 LABS]
HW0110 EFFECTIVE COMMUNICATION	GC	1	1	0	2	2	
HUMANITIES & SOCIAL SCIENCES [AHSS]	GE	2	1	0	3	3	
TOTAL		9	5	1	15	15	
* STUDENTS WITHOUT H2 PHYSICS ARE REQUIRED TO READ FE1012 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	FE1011/FE1012
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3	
MH1811 MATHEMATICS 2	C	2	1	0	3	3	
SCIENCE, TECHNOLOGY & SOCIETY [STS]	GE	2	1	0	3	3	
UNRESTRICTED ELECTIVE 1	UE	2	1	0	3	3	
UNRESTRICTED ELECTIVE 2	UE	2	1	0	3	3	
TOTAL		13	6	0	19	19	
EEE YEAR 2 SEMESTER 1							
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4	FE1007
EE2008 DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
EE2071 LABORATORY 2A	C	0	0	3	3	1	
HW0210 TECHNICAL COMMUNICATION	GC	1	1	0	2	2	
UNRESTRICTED ELECTIVE 3	UE	2	1	0	3	3	
TOTAL		14	6	3	23	21	
EEE YEAR 2 SEMESTER 2							
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	EE1002
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4	FE1007
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	FE1006 & FE1007
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	

COURSE CODE AND TITLE	TYPE*	NUMBER OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE^	
		LEC	TUT	LAB	TOTAL			
EEE YEAR 3 SEMESTER 1								
EE3001	ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	# EE2007
EE3002	MICROPROCESSORS	C	3	1	0	4	4	#
EE3080	DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2	YEAR 3 STANDING
EE0001	IMPACT OF ELECTROMAGNETIC RADIATION ON HUMANS	GC	2	1	0	3	3	
EE3XXX	TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	#
EE3XXX	TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	#
TOTAL			12.5	5	6	23	19	
EEE YEAR 3 SEMESTER 2								
EE3179	INDUSTRIAL ATTACHMENT	C	-	-	-	-	8	YEAR 3 STANDING
EEE YEAR 4 SEMESTER 1								
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
HW0310	PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2	
EE4XXX	DESIGN ELECTIVE 1	PE	1	0	3	4	2	
EE4XXX	TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	
EE4XXX	TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	
BUSINESS & MANAGEMENT [BM]		GE	2	1	0	3	3	
UNRESTRICTED ELECTIVE 4		UE	2	0	0	2	2	
TOTAL			10	4	15	29	19	
EEE YEAR 4 SEMESTER 2								
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE0040	ENGINEERS & SOCIETY	GC	2	1	0	3	3	
EE4XXX	DESIGN ELECTIVE 2	PE	1	0	3	4	2	
EE4XXX	TECHNICAL ELECTIVE 3	PE	2	1	0	3	3	
LIBERAL STUDIES [LS]		GE	2	1	0	3	3	
GER ELECTIVE		GE	2	1	0	3	3	
TOTAL			9	4	15	28	18	
TOTAL ACADEMIC UNITS FOR GRADUATION							138	

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