

COURSE CURRICULUM

PROGRAMME
STUDENT TYPE

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME (FULL TIME)
ENGINEERING YEAR 1 / AY2009 ONWARDS

AU REQUIREMENT TABLE

COURSE TYPE	ECAL / ENIC	INON
	AU REQUIRED	AU REQUIRED
CORE COURSES	105	108
MAJOR PRESCRIBED ELECTIVES	25	22
GER-PE [ARTS, HUMANITIES & SOCIAL SCIENCES]	9	9
GER-PE [BUSINESS & MANAGEMENT]	3	3
GER-PE [SCIENCE, TECHNOLOGY & SOCIETY]	3	3
UNRESTRICTED ELECTIVES	9	9
TOTAL	154	154

COURSE CODE AND TITLE	TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE^
		LEC	TUT	LAB	TOTAL		
YEAR 1 SEMESTER 1							
FE1002 PHYSICS II	C	3	1	-	4	4	'A' LEVEL PHYSICS/FE0001
FE1003 CHEMISTRY	C	2	1	-	3	3	
FE1006 MATHEMATICS 1	C	2	1	-	3	3	
FE1008 COMPUTING	C	2	1	1	4	3	
FE1071 LABORATORY 1A	C	-	-	3	3	1	
HW110 EFFECTIVE COMMUNICATION	C	-	2	-	2	2	
GER-PRESCRIBED ELECTIVE 1	P	2	1	-	3	3	
TOTAL		11	7	4	22	19	
YEAR 1 SEMESTER 2							
BS1004 LIFE SCIENCES	C	2	1	-	3	3	
FE1001 PHYSICS I	C	3	1	-	4	4	'A' LEVEL PHYSICS/FE0001
FE1005 MATERIALS SCIENCE	C	2	1	-	3	3	
FE1007 MATHEMATICS 2	C	2	1	-	3	3	
FE1072 LABORATORY 1B	C	-	-	3	1	1	
GER-PRESCRIBED ELECTIVE 2	P	2	1	-	3	3	
GER-UNRESTRICTED ELECTIVE 1	G	2	1	-	3	3	
TOTAL		13	6	3	20	20	
YEAR 2 SEMESTER 1							
EE2001 CIRCUIT ANALYSIS	C	2	1	-	3	3	
EE2004 DIGITAL ELECTRONICS	C	2	1	-	3	3	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	-	4	4	FE1007
EE2008 DATA STRUCTURES & ALGORITHMS	C	2	1	-	3	3	
EE2071 LABORATORY 2A	C	-	-	3	3	1	
HW210 TECHNICAL COMMUNICATION	C	-	2	-	2	2	
GER-PRESCRIBED ELECTIVE 3	P	2	1	-	3	3	
GER-UNRESTRICTED ELECTIVE 2	G	2	1	-	3	3	
TOTAL		13	8	3	24	22	

COURSE CURRICULUM

COURSE CODE AND TITLE		TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE [^]	
			LEC	TUT	LAB	TOTAL			
YEAR 2 SEMESTER 2									
EE2002	ANALOG ELECTRONICS	C	2	1	-	3	3		
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	2	1	-	3	3	FE1002	
EE2005	AC CIRCUITS & MACHINES	C	2	1	-	3	3	EE2001	
EE2007	ENGINEERING MATHEMATICS II	C	3	1	-	4	4	FE1007	
EE2010	SIGNALS & SYSTEMS	C	2	1	-	3	3	FE1006 & FE1007	
EE2072	LABORATORY 2B	C	-	-	3	3	1		
EE2079	DESIGN & INNOVATION PROJECT	C	-	-	6	6	3		
GER-UNRESTRICTED ELECTIVE 3		G	2	1	-	3	3		
TOTAL			13	6	9	28	23		
YEAR 3 SEMESTER 1									
EE3001	ENGINEERING ELECTROMAGNETICS	C	2	1	-	3	3	EE2007 [^]	
EE3002	MICROPROCESSORS	C	2	1	-	3	3		
EE3003	INTEGRATED ELECTRONICS	C	2	1	-	3	3	EE2002	
EE3071	LABORATORY 3	C	-	-	3	3	1		
EE3072	PROJECT	C	-	-	3	3	1		
EE3xxx	PRE-SPECIALISED ELECTIVE 1	P	2	1	-	3	3	FOOTNOTE ¹	
EE3xxx	PRE-SPECIALISED ELECTIVE 2	P	2	1	-	3	3		
GER-PRESCRIBED ELECTIVE 4		P	2	1	-	3	3		
TOTAL			12	6	6	24	20		
YEAR 3 SEMESTER 2									
EE3079	INDUSTRIAL ATTACHMENT	(22 WEEKS, FT)	C	-	-	40	40	10	FOOTNOTE ²
FOR ELECTRICAL & SYSTEMS OPTION (ECAL) STUDENTS & ELECTRONIC ENGINEERING OPTION (ENIC) STUDENTS									
YEAR 4 SEMESTER 1									
EE4041	HUMAN RESOURCE MANAGEMENT	C	2	1	-	3	3		
EE4079	FINAL YEAR PROJECT	C	-	-	8	8	#	FOOTNOTE ³	
HW310	PROFESSIONAL COMMUNICATION	C	1	1	-	2	2	HW110	
EE4xxx	DESIGN ELECTIVE 1	P	1	-	2	3	2	FOOTNOTE ⁴	
EE4xxx	TECHNICAL ELECTIVE 1	P	2	1	-	3	3		
EE4xxx	TECHNICAL ELECTIVE 2	P	2	1	-	3	3		
GER-PRESCRIBED ELECTIVE 5		P	2	1	-	3	3		
TOTAL			10	5	10	25	16		
YEAR 4 SEMESTER 2									
EE4040	ENGINEERS & SOCIETY	C	2	1	-	3	3		
EE4079	FINAL YEAR PROJECT	C	-	-	8	8	10		
EE4xxx	DESIGN ELECTIVE 2	P	1	-	2	3	2	FOOTNOTE ⁴	
EE4xxx	TECHNICAL ELECTIVE 3	P	2	1	-	3	3		
EE4xxx	TECHNICAL ELECTIVE 4	P	2	1	-	3	3		
EE4xxx	TECHNICAL ELECTIVE 5	P	2	1	-	3	3		
TOTAL			9	4	10	23	24		

¹ [HTTP://WWW.EEE.NTU.EDU.SG/CURRENTSTUDENTS/UNDERGRADUATE/BENGFULLTIME/PAGES/3RDYEARCURRICULUM.ASPX](http://www.eee.ntu.edu.sg/currentstudents/undergraduate/bengfulltime/pages/3rdyearcurriculum.aspx)

² [HTTP://WWW.EEE.NTU.EDU.SG/CURRENTSTUDENTS/UNDERGRADUATE/BENGFULLTIME/DOCUMENTS/ATTACHMENTS.PDF](http://www.eee.ntu.edu.sg/currentstudents/undergraduate/bengfulltime/documents/attachments.pdf)

³ [HTTP://WWW.EEE.NTU.EDU.SG/CURRENTSTUDENTS/UNDERGRADUATE/BENGFULLTIME/PAGES/FYP.ASPX](http://www.eee.ntu.edu.sg/currentstudents/undergraduate/bengfulltime/pages/fyp.aspx)

⁴ [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)

COURSE CURRICULUM

COURSE CODE AND TITLE	TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE [^]	
		LEC	TUT	LAB	TOTAL			
FOR INFOCOMMUNICATION ENGINEERING OPTION (INON) STUDENTS								
YEAR 4 SEMESTER 1								
EE4001	SOFTWARE ENGINEERING	C	2	1	-	3	3	
EE4041	HUMAN RESOURCE MANAGEMENT	C	2	1	-	3	3	
EE4079	FINAL YEAR PROJECT	C	-	-	8	8	#	FOOTNOTE ³
HW310	PROFESSIONAL COMMUNICATION	C	1	1	-	2	2	HW110
EE4xxx	DESIGN ELECTIVE 1	P	1	-	2	3	2	FOOTNOTE ⁴
EE4xxx	TECHNICAL ELECTIVE 1	P	2	1	-	3	3	
	GER-PRESCRIBED ELECTIVE 5	P	2	1	-	3	3	
		TOTAL	10	5	10	25	16	
YEAR 4 SEMESTER 2								
EE4040	ENGINEERS & SOCIETY	C	2	1	-	3	3	
EE4079	FINAL YEAR PROJECT	C	-	-	8	8	10	FOOTNOTE ³
EE4xxx	DESIGN ELECTIVE 2	P	1	-	2	3	2	FOOTNOTE ⁴
EE4xxx	TECHNICAL ELECTIVE 2	P	2	1	-	3	3	
EE4xxx	TECHNICAL ELECTIVE 3	P	2	1	-	3	3	
EE4xxx	TECHNICAL ELECTIVE 4	P	2	1	-	3	3	
		TOTAL	9	4	10	23	24	

LAST UPDATED ON JULY 19, 2010