

COURSE CURRICULUM

PROGRAMME
STUDENT TYPE

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME (FULL TIME)
POLYTECHNIC DIRECT-ENTRY STUDENTS / AY2009 ONWARDS

AU REQUIREMENT TABLE

COURSE TYPE	ECAL / ENIC	INON
	AU REQUIRED	AU REQUIRED
CORE COURSES	85	88
MAJOR PRESCRIBED ELECTIVES	25	22
GER-PE [ARTS, HUMANITIES & SOCIAL SCIENCES]	3	3
GER-PE [BUSINESS & MANAGEMENT]	3	3
GER-PE [SCIENCE, TECHNOLOGY & SOCIETY]		
UNRESTRICTED ELECTIVES	0	0
TOTAL	116	116

COURSE CODE AND TITLE	TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE [^]	
		LEC	TUT	LAB	TOTAL			
YEAR 2 SEMESTER 1								
EE2001	CIRCUIT ANALYSIS	C	2	1	-	3	3	
EE2004	DIGITAL ELECTRONICS	C	2	1	-	3	3	
EE2008	DATA STRUCTURES & ALGORITHMS	C	2	1	-	3	3	
EE2071	LABORATORY 2A	C	-	-	3	3	1	
EE2090	BASIC ENGINEERING MATHEMATICS	C	2	1	-	3	3	
FE0001	FOUNDATION PHYSICS	C	2	1	-	3	3	
HW210	TECHNICAL COMMUNICATION	C	-	2	-	2	2	
TOTAL			10	7	3	20	18	
YEAR 2 SEMESTER 2								
EE2002	ANALOG ELECTRONICS	C	2	1	-	3	3	
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	2	1	-	3	3	
EE2005	AC CIRCUITS & MACHINES	C	2	1	-	3	3	EE2001
EE2006	ENGINEERING MATHEMATICS I	C	3	1	-	4	4	
EE2010	SIGNALS & SYSTEMS	C	2	1	-	3	3	
EE2072	LABORATORY 2B	C	-	-	3	3	1	
EE2079	DESIGN & INNOVATION PROJECT	C	-	-	6	6	3	
EE2091	ENGINEERING PHYSICS	C	3	1	-	4	4	FE0001
TOTAL			14	6	9	29	24	
YEAR 3 SEMESTER 1								
EE2007	ENGINEERING MATHEMATICS II	C	3	1	-	4	4	
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	
TOTAL			13	6	6	25	21	
YEAR 3 SEMESTER 2								
EE3079	INDUSTRIAL ATTACHMENT	C	-	-	40	40	10	FOOTNOTE ²

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)

COURSE CURRICULUM

COURSE CODE AND TITLE	TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE [^]	
		LEC	TUT	LAB	TOTAL			
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	
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 1	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	
	GER-PRESCRIBED ELECTIVE 2	P	2	1	-	3	3	
TOTAL			11	5	10	26	27	
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	
EE4xxx	DESIGN ELECTIVE 1	P	1	-	2	3	2	FOOTNOTE ⁴
EE4xxx	TECHNICAL ELECTIVE 1	P	2	1	-	3	3	
	GER-PRESCRIBED ELECTIVE 1	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 2	P	2	1	-	3	3	
EE4xxx	TECHNICAL ELECTIVE 3	P	2	1	-	3	3	
EE4xxx	TECHNICAL ELECTIVE 4	P	2	1	-	3	3	
	GER-PRESCRIBED ELECTIVE 2	P	2	1	-	3	3	
TOTAL			11	5	10	26	27	

LAST UPDATED ON JULY 19, 2010

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)