

## 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
<b>TOTAL</b>	<b>154</b>	<b>154</b>

COURSE CODE AND TITLE	TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE <sup>^</sup>
		LEC	TUT	LAB	TOTAL		
<b>YEAR 1 SEMESTER 1</b>							
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	
<b>TOTAL</b>		<b>11</b>	<b>7</b>	<b>4</b>	<b>22</b>	<b>19</b>	
<b>YEAR 1 SEMESTER 2</b>							
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	
<b>TOTAL</b>		<b>13</b>	<b>6</b>	<b>3</b>	<b>20</b>	<b>20</b>	
<b>YEAR 2 SEMESTER 1</b>							
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	
<b>TOTAL</b>		<b>13</b>	<b>8</b>	<b>3</b>	<b>24</b>	<b>22</b>	

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COURSE CODE AND TITLE		TYPE	NO. OF HOURS PER WEEK				AU	PRE-REQUISITE / CO-REQUISITE <sup>^</sup>	
			LEC	TUT	LAB	TOTAL			
<b>YEAR 2 SEMESTER 2</b>									
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		
<b>TOTAL</b>			<b>13</b>	<b>6</b>	<b>9</b>	<b>28</b>	<b>23</b>		
<b>YEAR 3 SEMESTER 1</b>									
EE3001	ENGINEERING ELECTROMAGNETICS	C	2	1	-	3	3	EE2007 <sup>^</sup>	
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 <sup>1</sup>	
EE3xxx	PRE-SPECIALISED ELECTIVE 2	P	2	1	-	3	3		
GER-PRESCRIBED ELECTIVE 4		P	2	1	-	3	3		
<b>TOTAL</b>			<b>12</b>	<b>6</b>	<b>6</b>	<b>24</b>	<b>20</b>		
<b>YEAR 3 SEMESTER 2</b>									
EE3079	INDUSTRIAL ATTACHMENT	(22 WEEKS, FT)	C	-	-	40	40	10	FOOTNOTE <sup>2</sup>
FOR ELECTRICAL & SYSTEMS OPTION (ECAL) STUDENTS & ELECTRONIC ENGINEERING OPTION (ENIC) STUDENTS									
<b>YEAR 4 SEMESTER 1</b>									
EE4041	HUMAN RESOURCE MANAGEMENT	C	2	1	-	3	3		
EE4079	FINAL YEAR PROJECT	C	-	-	8	8	#	FOOTNOTE <sup>3</sup>	
HW310	PROFESSIONAL COMMUNICATION	C	1	1	-	2	2	HW110	
EE4xxx	DESIGN ELECTIVE 1	P	1	-	2	3	2	FOOTNOTE <sup>4</sup>	
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		
<b>TOTAL</b>			<b>10</b>	<b>5</b>	<b>10</b>	<b>25</b>	<b>16</b>		
<b>YEAR 4 SEMESTER 2</b>									
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 <sup>4</sup>	
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		
<b>TOTAL</b>			<b>9</b>	<b>4</b>	<b>10</b>	<b>23</b>	<b>24</b>		

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

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

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

<sup>4</sup> [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			
<b>FOR INFOCOMMUNICATION ENGINEERING OPTION (INON) STUDENTS</b>								
<b>YEAR 4 SEMESTER 1</b>								
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 <sup>3</sup>
HW310	PROFESSIONAL COMMUNICATION	C	1	1	-	2	2	HW110
EE4xxx	DESIGN ELECTIVE 1	P	1	-	2	3	2	FOOTNOTE <sup>4</sup>
EE4xxx	TECHNICAL ELECTIVE 1	P	2	1	-	3	3	
	GER-PRESCRIBED ELECTIVE 5	P	2	1	-	3	3	
		<b>TOTAL</b>	<b>10</b>	<b>5</b>	<b>10</b>	<b>25</b>	<b>16</b>	
<b>YEAR 4 SEMESTER 2</b>								
EE4040	ENGINEERS & SOCIETY	C	2	1	-	3	3	
EE4079	FINAL YEAR PROJECT	C	-	-	8	8	10	FOOTNOTE <sup>3</sup>
EE4xxx	DESIGN ELECTIVE 2	P	1	-	2	3	2	FOOTNOTE <sup>4</sup>
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	
		<b>TOTAL</b>	<b>9</b>	<b>4</b>	<b>10</b>	<b>23</b>	<b>24</b>	

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