

**Revised Curriculum of B.Sc. Engineering Honours Degree Programme**  
**Electrical Engineering Specialization**  
**Department of Electrical Engineering**

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		
					GPA	NGPA	GPA	NGPA	Total
Semester 1									
MA1012	Mathematics	C	3.0	1/1	3.0				
CS1032	Programming Fundamentals	C	2.0	3/1	3.0				
ME1032	Mechanics	C	2.0	3/4	2.0				
MT1022	Properties of Materials	C	2.0	3/4	2.0				
CE1022	Fluid Mechanics	C	2.0	3/4	2.0				
EE1012	Electrical Engineering	C	2.0	3/4	2.0				
EL1012	Language Skill Enhancement I	C	-	3/1	1.0		15.0	0.0	15.0
Total for Semester 1					15.0	0.0	15.0	0.0	15.0
Term A									
EL1022	Language Skill Enhancement II	C	-	6/1	1.0				
MN1012	Engineering in Context	C	2.0	-		1.0			
EE1952	Engineering Design	C	2.0	3/1		1.5			
EE1962	Engineering Skill Development	C	1.0	6/1		1.5			
DE1xx2	Non-Technical Elective I*	E			2.0		2.0	0.0	2.0
Total for Term A					3.0	4.0	3.0	4.0	7.0
Semester 2									
MA1022	Methods of Mathematics	C	3.0	-	3.0				
EE2092	Theory of Electricity	C	2.0	-	2.0				
EE1032	Electromagnetic Field Theory	C	2.0	-	2.0				
EN2022	Digital Electronics	C	2.0	3/2	2.5				
EN1052	Introduction to Telecommunications	C	2.0	-	2.0				
CS2842	Computer systems	C	2.0	-	2.0				
ME1802	Introduction to Manufacturing Engineering	C	2.0	3/2	2.5				
EE1092	Laboratory Practice II	C	-	3/1	1.0		17.0	0.0	18.0
Total for Semester 2					17.0	0.0	17.0	0.0	17.0

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Semester 3									
MA2012	Differential Equations	C	2.0	-	2.0				
MA2022	Calculus	C	2.0	-	2.0				
EE2012	Circuit Theory	C	2.0	-	2.0				
EE2022	Electrical Machines & Drives I	C	2.0	-	2.0				
EE2032	Power Systems I	C	2.0	-	2.0				
EN2012	Analog Electronics	C	2.0	3/2	2.5				
CS2812	Visual Programing	C	2.0	-	2.0				
ME 2012	Mechanics of Materials I	C	1.5	3/2	2.0				
CE1822	Aspects of Civil Engineering	C	2.0	-	2.0				
EE2292	Laboratory Practice III	C	-	3/1	1.0		19.5	0.0	19.5
	Optional from CSE/ENTC/MECH	O	2.0	-	2.0		0.0	0.0	0.0
Total for Semester 3					21.5	0.0	19.5	0.0	19.5
Semester 4									
MA2032	Linear Algebra	C	2.0	-	2.0				
MA2042	Discrete Mathematics	C	2.0	-	2.0				
EE2042	Electrical Measurements and Instrumentation	C	2.0	-	2.0				
EE2052	Control Systems I	C	2.0	1	2.0				
EE2062	Electrical Installations I	C	2.0	-	2.0				
EE2072	Electrical Machines & Drives II	C	2.0	-	2.0				
EE2082	Power Systems II	C	2.0	-	2.0				
EE2192	Laboratory Practice IV	C	-	3/1	1.0				
ME2842	Basic Thermal Sciences and Applications	C	2.5	3/2	3.0				
EE3202	Individual Project	C	-	-	2.0		20.0	0.0	20.0
Total for Semester 4					20.0	0.0	20.0	0.0	20.0

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Semester 5									
MA3012	Applied Statistics	C	2.0	-	2.0		20.0	1.5	21.5
MA3022	Numerical Methods	C	2.0	-	2.0				
MN3042	Business Economics & Financial Accounting	C	3.0	-	3.0				
EE3012	High Voltage Engineering I	C	2.0	-	2.0				
EE3022	Control Systems II	C	2.0	-	2.0				
EE3032	Electrical Machines & Drives III	C	2.0	-	2.0				
EE3042	Power Systems III	C	2.0	-	2.0				
EE3052	Power Electronics & Applications I	C	2.0	-	2.0				
EE3062	Energy Systems	C	2.0	-	2.0				
EE3092	Laboratory Practice V	C	-	3/1	1.0				
EE3902	Communication and Presentation Skills	C	1.5	-		1.0			
	Optional from CSE/ENTC/MECH	O	2.0	-	2.0		0.0	0.0	0.0
Total for Semester 5					22.0	1.0	20.0	1.5	21.5
Term B & Semester 6									
EE3992	Industrial Training	C	-	-		6.0	0.0	6.0	6.0
Total for Term B & Semester 6					0.0	6.0	0.0	6.0	6.0

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Semester 7									
MN3052	Industrial Management & Marketing	C	3.0	-	3.0		19.0	1.0	20.0
EE4012	Automation & Control Technologies	C	2.0	-	2.0				
EE4022	High Voltage Engineering II	C	2.0	-	2.0				
EE4032	Electrical Installations II	C	2.0	-	2.0				
EE4042	Electrical Machines & Drives IV	C	2.0	-	2.0				
EE4052	Power Systems IV	C	2.0	-	2.0				
EE4202	Design Project***	C	-	-	5.0				
EE4092	Laboratory Practice VII	C	-	3/1	1.0				
EE4902	Field Visit	C		6/2		1.0			
MN4122	Technology Management	E	2.0	-	2.0		2.0**	0.0	2.0
MN3042	Engineering Economics	E	2.0	-	2.0				
	Optional from CSE/ENTC/MECH	O	2.0	-	2.0		0.0	0.0	0.0
Total for Semester 7					25.0	1.0	21.0	1.0	22.0
Term C									
DE3xx2	Non-Technical Elective II*	E			2.0		2.0	0.0	2.0
Total for Term C					2.0	0.0	2.0	0.0	2.0

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Semester 8									
EE4062	Power Electronics & Applications II	C	2.0	-	2.0		12.0	0.0	12.0
EE4072	Computer Aided Design & Simulation	C	1.5	3/2	2.0				
EE4082	Robotics & Mechatronics	C	2.0	-	2.0				
EE4202	Design Project***	C	-	-	5.0				
EE4192	Laboratory Practice VIII	C	-	3/1	1.0				
MN4072	Small Business Management & Entrepreneurship	E	2.0	-	2.0		2.0**	0.0	2.0
MN4092	Management Skills Development	E	2.0	-	2.0				
MN4122	Human Resource Management & Industrial Relations	E	2.0	-	2.0				
EE4702	Renewable Energy & Environment	O	2.0	-	2.0		6.0	0.0	6.0
EE4712	Real Time Computer Systems	O	2.0	-	2.0				
MA4022	Operations Research	O	2.0	-	2.0				
MA4032	Time Series & Stochastic Process	O	2.0	-	2.0				
Total for Semester 8					26.0	0.0	20.0	0.0	20.0
Total for the Programme					151.5	12.5	137.5	12.5	150.0

\* - Weekly load of lectures and lab/Assignment hrs vary among different Non-technical modules.

\*\* - Two of these 5 electives must be taken in Semester 7 and Semester 8

\*\*\* - A total of 10 credits for Design Project over Semester 7 and Semester 8.

**Modules Offered to Other Fields of Specialization**

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits	
					GPA	NGPA
Semester 3						
EE2802	Applied Electricity	-	1.5	3/2	2.0	