

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

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 1										
MA1013	Mathematics	C	3.0	1/1	3.0		15.0		20	80
CS1032	Programming Fundamentals	C	2.0	3/1	3.0				20	80
ME1032	Mechanics	C	2.0	3/4	2.0				20	80
MT1022	Properties of Materials	C	2.0	3/4	2.0				20	80
CE1022	Fluid Mechanics	C	2.0	3/4	2.0				20	80
EE1012	Electrical Engineering	C	2.0	3/4	2.0				20	80
EL1012	Language Skill Enhancement I	C	-	3/1	1.0				20	80
MN1012	Engineering in Context	C	1.0	-		1.0		1.0	30	70
Total for Semester 1							15.0	1.0		

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					GPA	NGP	GPA	NGP	CA	WE
Semester 2										
MA1023	Methods of Mathematics	C	3.0	-	3.0		17.5		30	70
EE2093	Theory of Electricity	C	2.0	-	2.0				30	70
EN1802	Basic Electronics	C	2.0	3/4	2.0				40	60
EN1052	Introduction to Telecommunications	C	2.0	-	2.0				40	60
CS2812	Visual Programming	C	1.0	3/1	2.0				60	40
CS2842	Computer systems	C	2.0	-	2.0				40	60
ME1802	Introduction to Manufacturing Engineering	C	2.0	3/2	2.5				30	70
EE1193	Laboratory Practice I	C	-	3/1	1.0				100	0
EL1022	Language Skill Enhancement II	C	-	6/1	1.0				30	70
EE1963	Engineering Skill Development	C	1.0	6/1		1.5		1.5	100	0
DE2xxx	Humanities Elective I	E			2.0		2.0		30	70
MN1030	Entrepreneurship Skill Development (continuing)	O	0.5	3/2		1.0	-	-	70	30
Total for Semester 2							19.5	1.5		

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					GPA	NGPA	GPA	NGPA	CA	WE
Semester 3										
MA2013	Differential Equations	C	2.0	-	2.0		18.0		30	70
MA2023	Calculus	C	2.0	-	2.0				30	70
EE2043	Electrical Measurements and	C	2.0	-	2.0				30	70
EE2063	Electromagnetic Field Theory	C	2.0	-	2.0				30	70
EN2012	Analog Electronics	C	2.0	3/2	2.5				30	70
EN2022	Digital Electronics	C	2.0	3/2	2.5				30	70
ME1100	Mechanics of Materials I	C	1.5	3/2	2.0				30	70
CE1822	Aspects of Civil Engineering	C	2.0	-	2.0				30	70
EE2183	Laboratory Practice II	C	-	3/1	1.0		100	0		
EE1953	Engineering Design	C	2.0	3/1		1.5	-	1.5	100	0
MN1030	Entrepreneurship Skill Development	O	0.5	3/2		1.0	-		70	30
Total for Semester 3							18.0	1.5		

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 4										
MA2033	Linear Algebra	C	2.0	-	2.0		16.0		30	70
MA2053	Graph Theory	C	2.0	-	2.0				30	70
EE2013	Circuit Theory	C	2.0	-	2.0				30	70
EE2023	Electrical Machines & Drives I	C	2.0	-	2.0				30	70
EE2033	Power Systems I	C	2.0	-	2.0				30	70
EE2193	Laboratory Practice III	C	-	3/1	1.0				100	0
ME2842	Basic Thermal Sciences and Applications	C	2.5	3/2	3.0				30	70
EE3203	Individual Project	C	-	-	2.0				100	0
EE3953	Communication and Presentation Skills	C	1.5	-		1.5		1.5	100	0
DE2xxx	Humanities Elective II	E			2.0		2.0		30	70
MN2010	Entrepreneurial Leadership	O	1.5	3/2	2.0		-	-	50	50
Total for Semester 4							18.0	1.5		

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 5										
MA3013	Applied Statistics	C	2.0	-	2.0		19.0		30	70
MA3023	Numerical Methods	C	2.0	-	2.0				30	70
MN3042	Business Economics & Financial	C	3.0	-	3.0				30	70
MN3052	Industrial Management & Marketing	C	2.5	1.5	3.0				30	70
EE2053	Control Systems I	C	2.0	1	2.0				30	70
EE3073	Electrical Installations I	C	2.0	-	2.0				30	70
EE2073	Electrical Machines & Drives II	C	2.0	-	2.0				30	70
EE2083	Power Systems II	C	2.0	-	2.0				30	70
EE3183	Laboratory Practice IV	C	-	3/1	1.0				100	0
MN3010	Multidisciplinary Design, Innovation and Venture Creation	O	1.5	3/2	2.0			50	50	
Total for Semester 5							19.0	0.0		

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Training										
EE3992	Industrial Training	C	-	-		6.0		6.0	100	0
Total for Industrial Training							0.0	6.0		

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 6										
EE3063	Energy Systems	C	2.0	-	2.0		2.0		30	70
EE4013	Automation & Control Technologies	C	2.0	-	2.0		2.0		30	70
EE4033	Electrical Installations II	C	2.0	-	2.0		2.0		30	70
EE4073	Computer Aided Design & Simulation	C	2.0	-	2.0		2.0		30	70
Total for Semester 6							8.0	0.0		
Semester 7										
EE3013	High Voltage Engineering I	C	2.0	-	2.0		16.0		30	70
EE3023	Control Systems II	C	2.0	-	2.0				30	70
EE3033	Electrical Machines & Drives III	C	2.0	-	2.0				30	70
EE3043	Power Systems III	C	2.0	-	2.0				30	70
EE3053	Power Electronics & Applications I	C	2.0	-	2.0				30	70
EE4203	Design Project	C	-	-	5.0				100	0
EE4183	Laboratory Practice VI	C	-	3/1	1.0		100	0		
EE4903	Field Visit	C		6/2		1.0		1.0	100	0
EE4243	Nuclear Power Engineering	E	2.0	-	2.0		2.0		30	70
EE4213	Robotics & Mechatronics	E	2.0	-	2.0				30	70
MN4042	Technology Management	E	2.0	-	2.0		2.0		30	70
MN4022	Engineering Economics	E	2.0	-	2.0				30	70
MN3020	Entrepreneurship Business Basics	O	2.0	3/1	3.0				50	50
MN4030	Strategic Enterprise Management	O	1.5	3/2	2.0				40	60
Total for Semester 7							20.0	1.0		

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Electrical Engineering Specialization
Department of Electrical Engineering**

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
Semester 8										
EE4023	High Voltage Engineering II	C	1.5	3/2	2.0		14.0		30	70
EE4043	Electrical Machines & Drives IV	C	2.0	-	2.0				30	70
EE4063	Power Electronics & Applications II	C	2.0	-	2.0				30	70
EE4053	Power Systems IV	C	2.0	-	2.0				30	70
EE4203	Design Project	C	-	-	5.0				100	0
EE4193	Laboratory Practice VII	C	-	3/1	1.0				100	0
EE4223	Renewable Energy & Environment	E	2.0	-	2.0		2.0		30	70
EE4233	Real Time Computer Systems	E	2.0	-	2.0				30	70
MN4072	Small Business Management & Entrepreneurship	E	2.0	-	2.0		2.0		30	70
MN4092	Management Skills Development	E	2.0	-	2.0				30	70
MN4122	Human Resource Management & Industrial Relations	E	2.0	-	2.0				30	70
MA4023	Operations Research	O	2.0	-	2.0				30	70
MA4033	Time Series & Stochastic Process	O	2.0	-	2.0				30	70
MN4010	Business Plan Development	O	1.5	3/2	2.0				70	30
MN4170	Global Entrepreneurship	O	1.5	3/2	2.0				40	60
MN4112	Production and Operations Management	O	2.0	-	2.0				30	70
Total for Semester 8							18.0	0.0		
From Optional Modules (any semester)							2.0	0.0		
Total for the Programme							137.5	12.5		

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Modules Offered to Other Fields of Specialization

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
					GPA	NGPA	GPA	NGPA	CA	WE
<i>Semester 3</i>										
EE2803	Applied Electricity	-	1.5	3/2	2.0				30	70
<i>Total for Semester 3</i>										

Credit Requirement for the Entrepreneurship Minor

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation	
					GPA	NGPA	GPA	NGPA	CA %	WE%
MN1030	Entrepreneurship Skill Development	C	1.0	3/1		2.0		2.0	70	30
MN2010	Entrepreneurial Leadership	C	1.5	3/2	2.0		2.0		50	50
MN3010	Multidisciplinary Design, Innovation and Venture creation	C	1.5	3/2	2.0		2.0		50	50
MN3020	Entrepreneurship Business Basics	C	2.0	3/1	3.0		3.0		50	50
MN4010	Business Plan Development	C	1.5	3/2	2.0		2.0		70	30
MN4022	Engineering economics	E	2.0	-	2.0				30	70
MN4030	Strategic Enterprise Management	E	1.5	3/2	2.0		2.0		40	60
MN4042	Technology Management	E	2.0	-	2.0				30	70
MN4112	Production and Operations Management	E	2.0	-	2.0				30	70
MN4170	Global Entrepreneurship	E	1.5	3/2	2.0				40	60

