

FIRST YEAR

FIRST SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Electrical Workshop Practice	0	1	00+50
Applied Mechanics	2	1	50+50
Intro to Computing and Programming	3	1	100+50
Applied Physics	3	1	100+50
Applied Calculus	3	0	100+00
Functional English	3	0	100+00
Total	14	4	450+200

SECOND SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Linear Circuit Analysis	3	1	100+50
Electronic Devices and Circuits	3	1	100+50
Linear Algebra and Analytical Geometry	3	0	100+00
Communication Skills	2	0	50+00
Islamic Studies / Ethics	2	0	50+00
Pakistan Studies	2	0	50+00
Total	15	2	450+100

SECOND YEAR

FIRST SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Electrical Network Analysis	3	0	100+00
Electrical Machines	3	1	100+50
Digital Logic Design	3	1	100+50
Microprocessor Systems	3	1	100+50
Differential Equation and Fourier series	3	0	100+00
Total	15	3	500+150

SECOND SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Theory of Electromagnetic Field	3	0	100+00
Instrumentation & Measurement	3	1	100+50
Signals and Systems	3	1	100+50
Complex Variables and Transforms	3	0	100+00
Engineering Economics	3	0	100+00
Total	15	2	500+100

THIRD YEAR

FIRST SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Advance Electrical Machines	3	1	100+50
Electrical Power Generation	3	0	100+00
Communication Systems	3	1	100+50
Numerical Analysis with computer applications	3	1	100+50
Statistic and Probability	3	0	100+00
Total	15	18	500+150

SECOND SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Linear Control Systems	3	1	100+50
Electrical Power Transmission	3	1	100+50
Power distribution and utilization	3	1	100+50
Power Economics & Management	3	0	100+00
Professional and social ethics	2	0	50+00
Total	15	3	450+200

FINAL YEAR

FIRST SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
Power System Analysis	3	1	100+50
Power Electronics	3	1	100+50
Power System Protection	3	1	100+50
Technical Writing	2	0	50+00
Senior Project Design-I	-	2	00+50
Total	11	5	350+200

SECOND SEMESTER

Name of Subject	Credit Hours		Marks
	Theory	Practical	Th + Pr
High Voltage Engineering	3	1	100+50
Power System Control	3	1	100+50
Smart Grid	3	0	100+00
Entrepreneurship and Leadership	2	0	50+00
Senior Project Design-II	0	4	00+150
Total	11	6	350+250