

# ELECTRICAL ENGINEERING

## DETAILED CONTENTS OF VARIOUS SUBJECTS

### FIRST YEAR

Sr.No.	Subjects	Page No(s)
<b>Semester– I</b>		<b>17-42</b>
1.1.	Communication Skills-I	17
1.2	Applied Mathematics-I	20
1.3	Applied Physics-I	22
1.4	Applied Chemistry-I	27
1.5	Basics of Information Technology	30
1.6	Engineering Drawing –I	35
1.7	General Workshop Practice-I & II	38
<b>Semester– II</b>		<b>43-65</b>
2.1	Communication Skills-II	43
2.2	Applied Mathematics-II	47
2.3	Applied Physics-II	49
2.4	Applied Chemistry-II	52
2.5	General Engineering	55
2.6	Engineering Drawing-II	62
2.7	General Workshop Practice-II	65
<b><i>Ecology and Environmental Awareness Camp</i></b>		<b><i>65-a</i></b>

# ELECTRICAL ENGINEERING

## DETAILED CONTENTS OF VARIOUS SUBJECTS SECOND YEAR

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<b>Semester– III</b>		<b>66-84</b>
3.1	Electrical and Electronics Engg. Materials	66
3.2	Fundamentals of Electrical Engineering	70
3.3	Basic electronics	74
3.4	Electrical Engineering Design and Drawing-I	78
3.5	Computer Programming and Applications	80
3.6	Electrical Workshop Practice-I	83
<b>Semester– IV</b>		<b>85-99</b>
4.1	Electrical Machines –I	85
4.2	Electrical Measurement and Measuring Instruments	88
4.3	Electronics Devices and Circuits	91
4.4	Electrical Engineering Design and Drawing-II	94
4.5	Electrical Workshop Practice-II	96
4.6	Estimating and Costing in Electrical Engineering	97
<b><i>Entrepreneurial awareness Camp</i></b>		<b>99</b>

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## DETAILED CONTENTS OF VARIOUS SUBJECTS THIRD YEAR

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<b>FIFTH SEMESTER</b>		<b>100-117</b>
5.1	Electrical Machines-II	100
5.2	Power-I (Generation, Transmissions and Distribution of Electrical Power)	103
5.3	Industrial Electronics and Control of Drives	105
5.4	Elective –I	108-113
	(a) Instrumentation	108
	(b) Non Conventional Energy Sources	110
	(c) PC Maintenance and Repair	112
5.5	Digital Electronics and Microprocessors	114
5.6	Minor Project Work	117
<b>SIXTH SEMESTER</b>		<b>118-141</b>
6.1	Utilization of Electrical Energy	118
6.2	Installation and Maintenance of Electrical Equipment	122
6.3	Power-II (Power System Protection)	125
6.4	Elective – II	
	(a) Energy Management	127
	(b) Optical Fibre Communication	129
	(c) Modern Electric Traction	131
6.5	Entrepreneurship Development and Management	134
6.6	Major Project Work	137

