

# ANNA UNIVERSITY TIRUCHIRAPPALLI

Tiruchirappalli-620024

Regulations 2007

Curriculum

**B.E. ELECTRICAL AND ELECTRONICS ENGINEERING**

## SEMESTER III

S.No.	Subject Code	Subject	L	T	P	Max. Marks
<b>Theory</b>						
1	MA1201	Mathematics III	3	1	0	100
2	HS1201	Environmental Science and Engineering	3	0	0	100
3	ME1209	Thermal Engineering	3	1	0	100
4	EC1201	Electronic Devices	3	1	0	100
5	EE1201	Electric Circuits	3	0	0	100
6	EE1202	Electrical Machines I	3	1	0	100
<b>Practical</b>						
7	EC1203	Electronic Devices Laboratory	0	0	3	100
8	EE1203	Electric Circuits Laboratory	0	0	3	100
9	EE1204	Electrical Machines Laboratory I	0	0	3	100

## SEMESTER IV

S.No.	Subject Code	Subject	L	T	P	Max. Marks
<b>Theory</b>						
1	EC1207	Principles of Communication Engineering	3	0	0	100
2	EC1251	Electronic Circuits	3	1	0	100
3	EE1251	Measurements and Instrumentation	3	0	0	100
4	EE1252	Electromagnetic Theory	3	1	0	100
5	EE1253	Control Systems Engineering	3	1	0	100
6	EE1254	Electrical Machines II	3	1	0	100
<b>Practical</b>						
7	EC1262	Electronic Circuits Laboratory	0	0	3	100
8	EE1255	Control and Instrumentation Laboratory	0	0	3	100
9	EE1256	Electrical Machines Laboratory II	0	0	3	100

## SEMESTER V

S.No.	Subject Code	Subject	L	T	P	Max. Marks
<b>Theory</b>						
1	<b>MA1251</b>	Numerical Methods	3	1	0	100
2	<b>EC1307</b>	Digital Signal Processing	3	1	0	100
3	<b>EC1308</b>	Digital and Linear Integrated Circuits	3	0	0	100
4	<b>CS1201</b>	Data Structures	3	0	0	100
5	<b>EE1301</b>	Electrical Machine Design	3	1	0	100
6	<b>EE1302</b>	Transmission and Distribution Engineering	3	1	0	100
<b>Practical</b>						
7	<b>EC1309</b>	Digital Signal Processing Laboratory	0	0	3	100
8	<b>EC1310</b>	Digital and Linear Integrated Circuits Laboratory	0	0	3	100
9	<b>CS1204</b>	Data Structures Laboratory	0	0	3	100

## SEMESTER VI

S.No.	Subject Code	Subject	L	T	P	Max. Marks
<b>Theory</b>						
1	<b>MG1352</b>	Total Quality Management	3	0	0	100
2	<b>EC1301</b>	Microprocessor and Microcontroller	3	0	0	100
3	<b>CS1203</b>	Object Oriented Programming	3	0	0	100
4	<b>EE1351</b>	Power Electronics	3	1	0	100
5	<b>EE1352</b>	Power System Analysis	3	1	0	100
6	<b>EE1353</b>	High Voltage Engineering	3	0	0	100
<b>Practical</b>						
7	<b>CS1205</b>	Object Oriented Programming Laboratory	0	0	3	100
8	<b>EC1305</b>	Microprocessor and Microcontroller Laboratory	0	0	3	100
9	<b>HS1301</b>	Communication and Soft Skills Laboratory	0	0	3	100

## SEMESTER VII

S.No.	Subject Code	Subject	L	T	P	Max. Marks
<b>Theory</b>						
1		Power System Operation and Control	3	1	0	100
2		Operations Research	3	1	0	100
3		Power System Protection and Switchgear	3	0	0	100
4		Solid State Drives	3	0	0	100
5	<b>E1****</b>	Elective I	3	0	0	100
6	<b>E2****</b>	Elective II	3	0	0	100
<b>Practical</b>						
7		Power System Simulation Laboratory	0	0	3	100
8		Power Electronics and Drives Laboratory	0	0	3	

## SEMESTER VIII

S.No.	Subject Code	Subject	L	T	P	Max. Marks
<b>Theory</b>						
1		Renewable Energy Sources	3	0	0	100
2		Electric Energy Generation, Conservation and Utilization	3	0	0	100
3	<b>E4****</b>	Elective III	3	0	0	100
4	<b>E5****</b>	Elective IV	3	0	0	100
<b>Practical</b>						
5		Project	0	0	12	200

## LIST OF ELECTIVES

S.No.	Subject Code	Subject	L	T	P	Max. Marks
<b>ELECTIVE I</b>						
1		Professional Ethics and Human Values	3	0	0	100
2		Special Electrical Machines	3	0	0	100
3		Modern Control Systems	3	0	0	100
4		Artificial Intelligence and Expert Systems	3	0	0	100
5		Network Analysis and Synthesis	3	0	0	100
<b>ELECTIVE II</b>						
6		Adaptive Control	3	0	0	100
7		AI Applications to Power Systems	3	0	0	100
8		Internetworking Technology	3	0	0	100
9		Power System Dynamics	3	0	0	100
10		Computer Architecture	3	0	0	100
<b>ELECTIVE III</b>						
11		Embedded System Design	3	0	0	100
12		Energy Management and Energy Audit	3	0	0	100
13		Power System Transients	3	0	0	100
14		Data Communication and Networks	3	0	0	100
15		Mobile Communication	3	0	0	100
<b>ELECTIVE IV</b>						
16		Power Quality	3	0	0	100
17		Bio-Medical Instrumentation	3	0	0	100
18		VLSI Design	3	0	0	100
19		Neural Network and Fuzzy Logic Control	3	0	0	100
20		Electrical Safety and Quality	3	0	0	100