

**B.Tech. 4 Year (8 semesters) Regular Programme in
Electrical & Electronics Engineering**

COURSE STRUCTURE
(Applicable for the Batch admitted from the Academic Year 2018-19 onwards)

III YEAR

I SEMESTER

S.No.	Group	Sub Code	Subject	L	T	P	Credits
1)	HS		Managerial Economics and Financial Analysis	3	-	-	3
2)	PC		Power Systems -II	3	1	-	4
3)	PC		Control Systems	3	-	-	3
4)	PE		Professional Elective-1	3	-	-	3
5)	OE		Open Elective-1	3	-	-	3
6)	PC		Electrical Measurements and Instrumentation Lab	-	-	3	1.5
7)	PC		Control Systems Lab	-	-	2	1
8)	HS		Employability and Soft Skills Lab	-	-	2	1
TOTAL				15	1	8	20

PE-1	
Electrical Measurements & Instrumentation	
Computer Organization	
Special Machines	

III YEAR

II SEMESTER

S.No.	Group	Sub Code	Subject	L	T	P	Credits
1)	HS		Fundamentals of Management	3	-	-	3
2)	PC		Microprocessors and Microcontrollers	3	-	-	3
3)	PC		Power Electronics	3	-	-	3
4)	PE		Professional Elective-2	3	-	-	3
5)	OE		Open Elective-2	3	-	-	3
6)	PC		Microprocessors and Microcontrollers Lab	-	-	3	1.5
7)	PC		Power Electronics Lab	-	-	3	1.5
8)	PW		Seminar	2	-	-	2
Total				17	-	6	20

PE-2	
Digital Control Systems	
High Voltage Engineering	
Electric & Hybrid Vehicles	

- 1) N. Mallebally
- 2) S. S. Sankaranarayanan
- 3) E. S. Sankaranarayanan
- 4) S. S. Sankaranarayanan
- 5) —
- 6) R. Balasubramanian

- 7) M. Sankaranarayanan
- 8) K. Sankaranarayanan
- 9) S. Sankaranarayanan
- 10) S. Sankaranarayanan

- 11) R. Sankaranarayanan
- 12) G. Sankaranarayanan
- 13) S. Sankaranarayanan
- 14) R. Sankaranarayanan
- 15) M. Sankaranarayanan
- 16) R. Balasubramanian

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IV YEAR

I SEMESTER

S.No.	Group	Sub Code	Subject	L	T	P	Credits
1)	PC		Power System Protection	3	-	-	3
2)	PC		Power System Analysis	3	-	-	3
3)	PE		Professional Elective-3	3	-	-	3
4)	PE		Professional Elective-4	3	-	-	3
5)	OE		Open Elective-3	3	-	-	3
6)	PC		Power Systems Lab	-	-	2	1
7)	PW		Mini Project *	-	-	-	2
8)	PW		Project Phase - I	1	-	4	3
TOTAL				16	-	6	21

* Summer between III & IV Years: Mini Project

PE-3	PE4
Electric Drives	Utilization of Electrical Energy
Programmable Logic Controllers & Their Applications	Line Commutated & Active Rectifiers
Electrical Distribution Systems	Smart Electric Grid

IV YEAR - II SEMESTER

S.No.	Group	Sub Code	Subject	L	T	P	Credits
1)	HS		Entrepreneurship and Project Management	3	-	-	3
2)	PE		Professional Elective-5	3	-	-	3
3)	PE		Professional Elective-6	3	-	-	3
4)	OE		Open Elective-4	3	-	-	3
5)	PW		Project Phase - II	2	-	12	8
TOTAL				14	-	12	20

PE-5	PE-6	Open Electives
Grid Integration of Renewable Energy Systems	Electric Machine Modeling & Analysis	OE1. Electrical Materials
Advanced Power Electronics	EHV AC Transmission	OE2. Renewable Energy Sources
AI Techniques in Electrical Engineering	Power Quality and FACTS	OE3. Waste Management Techniques & Power Generation
		OE4. Robotics

1) N. Manikaly
2) S. Subbulakshmi
3) E. S. Srinivas
4) S. Srinivas
5) —
6) S. Srinivas

7) Srinivas
8) Srinivas
9) Srinivas
10) Srinivas
11) Srinivas
12) G. Srinivas

13) Srinivas
14) Srinivas
15) Srinivas
16) R. Balasubramaniam