

COURSE STRUCTURE


B. Tech. Electrical & Electronics Engineering

I Year

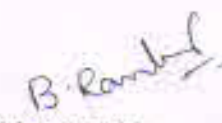
I Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.		English – I	4	-	-	3	40	60	100
2.		Mathematics-I	4	-	-	3	40	60	100
3.		Mathematics-II	4	-	-	3	40	60	100
4.		Engineering Mechanics	4	-	-	3	40	60	100
5.		Computer Programming	4	-	-	3	40	60	100
6.		Professional Ethics & Human Values	-	-	-	-	-	-	S/U
7.		English Communication Skills Lab I	-	3	-	2	50	50	100
8.		Computer Programming Lab	-	3	-	2	50	50	100
9.		Engineering Workshop & IT Workshop	24	3		2	50	50	100
Total			24	9	4	21	350	450	800

T- THEORY P – PRACTICAL D- DRAWING C – CREDITS Int. – INTERNAL Ext. – EXTERNAL

 24/06/17
 University Nominee
 (Dr.Y.Srinivasa kishore babu)

 24/06/17
 Subject Expert
 (Dr.N.Viswanathan)


 Subject Expert
 (Dr.B..Ravi kumar)


 Internal Member
 (Mr.T.Amar Kiran)


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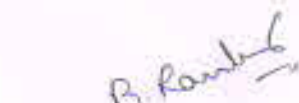
I Year					II Semester				
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.		English – II	4	-	-	3	40	60	100
2.		Mathematics-III	4	-	-	3	40	60	100
3.		Engineering Physics	4	-	-	3	40	60	100
4.		Engineering Drawing	1	-	3	3	40	60	100
5.		Data Structures Through C	4	-	-	3	40	60	100
6.		Environmental Studies	4	-	-	3	40	60	100
7.		English Communication Skills Lab II	-	3	-	2	50	50	100
8.		Engineering Physics Lab	-	3	-	2	50	50	100
9.		Data Structures Through C Lab	-	3	-	2	50	50	100
Total			21	9	3	24	390	510	900

* Add on Course

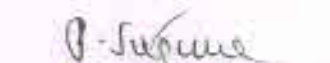
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S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.		Electrical Circuits Analysis – I	4	-	-	3	40	60	100
2.		Electro Magnetic Field	4	-	-	3	40	60	100
3.		Electrical Machines – I	4	-	-	3	40	60	100
4.		Complex Variable and Statistical Methods*	4	-	-	3	40	60	100
5.		Fluid Mechanics & Hydraulic Machines	4	-	-	3	40	60	100
6.		Electronic Devices & circuits	4	-	-	3	40	60	100
7.		Soft Skills – I	1	2	-	-	-	-	-
8.		Electronic Devices & Circuits Lab	-	3	-	2	50	50	100
9.		Fluid Mechanics & Hydraulic Machines Lab	-	3	-	2	50	50	100
Total			25	8	0	22	340	460	800

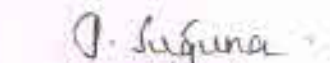
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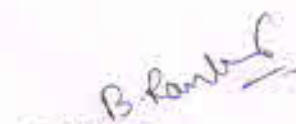
II Year						II Semester			
S. No.	SubjectCode	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.		Electrical Circuit analysis – II	4	-	-	3	40	60	100
2.		Switching Theory and Logic Design*	4	-	-	3	40	60	100
3.		Power Systems – I	4	-	-	3	40	60	100
4.		Electrical Machines – II (Through Moocs)	4	-	-	3	40	60	100
5.		Electrical Measurements*	4	-	-	3	40	60	100
6.		Pulse & Digital Circuits	4	-	-	3	40	60	100
7.		Electrical Machines – I Lab	-	3	-	2	50	50	100
8.		Electrical Circuits Lab	-	3	-	2	50	50	100
Total			24	6	0	22	340	460	800

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COURSE STRUCTURE

B. Tech. Electrical & Electronics Engineering

III Year

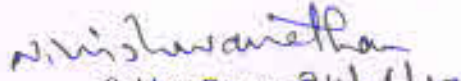
I Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.		Managerial Economics and Financial Analysis	4	-	-	3	40	60	100
2.		Control Systems*	4	-	-	3	40	60	100
3.		Power Systems-II	4	-	-	3	40	60	100
4.		Special Electrical Machines	4	-	-	3	40	60	100
5.		Power Electronics	4	-	-	3	40	60	100
6.		Linear & Digital IC Applications	4	-	-	3	40	60	100
7.		Soft Skills - II	1	2	-	-	-	-	-
8.		Electrical Machines-II Lab	-	3	-	2	50	50	100
9.		Electrical Measurements Lab*	-	3	-	2	50	50	100
10.		Mini Project - I		3		2	50	-	50
Total			25	11	0	24	390	460	850

Mini Project / Study Project - To be done during summer vacation after II-II semester

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B. Tech. Electrical & Electronics Engineering

III Year

II Semester


S. No.	SubjectCode	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.		Switchgear and Protection	4	-	-	3	40	60	100
2.		Microprocessors & Microcontrollers and its applications	4	-	-	3	40	60	100
3.		Power System Analysis*	4	-	-	3	40	60	100
4.		Renewable energy sources and systems	4	-	-	3	40	60	100
5.		Power Semiconductor Drives (Through Moocs)	4	-	-	3	40	60	100
6.		Signals and systems	4	-	-	3	40	60	100
7.		Power Electronics Lab	-	3	-	2	50	50	100
8.		Control Systems Lab*	-	3	-	2	50	50	100
9.		IPR & Patents*	-	-	-	-	-	-	-
Total			24	6	0	22	340	460	800

* Add on Course

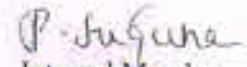
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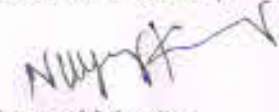
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COURSE STRUCTURE

B. Tech. Electrical & Electronics Engineering

IV Year

I Semester

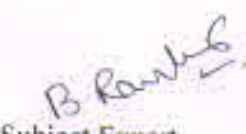
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.		Utilization of Electrical Energy*	4	-	-	3	40	60	100
2.		Principles of Signal Processing	4	-	-	3	40	60	100
3.		Power System Operation & Control	4	-	-	3	40	60	100
4.		Elective-I	4	-	-	3	40	60	100
5.		Elective - II	4	-	-	3	40	60	100
6.		Power Systems Lab	-	3	-	2	50	50	100
7.		Microprocessors & Microcontrollers and its applications Lab	-	3	-	2	50	50	100
8.		Electrical Simulation Lab	-	3	-	2	50	50	100
9.		Summer Internship	-	4	-	3	100	-	100
Total			20	13	0	24	450	450	900

Summer Internship / Training - To be done during summer vacation after III-II semester

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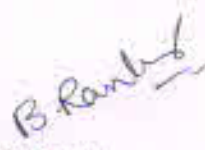
IV Year						II Semester			
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.		Energy Audit, Conservation & Management*	4	-	-	3	40	60	100
2.		Elective – III	4	-	-	3	40	60	100
3.		Elective – IV	4	-	-	3	40	60	100
4.		Elective – V	4	-	-	3	40	60	100
5.		Project Work	-	-	-	9	60	140	200
Total			24			21	220	380	600

* Add on Course

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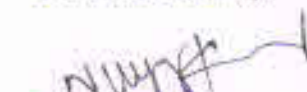

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Add on Courses

S. No.	Subject Title	Year/Sem
1.	Professional Ethics and human values	I-I
2.	Soft Skills -I	II-I
3.	Soft Skills -II	II-II
4.	IPR & Patents	III-II
5.	1. PLC / Scada 2. MAT Lab Training 3.ECAD	III-II
6.	1. PSCAD & MEP 2.EMTP 3. Energy Audit 4. Industrial Automation 5. Electrical QAQC	IV-I

Note : - Add on Courses - Only internal evaluation periods allocated - pass compoulsory (40%)for award of degree.

T – Theory

P - Practicals


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LIST OF ELECTIVES

Department Elective 1:

Sl. No	Subject Code	Subject Name
1		High Voltage Engineering
2		Electronic Instrumentation and Automation system
3		HVDC Transmission
4		Electrical Distribution Systems

Department Elective 2:

Sl. No	Subject Code	Subject Name
1		Electrical Machine Modeling & analysis
2		Switching mode power converters
3		Optimization Techniques
4		EHV Transmission

Department Elective 3:

Sl. No	Subject Code	Subject Name
1		Advanced Control Systems.
2		Flexible Alternating Current Transmission systems
3		Power Quality
4		Smart Grid

Department Elective 4:

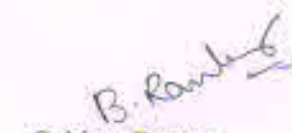
Sl. No	Subject Code	Subject Name
1		VLSI Design
2		Embedded systems
3		Digital control systems
4		PLC and its Applications

Department Elective 5:

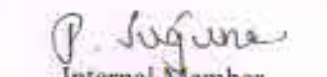
Sl. No	Subject Code	Subject Name
1		OOPS through JAVA
2		DBMS
3		UNIX and Shell Programming
4		Neural Fuzzy systems
MOOCS:		

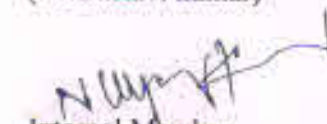

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