

COURSE STRUCTURE

B. Tech. ELECTRICAL & ELECTRONICS ENGINEERING

I Year

Semester I

S. No.	Subject code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.	14199101	English – I	4	-	-	3	30	70	100
2.	14199102	Mathematics-I	4	-	-	3	30	70	100
3.	14199103	Computer Programming-I	4	-	-	3	30	70	100
4.	14199104	Applied Mechanics	4	-	-	3	30	70	100
5.	14199105	Basic Engineering Drawing	-	-	4	3	30	70	100
6.	14199191	Professional Ethics & Human Values	4	-	-	0	30	70	100
7.	14199111	English Communication Lab- I	-	3	-	2	50	50	100
8.	14199112	Computer Programming Lab-I	-	3	-	2	50	50	100
9.	14199181	Engineering Workshop & IT Workshop		3	-	2	50	50	100
Total			20	9	4	21	330	570	900

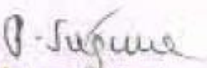
T- THEORY P – PRACTICAL D- DRAWING C – CREDITS Int. – INTERNAL Ext. – EXTERNAL


 University Nominee
 (Dr.Y.Srinivasa kishore babu)


 Subject Expert
 (Dr.N.Viswanathan)


 Subject Expert
 (Dr.B..Ravi kumar)


 Internal Member
 (Mr.T.Amar Kiran)


 Internal Member
 (Ms.P.Suguna Ratnamala)


 Internal Member
 (Mr.N. Vijay Kumar)


 Chairman-BOS
 (Dr.D.Ravi kishore)

COURSE STRUCTURE

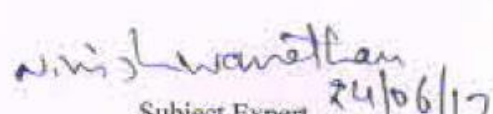
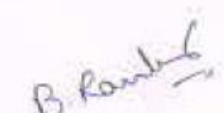
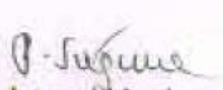
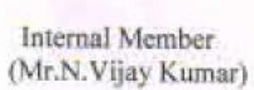
B. Tech. ELECTRICAL & ELECTRONICS ENGINEERING

I Year

Semester II

S. No.	Subject code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			T	P	D		Int.	Ext.	Total
1.	14199201	English – II	4	-	-	3	30	70	100
2.	14199202	Mathematics-III	4	-	-	3	30	70	100
3.	14199202	Mathematics-II	4	-	-	3	30	70	100
4.	14199204	Engineering Physics	4	-	-	3	30	70	100
5.	14199205	Advanced Computer Programming	4	-	-	3	30	70	100
6.	14199206	Environmental Studies	4	-	-	3	30	70	100
7.	14199211	English Communication Lab II	-	3	-	2	50	50	100
8.	14199212	Engineering Physics Lab	-	3	-	2	50	50	100
9.	14199213	Advanced Computer Programming Lab	-	3	-	2	50	50	100
Total			24	9	-	24	330	570	900

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COURSE STRUCTURE

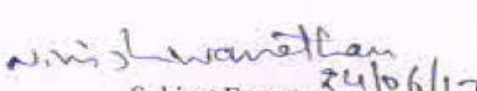
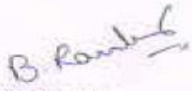
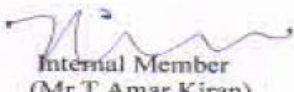
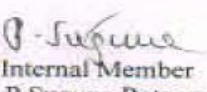
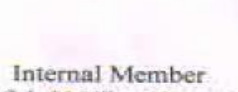
B. Tech. ELECTRICAL & ELECTRONICS ENGINEERING

II YEAR

I SEMESTER

S.No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1	14120306	Electrical Circuits Analysis – I	3	1	-	3	30	70	100
2	14120302	Electro Magnetic Field	3	1	-	3	30	70	100
3	14120303	Electrical Machines – I	3	1	-	3	30	70	100
4	14129301	Complex Variable and Statistical Methods*	3	1	-	3	30	70	100
5	14123305	Fluid Mechanics & Hydraulic Machines	3	1	-	3	30	70	100
6	14124304	Electronic Devices & circuits	3	1	-	3	30	70	100
7	14139397	Soft Skills – I	3	1	-	-	30	70	100
8	14124311	Electronic Devices & Circuits Lab	--	-	3	2	50	50	100
9	14123312	Fluid Mechanics & Hydraulic Machines Lab	--	-	3	2	50	50	100
Total			21	7	6	22	310	590	900

L- LECTURE T- TUTORIAL P – PRACTICAL Int. – INTERNAL Ext. – EXTERNAL C – CREDITS

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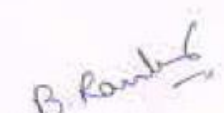
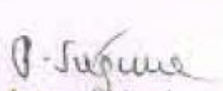
B. Tech. ELECTRICAL & ELECTRONICS ENGINEERING

II YEAR

II SEMESTER

S.No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1	14120401	Electrical Circuit analysis – II	3	1	-	3	30	70	100
2	14124402	Switching Theory and Logic Design	3	1	-	3	30	70	100
3	14120403	Power Systems – I	3	1	-	3	30	70	100
4	14120404	Electrical Machines – II (Through Moocs)	3	1	-	3	30	70	100
5	14120405	Electrical Measurements	3	1	-	3	30	70	100
6	14124406	Pulse & Digital Circuits	3	1	-	3	30	70	100
7	14120411	Electrical Machines – I Lab	-	-	3	2	50	50	100
8	14120412	Electrical Circuits Lab	--	-	3	2	50	50	100
Total			18	6	6	22	280	520	800

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COURSE STRUCTURE

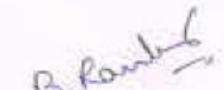
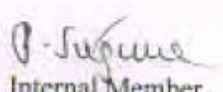
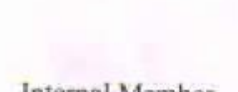
B. Tech. ELECTRICAL & ELECTRONICS ENGINEERING

III YEAR

I SEMESTER

S.No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1	14129501	Managerial Economics and Financial Analysis	3	1	-	3	30	70	100
2	14120502	Control Systems	3	1	-	3	30	70	100
3	14120503	Power Systems-II	3	1	-	3	30	70	100
4	14120504	Electrical Machines-III	3	1	-	3	30	70	100
5	14120505	Power Electronics	3	1	-	3	30	70	100
6	14120506	Linear & Digital IC Applications	3	1	-	3	30	70	100
7	14129597	Soft Skills - II	3	1	-	-	30	70	100
8	14120511	Electrical Machines-II Lab	--	-	3	2	50	50	100
9	14120512	Electrical Measurements Lab	--	-	3	2	50	50	100
10	14120521	Mini Project - I	-	-	3	2	100	-	100
Total			21	7	9	24	410	590	1000

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COURSE STRUCTURE

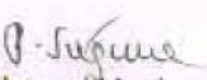
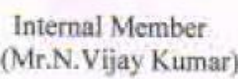
B. Tech. ELECTRICAL & ELECTRONICS ENGINEERING

III YEAR

II SEMESTER

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1	14120602	Switchgear and Protection	3	1	-	3	30	70	100
2	14120603	Microprocessors & Microcontrollers and its applications	3	1	-	3	30	70	100
3	14120604	Power System Analysis	3	1	-	3	30	70	100
4	14120605	HVDC Transmission	3	1	-	3	30	70	100
5	14124606	Power Semiconductor Drives (Through Moocs)	3	1	-	3	30	70	100
6	14129601	Management Science	3	1	-	3	30	70	100
7	14120611	Power Electronics Lab	--	--	3	2	50	50	100
8	14120612	Control Systems Lab	--	--	3	2	50	50	100
Total			21	6	6	22	280	520	800

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 Chairman-BOS (Dr.D.Ravi kishore)		

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		
			L	T	P		Int.	Ext.	Total
1	14120701	Utilization of Electrical Energy	3	1	-	3	30	70	100
2	14124702	Principles of Signal Processing	3	1	-	3	30	70	100
3	14120703	Power System Operation & Control	3	1	-	3	30	70	100
4		Elective-I	3	1	-	3	30	70	100
	14120764a	High Voltage Engineering							
	14124764b	Electronic Instrumentation and Automation system							
	14120764c	Renewable Energy Sources and Systems							
	14124764d	VLSI Design							
5		Elective – II	3	1	-	3	30	70	100
	14120765a	Electrical Machine Design							
	14120765b	Electrical Distribution Systems							
	14123765c	Optimization Techniques							
	14124765d	Embedded Systems							
6	14120711	Power Systems Lab			3	2	50	50	100
7	14124712	Microprocessors & Microcontrollers and its applications Lab	-	-	3	2	50	50	100
8	14120713	Electrical Simulation Lab	-	-	3	2	50	50	100
9	14120731	Summer Internship	-	-	-	3	100	-	100
10	14129796	IPR & Patents	3	1	-	-	30	70	100
Total			18	6	9	24	430	570	1000

L- LECTURE T- TUTORIAL P – PRACTICAL Int. – INTERNAL Ext. – EXTERNAL C – CREDITS

YSA
University Nominee
(Dr.Y.Srinivasa kishore babu)

N. Viswanathan
Subject Expert
(Dr.N.Viswanathan)

B. Ravi
Subject Expert
(Dr.B..Ravi kumar)

Mr. T. Amar Kiran
Internal Member
(Mr.T.Amar Kiran)

P. Suguna
Internal Member
(Ms.P.Suguna Ratnamala)

Mr. N. Vijay Kumar
Internal Member
(Mr.N.Vijay Kumar)

Dr. D. Ravi kishore
Chairman-BOS
(Dr.D.Ravi kishore)

COURSE STRUCTURE

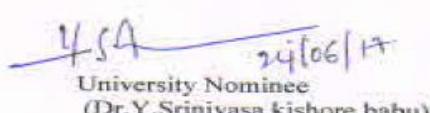
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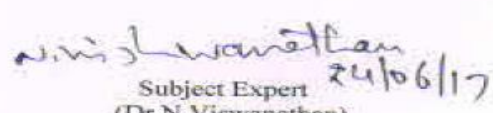
IV YEAR

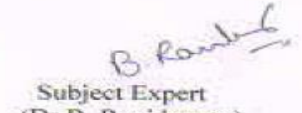
II SEMESTER

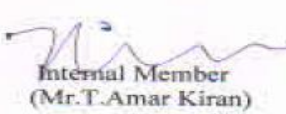
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1	14120801	Energy Audit, Conservation & Management	3	1	-	3	30	70	100
2		Elective – III	3	1	-	3	30	70	100
	14120862a	Advanced Control Systems							
	14120862b	Special Electrical Machines							
	14120862c	Extra High Voltage transmission							
3		Elective – IV	3	1	-	3	30	70	100
	14120863a	Electric Power Quality							
	14120863b	FACTS: Flexible Alternating Current Transmission Systems							
	14120863c	Smart Grid							
4		Elective – V	3	1	-	3	30	70	100
	14125864a	OOPS Through JAVA							
	14125864b	Database Management Systems							
	14125864c	UNIX and Shell Programming							
	14125864d	Artificial Intelligence Techniques							
5	14120841	Project	-	-	-	9	60	140	200
Total			12	4	-	21	180	420	600

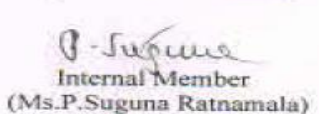
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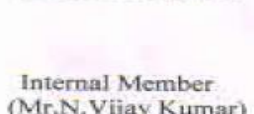

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LIST OF ELECTIVES

Elective-I:

- High Voltage Engineering
- Electronic Instrumentation and Automation system
- Renewable Energy Sources and Systems
- VLSI Design

Elective-II:

- Electrical Machine Design
- Electrical Distribution Systems
- Optimization Techniques
- Embedded Systems

Elective-III:

- Advanced Control Systems.
- Special Electrical Machines
- Extra High Voltage transmission

Elective-IV:

- Electric Power Quality
- FACTS: Flexible Alternating Current Transmission Systems
- Smart Grid

Elective-V:

- OOPS through JAVA
- DBMS
- UNIX and Shell Programming
- Artificial Intelligence Techniques
- Power System Reforms