

Curriculum for B.Tech (Electrical Engineering)

(For Academic Session 2014-2015 Admission Batch)

1st Semester									
Sl. No	Code	Course Name	Contact Periods / week				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
1	M(EE)101	Mathematics I	3	1	-	-	4	4	100
2	CH(EE)101	Chemistry	3	1	-	-	4	4	100
3	EE101	Basic Electrical Engineering	3	1	-	-	4	3	100
4	HU(EE)101	Professional Communication	3	1	-	-	4	3	100
5	ME(EE)101	Engineering Mechanics	3	1	-	-	4	3	100
6	CH(EE) 191	Chemistry Lab	-	-	3	-	3	2	100
7	EE191	Basic Electrical Engineering lab	-	-	3	-	3	2	100
8	DR(EE)181	Engineering Drawing Practice and Computer Graphics	1	-	-	3	4	2	100
9	X(EE)181	Extra-curricular activities (NCC/NSS training)	-	-	-	2	2	1	50
10	HU(EE)181	Language Laboratory	-	-	-	2	2	1	50
2nd Semester									
1	M(EE)201	Mathematics II	3	1	-	-	4	4	100
2	PH(EE)201	Physics	3	1	-	-	4	4	100
3	EC(EE)201	Basic Electronics Engineering	3	1	-	-	4	3	100
4	CS(EE)201	Computer Fundamentals & Principle of Computer Programming	3	1	-	-	4	3	100
5	ME(EE)201	Engineering Thermodynamics & Fluid Mechanics	3	1	-	-	4	3	100
6	PH(EE)291	Physics Lab.	-	-	3	-	3	2	100
7	CS(EE)291	Computer Fundamentals & Principle of Computer Programming Lab.	-	-	3	-	3	2	100
8	EC(EE)291	Basic Electronics Engineering lab	-	-	3	-	3	2	100
9	W(EE)281	Workshop Practice	1	-	-	3	4	2	100
3rd Semester									
1	M(EE)301	Mathematics III	3	1	-	-	4	4	100
2	CS(EE)301	Numerical Methods and Computer Programming	3	1	-	-	4	3	100
3	EC(EE)301	Analog Electronic Circuits	3	-	-	-	3	3	100
4	ME(EE)301	Thermal Power Engineering	3	-	-	-	3	3	100
5	EE301	Circuits Theory And Networks	3	1	-	-	4	3	100
6	EE302	Electrical and Electronics Measurement	3	1	-	-	4	4	100
7	CS(EE)391	Numerical Methods And Computer Programming Lab	-	-	3	-	3	2	100
8	EC(EE)391	Analog Electronics Lab	-	-	3	-	3	2	50
9	ME(EE)391	Thermal Power Engineering Lab	-	-	3	-	3	2	50
10	EE391	Circuit Theory and Network Lab	-	-	3	-	3	2	100
11	EE392	Electrical and Electronics Measurements Lab.	-	-	3	-	3	2	100

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4th Semester									
1	PH(EE)401	Physics II	3	1	-		4	4	100
2	EC(EE)401	Digital Electronics	3	-	-		3	3	100
3	CH(EE)401	Basic Environment & Elementary Biology	2	-	-		2	2	100
4	EE401	Electrical Machines I	3	1	-		4	4	100
5	EE402	Field Theory	4	-	-		4	4	100
6	EE403	Signal and Systems	3	1	-		4	3	100
8	PH(EE)401	Physics II Lab	-	-	3		3	2	100
9	EE491	Electrical Machine-I Lab	-	-	3		3	2	100
10	EE493	Signal and Systems Lab	-	-	3		3	2	100
11	EC(EE)491	Digital Electronics lab	-	-	3		3	2	50
12	HU(EE)481	Technical Report Writing & Language Laboratory Practice	-	-					50
5th Semester									
1	HU(EE)501	Financial & Industrial management	3	0	0	0	3	2	100
2	EE501	Electrical Machines-II	3	1	0	0	4	4	100
3	EE502	Power Systems-I	3	1	0	0	4	4	100
4	EE503	Control System	3	1	0	0	4	4	100
5	EE504	Microprocessor and Microcontroller	3	0	0	0	3	3	100
6	EE591	Electrical Machines-II Lab	0	0	3	0	3	2	100
7	EE592	Power Systems-I Lab	0	0	3	0	3	2	100
8	EE593	Control System Lab	0	0	3	0	3	2	100
9	EE594	Microprocessor and Microcontroller Lab	0	0	3	0	3	2	100
10	EE581	Electrical System Design-I	1	0	0	3	4	2	100
6th Semester									
1	EC(EE)601	Elective-I	2	1	0	0	3	2	100
2	EE601	Modern Control Theory	2	1	0	0	3	3	100
3	EE602	Power Systems-II	2	1	0	0	3	3	100
4	EE604	Power Electronics	2	1	0	0	3	3	100
5	EE605	Elective-II	3	0	0	0	3	3	100
6	CS(EE)601	Elective-III	3	1	0	0	4	2	100
1	EE692	Power Systems-II Lab	0	0	3	0	3	2	100
2	EE693	Modern Control System Lab	0	0	3	0	3	2	100
3	EE694	Power Electronics Lab	0	0	3	0	3	2	100
4	EE681	Electrical System Design -II	1	0	-	3	4	2	100
5	EE671	Industrial Training	0	0	0	0	0	0	50
6	EE682	Group Discussion & Seminar	0	0	0	3	3	2	50

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7th Semester									
1	HU(EE)701	Organizational Behavior	2	0	0	0	2	2	100
2	EE701	Electric Drives	3	0	0	0	3	3	100
3	EE702	Elective-IV	3	0	0	0	3	3	100
4	EE703	Elective-V	3	0	0	0	3	3	100
5	CS(EE)705	Elective-VI	3	1	0	0	3	2	100
7th Semester									
1	EE791	Electric Drives lab	0	0	3	0	3	2	100
2	CS(EE)795	Elective-VI lab	0	0	3	0	3	2	100
3	EE781	Project Preliminary	0	0	3	0	6	2	50
4	EE771	Seminar on Industrial Training and Report	0	0	0	0	0	1	50
8th Semester									
1	HU801	Values and Ethics in Profession	2	0	0	0	2	2	100
2	EE801	Elective -VII	3	0	0	0	3	3	100
3	EI(EE)802	Elective - VII	3	0	0	0	3	3	100
8th Semester									
4	EE881	Project & Thesis	0	0	0	12	12	4	100
5	EE871	Grand Viva	0	0	0	0	0	3	100

EC(EE)601 Elective I

- A. Digital Signal Processing (DSP)
- B. Digital Communication
- C. Cloud Computing

EE605 Elective II

- D. Renewable and Non-conventional Energy
- E. Computational Intelligence
- F. Mechatronics Elective I

CS(EE)601 Elective III

- A. Object oriented Programming using C++
- B. Computer Architecture & Operating Systems
- C. Software Engineering

EE702 Elective IV

- A. Utilization of Electric Power
- B. Advanced Power Electronics
- C. Illumination Engineering

EE703 Elective V

- A. Advanced Power Systems
- B. Power generation and economics
- C. High Voltage engineering
- D. Advanced Electrical Measurement & Instrumentation

CS(EE)705 Elective VI

- A. Artificial intelligence and soft computing
- B. Digital image processing
- C. Computer Networking
- D. Data Base Management System

EE801 Elective VII

- A. HVDC Transmission
- B. Energy Management and Audit
- C. Power Plant Engineering

EI(EE)802 Elective VIII

- A. Sensors & Transducers
- B. Process control and instrumentation
- C. Electronic Instrumentation & Control

EE Curriculum Credit Distribution Details

Category	Semester								Credit	%	AICTE
	1st	2nd	3rd	4th	5th	6th	7th	8th			
HS											(5-10)%
BS											(15-20)%
ES											(15-20)%
PC											(30-40)%
PE											(10-15)%
OE											(5-10)%
PW											(10-15)%
Total	24	25	28	28	27	28	20	15			