

**BACHELOR DEGREE REQUIREMENTS -
ELECTRICAL ENGINEERING (2009 BATCH)**

SEMESTER 1			
Sr. No.	Course No.	Course Name	Credits
1	CH 101	Chemistry	6.0
2	CS 101	Computer Programming and Utilization	6.0
3	HS 103/ HS 105	Introduction to Philosophy Introductory English	6.0
4	MA 101	Calculus	8.0
5	ME 101	Engineering Graphics and Drawing	5.0
6	PE 101	Physical Education	0.0
7	PH 101	Electricity and Magnetism	6.0
8	PH 111	Physics Lab	3.0
Total Credits			40.0

SEMESTER 2			
Sr. No.	Course No.	Course Name	Credits
1	CH 112	Chemistry Lab	3.0
2	EE 104	Introductory Electrical Engineering I	6.0
3	HS 106	Economics/	6.0
4	IN 104	Introduction to Engineering	3.0
5	MA 102	Linear Algebra	4.0
6	MA 104	Ordinary Differential Equation I	4.0
7	ME 104	Engineering Mechanics	6.0
8	ME 112	Workshop Practice	5.0
9	PE 102	Physical Education II	3.0
10	PH 102	Modern Physics	8.0
Total Credits			42.0

SEMESTER 3			
Sr. No.	Course No.	Course Name	Credits
1	EE 201	Network Theory	6.0
2	EE 203	Electronics Devices	6.0
3	EE 205	Introduction to Electrical Systems	6.0
4	EE 211	Electronics Devices Lab	3.0
5	EE 213	Electrical and Electronics Lab	4.0
6	MA 201	Complex Analysis	4.0
7	MA 203	Differential Equations-II	4.0
8	IN 102	Comprehensive Viva Voce	0.0
Total Credits			33.0

SEMESTER 4			
Sr. No.	Course No.	Course Name	Credits
1	EE 202	Signals and Systems	6.0
2	EE 204	Analog Circuits	6.0
3	EE 206	Electrical Machines and Power Electronics	6.0
4	EE 208	Digital Systems	6.0
5	EE 212	Analog Lab.	3.0
6	EE 214	Digital Circuits Lab.	3.0
7	IN 103	Comprehensive Viva Voce	0.0
Total Credits			30.0

	Honors Elective -I	6.0
	Minors Elective-I	6.0

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SEMESTER 5			
Sr. No.	Course No.	Course Name	Credits
1	EE 301	Microprocessors	6.0
2	EE 303	Communication Systems	6.0
3	EE 305	EM Waves	6.0
4	EE 307	Probability and Random Processes	6.0
5	EE 311	Machines Lab	4.0
6	IN 105	Comprehensive Viva Voce	0.0
7	HS 305	Psychology	6.0
Total Credits			34.0

	Honors Elective -II	6.0
	Minors Elective-II	6.0

SEMESTER 6			
Sr. No.	Course No.	Course Name	Credits
1	EE 302	Control Systems	6.0
2	EE 304	Digital Signal Processing	6.0
3	EE 306	Digital Communications	6.0
4	EE 308	Power Systems	6.0
5	IN Xxx	Institute Elective-1	6.0
6	IN 106	Comprehensive Viva Voce	0.0
Total Credits			30.0

	Honors Elective -III	6.0
	Minors Elective-III	6.0

SEMESTER 7			
Sr. No.	Course No.	Course Name	Credits
1	EE 451	Btech project - I	6.0
2	EE 401	Communications lab	3.0
3	EE 402	Control lab	3.0
4	EE xxx	Department elective-I	6.0
5	EE xxx	Department elective-II	6.0
6	ES 401	Earth, Environment and Energy	6.0
7	IN 107	Comprehensive Viva Voce	0.0
Total Credits			30.0

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SEMESTER 8			
Sr. No.	Course No.	Course Name	Credits
1	IN 108	Comprehensive Viva Voce	0.0
2	EE xxx/XX xxx	Department / Open Elective III	6.0
3	EE xxx/XX xxx	Department / Open Elective IV	6.0
4	EE xxx	Department Elective V	6.0
5	EE xxx	Department Elective VI	6.0
6	IN XXX	Institute Elective - 2	6.0
7	EE 452	BTech Project - II	12.0
Total Credits			30.0

	Honors Elective -V	6.0
	Minors Elective-V	6.0

	Honors Elective -IV	6.0
	Minors Elective-IV	6.0

Total Core Credits Requirement	263.0
Department Elective credit requirements	24
HSS Elective credits requirement	18
Institute Elective or Dept. Elective/Open Elective	24