

**Course Outcomes (CO) - B. Tech. - SEMESTER – V**

Sr. No.	Subject Code	Course Title	Code	Course Outcome
1	EE 301	Elements of Power Systems	a	Students will be able to understand the basic elements of the power system.
			b	They will analyse the power system in steady state conditions.
			c	Be able to work in a team and communicate effectively.
2	EE 303	Control Systems	a	Understand the need of control systems and controllers with knowledge of practical control systems.
			b	Learning Time domain analysis of the system.
			c	To find the absolute and relative stability of the system using various time and frequency domain techniques.
			d	Experimentation on various practical control systems in the laboratory to understand operation and control of various practical control systems
3	EE 305	Electrical Measurements	a	They will be measure resistance, inductance and capacitance by various methods.
			b	Describe the standards.
			c	Explain the principle and construction of instrument transformers.
			d	Explain and identify measuring instruments.
4	EE 307	Microprocessors and Microcontrollers	a	Describe an 8 bit microprocessor architecture(8085A)
			b	Explain the concepts of memory and I/O interfacing with microprocessor
			c	Explain the concept of interrupts, buses and microprocessor based system architecture.
			d	Describe an 8 bit microcontroller architecture- 8051
			e	Program assembly language programming of 8051
			f	perform experiments on assembly language programming
5	EE 315 (Elective)	Optimization Methods	a	Explain basic theoretical principles in optimization.
			b	Formulate optimization problems.

			c	Apply linear programming and integer programming to solve optimization problems.
			d	Use of various algorithms to solve single variable and multi-variable nonlinear optimization problems.
	EE 317 (Elective)	Special Electrical Machines	a	Describe the basic principles of special Electrical machines.
			b	Analyse the steady state performance of special Electrical machines.
			c	Identify the applications of the special Electrical machines.
	EE 311 (Elective)	Engineering Electromagnetics	a	apply vector analysis for electrostatics and electromagnetics problems
			b	describe and analyse electrostatics
			c	describe and analyse magnetics and electromagnetics
			d	describe electromagnetic wave propagation and transmission lines
6	EE 309	Mini Project	a	Learning latest trends and technology in selected field of interest.
			b	Apply the acquired knowledge to practical situations.
			c	Develop self interest to explore the selected technical field of interest in future
			d	Acquire presentation skills.
			e	Develop better interpersonal communication skills and increase self confidence.