Course Outcomes (CO) - B. Tech. - SEMESTER – VI

Sr. No.	Course Code	Course	Code	Course Outcome
1	EE 302	Microcontroller and Embedded System	a	write embedded "C'' programs.
			b	describe various embedded software architectures.
			c	Explain the use of 8051 peripherals like LCD,7 segment LED display, keys ,ADC-DAC , UART SPI port etc.
			d	Perform the experiments for microcontroller interfacing and applications
2	EE 304	Power Systems Analysis	a	To understand one line diagram, per unit system and impedance diagram
			b	To acquire the ability to analyse symmetrical fault, current limiting reactor and use of impedance matrix.
			c	analyse unbalances fault conditions using symmetrical components
			d	Explain the power system transients, stability, FACTS and HVDC.
			e	Use of software (MATLAB, ETAP etc.) to study stability and fault.
3	EE 306	Power Electronic Converters	a	will acquire theoretical and practical knowledge on semiconductor devices and their control.
			b	Will develop an understanding of operation of various power electronic converters and be able to do qualitative and quantitative analysis of converters using their model equations
			c	To simulate Power Electronic Converter systems using technical software's like PSIM
			d	Will be able to build a laboratory prototype of Power Electronic Converter systems
4	EE 308	Instrumentation	a	Explain the principle of electrical transducers.
			b	Explain working and usage of electronic voltmeter and oscilloscope.
			c	Apply operational amplifiers as signal conditioners.
			d	Operate various testing instruments.

5	EE 316 (Elective)	State Variable Analysis	a	After understanding this course, students would be able to construct state models for continuous, discrete, linear as well as non-linear systems from diverse fields. As a result of this, they would be broader.
			b	They would be able to design estimation and control algorithms, since the algorithms exploit state models.
			c	They would be able to analyse critically the qualitative characteristics of systems, since state models are the beginning point for the qualitative characteristics of systems.
			d	They would be able to choose suitable models that have ability to construct sharper and refined versions of algorithmic procedures.
6	EE 312	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.