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

Sr. No.	Subject Code	Course Title	Code	Course Outcome
1	EE 401	Electronic Instrumentation	a	explain digital measurement techniques.
			b	use of data acquisition and data converters.
			c	Apply programmable logic controllers.
			d	describe distributed control systems.
2	EE 403	Electrical Drives	a	explain control of different types of DC Motor drives.
			b	explain control of different types of AC Motor drives.
			c	Simulate electrical drive systems through PSIM and MATLAB-SIMULINK software.
			d	Able to test and troubleshoot different electric drives.
3	EE 405	Switch Gear & Protection	a	Explain different types of circuit breakers and fuse with respect to their construction, theory and applications.
			b	Describe concepts and working of different types of relays.
			c	Explain use of current transformer and potential transformer in protection.
			d	Demonstrate various protection schemes used to protect different power system components.
			e	Simulation of various phenomenon of circuit breakers and operation of different numerical relays and electromechanical relays.
4	EE 417 (ELECTIVE)	Discrete Control System	a	After understanding this course, students would be able to implement algorithms on digital computers.
			b	They would be able to design complex algorithms as well as examine their efficacy.
			c	They would be able to solve complex problems accounting non-linearity as well as stochasticity because of available fast processors.
			d	They would be able to design networked control systems, since that account the notion of digital control, communication channels. They will generate ability to design interconnected systems as well.

	EE 419 (ELECTIVE)	Digital Signal Processing	a	Theoretical exposure to digital signal processing algorithms.
			b	Application of FFT algorithms.
			c	Simulation using MATLAB to verify DSP algorithms.
			d	Design and implementation of different types of IIR and FIR digital filters.
5	EE 407	Seminar	a	Exploring the vital areas of electrical engineering beyond the syllabus.
			b	Rereading the existing literature on selected topics and understanding the research done by different researchers.
			c	Implementation and verification of selected topic through simulation/hardware and documentation.
6	EE 409	Project Preliminary	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	Develop better interpersonal communication skills and increase self confidence.