<b>Course Outcomes</b>	(CO) - B.	Tech	SEMESTER -	- VIII
course outcomes	$(00)$ $\mathbf{z}$			

Sr.	Subject		Code	Course Outcome	
No.	Code	Course Thie			
1 EE 402		Power System Operation and Control	a	To be able to develop computer programs to perform power flow analysis on a power system.	
			b	To be able to define automatic generation control scheme on a power system and analyze generation control on a power system using simulation tools.	
	EE 402		с	To be able to define generation dispatching on a power system and develop generation dispatching schemes using MATLAB.	
			d	To be able to define State Estimation problem and analyze state estimation of a power system using analysis programs	
			e	To be able to define contingency analysis on a power system and perform contingency studies using a power flow analysis program.	
		Electrical 404 Machine Design	a	Demonstrate the basic steps involved in design of electrical machines	
2	FF 404		b	Calculate and analyse the performance of electrical machines	
	LL +0+		с	Adjust the design parameters as per performance requirements.	
			d	Do complete design of transformers, induction machines, dc machines and synchronous machines	
3 EE 406		a	Theoretical and practical knowledge on modern day semiconductor devices, their characteristics and control.		
		Advanced Power Electronic Converters & Applications	b	Understanding operation and analysis of switched mode DC- DC converters and their designing.	
	FF 406		с	Knowledge of power conditioners and their application.	
	EE 400		d	Working knowledge of static applications of advanced power electronics like UPS, HVDC, Automotive, Renewable Energy etc.	
			e	Learning power electronics system simulation and advanced control methods.	

EE418 (Elect ve) EE424 4 (Elective EL 606 (Elective		Industrial Instrumentati on	а	Theoretical knowledge of sensing industrial and process parameters
	EE418		b	Theoretical knowledge of analytical instruments
	(Electi		с	Theoretical knowledge of industrial data communication
	(0)		d	Theoretical knowledge of design of industrial instrumentation systems
			a	They would be able to design control of a broader class of systems, since the non-linear systems are ubiquitous.
	EE424	EE424 Optimal (Elective) Control theory	b	They would be able to achieve optimal control, optimal estimation of dynamical systems as well.
	(Elective)		с	They would be able to generalize available classical results for linear cases.
			d	They would be able to address complexity, dimensionality of real physical systems.
	EL 606 (Elective)	Introduction to 32 bit DSC	a	To understand architecture of a 32 bit DSC (STM32F4xx)
			b	Advanced concepts in embedded 'C' programming.
			с	Practical understanding of embedded systems program development tool chain.
			d	In-depth understanding of various peripherals (TIMERS, PWM TIMERS, ADC DAC etc.) and their programming
			e	Hands on Experiments of programming and DSC interfacing
5	EE 408	Project	a	Learning latest trends and technology in selected field of interest.
			b	Simulation and implementation of the set up.
			с	Exposure to related interfacing, controlling and programming
			d	Learning technical report writing and presentation.