VidyaVikas Education Trust's
Universal College of Engineering, Kaman Road, Vasai-401212
Department of Electronics Engineering

Course Outcome (CO) for each course:

After completing the course, the student will

Year/Class/ Semester: T E ETRX / V

Subject Code	Subject Name	COs	
EXC 501	MICROCONTROLLER & APPLICATIONS	CO1	Difference between microprocessor and microcontroller, explain advantages of microcontroller 8051.
		CO2	Design assembly programming for applications of 8051 microcontroller hardware and software.
		CO3	Explain architecture of ARM7 and assembly programming for the same.
		CO4	Student will get the idea of applications for data transfer.
EXC 502	DESIGN WITH LINEAR INTEGRATED CIRCUITS.	CO1	Understand the fundamentals and areas of applications for the Integrated Circuits using OPAMP.
		CO2	Design filters, oscillators and nonlinear application like generators, rectifiers and comparators
		CO3	Design Special Purpose Integrated Circuits like 555 timer with real time applications
		CO4	Understand the differences among different voltage regulators and their uses and analyze types of ADC, DAC.
EXC 503	ELECTROMAGNETIC ENGINEERING	CO1	Qualitatively describe and quantitatively compute nature of electric or magnetic fields produced due to different charge distributions.
		CO2	Describe the propagation of electromagnetic waves in free space and other media.
		CO3	Calculate potentials of boundary value problems using FEM,FDM
		CO4	Identify various problems affecting wave propagation and their effects on antennas.
EXC 504	SIGNALS AND SYSTEMS	CO1	Understand the fundamental characteristics/classification of Signals and Systems
		CO2	Understand the process of sampling and apply State Space analysis for continuous and discrete time LTI System.
		CO3	Apply the Laplace Transform to analyze continuous

			and discrete time signals and systems
		CO4	Analyze characteristics of discrete time signals and systems by using Z -Transform
		CO5	Apply the Fourier Transform to analyze continuous and discrete time signals and systems
		CO6	Evaluate ESD, PSD, Autocorrelation, cross-correlation and the relationship between them
EXC 505	DIGITAL COMMUNICATION	CO1	Understand the basic concept of information theory and source coding and probability theory in communication system.
		CO2	Understand the various line codes and pulse shaping for optimum transmission.
		CO3	Understand various digital modulation techniques
		CO4	Understand concept of error control codes and spread spectrum modulation.