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: S.E. ETRX / III

Subject Code	Subject Name	COs	
ELX301	APPLIED MATHEMATICS –III	CO1	Understand the basic concept of Laplace and inverse Laplace transformation
		CO2	Solve Fourier transformation
		CO3	Solve vector differentiation and integration
		CO4	Understand basic knowledge of complex variable and Bessel function for electronics design
ELX302	ELECTRONIC DEVICES AND CUIRCUITS-I	CO1	Understand basic of PN junction diode and other different types of diode
		CO2	Understand working and construction of BJT ,different configuration and models
		CO3	Understand JFET and MOSFET in detail
		CO4	Design of different circuit and study filters and regulator
ELX303	DIGITAL CIRCUIT DESIGN	CO1	Understand various number systems and codes and their inter conversions, Also perform arithmetic operations
		CO2	Understood Boolean algebra for minimization and implementation of logic functions and various Combinational circuits
		CO3	Differentiate between logic families CMOS and TTL
		CO4	Analyze design and implement sequential logic circuits
ELX304	ELECTRICAL NETWORK ANALYSIS AND SYNTHESIS	CO1	Apply the theorems knowledge in analysing Circuits by using network theorems.
		CO2	Apply the time and frequency method of analysis.
		CO3	Find the various parameters of two port network.
		CO4	Synthesize the network using passive elements.
		CO5	Synthesis of electrical networks and study various filters.
ELX305	ELECTRONIC INSTRUMENTATIO N AND MEASUREMENT	CO1	Understand the generalised measurement system, static and dynamic characteristics and errors in measurements
		CO2	Apply bridge circuit for measurement of unknown resistance, inductance and capacitance
		CO3	Analyse the principles used in CRO and DSO and usage of the instruments
		CO4	Get acquainted with digital instruments, signal

			generators and wave analysers.
		CO5	Compare various sensors for displacement, pressure and temperature, level and flow measurement.