



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 / IV

Subject Code	Subject Name	COs
ELX401	APPLIED MATHEMATICS –IV	CO1 Demonstrate basic knowledge of Calculus of variation, Vector Spaces, Matrix Theory, Random Variables, Probability Distributions, Correlation and Complex Integration. CO2 Demonstrate an ability to identify and Model the problems in the field of Electronics and Telecommunication and solve it. CO3 Apply the application of Mathematics in Telecommunication Engineering
ELX402	ELECTRONIC DEVICES AND CIRCUITS-II	CO1 Understand amplifiers through frequency response. CO2 Perform DC and Ac analysis of single stage and multistage amplifiers, oscillators, differential amplifiers and power amplifiers. CO3 Derive expression for performance parameters in terms of circuit and device parameters. CO4 Select appropriate circuit for given specifications/applications. CO5 Explain working and construction details of special, semiconductor devices.
ELX403	MICROPROCESSORS AND APPLICATIONS	CO1 Understand and explain 16-bit microprocessor architecture. CO2 Understand and write programmes for 8086 microprocessor. CO3 Use various peripheral devices to design Single Board Computer(SBC). CO4 Understand and explain 32-bit microprocessor architecture.
ELX404	DIGITAL SYSTEM DESIGN	CO1 Design and implement synchronous sequential logic circuits. CO2 Analyze various types of digital logic circuits. CO3 Understand engineering concepts in the design of digital circuits. CO4 Understand the role of hardware description languages in digital circuit implementation. CO5 Describe simple hardware functions using a hardware



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		description language.
ELX405	PRINCIPLES OF COMMUNICATION ENGINEERING	CO1 Comprehend the need for various components in analog communication systems CO2 Analyse various analog modulation methods CO3 Design modulators, demodulators for amplitude and frequency modulated systems. CO4 Assess the characteristics of pulse modulation techniques. CO5 Recognize the need for multiplexing techniques
ELX406	LINEAR CONTROL SYSTEMS	CO1 Understand the basic concepts of control system and identify control systems in real life applications. CO2 Derive the mathematical model of different types of control systems and represent them in various forms CO3 Analyze systems using time domain analysis techniques CO4 Apply concepts of frequency domain techniques in stability analysis of control systems CO5 Create state variable models of systems and analyze their controllability, observability and time response CO6 Identify controllers and compensators in different controllers.