



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: B E ETRX / VII

Subject Code	Subject Name	COs
EXC 701	EMBEDDED SYSTEM DESIGN	CO1 Describe features of Embedded System CO2 Compare programmable devices for Embedded System CO3 Analyse and select suitable memory, I/O and peripheral devices CO4 Apply concept of Real Time Operating System
EXC 702	IC TECHNOLOGY	CO1 Discuss CMOS fabrication flow and technology scaling for physical mechanism in novel devices CO2 Demonstrate a clear understanding of various MOS fabrication processes CO3 Understand semiconductor measurements, packaging, testing CO4 Understand advanced semiconductor technologies
EXC 703	POWER ELECTRONICS -II	CO1 Analyse the effect of source inductance in rectifier and Understand the different types of modulation technique for 3-phase voltage source inverter CO2 Understand the average and state space model of different types of DC - DC converter and realize the effect of PI and PID controllers for DC-DC converter CO3 Application of power electronics system how it is used in SMPS ,Battery, UPS,and induction heating CO4 Understand the various schemes of DC motor speed control and compare the various schemes of 3- phase induction motor speed control
EXC 704	COMPUTER COMMUNICATION NETWORK	CO1 Explain different types of communication networks and modes of data transmission in digital transmission systems. CO2 Identify error control techniques and protocols associated with data link layer CO3 Summarize various routing and routed protocols associated with network layer CO4 Summarize congestion control mechanisms used in circuit and packet switched communication networks associated with transport layer.



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		CO5 Demonstrate the significance of software layer protocols and IP addressing schemes used in networking using software tools
EXC 7051	DIGITAL IMAGE PROCESSING	CO1 Understand the concept of Digital Image processing. CO2 Explain image enhancement and Segmentation technique. CO3 Understand Digital Image compression and decompression techniques CO4 Perform Binary Image Processing Operations
EXC 7052	OPTICAL FIBRE COMMUNICATION	CO1 Understand light wave propagation through fiber CO2 Identify structures, materials, and components used in optical link CO3 Analyze transmission characteristics of fibre CO4 Design and management of optical fibre links