DEPARTMENT OF ELECTRONICS ENGINEERING

COURSE OUTCOMES

Year/Class/Semester: B.E./ ELX / VII

Subject Code	Subject Name	CO's
ELX701	Instrumentation System Design	At the end of the course student will be able to: CO1- Demonstrate the needs of advancement in instrumentation systems CO2- Select the proper components for pneumatic & hydraulic systems CO3- Choose the transmitter / controller for given process application CO4- Analyze the controller parameters for discrete or continuous type CO5- Design the controller (electronic) for a given process or application
ELX702	Power Electronics	At the end of the course student will be able to: CO1- Discuss trade-offs involved in power semiconductor devices. CO2- Design of triggering, commutation and protection circuits for SCRs. CO3- Analyze different types of single-phase rectifiers and DC-DC converters. CO4- Analyze different types of DC-AC converters (inverters). CO5- Analyze different types of AC Voltage Controllers and Cycloconvertors.
EXC703	Digital Signal Processing	At the end of the course student will be able to: CO1- Demonstrate an understanding of the discrete-time Fourier transform and the concept of digital frequency. CO2- Design FIR and IIR digital filters to meet arbitrary specifications and Develop algorithms for implementation CO3- Understand the effect of hardware limitations on performance of digital filters **CO4-** Use advanced signal processing techniques and digital signal processors in various applications
ELXDLO 7033	Robotics	At the end of the course student will be able to: CO1- Understand the basic concepts of robotics CO2- Perform the kinematic and the dynamic analysis of robots CO3- Perform trajectory and task planning of robots CO4- Describe importance of visionary system in robotic manipulation

| ILO7016 | Cyber Security and Laws | At the end of the course student will be able to:
CO1- Understand the concept of cybercrime and its effect on outside world
CO2- Interpret and apply IT law in various legal issues
CO3- Distinguish different aspects of cyber law
CO4- Apply Information Security Standards compliance during software design and development |