

DIGITAL AUTOMATIC CONTROL LABORATORY

Laboratory Information

Lab Name: Digital Automatic Control Laboratory

Room No.: 105 - Colleges of Engineering and Technology

Capacity: 20 students

This laboratory attempts to clarify some of the concepts of digital control and digital circuit applications. Using advanced digital design computer software, students gain the knowledge of the various methods of digital circuit integration, circuit analysis and also power system analysis. Practical digital applications are investigated using microcontroller kits, circuit kits, programmable logic controllers and robotic equipment.

Major Equipment

DC Motor Control Simulator

Traffic Control Simulator

Washing Machine Simulator

Mentor Robot Arm

7 PC Dell OptiPlex 760, Intel Core2Duo 3.0 GHz desktop computer with USB keyboard, an optical mouse and LCD 19" monitor

Robotic Arm

Wheel Drive Robots

Omni Directional Wheel Robot

8 Microcontroller Development Board (microcontroller ATmega – Arduino uno – Signal Conditioning Circuit-Encoder)



Laboratory Serves the following courses:

Course Code	Course Title	Semester
EE 417	Automatic Control Engineering	7 th
CC 442	Digital Design & Introduction to Microprocessors	6 th