

Digital Systems Lab

Description

Microprocessors/microcontrollers based systems are being used in modern digital electronic designs for a wide spectrum of applications. This course will provide students an opportunity to study internal architecture of micro-processor/controller and to learn how to exploit its power by interfacing and programming them to solve real world problems. The key objectives of the course include an introduction to the fundamentals of microprocessor/controller based systems, provide an opportunity to learn hardware and software design concepts and translate these to develop solutions for practical problems

Sr.	Apparatus Name
1	Digital oscilloscope
2	Computers I5
3	<u>TM4C123GXL TM4C123G LaunchPad Evaluation Kit</u>
4	16x4-lcd-display
5	GSyroscope-accelerometer-module
6	<u>MQ2 Gas Sensor – Methane, Butane, LPG, smoke Sensor</u>
7	<u>MQ7 Gas Sensor – Carbon Mono Oxide Sensor</u>
8	motor-driver-module(1298/1293D)
9	stepper motor-driver-module(A4988)
10	two wheeler robot kit complete
11	UNI-T UT262A Non-Contact Phase Detector
12	Digital Electronic MODULE
13	Digital Converter MODULE
14	Operational Amplifier MODULE
15	Decoder & Encoder
16	Flip & Flops
17	Logic Circuit
18	DC. Power supply unit

19	Digital Multi Meter
20	MCMBB/EV PROTOTYPE CIRCUIT DEVELOPMENT
21	Telecom MODULE
22	BREADBOARD MODULE AC-9001