

## About the Institute

L. D. College of Engineering, Ahmedabad is a premier Engineering college in Gujarat State set with the objectives of imparting higher education in various fields of engineering. The institute is affiliated to Gujarat Technological University and administrated by Department of Technical education, Gujarat State. Sheth Shri Kasturbhai Lalbhai established institute in 1948 with generous donation. It is situated adjacent to Gujarat University and at nucleus of various national level institutes like PRL, ATIRA, ISRO, IIM etc. The campus consists of buildings for various departments, offices, hostels and library with 45,220 sq. meter plinth area. The institute made a modest start with 75 students for undergraduate programs in 1948, post graduate programs in 1954. At present institute run 16 undergraduate, 15-post graduate and 4 part-time programs. Each department has modern, fully equipped laboratories for U.G. and P.G. programs. Most of the laboratories are recognized for testing and standardization by the various organizations.

## About Department

The Instrumentation and Control Department is NBA accredited in 2021. The department offers B.E. in IC Engineering and M.E in Applied Instrumentation. IC Engineering Department is equipped with the finest laboratories and equipments in the area of Process measurements, Process Instruments, Process Control, Embedded systems, Advanced Electronics. The computer centre of the department is equipped MATLAB, LABVIEW, Multisim/Utiboard simulation softwares. The department has CoE facilities in the area of DCS, SCADA and PLC. Department has more than five MoU with different companies under Industries and Academia interaction for training, seminar, project and dissertation work.

### Contact Person

Gaurav Mishra  
President,  
ISA Student Section LDCE  
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## About GUJCOST

The Gujarat Council on Science and Technology (GUJCOST) was established in September, 1986 to play a catalytic role in promoting the use of Science and Technology in the development process of the State. The S&T Council was constituted with a view to develop technologies appropriate to and in harmony with present conditions. The Council has been catalyzing interaction between developers and users of technologies by bringing them on a common platform for training Scientists and Engineers on the one hand and policy makers as well as administrators on the other.

## Objectives of GUJCOST

The GUJCOST has following objectives:

- To encourage R & D activities in various sectors by monitoring the development. It feed available information to assess and recommend financial support for such efforts.
- To devise policy guidelines for academic and field policies for the purpose of strengthening the planning and programming amenities for the development of science and technology.
- To advise the State Government on policies and measures relating to the development and deployment of Science and Technology manpower resources.
- To promote the popularization of science and the spread of a scientific temper and attitude among the people of the State.

## Program Schedule

**Duration: 12<sup>th</sup> to 16<sup>th</sup> September, 2022**

### Important Dates:

Last Date of receiving Application: 06/09/2022  
Commencement of Programme : 12/09/2022 to 16/09/2022

## HANDS ON WORKSHOP ON BLENDED LEARNING APPROACH USING EMBEDDED SYSTEMS AND ITS APPLICATIONS

(12<sup>th</sup> to 16<sup>th</sup> September, 2022)



### Organized by

**Instrumentation & Control Engineering Department  
L. D. College of Engineering, Ahmedabad**

**Website: [www.ldce.ac.in](http://www.ldce.ac.in)**

### Sponsored by

**Gujarat Council on Science & Technology  
(GUJCOST)  
Department of Science and Technology  
Government of Gujarat**



## Objectives of the Program

- To Correlate fundamental knowledge of embedded systems and its applications.
- To prepare and train participants for the various industrial applications related embedded systems with different technologies and tools
- To provide hands on experience with sensor interfacing as well various simulation tools of Aurdino and Raspberry Pi.

## Course Contents of the Workshop

- Basics of Microcontroller and Raspberry Pi with its Software and Hardware component.
- Arduino and Raspberry Pi Programming with practical hands on exercise.
- Digital sensor interfacing like proximity sensor, PIR Sensor etc.
- Arduino interfacing with Raspberry Pi Motor control.
- Surveillance robot demonstration using Raspberry Pi & Arduino.

## Resource Persons:

Eminent speaker from the industry like ISRO, Optimized solution, ACDC, eInfochip.

## Eligibility for Admission

Students who are pursuing their final or pre-final year of graduation (Degree/Diploma)

## Course Fee and Registration

₹200/- for students from AICTE/UGC approved institutes.

Course fee includes tea, refreshments and kit. Participants are required to make their own arrangements for lodging, boarding and travelling.

## How to apply

Interested participants from Engineering colleges, polytechnics, P.G./Ph.D. Students, are requested to apply **on or before 6<sup>th</sup> Septmeber 2022.**

### Chief Patron

Dr. R. K. Gajjar  
Principal-LDCE Ahmedabad

### Patron

Dr. K. P. Badgujar  
I/C Principal,  
HoD Electrical Engg. Department

## Organizing Committee

### Convener

Dr. Manish Thakker  
HoD I&C Engg. Department

### Program Coordinators

Dr. Tejas V. Shah  
Associate Professor, I&C Engg. Dept.

Dr. Ankit K. Shah  
Assistant Professor, I&C Engg. Dept.

### Committee Members

Prof. Vandana V. Patel  
Assistant Professor, I&C Engg. Dept.

Prof. Harsh K. Shastri  
Assistant Professor, I&C Engg. Dept.

## L. D. COLLEGE OF ENGINEERING AHMEDABAD

### GUJCOST –DST Sponsored

## 5 Days HANDS ON WORKSHOP ON BLENDED LEARNING APPROACH USING EMBEDDED SYSTEMS AND ITS APPLICATIONS

12<sup>th</sup> to 16<sup>th</sup> September, 2022

### Registration Form

1. Name of Participant:
2. Semester:
3. Enrollment number:
4. D.O.B.:
5. Name of the Institute:
6. Address:
7. E-mail :
8. Mobile No.:
9. Can you bring your laptop: Yes/No

Date:

Signature of Applicant

Verified By:.....