

# L.D College of Engineering Department of Instrumentation and Control Engineering Presents



### Webinar Series

Content Beyond Syllabus

Department of IC Engineering under the ISA Student Section LDCE, organize various webinars, industrial visit, workshops and invited talks for the students including industries and alumni.

To address the short coming in Curriculum to attain the program out comes Department Faculties handling the course took initiative to organize this webinar series on content beyond syllabus Topic such as Virtual Instrumentation application, Introduction and application on PID controller, Introduction to VLSI design more..



FROM OCT 7 TO OCT 23

PLATFORM: MICROSOFT TEAM

## Comidemits

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#### Dr. M. T. Thakker

- Virtual Instrumentation application in Automation
- Instrumentation for Measurement of surface Properties

#### Prof. U. V. Shah

Step Motor Drives

#### Prof. V. P. Patel

Real time controller implementation on digital systems

#### Dr. R. C. Patel

ARM Cortex Micro-controller architecture and applications

#### Prof. M.C. Patel

Introduction to VLSI design and FPGA

#### Prof. V. V. Patel

Implementation and application of PID controllers

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#### Prof. H. K. Shastri

Importance of Moisture measurement in FMCG Industries

### Dr. A. K. Shah

• Implementation and application of PID controllers

#### Prof. L. S. Patel

Non sequential counter design

### Prof. D. V. Raninga

 AC Power: Complex power, apparent power and power triangle, power factor improvement, Related problems solving

#### Prof. C. V. Shah

Modern Wireless Transmitter use in Process Industry

#### Prof. S. N. Shah

Algorithms to Control the UAV

## Comilemits

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### Prof. U. G. Suhagiya

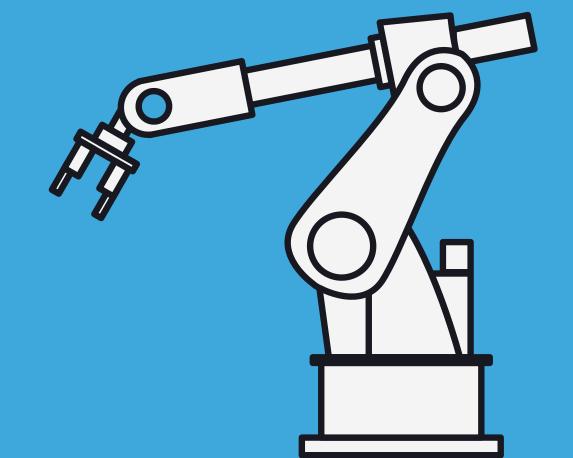
• FFT/IFFT sampling for OFDM

#### Prof. N. A. Kanani

Home Automation Robots - Changing the World

### Prof. K. R. Joshi

• Importance of S/H and ADC for Data Acquistion System Configurations



## VIRTUAL INSTRUMENTATION APPLICATION IN AUTOMATION

Students learn various application for development of automation system using Virtual Instrumentation.

### SPEAKER:



DATE: 13 OCT 2020

FOR V & VII SEM

DR. M.T.THAKKER

PROF. AND HEAD
IC DEPARTMENT
FACULTY ADVISIOR-ISA

## INSTRUMENTATION FOR MEASURMENT OF SURFACE PROPERTIES

Students learn about various industrial application (Pharma, Paint, Cement, Food etc.) with image processing, force trasducers for surface properties measurment.

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### SPEAKER:



DATE: 13 OCT 2020

FOR V & VII SEM

DR. M.T.THAKKER

PROF. AND HEAD

IC DEPARTMENT

FACULTY ADVISIOR-ISA

### STEPMOTOR DRIVES

To bridge the gap
between text book
based drives and real
world drives. To
introduce element of
design in curriculum.

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### SPEAKER:



PROF. U. V. SHAH
ASSOCIATE PROFESSOR

**DATE: 8 OCT 2020** 

FOR VII SEM

## REAL TIME CONTROLLER IMPLEMENTATION ON DIGITAL SYSTEMS

Students will learn
various methods to
implement real time
controller on digital
systems
(PC,Microprocessors,Mi
crocontrollers,etc...)



### SPEAKER:



DATE: 20 OCT 2020

FOR V & VII SEM

PROF. V.P. PATEL
ASSOCIATE PROFFESSOR.
TPO - LDCE

## ARM CORTEX MICROCONTROLLER ARCHITECTURE AND APPLICATIONS

Student will learn 32 bit microctontroller architecture and their industrial applications.

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### SPEAKER:



DR. R.C. PATEL
ASSOCIATE PROFESSOR

**DATE: 21 OCT 2020** 

FOR V SEM

## INTRODUCTION TO VLSI DESIGN AND FPGA

Students will be able to learn verilog language and aware of FPGA plateform.



### SPEAKER:



PROF. M.C. PATEL
ASSITANT PROFESSOR

DATE: 22 OCT 2020

FOR III SEM

## IMPLEMENTATION AND APPLICATION OF PID CONTROLLERS

Students
will able to learn
application of different
controllers and issues
with the
implementation
(Process Control,
Process dynamics and
control).

SPEAKER:



**DATE: 15 OCT 2020** 

FOR VII & V SEM

PROF. V.V. PATEL
ASSITANT PROFESSOR

## IMPORTANCE OF MOISTURE MEASUREMENT IN FMCG INDUSTRIES

Student will learn about trending instruments, criticality of measurement also responcibilities as an instrumentation engineer in plant.



### SPEAKER:



DATE: 14 OCT 2020

FOR V & VII SEM

PROF. H.K. SHASTRI

ASSITANT PROFESSOR FACULTY CO-ORDINATOR - ISA

## IMPLEMENTATION AND APPLICATION OF PID CONTROLLERS

Students
will able to learn
application of different
controllers and issues
with the
implementation
(Process Control,
Process dynamics and
control).



### SPEAKER:



DR. A.K. SHAH
ASSITANT PROFESSOR

**DATE: 15 OCT 2020** 

FOR VII & V SEM

# NON SEQUENTIAL COUNTER DESIGN

Students will able to design non sequential counter for some specific counting applications.

### SPEAKER:



PROF. L.S. PATEL
ASSITANT PROFESSOR

DATE: 07 OCT 2020

FOR III SEM

## A.C POWER AND RELATED PROBLEM SOLVING

AC Power: Complex
power, apparent power
and power triangle,
power factor
improvement, Related
problems solving.

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### SPEAKER:



DATE: 16 OCT 2020

FOR III SEM

PROF. D.V. RANINGA

ASSITANT PROFESSOR

## MODERN WIRELESS TRANSMITTER USE IN PROCESS INDUSTRY

Student
will be able to learn
about Wirless
Transmitter in Industry.

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### SPEAKER:



PROF. C.V. SHAH
ASSITANT PROFESSOR

DATE: 22 OCT 2020

FOR V & VII SEM

## ALGORITHM TO CONTROL THE UAE

Student will be able to learn about various control algorithms to Control UAV.

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### SPEAKER:



PROF. S.N. SHAH
ASSITANT PROFESSOR

DATE: 23 OCT 2020

FOR VII SEM

## FFT/IFFT SAMPLING FOR OFDM

Student
will be able to learn the application of FFT/IFFT.

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### SPEAKER:



DATE: 23 OCT 2020

FOR III & VII SEM

PROF. U.G. SUHAGIYA
ASSITANT PROFESSOR

## HOME AUTOMATION ROBOTS - CHANGING THE WORLD

Student
will learn about the
new era of home
automation.

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### SPEAKER:



PROF. N.A. KANANI
ASSITANT PROFESSOR

DATE: 13 OCT 2020

FOR V SEM

# IMPORTANCE OF S/H AND ADC FOR DATA ACQUISTION SYSTEM CONFIGURATIONS

student will understand interfacing considerations in analog and analog to digital system.

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### SPEAKER:



PROF. K.R. JOSHI
ASSITANT PROFESSOR

**DATE: 15 OCT 2020** 

FOR III SEM