

Department of Electronics and Communication Engineering



CMR TECHNICAL CAMPUS

Kandlakoya(V), Medchal Road, Hyderabad – 501 401



One Week Short Term Training Program (STTP)

On

**Electronic Circuit Simulation, Data Acquisition & Signal
Conditioning**

14th – 18th October 2019

Coordinator

Mrs Ch. Sudhamani

Convener

Prof G Srikanth, HOD

Director

Dr A Raji Reddy



Department of Electronics and Communication Engineering CMR TECHNICAL CAMPUS

Accredited by NAAC – A Grade

(Accredited by NBA, Permanently Affiliated to JNTUH & Approved by AICTE)

Kandlakoya, Medchal Road, Hyderabad – 501 401



Chief Patron:

Sri.C.GopalReddy, Chairman

Smt. C.VasanthaLatha, Secretary

Patrons:

Dr.A. Raji Reddy, Director

Convener:

Prof. G. Srikanth.

Professor & HOD ECE Dept

Faculty Coordinator:

Mrs. Ch. Sudhamani

Assoc Professor, ECE Dept

Organizing Committee:

Dr K. Bharath Kumar

Assoc Professor, ECE Dept.

Mr. MD. Abdul Naqi

Asst Professor, ECE Dept

Mr. D. Sreekanth

Asst Professor, ECE Dept.

Mr. T. Nagarjuna

Asst Professor, ECE Dept.

Date: 4th October 2019

INVITATION

Dear Sir / Madam,

Sub: Invitation for Inauguration of One Week Short Term Training Program on “NI LabVIEW CORE”.

We the department of Electronics and Communication Engineering are organizing a One Week Short Term Training programme on “ **Electronic Circuit Simulation, Data Acquisition & Signal Conditioning**”. In this regard we are pleased to invite you for the Inauguration function on **14th October 2019 at 10:00 AM**. We would be indebted to have your presence.

Venue: BLOCK – B, Room No: 329 A.

ABOUT THE FDP:

LabVIEW provides the state-of-the-art way to effectively teach and learn basic and advanced engineering concepts using a Embedded system design. Nowadays engineers and scientists rely on LabVIEW for a variety of applications: test and measurement, process control and automation, monitoring and simulation. The objective of faculty development program is to present theoretical and practical concepts and hands-on in LabVIEW intended to teach participants tools of LabVIEW with an emphasis on various applications. This Faculty Development Programme will introduce the fundamental principles of Embedded system design using NI LabVIEW. Hands on training with NI hardware will also be given to the participants. The experts from NI, Hyderabad will conduct the training sessions.

Thanking you,

Yours Cordially,
Prof G. Srikanth
Head-ECE Department

Chief Patron: Shri Ch. Gopal Reddy.

Chairman, CMRTC

Smt. C. Vasantha Latha.

Secretary, CMRTC

Patron : Dr. A. Raji Reddy.

Director, CMRTC

Convener: Prof. G. Srikanth.

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ABOUT THE COLLEGE

CMR Technical Campus has been structured to take a quantum leap on the changing trends of technology. The Institute is accredited by NAAC A grade. The need of setting up the college emerged when no other college could fulfil to the aspirations of a student in his/her endeavour to acquire wholesome education.



The very strength of CMR Technical Campus lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen. Over the years since it has been established, there has been dynamic progress at CMRTC in all academic and research activities, and a spectacular improvement in facilities and infrastructure, to keep it on par with the best institutions in India. The campus epitomizes the Technical Campus motto, "Learning and exploring" in providing the best of infrastructure and ambience. CMR Technical Campus keeps abreast of the global situation.

ABOUT THE DEPARTMENT

The Department of Electronics & Communication Engineering (ECE) established in year 2010 with an intake of 60 students, present intake of 180. The Department is accredited by NBA in the year 2014. Right from its inception it is continuously striving to impart quality education and promoting competitive spirit among the student for academic excellence. Department started M.Tech in Embedded Systems from Academic year 2012-13 with intake of 24.

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Kandlakoya (V), Medchal(M), Hyderabad - 501401



One Week Short Term Training Program (STTP)

On

Electronic Circuit Simulation, Data
Acquisition & Signal Conditioning

14th – 18th October 2019



**Organised by
Department of
ELECTRONICS AND
COMMUNICATION ENGINEERING**

Department has highly talented, qualified and competent faculty members in the areas of Digital Signal Processing, Image Processing, VLSI & Embedded Systems and is enriched with five doctorates. Department of Biotech funded Foldo-scope worth of 8 lakhs.

In collaboration with National Instruments (NI), LabVIEW Academy has been established in the college with a budget of 40 Lakhs. The facility is funded by the Department of Science & Technology under FIST program by Government of India.

ABOUT THE PROGRAMME

LabVIEW provides the state-of-the-art way to effectively teach and learn basic and advanced engineering concepts using a LabVIEW. Nowadays engineers and scientists rely on LabVIEW for a variety of applications: test and measurement, process control and automation, monitoring and simulation. The objective of short term training program is to present theoretical and practical concepts and hands-on in LabVIEW intended to teach participants tools of LabVIEW with an emphasis on various applications.

This short term training programme will introduce the fundamental principles of LabVIEW. Hands on training with NI hardware will also be given to the participants. The experts from NI, Hyderabad will conduct the training sessions.

RESOURCE PERSONS

Experts from **National Instruments, Hyderabad.**

MODULE- 2 SCHEDULE

Day 1 :

09.30-11:15: Revision for basics of module 1 and Design patterns

11.15-11.30: Tea Break

11.30-12:30: Introduction to DAQ System

12.30- 01.30: Introduction to DAQmx programming

01.30-02.00: Lunch Break

02.00-03.00: Analog input architecture

03.00-04.00: Analog output architecture

Day 2:

09.30 – 10.00: Introduction to Digital I/O

10.00 – 11.50: Digital input

11.15 – 01.00: Digital Output

01.00 – 01.30: Lunch Break

01.30 – 04.00: Counters

Day 3 :

9.30 – 10.30: Signal Conditioning

10.30 -11.15: Synchronization

11.15-01.00: Introduction to my VTOL and My DSP

01.00-01.30: Lunch Break

01.30-03.00: Introduction to myGLCD and My Quake

03.00-04.00: Introduction to audio acquisition

Day 4:

09.30 – 10.00: Introduction to NI ELVIS mx Instrument launcher

10.00 – 11.00: Measurements using NI MyDAQ and NI ELVIS mx

11.00 – 01.00: Introduction to Multisim software

01.00 – 01.30: Lunch Break

01.30 – 04.00: Analysis, results and post processing in Multisim

Day 5:

09.30 – 10.00: Co-simulation using Multisim

10.00 – 11.15: Multisim simulation of MyDAQ design and Real Time simulation of MyDAQ using Multisim

11.15 – 01.00: Projects using myDAQ

01.00 – 01.30: Lunch Break

01.30 – 03.00: Projects using myDAQ

REGISTRATION FORM

One Week STTP

On

Electronic Circuit Simulation, Data Acquisition & Signal Conditioning

Name :

EMP ID/ Roll No:

Qualification:
(Degree, Specialization)

Institution :

Address for :
Communication

Mobile No :

E-Mail :

