

Registration:

REGISTRATION FEE: 200/-

- Lunch and Snacks will be provided.
- **No TA/DA & Accommodation** will be provided for the participants

Send a participation request mail to
ecehodnecn@narayanagroup.com

Resource Person

Prof. M. Muralidhar

Dept.of ECE

Narayana Engineering College, Nellore

Contact Details:

Mr. K.Murali

HOD, ECE Department

Narayana Engineering College, Nellore

Mobile: 9441818312

Email: murali.kante@gmail.com

Website: www.necnellore.com

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A Two Day WORKSHOP on

“Advanced MATLAB & Simulink Techniques and Programming”

11th & 12th Feb 2016



Organized

By

Department of

Electronics & Communication Engineering

NARAYANA

ENGINEERING COLLEGE::NELLORE

(Approved by AICTE and Permanently Affiliated to JNTUA, Ananthapuramu, An ISO 9001:2008 Certified Institution, Recognized by UGC U/S 2(f) & 12(B) and 'A' grade by Govt. of AP.)

About the Institute:

Narayana Engineering College is one of the premier engineering colleges in Andhra Pradesh sponsored by Narayana group of educational institutions. The college was established in 1998 with a vision to impart quality technical education and is affiliated to JNTU, Anantapuramu, and completed 17 years of existence in technical education. Narayana Engineering College is located in India's southern State, Andhra Pradesh. This college is located near to the National Highway (NH-5).Nellore. The nearest airport is Chennai, 3 hours drive away. The college offers B.Tech. Programmes in 6 faculties of Engineering namely, Electronics & communication, Computer Science, Electrical & Electronics, Information Technology Electronics & Instrumentation and Electronics & Computers. The college also offers Post Graduate programmes (M.Tech) in DSCE, VLSI, EPE, EPS, CSE, MCA and MBA. Our motto is to give the students an excellence in his or her career, our goal is to shape their future in all aspects.

About the Department:

The aim of the department is to produce Electronics & Telecommunication Engineers, who combine academic excellence with practical expertise. The department of Electronics and Communication Engineering came into existence at Narayana engineering college in 1998 by the approval of the All India Council for Technical Education (AICTE). The department has progressed rapidly and is now regarded as one of the premiere departments, with excellent infrastructure and a highly qualified and dedicated faculty.

At present, the department is offering B.Tech(ECE) and M.Tech(DSCE&VLSI)with total intake of 120 and 36 respectively. The majority of our students have been well placed in many companies through campus interviews and many of our students are pursuing their higher education at various premier institutions like IIT's, NIT's and also in abroad.

The department is involves in teaching and research in diverse aspects of Communications, VLSI design, Embedded Systems, Signal Processing, Image Processing and Neural Networks. Apart from teaching, the faculty members have been vigorously pursuing research and have been regularly publishing research papers in various National and International Journals of repute as well as in prestigious conferences.

About the workshop:

MATLAB provides a rich set of functionality for the Scientific and Engineering Domain application development. A High Level tool for conceptualization and benchmarking of Signal Processing, Image processing and Control System, Power System Modeling to name a few domains, it is fast evolving and becoming more and more user friendly. The Programming Language Syntax is similar to FORTRAN and C Languages. The tool is best suitable for Research Activities planning, development and benchmarking of results with current work done in the field.

Eligibility:

Faculty, M.Tech/B.Tech students from ECE, EEE and CSE Branches.

Objectives of the Workshop:

The workshop aims to train and provide hands on experience for budding Engineers and Researchers on the following Advanced Techniques:

- User friendly GUI development using GUIDE
- RTW and its use in porting of Applications to Embedded targets
- Stand alone executable application conversion
- Signal Processing Application development
- Solving Complex Differential Equations using Simulink and applications to Non-linear dynamics
- Image Processing Library
- Handle Graphics

Roster

Session-1(Day1):

- A quick introduction to MATLAB Environment
- Walk through on MATLAB Libraries
- User friendly GUI development using GUIDE

Session-2(Day1):

- Stand alone app. Development & RTW Tool use
- High Level System development using Simulink
- Solution to a Non-linear Problem viz. Projectile of Particle in frictional force field

Session-3&4(Day2):

- Filter Design using FDA Toolsets
- Porting of Filter Coefficients for DSP/FPGA development
- Using MATLAB Functionality & data in Simulink