

## **WORKSHOP ON EMBEDDED SYSTEM DESIGN (ESD)**

As per the course curriculum of JNT University, Hyderabad the final year B. Tech students are required to take up a major project work in their specialization. The evaluation of the project work shall be conducted at the end of the year by the committee appointed by the University for a total of 200 marks. To facilitate the students to do their project work on their own the Department of EEE planned to conduct a workshop on Embedded System Design for Final year students of EEE branch in association with C-DAC, Hyderabad. The course fee is Rs. 3750/-. Students belonging to SC/ST communities as recognized by the govt. of India are exempted from paying the fee.

**A total of 40 students have registered for this workshop.**

**The course duration is 20 days and the course started on 6<sup>th</sup> January, 2016.**

The course highlights include

- extensive hands-on sessions
- state-of-the-art laboratory facilities
- project work support
- placement facilitation etc.

The workshop is monitored by S. Sadhu Srinivas, Technical Officer and it is run by P. Sasikumar, Project Associate, A. Vikram Chakravorthy, Project Associate, C-DAC, Hyderabad.

### **About C-DAC, Hyderabad**

CENTRE FOR DEVELOPMENT OF Advanced computing(C-DAC),a scientific society of the Department of Electronics and Information Technology (DietY), Ministry of communications and Information Technology is primarily an R&D institution involved in design, development and deployment of advanced Electronics and Technology solutions, including the celebrated PARAM series of supercomputers.

C-DAC, Hyderabad center is working in R&D with a focus on wireless & Networking, Electronics Product Design, Ubiquitous Computing, System Level Programming, Web Technologies and Embedded Programming in the application domains of Communication Systems, Network Security, e-learning, Supply Chain Management and Wireless Sensor Networks.

### **ESDM Initiative:**

The Electronics and Hardware Industry growth trend and its existing contribution to the global electronics industry indicate that the share of IT Hardware and Electronics Manufacturing Industry in India, in terms of output and employment has the potential to grow manifolds. The government of India has announced number of initiatives in the country to create adequate infrastructure and eco system for manufacturing electronic products, to this aspect, there is also a need to ensure availability of trained human resources for this sector in order to sustain growth and to achieve the targets set for the sector.

In this backdrop, Department of Electronics and Information Technology (DeitY), Govt. of India, has initiated a project entitled “**Capacity Building in the Areas of Electronics Product Design and Production Technology**” which is being executed by NIELIT Aurangabad, C-DAC Hyderabad and NIELIT Chennai to carry out man power development, promote affordable electronic design, R&D etc.. Short Term Certificate Courses (STCC) is a joint initiative by this center to generate skilled man power in electronics and related areas who would contribute towards the growth of the industry. The certified courses offered include “**Embedded System Design (ESD)**” and “**Digital VLSI System Design using HDL**”.

### **Embedded System Design (ESD)**

This short term course is formulated to develop adequate knowledge about design and development of “Embedded System using ARM Processor”. The course teaches the student about the fundamentals of ARM processor. Interfacing, controlling and monitoring techniques to be followed in building a practical embedded system.

After completing the course the students should be able to

- Understand Linux system essential
- Understand concepts of real time operating system
- Define processes involved in the design of an embedded system
- Identifying appropriate hardware and software for a given Embedded system application
- Develop an Embedded System under respective hardware and software platforms.

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