

National Workshop on
EMBEDDED SYSTEM'S EDUCATION

January 3 - 5, 2007



Organized by
Embedded Systems Group
Department of USIC,
Electronics and Instrumentation Tech.
Acharya Nagarjuna University
Nagarjuna Nagar - 522 510, A. P.

Introduction

Over the last decade, the field of Embedded Systems and its synonym, Microcontrollers has witnessed many rapid developments in the form of increasing design complexity and innovative design techniques. Because of the wide usage in consumer, scientific and technical fields, embedded systems and microcontrollers are included in graduate, post-graduate and engineering curricula of various universities. This has motivated a recent but continuous interest in the training specialists in this domain. In order to promote the awareness and exposure on this emerging subject, department of USIC, Electronics & Instrumentation Technology, Acharya Nagarjuna University, Nagarjuna Nagar proposes to organize a National Workshop on **Embedded System's Education** during January 3-5, 2007.

Aim and Scope

Though the program focuses primarily for academic and technical staff of universities and students with relevant background, others with interest in this field can also be accommodated. The purpose of this programme is to give the participants a working knowledge on embedded, microcontroller based system programming, coupled with hands-on experience in constructing, programming and operating embedded based system. It would be an ideal opportunity for those who wish to construct automated stand-alone data acquisition and control systems. It would be helpful in developing simple, new experiments for imparting effective training to the participants.

Programme Contents

The focus of the workshop is intensive lecture programs followed by laboratory sessions. The curriculum covers the following topics:

- Embedded System Design : An Introduction
- Introduction to Microcontrollers and 8051 Architecture
- Instruction Set and Programming
- Introduction to Assembler, Simulator and their usages
- Interfacing of peripherals to Microcontrollers
- Advanced peripheral devices
- Advanced Microcontrollers and its use in Embedded Systems

Emphasis is given to spend more time in laboratory to gain hands-on experience in various interfacing techniques that can be useful in the construction of an Embedded System.

Eligibility

This workshop is primarily intended for teachers, engineers and researchers working on advanced technologies in the field of Electronics and Instrumentation. People from industry and academic institutions who intend to keep pace with the developments in these areas are encouraged to attend the workshop. Research scholars and students who are interested in Embedded Systems and design methodologies with basic knowledge on Microcontrollers and Digital Electronics can also participate in the workshop.

Registration Details

Registration fee :

Resident participants Rs. 500/-

Non-Resident participants Rs. 300/-

The fee payable on the inaugural day of the workshop. The candidate should submit their application in the proforma enclosed so as to reach the Programme Director, Department of USIC, Electronics & Instrumentation Technology, Acharya Nagarjuna University, Nagarjuna Nagar- 522 510, A. P. on or before **25-12-2006**. Proforma of the registration form also be downloaded from the University website :

www.nagarjunauniversity.ac.in.

The registration fee is towards the modest accommodation (for resident participants), boarding, synopses of the lectures and workshop kit.

Travel Allowance

The sponsoring institutions are requested to meet the traveling expenses of the participants.

Location

Acharya Nagarjuna University is situated 20 km. away from Guntur city towards Vijayawada on the National Highway of NH-5 and it is well connected by railways from all major cities of the country. Road and bus transport services are also available. Further, the city is also connected by air up to Gannavaram nearer to Vijayawada.

Further Information

For any other information please visit :
www.nagarjunauniversity.ac.in. or mail to goudbvs@yahoo.com or contact the
Programme Director.

All Communications to the Programme Director

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Registration Form

Name :

Designation :

Organisation :

Address :

e-mail :

Mobile :

Phone :

Educational Qualifications :

Years of Experience :

Nature of Work :

Area of Interest :

Accommodation Required : Yes / No

Place :

Date : Signature