

MODE OF PAYMENT

All remittances must be in the form of D.D. payable at Patiala drawn in favour of "STC UC 2008". However payment may also be made in cash on the first day of training.

(Candidates shall be selected on the first come first serve basis)

Please mail the registration form duly filled in to:

Ankush Kansal

Coordinator "STC UC-2008"

Electronics & Communication

Engineering Department

THAPAR UNIVERSITY

PATIALA – 147004 PUNJAB

E-mail: akansal@tiet.ac.in

ABOUT THE INSTITUTE

Thapar University, formerly, Thapar Institute of Engineering & Technology (Deemed University) is one of the pioneer technical institutes of our country. It was founded in 1956 and is currently imparting UG, PG and Doctoral programmes in all major disciplines of engineering, technology, management and sciences. It is known for its highly spirited, dedicated and distinguished human resource personnel & for its quality.

For further details please contact:

Dr. A.K. Chatterjee,
Professor & Head, ECED

or

Dr. Sanjay Sharma,
Assistant Professor, ECED

or

Ankush Kansal,
Lecturer, ECED

Department of Electronics & Communication Engineering

THAPAR UNIVERSITY

PATIALA -147001 PUNJAB

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Short Term Summer Training Programme

ON

"MICROCONTROLLER APPLICATIONS AND PCB FABRICATION"

(June 2 – July 11, 2008)

Chairman

Dr. A.K.Chatterjee

Course Coordinators:

Dr. Sanjay Sharma

Mr. Ankush Kansal



Organized by:

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**THAPAR UNIVERSITY
PATIALA –147004 (PUNJAB)**

INTRODUCTION

Embedded systems using microcontrollers run the computing devices hidden inside a vast array of everyday products and appliances such as cell phones, toys, handheld PDAs, cameras, and microwave ovens. Cars are full of them, as are airplanes, satellites, and advanced military and medical equipments. As applications grow increasingly complex, so do the complexities of the microcontroller based embedded computing devices.

The goal of this training is to develop a comprehensive understanding of the technologies behind the microcontrollers and embedded systems design. The students will also develop an understanding of the existing capabilities and limitations of various steps in overall design methodology including PCB design and fabrication.

COURSE CONTENTS

1. Introduction to Embedded Systems, CISC and RISC Architectures.
2. Intel MCS51 Microcontroller (Architecture & Assembly Programming), exposure to KEIL & UMPS Software.

3. PIC Microcontroller Architecture Programming & exposure to Eclipse work bench based Hi – Tech PICC cross complier.
4. Computer Aided Design of PCB's using ORCAD
5. PCB fabrication
 - Laminate cutting
 - Photolithography
 - Etching
 - Dip Coating
 - Roller Tinning
 - Drilling

WHO CAN ATTEND

Under – graduate students of Engineering Colleges from the stream of Electrical, Electronics & Communication Engineering, Electronics (Instrumentation & Control) and Computer Engineering

COURSES FEES

The course fee is Rs. 6000/- per student. Boarding & lodging arrangement has to be made by students themselves. However hostel facility will be provided on extra payment. The timings for training is from 7.30 A.M. to 1.30 PM, five days a week.

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REGISTRATION FORM

Name:

Father's Name:

E – mail:

DD No. _____ Dt. _____ For

Rs. _____ drawn on (bank)

Place: Signature of the applicant

Date:

No objection and Sponsorship

Certificate from Head of Department

(Seal)

(Signature of HOD)

(Xerox copies of this form can be used)