

About the IEEE

The Institute of Electrical and Electronics Engineers Inc. (IEEE), a nonprofit organization, is the world's leading professional association for the advancement of technology.

Through its global membership, the IEEE is a leading authority on areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics among others. The IEEE has more than 365,000 members, including 68,000 students, in over 150 countries. It publishes 128 transactions, journals and magazines and organizes more than 300 conferences worldwide each year.

To foster an interest in the engineering profession, the IEEE also serves student members in colleges and universities around the world.

IEEE Madras Section came into existence in 1978 and has crossed its Silver Jubilee year. It is organizing Technical Meets, Conferences and Seminars of highest standard for the benefit of its members. The Section today has the highest number of student branches among the Sections in the world. The Section is concerned about the welfare of the students in this part of the country and wants to improve the teaching-learning process in the Engineering Colleges and Universities. With this in mind, the Section is organizing **Faculty Development Programme (FDP)** for the teaching faculty

members of Engineering Colleges and Universities in Tamil Nadu.

Faculty Development Programme:

Teaching-learning is an important process in academic institutions. Transfer of knowledge takes place from the teacher to the students only when the teaching is effective. The young teachers need orientation and training in effective teaching. As a service to the teaching community in the Engineering Institutions, IEEE Madras Section is organizing **Faculty Development Programme (FDP)** on the topics listed overleaf. The instructors for this programme will be pooled from prestigious institutions like IIT Madras, Anna University and other leading institutions.

Participants:

The teaching faculty members from Engineering Institutions in Tamilnadu can participate in the proposed Faculty Development Programme (FDP).

Schedule:

The Course on "Computer Organization and Architecture" is proposed to be held on the 14th and 15th of October 2006. The programme will be for two days with 4 sessions, each of 3 hours duration.

Course Fee:

The course fee is Rs.500/- for IEEE members and Rs.1000/- for non-members. The fee includes course material and lunch. Accommodation and transport will be the responsibility of the participants.

REGISTRATION FORM

Name :

IEEE Membership
No (if applicable) :

Name of the
Institution :

Address :

Email :

Phone No. :

Details of DD
(No. and date) :

Fees Paid (Rs.) :

Bank & Branch :

Note: The Bank DD shall be drawn in favour of IEEE Madras Section, payable in Chennai.

Signature of applicant

Signature of HOD
(with seal of the institution)



Details of the present Course

Course Title:

Computer Organization and Architecture

Course Contents:

- Functional units of a computer
- Representation of data
- Arithmetic and logic unit organization
- Representation of instructions
- Instruction sets: CISC and RISC
- Central processing unit organization
- Memory unit organization
- Input/output unit organization
- Pipelined and superscalar processors

Course Instructors:

Dr.C.Chandra Sekhar, IIT Madras

Dr.V.Kamakoti, IIT Madras

Dr.Shankar Balachandran, IIT Madras

*Complete Registration form
along with Demand Draft to be sent to :*

IEEE MADRAS SECTION

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List of Courses proposed to be offered

A. Computer Science and Engineering:

- A.1. Computer Organization and Architecture
- A.2. Data Structures and Algorithms
- A.3. Discrete Mathematics
- A.4. Operating Systems
- A.5. Computer Networks
- A.6. Database Systems

B. Electronics and Communication Engineering:

- B.1. Networks and Systems
- B.2. Electronic Devices and Circuits
- B.3. Electromagnetic Fields
- B.4. Control Engineering
- B.5. Digital Signal Processing
- B.6. Analog Communication Systems
- B.7. Digital Communication Systems

C. Electrical and Electronics Engineering:

- C.1. Electro-Mechanical Energy Conversion
- C.2. Computer Methods and Applications in Power Systems
- C.3. Advanced Power Systems Engineering
- C.4. Power Electronics and Devices
- C.5. Instrumentation Engineering
- C.6. Power Quality

IEEE MADRAS SECTION ORGANISES



COURSE ON
Computer Organization and Architecture

VENUE:
ICSR Conference Hall III,
IIT Madras, Chennai 600 036.

DATE:
14-15 October 2006

Contact Address:
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