Faculty Development Program on
INFORMATION THEORY AND CODING
12th - 18th June, 2013

Sponsored by
Center for Faculty Development
Anna University, Chennai-25.

Co-ordinator
Dr. Dhananjay Kumar
Associate Professor

Institute
The Department of Information Technology of Anna University family at MIT Campus was established in the year 2001 and is offering B.Tech.(IT), M.Tech.(IT), M.S. (By Research), and Ph.D. Programs.

Location
The department is located at the Madras Institute of Technology Campus of Anna University, Chromepet, about 27 KM from Chennai Central beside NH-45, on the way to Tambaram. The green campus of MIT is very much enjoyable. It is easily accessible by buses and local trains between Chennai Central and Tambaram.

Program Certificates
Participation certificates will be issued to the candidates who attend the program in full, by the Centre for Faculty Development, Anna University, Chennai-25.

Eligibility
Faculty members of the department of IT, CSE, and ECE of Anna University and its affiliated college with basic knowledge of Information & communication engineering can apply. Other aspirant working in state/central govt. organization may apply against vacancy.

Selection Criterion
Number of seats is limited. One participant per college on first come first serve basis will be considered. Selection of second candidate from same college but from different department will depend on availability. Priority will be given to the younger faculties. Organizer’s decision will be final in the selection of the candidates.

Description
This program aims to discuss the principles and applications of information theory and coding. It offers to provide a high-quality short-term course by leading experts covering the basics and latest topics in this domain. The broad view on how multimedia information is coded and transmitted over communication channel will be the focal point.

Objectives
This faculty development program is intended to provide opportunity for teachers employed in affiliated colleges of Anna University for upgrading their knowledge in the areas of information theory & coding. The fundamental concepts as well as some latest trend will be discussed. However, our main focus will be on information theory and coding based on the B.E/B.Tech. (CSE/IT) syllabus of Anna University. The laboratory sessions will not only expose to the new paradigm of coding techniques but will also equip academicians to carry out any mini/major projects.

It is planned to deliver a fully loaded FDP and hence it will be suitable for those who have serious interests in this domain.

Speakers
Senior faculties of Anna University (MIT / CEG) & IIT-Madras, and experts from industries.

Important Dates
Receipt of Application: 07th June 2013
(by post / e-mail)
Confirmation of selection: 08th June 2013
(by e-mail only)
Contents

- Fundamentals of Information Theory
- Text Coding: Huffman, Arithmetic, LZW etc.
- Speech Coding: Channel Vocoder, Linear Predictive Coding
- Audio Coding: MEG Audio layers I,II,III, Dolby AC3
- Image and Video Formats – GIF, TIFF, SIF, CIF, QCIF
- Image coding: JPEG, PNG
- Video Coding: H.261, MPEG-1,2
- Error Control Coding: Block codes, Cyclic Codes, Convolutional code, Turbo Codes
- Lab. practice on various coding methods

Registration Fee

For the applicant working at university department or college affiliated to Anna University there is no registration fee. Application from other aspirant (working in state/central govt. organization) will be considered only against vacancy subjected to permission from CFD, Anna University.

Selected candidates will be intimated by e-mail. Confirmation of participation is to be made by sending reply e-mail.

No TA/DA will be paid.

Boarding and lodging would be provided at MIT hostel for outstation candidates for a nominal fee.

Course material and stationeries would be provided during the program for the selected candidates.

If selected, the applicant should attend the program for the entire duration.

APPLICATION FORM

Faculty Development Program on
INFORMATION THEORY & CODING
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1. Name:
2. Date of Birth:
3. Designation:
4. Institution:
5. Institute affiliated to Anna University : Yes / No
6. Address for Communication:

E-mail: [Insert e-mail]
Phone no. (with STD code)
Office:
Residential:
Mobile phone:

7. Educational Qualifications:
8. Subjects taught in last one & half year:

9. Reason to attend this FDP: Teaching / Research

10. Professional Experience (in years)
    Teaching:
    Research:

11. Accommodation required: Yes / No

DECLARATION

The information furnished here is true to the best of my knowledge. I agree to adhere by the rules and regulations governing the Faculty Development Program of Anna University. If selected, I will attend the program for the entire duration. I also undertake the responsibility to inform the coordinator in advance in case I am unable to attend the course.

Date:
Place:
Signature of the Applicant

SPONSORSHIP

Mr./Ms./Dr. [Insert Name] is an employee of our Institute / Organization and is hereby sponsored for this Faculty Development Program. He / She will be permitted to attend the program, if selected.

Date:
Place:
Signature & Seal of the Head of the Organization

Mailing & Contact Details

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