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Short Course on

Telecommunication Networks with State-of-the-Art Hands-on Experiments

10th July - 15th July, 2012

Department of Electronics and Electrical Communication Engineering
Indian Institute of Technology Kharagpur – 721302

Introduction

Research on telecommunication systems started in the Department of Electronics and Electrical Communication Engineering (E&ECE) at IIT Kharagpur in early fifties. From the last century following 2nd world war, the whole world has witnessed an all-pervasive growth in the technology of telecommunication networks. IIT Kharagpur has also followed this advancement and continued to make its own contributions through teaching as well as research activities in this area. Recently, realizing the needs for hands-on training in this area to bridge the gap between theory and practice, E&ECE Department has developed a State-of-the-Art Laboratory. The laboratory has been setup with a wide range of modern telecommunication equipments, including IP routers, Ethernet and ATM switches, ISDN and EPABX systems, ADMs as SDH nodes, wireless access points, network access control and intrusion detection software, etc., This networking infrastructure is used across the department building to form in-house network test-beds with different possible practical topological formations, with which our students carry out wide range of experimentations on networking concepts. The proposed 8-days-long comprehensive training would consist of theory and laboratory classes going hand-in-hand. Thus, the short-term course will offer, along with stimulating lectures in the area, a rare opportunity to gather a hands-on experience on how telecommunication networks are formed in practice and, how data, voice and video are transferred between heterogeneous networks therein, through Ethernet, router, ATM, SDH based networking infrastructures. The course will also provide a forum for professional interaction between the IIT community and others, which would hopefully lead to useful research collaboration amongst the participating organizations in due course of time.

Areas to be Covered

- Introduction to Telecommunication Networks
- ISO-OSI Network Model
- TCP/IP Network Protocols
- ATM and ATM-based Networking
- Medium Access Control Techniques
- Ethernet
- Wireless Networks IEEE 802.11
- Synchronous Digital Hierarchy (SDH)
- SDH-based Optical Networking, EOS, POS
- Voice-over-IP
- Network Security
- ❖ Orientation on Networking Equipments / Software of the Laboratory
- ❖ Hands-On Experiments on Practical Networking Formations

Speakers and Lab Facilitators

Prof. Debasish Datta, Prof. Saswata Chakraborty, Prof. Raja Datta, Prof. Prabir Kumar Biswas, Prof. Gautam Das
Prof. Subhra Sekhor Das, Mr. Partha Goswami and Lab facilitators from IIT Kharagpur

Course Fees

Rs. 10,000/-

TA

No TA will be provided to the participants.

Food and Accommodation

Participants from Academia will get AC single room accommodation **on payment basis** (first come first serve) in Ashutosh Mukherjee Guest House. The room tariff will be Rs. 300/- per day per person. As there are limited number of rooms in A.M. Guest House, participants from this category may please register and inform early.

The participants from Industry will get AC accommodation in the Institute's New Technology Guest House **on payment basis**. Approximate tariff for shared accommodation (i.e. if willing to share with a co-participant) will be Rs. 600/- per head per day and for single occupancy (double bed) will be Rs. 800/- per head per day. Participants from Academia may also opt for this type of accommodation in case A.M. Guest House is full.

Participants will be provided food (breakfast, lunch, dinner) from 10th July to 15th July 2012.

Important Dates

Last date for registration : **15th June, 2012 (Friday)**
[Complete application should be received by the coordinator by this date]
Course Duration : **10th July – 15th July, 2012**

Course Material :

Necessary course materials will be provided to the participants during the course.

Who can Attend :

The course will be useful for the executives and managers and engineers from Industry and Organizations who are engaged in computer communication related work.

Teachers from Engineering Colleges/Technical Institutes/Universities will find the course very useful for teaching Computer Communication and Networks.

How to Apply :

Download the [registration form](#).

Filled in registration form along with a draft of Rs. 10000/- in favour of **CEP-STC, IIT KHARAGPUR** payable at **Kharagpur** should reach the Principal Coordinator on or before June 15, 2012. The original copy of the filled in registration form should be sent by post/courier.

Contacts

For any queries please contact:

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Address of Principal Coordinator:

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[Download Registration Form](#)