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IMPORTANCE AND SCOPE

Current microwave systems for transmission and radiation of electromagnetic waves have to meet the competing requirements of enhanced functionality, low loss, reduced size and weight and low cost. It is important to appreciate that many of the design goals in modern efficient and miniaturized systems are self conflicting. For example, incorporation of multiband or broadband characteristics involves increase in physical size, which may have to be carefully optimized in handheld and wireless systems where space is at a premium. Similarly, development of low-loss devices are crucial for successful operation at the Ka and Ku-bands and beyond. It might be mentioned that traditional technologies like the microstrip are prohibitively lossy at 20-30 GHz frequencies and beyond. The rectangular waveguide based designs, though satisfying the loss requirements, are comparatively bulky and difficult to effectively integrate with planar components.

Keeping the above in view, the design and analysis of efficient modern systems will be addressed with particular emphasis on low-loss guided structures and antennas. Reconfigurable antennas for mobile and wireless communication and current antenna miniaturization techniques for the realization of sub-wavelength radiating structures would be discussed.

In addition, metamaterials and their role in the design of systems with enhanced performance would be addressed. These include the design and realization of metamaterials, the design of electrically small antennas based on metamaterials and miniaturization of radiating structures based on the zeroth order resonance.

KEY TOPICS TO BE ADDRESSED

- Low Loss Antennas and Guided Structures
- Green's Function Analysis of Antennas
- Dielectric Resonator Antenna Topologies

- Metamaterials
- Antenna Miniaturization
- Reconfigurable Antennas
- Radar and Communication
- EMI/EMC
- Microwave Passive Components

TENTATIVE SPEAKERS

Faculty / domain experts from IIT, Kharagpur

Important Dates

Last date for receiving application: June 3rd, 2016
Intimation to the applicants: June 6th, 2016
Course duration: June 20 to July 2nd, 2016

Eligibility for Participation:

Category - 1

Faculty members of AICTE approved degree level Engineering Colleges as recommended by the Head of the respective Institute/Department. Total participants limited to 30. Selection of participants is on first-come first-serve basis only.

Category - 2

B. E. / B. Tech./ M.E./M.Tech./Diploma in Engineering and B. Sc. / M. Sc. or any higher qualification in relevant field. Participants from the Industry or Govt. Organizations working in related fields are also eligible. Total participants limited to 20. Selection of participants is on first-come first-serve basis only.

Certificate :

A Certificate of Participation will be issued to all the participants from the "Office of Dean, Continuing Education, IIT Kharagpur".

QIP Sponsored Short Term Course on Efficient Antennas & Guided Systems June 20 –July 2, 2016

Registration Form

Name: _____

Designation: _____

Sex (M/F): _____

ORGANIZATION _____

Highest academic Qualification _____

Address: _____

Phone / Fax: _____

Email (Compulsory): _____

Accommodation required yes/No _____

Sharing / Single (Tick as appropriate only category-2)

Details of bank draft: Amount Rs _____

Draft No. _____ Dated: _____

Issuing Bank: _____

.Date:

Signature of Participant

Place:

The applicant is a permanent faculty of our organization. He/she is recommended for the Course and will be released upon selection.

Signature with seal of the
Head of the Organization

General Information

Situated at a distance of 116 Km from Kolkata, Kharagpur welcomes you with its green, calm and quiet campus, away from the din and bustle of city life. Historically, IIT Kharagpur started its journey in the "Hijli Detention camp". Presently it houses a science and technological Museum known as the Nehru Museum of Science and Technology. Also, the scenic township of Digha on the sea beach is only 110 km away from Kharagpur.

Connectivity:

Kharagpur is an important railway junction and is well connected to all parts of the country by rail service (SER). Numerous local & express trains are also available from Howrah. The Institute is approximately 4 Kms from the Kharagpur railway station with the bus stand adjacent to the railway station. Rickshaws (Rs. 80), auto-rickshaws (Rs. 90) and taxis (Rs.120) are available from the railway station.

COURSE COORDINATOR

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Course fee:

Category-1:

Course fees would be waived for Faculty members of AICTE approved degree level Engineering Colleges and Universities.

Category-2:

Course fees for Students	Rs. 15,000.00
Teachers/Others	Rs. 20,000.00
Course fees for Industry:	Rs. 30,000.00

Travel, Food and Accommodation

As per the institute norms, to and fro travel cost (Up to A/C 3-Tier rail fare only) by the shortest route between the place of work and the venue of the Course will be reimbursed to the Category-1 participants only. The Category-1 participants would also be provided suitable shared-basis boarding and lodging in the Institute Guest House.

Category-2 participants would be provided single or shared accommodation at the Institute Guest Houses on self payment basis as per availability on prior request. The travelling and dinner expenses for Category-2 participants would have to be borne by the participants themselves.

Course Materials would be provided to all participants.

How to apply:

Interested persons may apply in the form given herewith alongwith the demand draft drawn in favour of 'CEP-STC, IIT Kharagpur', payable at Kharagpur. The application should be sent to the mailing address given below latest by **June 3rd, 2016**. The total number of seats in this course is limited to 30. In view of the limited seats, selection will be made on first-come first-serve basis.

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*A Continuing Education Programme of
Indian Institute of Technology*

*Kharagpur
Prof. Bratin Ghosh*



Organized by
Department of Electronics and Electrical
Communication Engineering
Indian Institute of Technology
Kharagpur – 721 302, India

