TEQIP-III Short Term Course On Modern Antennas for Wireless Systems (FREE for teachers from TEQIP-III Colleges)

A Continuing Education Program of Indian Institute of Technology Kharagpur

## **October 06 – October 10, 2018**



## **Coordinator**

Dr. Akhilesh Mohan

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# **Organized by**

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

## **OBJECTIVES AND SCOPE**

The requirement for efficient and lowprofile antennas has fuelled research work in the development of antenna structure with performances considerably enhanced over the traditional antenna structures and methodologies. In this context, the development of antennas for modern wireless communication systems has taken significant strides in overcoming fundamental limitations in the design of broadband and efficient antenna structures

Primary focus of this course is to introduce design challenges of several antennas and their possible solutions which should be further investigated for the future generation wireless communication networks. Major issues those will be addressed in the course are given below:

- Basic Antenna Theory
- Substrate Integrated Waveguide (SIW) Antennas
- Metamaterial Antenna
- Dielectric Resonator (DR) Antennas
- Leaky Wave Antennas
- On-chip Antennas
- Multiple Input Multiple Output (MIMO) Antenna
- Ultrawide Band (UWB) Antennas
- Microwave Components
- Open research issues.

## **COURSE FACULTY**

Faculty members and experts from IIT Kharagpur and some other institutes.

## WHO SHOULD ATTEND

Faculty members from University and Engineering Colleges, Research Scholars, M. Tech final year students, practicing RF engineers, professionals and functional managers, administrators in the mobile phone, satellite communication and radar industries.

## ELIGIBILITY

B.E. / B. Tech./ M.E. / M.Tech. or equivalent degree in Electronics/ Telecommunication / Electrical Engineering.

## LOCATION

The Institute is about 5 Km away from Kharagpur Railway Station. Taxis, Autorickshaws, are available as transport.

## ACCOMMODATION

Efforts will be made to book accommodation in the guest houses on receipt of request from the participants by September 15, 2018. Limited shared accommodation in the guest house is available which will be distributed according to the date of application received.

#### **Registration for TEQIP-III Sponsored**

Faculty/Teachers from TEQIP-III approved Colleges /Institutions / Universities. Participants should bring a letter of nomination from their head of institution stating that they are being deputed for the course.

There is no registration fee. However, a Cheque of Rs. 1,000/- (Pay to "CEP-STC, IIT Kharagpur") should be enclosed with the application form which will be refunded to the participants attending the course. Total No. of participants is limited to 30: selection of eligible participants is on first-come-first-serve basis). Shortlisted applicants will be intimated by email.

## **Registration: for others (non TEQIP-III)**

 (a) Scientists / Technologists / Engineers from industry, government or other institutions:
<u>Course fee: 20,000/-</u>.

### (b) Registered students Course fee: 10,000/-.

Under this category, candidates will be provided course materials, working lunch, tea & snacks during the course hours. However, TA, boarding and lodging expenses should be borne by the participants. Boarding & lodging expenses will be waived for TEQIP-III sponsored candidates.

Candidates should send the Demand Draft according to their category drawn in favor of "CEP–STC, IIT Kharagpur" payable at Kharagpur along with the completed registration form to Prof. Akhilesh Mohan, Department of E and ECE, I.I.T., Kharagpur – 721 302, West Bengal, INDIA. All participants should bring a letter of nomination from their head of institution stating that they are being deputed for the course. Also they are requested to send a soft copy of the application form and the demand draft to the email addresses given below.

### **Certificate:**

A certificate of participation would be issued to all the participants from the Office of Dean, Continuing Education, I.I.T. Kharagpur.

#### **Enquires should be addressed to:**

Prof. Akhilesh Mohan, Course Coordinator Department of Electronics and Electrical Communication Engineering, IIT Kharagpur Kharagpur – 721 302

E-mail : <u>am@ece.iitkgp.ernet.in</u> mishrasudha06@gmail.com

Phone : 91-3222-283520 (O) 9434205153/8972433708 Fax : 91-3222-255303/283534

#### **TEQIP-III**

Short term course on "Modern Antennas for Wireless Systems", October 06 -10, 2018

#### **REGISTRATION FORM**

Please complete the details below and mail it to the address overleaf along with the demand draft.

1. Name:
2. Designation:
3. Address (Office):
4. Phone (Mob.):
Phone (Res.):
E-mail (compulsory):
5. Male/ Female:
6. Highest academic qualification:
7. Accommodation Required (Y/N):
8. Cheque/Draft. NoDate Rsdrawn onBank.

Date :

Signature of the Applicant

Place :

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Signature of Head of the Department with seal.