

Short Term Course On Modern Antennas for Wireless Systems

A Continuing Education Program of
Indian Institute of Technology
Kharagpur

March 20 – 24, 2018



Course 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 low-profile 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.

WHO SHOULD ATTEND

Faculty members from University and Engineering Colleges, Research Scholars, Post Graduate, Under Graduate students, Technical Assistants, 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.

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 available from Howrah. The Institute is approximately 5 Kms from the Kharagpur railway station with the bus stand adjacent to the railway station. Rickshaws (Rs. 80), auto-rickshaws (Rs. 80) and taxis (Rs.140) are available from the railway station.

ACCOMMODATION

Limited shared accommodation is available in the Institute guest houses VGH (*Visveswaraya Guest House*) on personal payment basis. The charges are as follows: Daily charges: Rs.400/- (Single Occupancy) for D/B AC Rooms and Rs. 600/- (Double Occupancy) for D/B AC Rooms; Rs.250/- (Single Occupancy) for D/B Non AC Rooms and Rs.300/- (Double Occupancy) for D/B Non AC Rooms; Rs.150/- Per bed for 3 & 4 bedded Non AC rooms. Working Lunch / Tea will be made available during the sessions.

HOW TO APPLY

Interested persons may apply in the form given herewith alongwith the registration fee in the form of demand draft drawn in favour of ‘**CEP-STC, IIT Kharagpur**’, payable at **Kharagpur** or through **electronic transfer**. Bank information for electronic transfer is provided in the attached document. **The application should be sent to the mailing address of the course coordinator latest by 5th March, 2018.** 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.

COURSE FEE

- (a) **Course fee for Industry :**
Individual Course fee: ₹ 20,000/-
- (b) **Course fee for Teachers/Others :**
Individual Course fee: ₹ 15,000/-
Group (3 individuals or more): ₹ 14,000/- per individual
- (c) **Course fee for students :**
Individual Course fee: ₹ 9,000/-
Group (3 individuals or more): ₹ 8,000/- per individual

Course fee includes lecture notes (soft copy) and refreshments during the course.

Certificate:

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

IMPORTANT DATES

Last date of receipt of application : March 5, 2018
Intimation of selection : March 7, 2018
Confirmation by applicant : March 7, 2018

Enquires should be addressed to:

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Department of Electronics and Electrical
Communication Engineering, IIT Kharagpur
Kharagpur – 721 302

E-mail : am@ece.iitkgp.ernet.in
mishrasudha06@gmail.com

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

Short term course on “Modern Antennas for Wireless Systems” March 20- 24, 2018

REGISTRATION FORM

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

- Name:.....
- Designation:.....
- Address (Office):.....
.....
.....
- Phone (Mob.):.....
Phone (Res.):.....
E-mail (compulsory):.....
- Male/ Female:.....
- Highest academic qualification:.....
- Accommodation Required (Y/N):.....
sharing/single (Tick as appropriate)
- Details of Bank Draft/Electronic transfer :
Rs.....draft no./transaction no.....
..... date..... Bank.....

Date : Signature of the Applicant

Place :

Recommendation and forwarding from the
Organization:

Signature with seal of the
Head of the Organization

The details of our Bank Account to enable electronic payment

01.	Authority holding the Account	: Dean, CE, IIT, Kharagpur
02.	Name of the Account as appearing in the Bank Account	: CEP-STC
03.	Bank Account Number	: 9556 220 000 2955
04.	Name of the Bank	: SYNDICATE BANK
05.	Branch Name	: SRIC, IIT KHARAGPUR
06.	Address of Bank	: SRIC, IIT KHARAGPUR Dist.: PASCHIM MEDINIPUR State : WEST BENGAL PIN : 7 2 1 3 0 2
07.	M I C R Code of the Bank	: 7 2 1 0 2 5 1 0 3
08.	I F S C Code of the Bank	: S Y N B 0 0 0 9 5 5 6
09.	SWIFT Code of the Bank	: S Y N B I N B B 1 2 0
10.	Nature of Bank	: Non-SBI Bank
11.	P A N	: A A A J I O 3 2 3 G
12.	Contact person Phone Number E-mail Address	: Dean, CE, IIT, Kharagpur 03222 – 282111, 03222 – 282033 deance@hijii.iitkgp.ernet.in

I hereby declare that the particulars given above are correct & complete to the best of my knowledge.

Date : 02/01/2017

A. Gossain
Signature with Office seal
Dean
Continuing Education
Indian Institute of Technology
Kharagpur-721302

Certified that the particulars given above are correct & complete as per records held with the Bank.

[Signature]
Authorized Official of the Bank

Signature of the Authorized Official of the Bank with seal