AICTE Sponsored Short Term Course

On

Recent Advances on Passive and Active Components at High Frequencies

June 25-30, 2018

Organized by

Department of Electronics Engineering,
IIT(BHU), Varanasi-221005

Quality Improvement Program Center
Indian Institute of Technology (BHU)
Varanasi – 221005, (U.P.)

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About the Course

In the modern era, high frequency communications play very important role due to the availability of very high bandwidth. Most of the modern day's communication take place either in microwave or in optical region. This leads to the demand of the devices to be made in compact form. While analytical modeling gives the physical inside of the device characteristics, simulations at high frequencies can provide the first hand information of various advanced microwave and optical devices without going through complex mathematical modeling and experiment followed by fabrication.

The basic objective of this short-term course is to introduce various modelling and simulation techniques used for the performance characterization of advanced high frequency devices including antenna, metasurface, frequency selective surfaces, photonic bandgap structures, quantum dots etc. to the young faculty members of various technical institutions.

Course Content

The tentative list of topics to be covered in this course are:

- ✓ Microwave Communication
- ✓ Antenna Systems
- ✓ Metasurfaces
- ✓ Optical Communications
- ✓ Modeling in Ansys HFSS
- ✓ Modeling in Microwave CST Studio

Course Coordinator

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List of Short Term Courses during 2018-19

S No	Department	Course Coordinator	Title of Short Term Course	Duration
1.	Electronics	Dr. Somak Bhattacharyya	Recent Advances of passive and active components	25-30 June, 2018
2.	SMST	Prof. Rajiv Prakash, Dr. Akhilesh Kumar	Advance Materials for Sensors and Biosensors	02-07 July, 2018
3.	Biomedical	Dr. Shiru Sharma, Dr. Marshal	BioMEMS and Bioinstrumentation	08-14 July, 2018
4.	Mathematics	Dr. Lavanya Selvaganesh	Advances in Graph Theory with applications to Network Sciences	06-11 Aug, 2018
5.	Biochemical	Prof. Subir Kundu	Cell Processing Technology and Engineering- A New Paradigm	13-18 Aug, 2018
6.	Metallurgy	Dr. Kaushik Chattopadhyay	Mechanical Properties and Deformation Behavior of Structural Materials	27 Aug-01 Sept, 2018
7.	Biomedical	Prof. Nira Misra	Polymers as Biomaterials	01-07 Sept, 2018
8.	Civil	Dr. Ankit Gupta, Dr. Nikhil Sahoo	Recent Development in Pavement Analysis and Design	17-22 Sept, 2018
9.	Civil	Dr. Anurag Ohri, Dr. Medha Jha, Dr. Shishir Gaur	Principles and Applications of GIS	24-29 Sept, 2018
10.	Mechanical	Prof. S.P.Tewari	Recent Advances in Casting and Welding	01-07 Oct, 2018
11.	Mechanical	Dr. Cherian Samuel	Supply Chain Mgt.	08-13 Oct, 2018
12.	Electronics	Dr. N.S. Rajput	Smart Sensors and Systems	15-20 Oct, 2018
13.	Mechanical	Dr. Jahar Sarkar	Efficient Energy Conversion in Harmony with Environment	29 Oct – 02 Nov, 2018
14.	Mining	Prof. S.K.Sharma	Sustainable Development vis-à-vis Technology	25 Nov-01 Dec, 2018
15.	Computer Sc.	Dr. Pratik Chattopadhyay	Machine Learning in Image & Video Analytics	3-9 Dec, 2018
16.	Computer Sc.	Dr. Tanima Dutta, Prof. K. K. Shukla	Deep Learning : Theory and Practice	10-22 Dec, 2018
17.	Mathematics	Dr. Sunil Kumar	Computational Methods for Integral and Differential Equations	10-16 Dec, 2018
18.	SMST	Dr. Akhilesh Kumar, Dr. Chandan Upadhyay	Material Characterization for Engineers	24-29 Dec, 2018
19.	Metallurgy	Dr. G.S Mahobia	Metallurgical Failures	11-16 Feb, 2019

Application Form for
QIP SHORT TERM COURSE
on
Recent Advances on Passive and Active Components at High Frequencies
June 25-30, 2018

1. Name (block letters):

2. Designation & pay scale:

3. Organization:

4. Address for communication with pin code:

Mobile No.: E-mail:

5. Highest Academic Qualification:

6. Specialization:

7. Experience (in years):
(a) Teaching: (b) Industrial:

8. Amount of TA for to-and-fro III AC railway fare (only for the AICTE approved college teachers):

9. Whether Accommodation (to be provided strictly on sharing basis) is required:

Please register me for the course on "**Recent Advances on Passive and Active Components at High Frequencies**" to be held at IIT (BHU) Varanasi during **June 25-30, 2018.**

Place:

Date: **Signature of the applicant**

SPONSORSHIP

Prof./Dr./Mr./Ms./Mrs./_____ is an employee of our AICTE approved institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course on **Recent Advances on Passive and Active Components at High Frequencies** at IIT (BHU) Varanasi during **June 25-30, 2018** of the Short Term Course, if selected.

Date: **Signature of Sponsoring Authority**
Designation: **(Official Seal)**

Refundable Security Deposit Details:
*DD No.: Date:
Bank:
Amount: **₹ 2000/-**

Signature of the Applicant

*DD should be drawn in favor of the **Registrar, IIT(BHU), Varanasi-221005** payable at the **SBI, IT Branch (Code:11445), BHU, Varanasi**.

Participation Certificate

Certificate of participation will be issued to all the participants only after completion of the course.

Important Dates

Last date for receiving application

June 9, 2018

Confirmation of Participation

June 11, 2018

Contact Details

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REGISTRATION

Registration for QIP Sponsored Teachers from AICTE approved Institutions: 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/ accommodation fee. However, a Demand Draft of INR 2,000/- (drawn in favor of "Registrar, IIT(BHU), Varanasi") should be enclosed with the application form which will be refunded to the participants attending the course. Total reserved seats for QIP candidates is 30 which will be awarded on first-cum-first served basis. The refund amount will not be returned to those who will be absent.

ABOUT THE DEPARTMENT

Department of Electronics Engineering came into existence as an offshoot of Electrical Engineering Department in the year 1971 (when Banaras Engineering College, College of Mining and Metallurgy and College of Technology had been amalgamated to form the Institute of Technology in its present form). The intake every year of the Department is 79 in the B.Tech. level and 47 in the M.Tech. level. Besides teaching students of our own discipline (Electronics Engineering), we also offer the basic courses in Electronics Engineering to almost all the Departments of the Institute, we also teach advanced-level courses to the students of Electrical Engineering and Computer Engineering Departments. We have a training and placement section in the Institute through which most of our students are professionally placed in various jobs.

HOW TO REACH

Varanasi Railway Station is well connected to almost all parts of the India. IIT (BHU) is also well connected to Mughal Sarai and Manduadih Railway Stations by regular auto and taxi services. The Lal Bahadur Shastri International Airport, Babatpur, Varanasi is also well connected via Air to Delhi, Mumbai, Kolkata, Hyderabad, and Bengaluru. There are frequent flight services from New Delhi. The Institute is located in the extreme south of the Varanasi city and about 7 km away from Varanasi Railway Station and 30 km from the Babatpur (Varanasi) airport. Pre-paid Taxis and Auto-Ricksaw can be hired from the airport and rail way stations.