Antennas and Arrays
7th May – 11th May, 2019

A
Short Term Course
Under the Faculty Development Program of
E&ICT Academy, NIT Patna

Patron
Prof. P. K. Jain
Director, NIT Patna

Organized by
Department of Electronics and Communication Engineering
National Institute of Technology Patna
Patna – 800005

Coordinator
Dr. Priyanka Mondal
Co-coordinator
Prof. Rabindra Kumar

E& ICT Academy and Course Objective

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies of which, the Academy of NIT Patna is one. The Academy at NIT Patna aims to design and organize basic as well as specialized training programmes in niche areas of electronics and ICT for the development of required knowledge, skills with deep understanding.

Wireless systems are an integral part of our everyday life starting from the mobile phone connectivity, weather prediction, border surveillance to name a few. An antenna transforms the guided wave into the free space wave. Thus, it is an essential component of a wireless transceiver system. The objective of the present five days long course is to provide a complete overview on antennas and arrays starting from the basics to the deep knowledge development to the most recent research and developments through a series of theory classes interleaved with the hands on practice using advanced simulation tool and measurement equipment.

Course Content

- Fundamentals of antennas
- Fundamentals of antenna arrays
- Analysis of array antenna
- Array synthesis
- Feed networks
- Phased array antennas
- Beamforming networks
- Antenna measurements

Course Faculty

Scientist from Lockheed Martin Space System, USA (IEEE Distinguished Lecturer), faculties from IIT Kharagpur, and NIT Patna.

Intended Participants

The course is designed to suit beginners to the advanced level. Thus, graduate, undergraduate, PhD students, people from the academia, R&D organization, industry are equally intended.

NIT Patna and How to Reach

National Institute of Technology Patna is the 18th National Institute of Technology. Previously, it was Bihar College of Engineering and rechristened on 28th January, 2004. The Institute imparts high-level educational training, research and development in science, engineering technology and humanities along with high-quality education and values at UG, PG and PhD level. It is situated on the south bank of river Ganges and on the parallel road Ashok Rajpath at a distance of 6 KM from Patna Railway Station. Frequent taxis, auto-rickshaws are available all day long from the station.

Accommodation

Shared hostel/guest house accommodation would be provided on payment basis.

Registration

Registration Fee

UG & PG Student: Rs. 500/-
PhD Student: Rs. 1,000/-
Faculty: Rs. 1,500/-
Scientist/Industry: Rs. 5000/-
The above fee includes course materials, a working lunch, and tea during the course hours.

Mode of Payment

Demand draft drawn in favor of 'Director, NIT Patna' payable at Patna or online payment to the following Account Name: NIT Patna, Account No: 50380476798, IFSC: ALLA0212286.

How to Apply

Interested candidates may apply through an email to pmondal@nitp.ac.in along with the soft copies of the filled registration form given herewith and the demand draft/online payment receipt by **2nd May, 2019**. The original registration form and the demand draft should be handed over during the course registration on the very first day.

Certificate

A certificate of participation would be issued to all of the participants.

Enquiry

For any query drop an email to the course coordinator or call at +91-9430494461.

Registration Form for the Short Term Course "Antennas and Arrays", 7th May – 11th May, 2019 at NIT Patna.

1. Name:……

2. Designation:……

3. Address (Office):……

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4. Phone (Cell):…….....

E-mail (compulsory):……...

5. Male/ Female:……..……

6. Category ST/SC/OBC:……

6. Highest academic qualification:….....

7. Accommodation Required (Y/N):……...

8. Draft/Online Ref.

No……..……..……..……...…...…

Date….....

Amounting Rs…….....drawn

on……..……....Bank

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9. Signature of the candidate with date:

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10. Recommended and forwarded:

…… ……..

Date: Signature and Seal of the Head of the Organization