

A 2-Days Workshop

On

Design of Microwave Antennas/ Filters/ Couplers/ RADAR

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Coordinator

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OBJECTIVE AND SCOPE

Microwave antennas along with other passive components such as Filters, Couplers and RADAR are the essential parts of any communications system. Moreover, antenna being the front end of any communication systems its design and analysis for narrowband/multiband/wideband offers a lot of challenges, along with other passive components, to the people working in academia and industries.

This course curriculum is designed to cover most of the recent progresses in the areas of micro-wave antennas and other passive components. The objective of this course is to offer a insight into the detailed design perspective of these microwave components. However, more emphasis is given on the design of different kind of microwave antennas, which are used in different communication systems.

The topics included in the workshop will include the lectures session as well as practical session. The lecture session will be taken by the premier institutes Professor's or scientists from research organization. The design and analysis part will be explored by using the Ansys HFSS tool. The tentative topics of the workshop will include lectures and practical sessions as given below:

- MIMO/4G/5G antennas
- Reconfigurable antennas
- Metamaterial based antennas
- SAR Analysis of human body model
- Substrate integrated waveguide (SIW) Structure
- Antenna Array design for Beam Steering
- Horn Feed Reflector Antenna
- Microwave Filter design
- Microwave Coupler design
- Dynamic Linking (HFSS + Circuit Designer)
- Recent progresses in the field

COURSE FACULTY

Faculty members/experts from premier institutions like IITs, IIITs, NITs, Research Organization (ISRO/DRDO, etc.) and others.

WHO SHOULD ATTEND

Faculty members working in University and Engineering colleges, research scholars, M.E./M. Tech. students, practicing RF and microwave engineers, professionals and functional managers.

ELIGIBILITY

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

ACCOMMODATION

Limited accommodations (if needed) is available in the institute guest house and hostels for the participants after paying the respective charges. Participant can avail the facility of breakfast, lunch and dinner (if they needed) in the institute mess/canteen at institutes subsidized rates.

REGISTRATION FEES

1. Scientists / Technologists / Engineers from industry or government institutions: **course fee: 1,000/-**.
2. Faculties from University and Engineering Colleges: **500/-**
3. Ph.D. students: **500/-**
4. M.E./M.Tech. students: **300/-**
5. UG students: **200/-**

Candidates will be provided course details, during the course hours. Registration fees, accommodation expenditures (boarding and lodging) will be bear by the each participants.

