Co-ordinators:
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Divya Chaturvedi, Sr. Research Scholar
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The National Institute of Technology Tiruchirappalli, NIRF-2018 first amongst NITs, was started in 1964. The Electronics and Communication Engineering (ECE) Department was established in the year 1968. The department offers UG, PG, M.S. & Ph.D. degree programs in the ECE. The present H.O.D. is Dr. G. Lakshmi Narayanan.

**Highlights of the Workshop:**

The objective of the course is to impart in-depth knowledge in the Computer-aided design of Microwave components including antennae through the conventional coding (MATLAB). The highlight of the workshop is to compare the joy and originality of getting the solution through conventional coding with that of commercial software tools (ADS, HFSS, CST MWS, COMSOL, etc.). Each has got its own exclusive merits and demerits. The demonstrations will speak of the above claim.

**Eligibility:**

The programme is open to the Research Scholars, UG, PG, faculty members, and Industry persons, to get exposed to the state-of-the-art design of MICs.

**Registration Fee:**

Participants Fees: **Rs.1000/-**  
Participants from Industry: **Rs.3000/-**  
Participants are requested to pay the registration fees by **NEFT** transfer only, the details are as follows:  
**Account Name:** Electronics Communication Engineering Association  
**Account Number:** 10023883609  
**IFSC Code:** SBIN0001617  
**Branch:** SBI, NIT, Tiruchirappalli.  
**Account type:** Savings Account

**Note:** Accommodation shall be borne by the participants on their own. No TA/DA will be provided. Workshop kit, certificate, snacks and lunch will be provided.

**Topics to be Covered:**

- Planar antenna design concepts – Do’s and Don’ts  
  Prof. Girish Kumar  
- Design essentials of planar transmission lines-Nomogram using Matlab  
  Prof. S. Raghavan  
- Electromagnetics-Interesting facts  
  Prof. P. Muthuchidambaramanathan  
- Metamaterial unit cell design through Matlab  
  Prof. D. Sriram Kumar  
- Fractal Antenna Design using Matlab  
  Prof. Suganthi  
- Metamaterial Antenna Design through Matlab  
  Prof. Pandeeswari R and Samson Daniel  
- Antenna Measurement Techniques.  
  Purushothaman S  
- SIW Filter Design using Coupling Matrix  
  Ananya Parameswaran  
- M.I.C Filter Design using GUI  
  Praveena N  
- Method of Moments (MoM) using Matlab  
  Ananda Reddy M  
- Frequency selective surfaces  
  Krushna Kanth  
- SIW CP Antenna  
  Arvind Kumar  
- SIW miniaturization Techniques  
  Divya Chaturvedi  
- SIW antennas  
  Prof. Murugeshwar B  
- SIW Phase Shifter Design  
  Avanika  
- (SIW) ANN using Matlab  
  Anil  
- Session for participants-if interested, may give demo for 10 minutes on CAD of MICs. But prior intimation is required.

**The Core Team**

“SEEING IS BELIEVING”