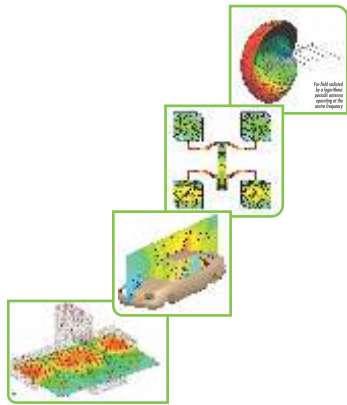


Rajasthan Technical University Kota



Organizes Workshop on Advance Antenna Design Techniques & Microwave Engineering

October 8~9, 2011



Technical Support by-
Dept. of Electronics Engineering, RTU, Kota,
IEEE-MTTS Students Branch Chapter, RTU, Kota,
and
ni logic Pvt. Ltd. (ni2designs), Pune

Introduction

In the last twenty years, we have witnessed enormous progress in the field of CEM. The subject of Computational Electromagnetics is concerned with the numerical analysis of electromagnetic phenomena, often in situations of great complexity. With the ever-increasing demands for communications band-width, the advent of high speed digital processing, the increasing prominence of electromagnetic compatibility and the growing concern over the issue of land-mine detection and clearance, CEM has become a subject area of considerable importance.

This workshop has emphasis to provide a platform for interaction among audience to discuss about the recent advances, new paradigms, technological trends and challenges in the field of RF designs.

The Workshop

This workshop offers an excellent opportunity to exchange ideas on the topics of importance along with thought provoking technical sessions like antenna designing, EM CAD tools, and computational analysis.

Workshop Objectives

- ✧ Get working knowledge of antenna design techniques.
- ✧ Get hands on practice with FEKO tool.
- ✧ Brief and intense lectures by expert faculties.
- ✧ Learn to design antennas for various applications

About ni2designs

ni logic Pvt. Ltd. (ni2designs) is founded on a culture based on the principles of open communication, empowerment, trust, integrity, and giving back to the community, and these same values thrive at ni logic today

Our diverse product portfolio serves applications in Microelectronics, VLSI, Embedded Systems, DSP, Power Analysis, Modeling & Simulation, and EM & Antenna Designs.

...aimed at providing "novel innovative logical solutions and services"

About FEKO

FEKO is a comprehensive electromagnetic structure simulator based on the well known Method of Moments (MoM) solution technique. The FEKO implementation is the most comprehensive MoM implementation available on the market, supporting many special techniques such as MLFMM, of which other packages may support only one. Apart from numerous features to handle complex geometry and excitations, FEKO includes special formulations and implementations to handle electrically large structures.

The hybridization of multiple solution techniques available within FEKO makes it applicable to a wide range of problems for a large array of applications.

Typical FEKO Applications

- ✧ Antenna Designing
- ✧ Antennas Analysis
- ✧ Antenna placement
- ✧ EMC
- ✧ Bio-electromagnetics
- ✧ RF components
- ✧ 3D EM circuits
- ✧ Scattering problems



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designs
ni logic Pvt. Ltd



REGISTRATION FORM

Workshop on

Advance Antenna Design Techniques & Microwave Engineering

Dept. of Electronics Engineering,
Rajasthan Technical University
Rawatbhata Road , Akelgarh, Kota

October 8~9, 2011

Name: _____

Designation: _____

Age: _____

Organization: _____

Address for correspondence: _____

Tel: _____ Fax: _____

E-mail: _____

Qualification: (B.Tech. onwards)

Experience: _____ years _____ Months

Courses Taught (last three years): _____

Signature of applicant

Signature: (Head of Institution with seal)
(Photo/Typed copy of the form is valid)

About RTU

Rajasthan Technical University is providing the leadership for the development of technical education and also working in direction to achieve the excellence in quality education in the state. The curriculum of UG, PG and research courses has been framed accordingly. The university is also organizing seminars, workshops, short term courses & conferences for the benefit of faculty members, students, research scholars, and industries.

The contents of the workshop are very useful for the teachers, students, and industries giving in-depth knowledge of RF technologies. The theoretical and practical demonstrations are also arranged by M/s ni2designs, Pune. These are also related to the present syllabi and upcoming trends in the RF, therefore, it will help the teachers in laboratory classes and project work for the under graduate/postgraduate students. It shall also help to enhance the research activities and to develop the new laboratory in the emerging era in the near future at your institute. The detailed programme and other information related to the workshop is available on our university website;

Workshop Schedule

Day1:

10:30 ~ 11:15	Inauguration
11:15 ~ 11:30	High Tea
11:30 ~ 13:30	Introduction to Microwave
13:30 ~ 14:30	Lunch Break
14:30 ~ 15:30	Antenna Desining using FEKO
15:30 ~ 15:45	High Tea
15:45 ~ 16:30	Practical Session

Day2:

Timing same as day 1 but hands-on session

Workshop Contents

Day 1:

Theory: Radio Propagation approaches with antenna simulation.
Basic antenna design techniques.
Parametric calculations of antenna.
Conformal micro-strip circuits and strip line antennas design techniques.

Day 2:

Hands on Experience with FEKO tool.

Course Faculty

Experience faculties from ni2designs would deliver the training sessions and conduct laboratory exercises.

Registration details:

Eligibility : Faculty from Electronics, E & TC or EC department of Engineering College.

PARTICIPATION FEES (at the time of registration)

IEEE Member = Rs. 200/-

Non-IEEE Member = Rs. 300/-

All participants would be provided with High-Tea and Lunch.

Seats limited to 50 participants only.

Accommodation will not be provided by us.

Please send your completed registration form on or before

30th September 2011

at this address or E-MAIL

The Head,
Dept. of Electronics Engineering,
Rajasthan Technical University
Rawatbhata Road, Akelgarh, Kota

Programme Coordinators:

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