



K L University

(Koneru Lakshmaiah Education Foundation)
Estd. u/s 3 of UGC Act 1956

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Constituent College KLCE Accredited by NAAC with CGPA 3.76/4.00
Approved by A.I.C.T.E ± Accredited by N.B.A.± ISO 9001-2000 Certified

ACADEMIC STAFF COLLEGE

In association with



NATIONAL INSTITUTE OF TECHNOLOGY, WARRANGAL – 506 021

Electronics & ICT Academy

6 Day short term training on Practical RF Antenna Design

08.05.2017 to 13.08.2017

Faculty development program on **Advances in Microwave Antenna Design** organized by Academic Staff College, KL University, AP in Association with Antennas & Liquid Crystals Research Center (ALRSC), Dept. ECE., KL University and Electronics & ICT Academy, National Institute of Technology, Warangal, Telangana from **08.05.2017 to 13.05.2017** at Sunflower Hall, KL University.

This report has been prepared by the workshop rapporteur as a factual summary.

The workshop started with inauguration function at 9:00 am on 08.05.2017 at Sunflower Hall, KL University. The antenna is a device for transmitting and/or receiving signals - the eyes and ears of your communication system. Wireless technology is one of the main areas of research in the world of communication systems today and a study of communication systems is incomplete without an understanding of the operation and fabrication of antennas.

Workshop contents

- Antenna parameters
- HF and VHF Antennas for broad band
- Antenna Measurements
- Antenna array design
- Patch Antennas
- CPW based antenna Design
- Wideband and Multiband and UWB Antennas
- Antenna miniaturization techniques
- Fractal antennas
- Metamaterials for antennas
- Antennas for defense systems

Prominent resource persons from both academia and industry have delivered sessions on the above mentioned topics through the workshop and the lab sessions were organized by FEKO & HFSS. The names of the resource personnel are mentioned below.

Academia:

- Prof. NVSN Sarma, NITW
- Prof.J.Sri Hari Rao,Rtd, NITW & Director, VSVT, Thadepalligudem
- Dr.Vakula, NITW

Industry:

1. C.Sai Ram,Scientist F, DLRL, Hyd
2. Mr.Satish Reddy, Sc D, RCI, Hyd
3. Mr.Sanjay, Sc D, RCI, Hyd
4. Dr. Ashwin Kumar G, DLRL, Hyd

Outcomes of the workshop

- Acquired the basic knowledge of antenna theory.
- Reviewed trends in advanced antenna research and design
- Reviewed trends in commercial and military use of advanced antennas that enable improved communication, data transfer
- Able to understand the relevance of antenna and microwave theories and antenna design tools in antenna design and problem solving
- Gained familiarity with FEKO and HFSS tools.

The workshop was concluded with assessment test conducted to the participants to assess the participants learning followed by a valedictory on 13.05.2017 at 5:00 pm..



Dr. Ramamoorthy, Chancellor, KL University, Delivering opening remarks for FDP on 08.05.2017



Dr. Subba Rao, Principal, KL University College expressing his views on Antenna design



Lightening of lamp ceremony at the inauguration



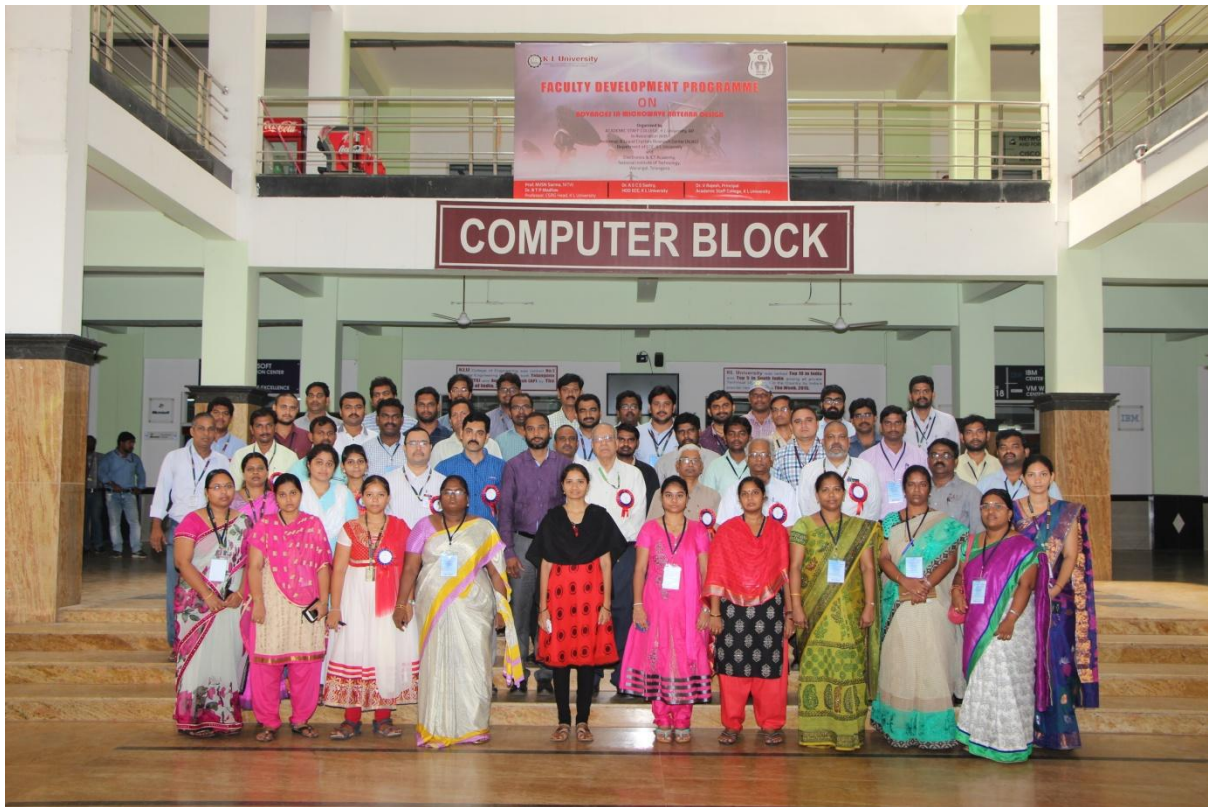
Dr.V.Rajesh, Principal, ASC, KLUUniversity explaining the importance of FDP



Prof. NVSN Sarma, NIT Warangal taking session on “Introduction to Antenna”



Dr. ASCS Sastry, HOD, Dept. ECE motivating delegates



Group photo



Prof.J.Sri Hari Rao, Rtd. NIT W, Director, VSVT, Thadepalligudem, delivering session on "Introduction to Antennas"



Mr. C.Sai Ram, Scientist F, DLRL, HYD delivering session on” HF Antenna for Broad band”



Dr.BTP Madhav, Convener, speaking about the dynamics of FDP



Mr.Satish Reddy, Sc D, RCI, Hyd. Delivering session on “Antenna Measurements and Array design”



Mr.Sanjay Sc D, RCI, Hyd. Delivering session on “Patch and CPW based Antenna Design”



Dr.Ashwin Kumar, scientist G, DLRL, Hyd. Delivering speech on “Electronic warfare systems





Participants taking up assessment at the end of FDP



Dr. V.Rajesh, Principal, ASC, KLU, honoring Dr.Ashwin Kumar, scientist G, DLRL, Hyd. with memento



Dr.BTP Madhav, Convener, FDP, honouring Prof.NVSN Sarma, NIT Warangal with memento