

***ELECTRONICS &
COMMUNICATION ENGINEERING***

CAMPUS PULSE

NEWS LETTER



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**LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING
MYLAVARAM**

Five Day Certification Program on
"Design and Analysis of RF Antennas using Ansys HFSS" from
17th to 22nd August 2017

Organized by Department of ECE, LBRCE

Summary

The objective of the course "Design and Analysis of RF Antennas using Ansys HFSS" is to impart knowledge on Electromagnetic basics and their application's in design of Antennas and microwave devices, in which the students are going to study in their regular curriculum. In this course students are able to see the simulation results of RF structures and their parameters like gain, directivity, radiation Patterns, Axial Ratio, and Reflection Coefficient etc. The students are going to learn this concepts in their course work theoretically but not practically .The other way for the student to satisfy apart from the theoretical analysis is simulation or mathematical or designing using hardware leads Cost more. Using Ansys HFSS tool student can design and verify the result before going for hardware work to get a better idea of how an Antenna/Microwave Device works.

The students how are interested in learning RF area and want to have their carrier in this field have choose this Certification Programmes one after the other to go insight into that area and their applications in the real world. As day by day Communication systems are growing rapidly in parallel Antenna Systems should also be upgraded accordingly. Once the student will forgo all the Certification programmes he is capable to go for his future in this area.

Totally 41 students and eight of our faculty members have attended the Certification Course.

ANSYS HFSS Registered Students November 2017-18

S.No	Student ID	Student Name	E-mail ID	Mobile Number
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Feedback from the Students

The students have shown a keen interest during five days of certification programme. They felt that the certification Programme is quite useful for their forthcoming semesters and they have enjoyed the 3D graphical results of field patterns and their radiation in near and far distances. The certification Program has started from basic scratch to the design level in which the student can design basic patch antennas of their frequency and structure. The students requested the faculty to continue these types of courses in near future. As the course is complete hands on, they have requested to conduct even theoretical sessions also. The students requested the organizer to conduct two week course instead of one week. Some of the Students have requested to bring the PCB prototype machine and to have a network analyzer to design the some examples and verify the results practically.





LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF ECE

REPORT ON EVENT

DESIGN AND ANALYSIS OF RF ANTENNAS USING HFSS

- Event Type :FDP
- Date / Duration : **13th -18th November 2017**
- Resource Person : **Mr.Vishumendra Thakur**, Senior Application Engineer, ARK Info solutions Ltd. Hyderabad
Mr Aakash, Application Engineer, ARK Info solutions Ltd. Hyderabad
- Name of Convener : **Prof. B. Ramesh Reddy**, *Professor & HOD, Dept. of ECE*
- Name of Coordinators: **Smt K.Rani Rudrama**, *Associate Professor*
Mr P.Rakesh Kumar, *Sr Assistant professor*
Mr M.Siva Sankara Rao, *Sr Assistant professor*
Mr V.Ravi Sekhar Reddy, *Sr Assistant professor*
Mr B.Y.V.N.R.Swamy, *Sr Assistant professor*
- Target Audience :40
- Total no of Participants: 37+6 (Internal Count & External Count)
- Objective of the event: Design of Patch antennas
- Outcome of event : This FDP all the participants had hands-on experience with the antenna simulation tool HFSS and able to design, simulate and solve their PhD work
- Description / Report on Event:** This Program is designed to provide a platform for the Research scholars and academicians with a view to explore and exchange the information on the progress of research and development in Micro strip patch antenna technology. This FDP focused on the knowledge about applications of advanced artificial materials to the antenna design and to create concrete foundation for further implementation of Communication Devices using HFSS software by bringing together the participants and industrial experts to provide a platform to acquaint & share new ideas in the field.
- Feedback / Suggestions : All the participants asked to extend FDP for 2 weeks

Photographs :



