

Department: ECE | Date: 25th – 30th November, 2019

ELECTRONICS & ICT ACADEMY ONE WEEK FACULTY DEVELOPMENT PROGRAM ON "ADVANCES IN PRACTICAL RF ANTENNA DESIGN"

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, Govt. of India (GoI). The jurisdiction of this academy is Telangana, Andhra Pradesh, Andaman and Nicobar Islands, Goa, Pondicherry and Karnataka states/UTs. This academy role is to offer faculty development programs in standardized courses and emerging areas of Electronics, Information Communication Technologies, Curriculum development for Industry, Training & Consultancy services for Industry; CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

The proposed faculty development program (FDP) is devoted to the fundamental theory, recent developments and research outcomes addressing the related theoretical and practical aspects in the usage of advanced tools and techniques for the Design of Practical RF antennas.

Day 1:

The day started with inauguration by Prof.J.Srihari Rao, Chief Guest, Dr.T.Lazar Mathew, Special Guest, Dr.P.C.Krishnamachary, Principal, SVEC, Dr.D.Vakula, Coordinator, E&ICT, Dr.I.Sudarsan Kumar, Director (Quality & Development), Dr.P.V.Ramana, Head, Department of ECE, SVEC, Dr.V.R.Anitha, Coordinator of the program, Department of ECE, SVEC were grace the occasion on 25th November 2019 at 10:00 AM.



Lightening the Lamp by Deligates

Prof.J.Srihari Rao, Retired Professor, Department of Electronics and Communication Engineering, NIT Warangal discussed about the fundamentals of Antennas, Antenna parameters which are useful to analyze the designed antennas after fabrication. Professor elaborated about basics of antenna and its parameters in the afternoon session.



***Prof.J.Srihari Rao, Retired Professor,
Department of Electronics and Communication Engineering, NIT Warangal***

Dr.D.Vakula, Associate Professor, Electronics and Communication Engineering, NIT Warangal, elaborated about the basic parameters of antennas after Inauguration.



***Dr.D.Vakula, Associate Professor,
Electronics and Communication Engineering, NIT Warangal***

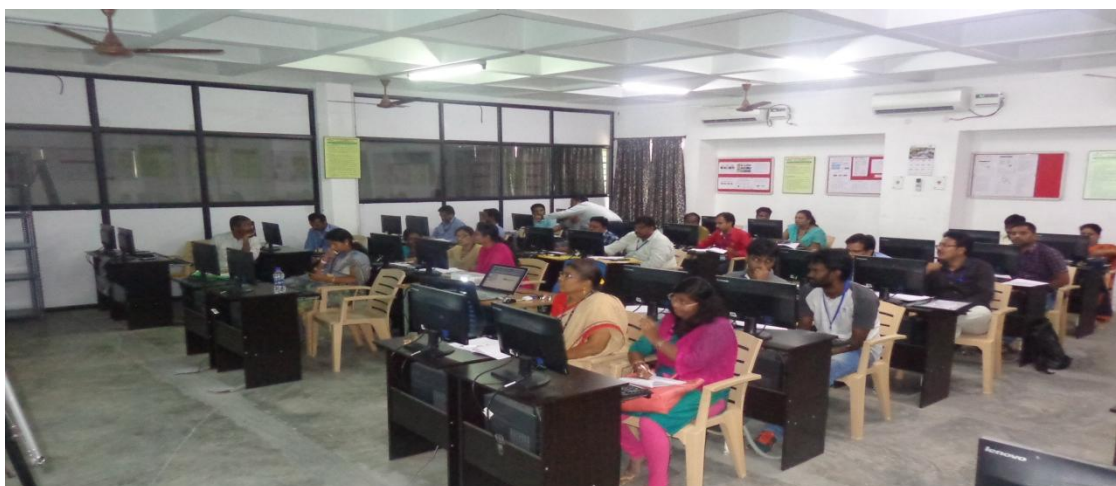
Day 2 & Day 3:

Dr.V.Srinivasa Rao, Scientist – F, RCI, Hyderabad, explained the importance of Patch Antenna by comparing with basic antennas and how this antenna is having more advantages when compared with other types of antennas. Discussed about feeding techniques for different types of antennas and how it excites the antenna on 26th November 2019, Afternoon. Scientist also stressed on HF, and VHF antennas for broadband applications, and emphasized on dual and circularly polarized antennas on 27th November 2019, Afternoon session.



Dr.V.Srinivasa Rao, Scientist – F, RCI, Hyderabad

Mr.Sumit Pillai, Application Engineer, Silicon Microsystems, Altair, Bangalore provided the hands on experience by taking real time examples on Patch Antenna with probe feeding on 26th November 2019, Morning Session and Dipole & Horn Antenna on 27th November 2019 Morning Session by using FEKO simulation software.



Mr.Sumit Pillai, Application Engineer, Silicon Microsystems, Altair, Bangalore

Day 4:

Mr.Sasi Kumar, Application Engineer, Entuple Technologies, Bangalore, provided Hands on training on High Frequency Simulation Software (HFSS) by taking different types of antennas on 28th November 2019.



Mr.Sasi Kumar, Application Engineer, Entuple Technologies, Bangalore

Day 5

Dr.A.Prakasa Rao, Associate Professor, Department of Electronics and Communication Engineering, NIT Warangal, delivered a lecture on Optimization techniques for antennas and elaborated about Antennas beam forming on 29th November 2019 during morning session.



Dr.A.Prakasa Rao, Associate Professor, Department of Electronics and Communication Engineering, NIT Warangal

Dr.Ch.Anil Kumar, Scientist, RCI, Hyderabad, discussed about Radomes and antenna measurements with his practical experience. Scientist shared practically different types of radome with their characteristics.



Dr.Ch.Anil Kumar, Scientist, RCI, Hyderabad

Day 6

Prof.N.V.S.N.Sarma, Director, IIIT Trichy, delivered Antenna miniaturization techniques for various applications and how these miniaturized antennas are applicable particularly wideband, multiband, and UWB antennas on 30th November 2019 during morning session.



Prof.N.V.S.N.Sarma, Director, IIIT Trichy

Dr.M.Chakravarthy, Scientist – SG, DLRL, Hyderabad, discussed about practical problems while designing the antennas and during measurement. Scientist also specified the different antennas for defence systems on the same day during afternoon session.



Dr.M.Chakravarthy, Scientist – SG, DLRL, Hyderabad

Valedictory was organized immediately after the session which was graced by Dr.M.Chakravarthy, Chief Guest, Prof.N.V.S.N.Sarma, and Representative for E&ICT Coordinator, Dr.D.V.S.Bhagavanulu, Director, SVEC, Dr.P.V.Ramana, Head, Department of ECE, SVEC, Dr.V.R.Anitha, Program Coordinator for the program, Department of ECE, SVEC. Finally the program was concluded with thanks and National Anthem.



Valedictory of the Program Graced By Dignitaries

The participants of the program gained an exposure to new areas of research and development being carried out in universities abroad and rest of the world. It also enhances the research competence of faculty in the areas of RF antenna by providing exposure to practical problems and solutions, through case studies and live projects.



Participants Group Photo