



**FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
RECENT TRENDS IN ANTENNA DESIGN
AND APPLICATIONS**

(06-12-2021 to 15-12-2021)

Organized by

E & ICT Academy, NIT Warangal

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

in association with

Department of Electronics and Communication Engineering,

Vasavi College of Engineering (Autonomous), Hyderabad

Accredited by NAAC with A++ Grade



Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is for the states of Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

RF & Microwave Engineering is a very potential domain within the discipline of Electronics & Communication Engineering and has wide variety of applications in wireless communications. Antenna plays a very important role in the design of modern wireless communications and there is an immediate need for updating the knowledge and skills of the Engineering Faculty and Industry professionals in this niche area of antenna design.

The objective of this Faculty Development Program is to impart the knowledge about the recent trends in antenna design to the teaching community with the advanced tools and techniques. The course addresses various antenna design techniques suitable for emerging wireless standards and modern wireless devices. The participants will also be exposed to antenna measurement techniques using latest equipment.

Major Course Contents:

- Introduction to Antenna Design
- Advanced Antenna Design Techniques
- Introduction to Fractal Antennas
- Dielectric Resonator Antennas
- milli-meter Wave Antennas
- Wearable Antennas
- Antenna Design using Simulation Tools
- Antenna Measurements
- Phased Array Antennas
- Reconfigurable Antennas
- Smart Antennas

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal and ECE Department, Vasavi College of Engineering. Resource persons are invited from IITs/NITs/IIITs to deliver lectures in the programme. Experts from industries also will deliver lectures as a part of the course.

Registration Fee Particulars:

Faculty and Research Scholars	Rs. 750/-
Industry Participants	Rs. 2250/-

Participants need to pay the Registration Fee Online using the following details.

Online Transfer Details	
Account Name: Electronics & ICT Academy	
NITW Account No: 62423775910	
IFSC: SBIN0020149	
Bank and Branch: State Bank of India, NIT (REC) Warangal	

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/GQ82RX6M98FQUUft7>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 60 (sixty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date (Application & DD)	27-11-2021
Selection List by E- mail	02-12-2021
Duration	06-12-2021 to 15-12-2021
Timings	02.00PM – 06:00PM

About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About Vasavi College of Engineering

Vasavi College of Engineering (Autonomous) is established in 1981 by Vasavi Academy of Education. It represents a rich tradition of excellence in technical education. The college is situated at Ibrahimbagh, in the vicinity of famous Golconda Fort, Hyderabad, Telangana State. The college is offering seven UG programs namely B.E. in Civil, Mechanical, EEE, ECE, CSE, CSE (AI & ML) and Information Technology, and five PG Programmes in CSE, ECE, EEE and Mechanical Engineering. It is recognized by AICTE and affiliated to Osmania University. The UGC has conferred Autonomous status to the college for 10 years in second cycle up to 2030-31. The college is a NAAC A++ accredited technical Institution.

About The ECE Department

ECE Department is one of the departments which is functioning since the establishment of Vasavi College of Engineering in the year 1981. Department consists of well qualified and experienced faculty. The department has 13 labs out of which 4 are advanced. The laboratories include the Basic Circuits and Workshop Lab, Electronic Devices Lab, Analog Electronic Circuits Lab, Integrated Circuits Lab, Communication (Analog and Digital) Lab, Microwave Engineering Lab, Digital Signal Processing Lab, Microprocessor and Microcontrollers Lab. The advanced labs include VLSI Design Labs (equipped with Mentor Graphics Tools and Cadence Tools), Advanced Data Communications & Computer Network Lab established under CISCO Local Academy Program, and Communication Systems Simulation Lab equipped with MATLAB, ADS, VSA software etc., and latest equipment like Vector Signal Generator (VSG)-(6GHz), Vector Network Analyzer (VNA)-(6GHz) etc.. The department is also offering two M.E Programmes with specializations in "Embedded systems & VLSI Design" and "Communications Engineering and Signal Processing" with an intake of 18 each. The Department also has been undertaking sponsored research projects and consultancy.

G. Narayana Murthy
Vasavi Institute of
Technology & Sciences for Women
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104



APPLICATION FORM
FACULTY DEVELOPMENT PROGRAMME(FDP)
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1. Name :
2. Designation :
3. Institution :
4. Email :
5. Mobile No :
- 6.

Reference No:
Amount:
Bank:
Date:

7. Address for Correspondence:
8. Educational Qualification:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (in years):
Teaching: Research: Industry:
12. Do you belong to SC/ST : YES /NO

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Signature of the Applicant

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on "Recent Trends in Antenna Design and Applications", sponsored by Electronics & ICT Academy during 06-12-2021 to 15-12-2021 at Vasavi College of Engineering, Hyderabad

Signature of Head of Institution
(with seal)

Address for correspondence

Post your application form

Dr. D.M.K.Chaitanya

Department of Electronics and Communication Engineering
Vasavi College of Engineering (Autonomous)
Ibrahimbagh, Hyderabad-500031, Telangana State, India

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment and scanned application form has to be uploaded in the following online registration link.

Registration Link:

For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>


For more enquiries please contact:

Mrs. Sri Lakshmi Aouthu,
Associate Professor,
E.C.E Department,
V.C.E(A), Hyderabad.
Mobile: 9290878533

Coordinators

Dr. D.M.K.Chaitanya
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(06-12-2021 to 15-12-2021)
(Tentative Schedule)

Date	Session1 (2:00 -4:00PM)	Session1 (4:00 -6:00PM)
06/12/2021 (Monday)	Inaugural & Lecture by Prof. N.V.S.N. Sarma, Director IIIT Trichy Antenna parameters and design considerations	Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access: Cognitive Radio Communications. Prof Rama Murthy (rama.murthy@mahindrauniversity.edu.in)
07/12/2021	Design of Antennas using RF Antenna toolbox of MATLAB- Mr.Shashank Kulkarni, Mathworks Hyderabad skulkarni@mathworks.com	Design of Antennas using RF Antenna toolbox of MATLAB-2 Mr.Shashank Kulkarni, Mathworks Hyderabad
08/12/2021	Fractals and Metamaterial antennas Dr. D. Vakula, Associate Professor, NIT Warangal, vakula@nitw.ac.in	Advanced Antenna Design techniques Dr. M. Lakshminarayana, Scientist, DRDO, Inmerugu@ieee.org
09/12/2021	Smart antenna design and optimization Dr. A. Prakasa Rao, Associate Professor, NIT Warangal, aprao@nitw.ac.in	Reconfigurable antenna design using HFSS Dr. G. Arun Kumar, Assistant Professor, NIT Warangal, g.arun@nitw.ac.in
10/12/2021 (Friday)	Wearable Antenna design Dr. C. Sulakshana, Associate Professor, Vardhaman College of Engineering, sulakshana.chilukuri@ieee.org	Time modulated antenna array synthesis and their applications Dr.Gopi Ram, Assistant Professor, NIT Warangal, gopi.ram@nitw.ac.in
11/12/2021	Characterization and testing of RF components using VNA Keysight technologies srisailam_t@keysight.com	Characterization and testing of RF components using VNA Keysight technologies
12/12/2021 (Sunday)	Antenna Simulation Tools Lab session (CST / IE3D)	Shared Aperture Antennas Dr. Satyajit Chakraborty, Scientist , SAMEER Kolkata Centre, satyajit2.chak@gmail.com
13/12/2021	Phased Array Antennas - I Prof VM Pandharipande, Professor vijaympande@yahoo.com	Antenna Measurements Mr. Vivek Kumar Singh, Scientist, SAMEER Kolkata Centre, vivek@mmw.sameer.gov.in
14/12/2021	Phased Array Antennas - II Prof VM Pandharipande	Dielectric resonant antennas design and simulations Dr.SudiptaMaity, Assistant Professor, NIT Rourkela, maitysudipta@nitrkl.ac.in
15/12/2021	Frequency Selective Surfaces for aerospace applications Dr. Shiv Narayan, Principal Scientist, National Aerospace Laboratories, shivnarayan@nal.res.in	THz Antennas Dr Amarjit Kumar, Assistant Professor, NIT Warangal, amarjitk@nitw.ac.in & Valedictory



PRINCIPAL
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ELECTRONICS & ICT ACADEMY
NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL, (T.S.), INDIA




and
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD, TELANGANA

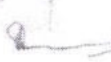
Participation Certificate

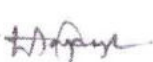
This is to certify that **Mrs N.Krishna Jyothi**, Assistant Professor
from **G.Narayanamma Institute of Technology and Science**

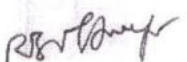
has participated in a 40-hour Online Faculty Development Programme (FDP) on "**Recent Trends in Antenna Design and Applications**" Sponsored by Ministry of Electronics and Information Technology (MeitY) GoI, organised by E&ICT Academy, NIT Warangal and Department of Electronics and Communication Engineering, Vasavi College of Engineering (Autonomous), Hyderabad, Telangana during 6th - 15th December, 2021.


She / He has successfully completed all the requirements for the completion of the programme.


Dr. D.M.K. Chaitanya
Coordinator
VCE (A), Hyderabad


Dr. S.V.Ramana
Principal
VCE (A), Hyderabad


Dr. L. Anjaneyulu
Coordinator
NIT Warangal


Prof. R.B.V. Subramaanyam
Chief Investigator, E&ICT Academy
NIT Warangal


Prof. N.V. Ramana Rao
Director
NIT Warangal



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