

## REGISTRATION FORM

### Short Term Training Programme (STTP)

on

**Trends and challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication.**

6<sup>th</sup> -11<sup>th</sup> April 2020

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Number: \_\_\_\_\_

Email: \_\_\_\_\_

Qualifications: \_\_\_\_\_

Experience in years: \_\_\_\_\_

Teaching:      Research:      Industry:

Accommodation Required (Yes/No): \_\_\_\_\_

Signature of the  
Candidate

Signature of the  
Head of the Institution

**Last date for Registration: 25<sup>th</sup> March 2020**

**Address for Communication:**

**Dr A Jhansi Rani**

Professor, ECE dept.

VR Siddhartha Engg. College

Kanuru, Vijayawada-520007, AP

**Mail: [aicsttp2020.ece@gmail.com](mailto:aicsttp2020.ece@gmail.com)**

**Mobile. No: 9949894526 & 9494049281**

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Siddhartha Academy of General & Technical  
Education (SAGTE), Vijayawada

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**Dr. N. N. Sastry**, Prof. of ECE & Dean R & D  
**Dr. B. Panduranga Rao**, Prof. of CE & Dean SA

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Professor & Head of ECE

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on

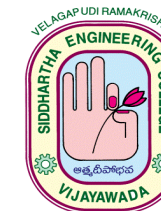
**Trends and challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication**

6<sup>th</sup> -11<sup>th</sup> April 2020

### **Coordinators**

**Dr A Jhansi Rani**, Prof. of ECE  
**Dr M Padmaja**, Prof. of ECE

### **Organized by:**



**Department of  
Electronics & Communication Engineering  
Velagapudi Ramakrishna  
Siddhartha Engineering College**

(Autonomous)

(Sponsored by Siddhartha Academy of  
General & Technical Education)

Kanuru, Vijayawada-520007

Andhra Pradesh

[www.vrsiddhartha.ac.in](http://www.vrsiddhartha.ac.in)

☎: 0866-2582333, 2584930

### **About the College:**

Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC) was established in the year 1977 as the first self-financing engineering college in the state of A.P. It is located in a vast expanse of 24.05 acres of land on the outskirts of Vijayawada city at a distance of about 6Kms from the city centre. The college is offering 7 UG (B.Tech) Courses with intake of 1140, 9 PG- M. Tech with 180, MBA with 60 and MCA with 60. The college has been accredited four times by National Board of Accreditation (NBA) of All India Council for Technical Education (AICTE), New Delhi in respect of all Engineering disciplines and also certified for ISO 9001:2008. It is affiliated to Jawaharlal Nehru Technological University, Kakinada, AP. Autonomous status was conferred by UGC in the year 2006 and extended for 10 years upto 2027-28 without visit to the college, first in AP. It is one among the top 16 engineering colleges selected with Rs 6 crores funding under World Bank aid for R&D and PG enhancement programme called TEQIP –II (S.C.1.2) by MHRD, Govt. of India. The institute secured AAA ranking and all India 7<sup>th</sup> position for the participation by students and faculty in NPTEL/SWAYM. The College received Platinum Award in years 2017, 2018 & 2019 as a Best Industry Linked Technical Institute by AICTE-CII Survey. It is also recognized as “Scientific & Industrial Research Organization (SIRO)” by DSIR. MST, Govt. of India since August 2017.

### **About ECE Department:**

Established in the year 1977, the department of ECE offers B.Tech programme in Electronics & Communication Engineering with an intake of 240 and two M. Tech Programmes in Communication Engineering & Signal Processing and VLSI Design & Embedded Systems with an intake of 18 each. The department has been accredited by NBA of AICTE four times. More than 40% faculty are with Ph.D qualification. Led by a team of highly qualified experienced faculty with specializations such as RF & Microwave, Antennas, Digital Signal

Wireless Communications, Digital Image Processing, VLSI and Embedded systems etc., the department provides excellent academic and research environment to the UG, PG and research students. A centre of Excellence (TIFAC CORE- DST) in Telematics was established in the year 2009 with the state of the art facilities. Having successfully completed many research projects funded by UGC, AICTE, NRSC-ISRO DLRL & ANURAG-DRDO etc., it is also recognized by JNTUK as "**Research Center.**" Faculty members extend guidance to research scholars, produce Ph.Ds and publish their findings in peer reviewed national and international journals and conferences.

### **About STTP:**

Cognitive radio (CR) is a cutting edge technology for wireless communications that requires the design of novel spectrum sensing schemes with high degree of reliability. These networks can dynamically allocate spectrum to multiple users, thereby easing network congestion Reconfigurable antennas play important roles in smart and adaptive systems which offer several advantages such as multifunctional capabilities, low front-end processing efforts with no need for a filtering element, good isolation, and sufficient out-of-band rejection. These make them well suited for use in wireless applications such as 4G and 5G mobile terminals.

### **Course Contents:**

- Block Schematic/Integrated approach for Electronic system design and Analysis
- Overview of Antennas
- Fundamental issues regarding dynamic spectrum access and radio-resource management.
- Role of Reconfigurable Antennas for Cognitive Radio Communications
- Increased spectrum access in Cognitive Radio Communication
- Different spectrum sharing models.
- Efficient sharing of the unutilized spectrum
- Understand the rapid advances in Cognitive radio technologies

### **Objectives of STTP**

The program focuses on Antenna design and simulation for cognitive radio Communication with a synthesis approach and progressively builds up the background through an illustrative design and characterization set of learning activities of some of the basic concepts of spectrum access techniques.

### **Chief Guest**

**Dr.V M PandhariPande** Adjunct Prof., ECE Dept  
Osmania University, Hyderabad

### **Resource Persons:**

**Dr. N. N. Sastry**, Prof.of ECE & Dean R &D, VRSEC  
**Dr.G.Sasi Bhushana Rao**, HOD of ECE, AU, Vizag  
**Dr.P. Sri Hari**, Assoc. Prof, NITW, Warangal  
**Dr D Vakula**, Assoc. Prof., NITW, Warangal  
**Dr. G. Rama Murthy**, Assoc. Prof, IIITH, Hyderabad  
Other resource persons from reputed Institutions and Industries

### **Eligibility**

The STTP is open to faculty members of AICTE approved Institutions, Research scholars and persons from industry and R&D organizations. The participation is limited to 50 members.

### **Registration and Fee Particulars**

Registration can be done by sending the scanned copy of the filled in application duly signed by appropriate authorities before 25<sup>th</sup> March 2020 to the e-mail [aicsttp2020.ece@gmail.com](mailto:aicsttp2020.ece@gmail.com). Original copy of the application can be submitted at the time of registration on 6<sup>th</sup> April 2020. There is no registration fee. Working Lunch, Tea and Snacks will be provided during FDP by host institute.

### **Travel & Accommodation:**

All the participants from AICTE approved Institutions will be provided Free Lodging and Boarding facilities within the campus.

TA will be paid as per AICTE norms.