REGISTRATION FORM

One Week National Level Online Short Term Training Program (STTP)
on
"Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication"

STTP-II 24th -29th August 2020

Name:_____

Designation:_____

Institution/Organization:_____

Address:

Contact Number:_____

Email:_____

Qualifications:_____

Experience in years:

Teaching: Research: Industry:

Signature of the Participant

Last date for Registration:19thAugust2020

Address for Communication:
Dr. A. Jhansi Rani
Professor, ECE Dept.
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Kanuru, Vijayawada-520007, AP
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Sri N. Venkateswarlu, President,
Siddhartha Academy of General& Technical Education (SAGTE), Vijayawada
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Dr. A. V. Ratna Prasad, Principal
Dr. N. N. Sastry, Prof. of ECE & Dean R &D
Dr. B. Panduranga Rao, Prof.of CE & Dean SA
Convener
Dr .P .V.Subbaiah
Professor & Head of ECE

Organizing Advisory Committee
 Faculty members ofECE Department

Registration link:

 http://tiny.cc/VRSEC-ECE-STTP2-CRC

Eligibility
The STTP is open to faculty members of AICTE approved Institutions, Research scholars and persons from industry and R&D organizations from all over country.
Registration Fee: ***NIL***
Online meeting link will be provided through **whatsapp.**
The number of Participants will be limited to 150
*Note:E- Certificates will be provided to those participants who attend all the sessions of the program and also appear for the online test as per the norms of AICTE.

AICTE Sponsored

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Coordinators
Dr. A. Jhansi Rani, Prof. of ECE
Co-Coordinators
Dr. M.Padmaja, Prof. of ECE
Mr.A.Raviraja Asst. 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
☎: 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[th]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.TechProgramme 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% faculties are with Ph.D. qualification. Led by a team of highly qualified experienced faculty with specializations such as RF &Microwave, Antennae,Digital Signal Processing, 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.D.'s 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.

Note: The STTP is planned in three phases. The basic concepts and fundamentals in the first STTP, current technologies and applications in the second STTP and futuristic trends and challenges in the third STTP. However they are independent. The dates for the other two STTPs will be informed later.

Objectives of STTPs:

The program focuses on Antenna design aspects 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

Course Contents:

- Role of AI in 5G – Opportunities and Challenges
- Reconfigurable Antennas- Part II
- Cognitive Radio : Reconfigurable Antennas: Spectrum Sensing
- Reconfigurable Antennas: Time Optimal Spectrum Sensing
- Design of Microstrip Patch Antenna using Probe feed using HFSS
- Aspects of RF IC design
- SDR – Fundamentals, Hardware Configuration
- GNU Radio
- Cellular networks operation on the unlicensed spectrum
- Challenges in Reconfigurable antenna design
- Application about Reconfigurable antenna in Cognitive radio Communication

Resource Persons:

Dr. Samar Shailendra
Scientist at TCS Research & Innovation & Visiting faculty at IIIT Bangalore
Dr. G. Rama Murthy,Prof. of CSE Mahindra University, Hyderabad

Dr. Abhinav Kumar, Associate Professor, Dept. of Electrical Engineering,IIT Hyderabad

Dr.P. SreehariRao ,Associate Professorof ECE, NITW, Warangal

Dr. D. Vakula, Associate Professorof ECE, NITW, Warangal

MrHemantKatakkar, Director. Technical, Akademika

MsKalyani, Application Engineer**,** Akademika

Mr Shankar Nair, Director, Sales & MarketingAkademika

Er. M.VinothManoharan, Co-Founder &CTO Wilma Communications Groups (Asia | US | Europe)

Er. shashikumar R Application Engineer