AICTE Training and Learning (ATAL) Academy, AICTE, New Delhi

Sponsored One Week Online Faculty Development Programme

On

"RF Energy harvesting Antenna Design for Wireless Body Area Networks: Design, Development, and Challenges"

During 23rd- 27th August, 2021

Organized by

Department of Electronics & Communication Engineering

SRI VASAVI ENGINEERING COLLEGE

(Autonomous)

TADEPALLIGUDEM, West Godavari District 534101

(Approved by AICTE and Affiliated to JNTUK, Kakinada, AP)

Accredited by NBA-UG in EEE, ECE, CSE & ME and NAAC with "A" Grade

www.srivasaviengg.ac.in

About College

"Sri Vasavi Engineering College (Autonomous)" was established in the year 2001 by **"Sri Vasavi Educational Society"** with a desire to share the responsibilities of the society for the development of quality Technical Education. The college is situated at Pedatadepalli, 5 km away from the main town Tadepalligudem, Andhra Pradesh. The college is recognized by AICTE and permanently affiliated to JNTU Kakinada and also recognized by UGC under section 2(f) &12(B). The College got UGC Autonomous status in the year 2018. The college offers UG, PG and Diploma Programs in Engineering (CSE, ECE, EEE, ME CE, CST, ECT, AI&ML, & CSE-AI) along with MBA. The college is accredited by NAAC with "A" Grade. UG Programs offered by the departments of EEE, ME, ECE & CSE are accredited by NBA.

About the Department

The Departments of ECE was established in the year 2001 with a view to develop quality engineers to meet the current trends. The Department offers two undergraduate programs in B.Tech (ECE, & ECT). The Department offers PG programme in Embedded Systems & VLSI (ES& VLSI) specialization having an intake of 18. The department has a pool of qualified, highly experienced and research oriented faculty members covering all the major areas.

Objective of the FDP:

The main objective of this Faculty Development Program is to provide an opportunity for engineering faculty and students to get the exposure and interaction with the field experts, who are involved in the research and development RF Energy harvesting antenna design and various challenges involved for Wireless Body Area Networks (WBANs) supporting healthcare applications contribute at monitoring, diagnostic, or therapeutic levels.

Expected FDP Outcomes:

On successful completion of the Programme, the participants will be able to:

- Acquire the basic knowledge of RF energy harvesting antenna.
- Learn the design and development as well as different challenges in utilizing the RF energy harvesting antenna for various applications.

Patrons

Sri. G. Satyanarayana, ***President***

Sri. Ch.V.V. Subba Rao, ***Secretary& Correspondent***

Co-Patron

Sri. Ch. Apparao, ***Director –Technical***

Chairman

Dr. GVNSR Ratnakara Rao, ***Principal***

Convener

Dr.E. Kusuma Kumari, Professor &HoD (ECE)

Coordinator

Dr. Purnima K Sharma, Associate Professor, SVEC, Tadepalligudem

Co-Coordinator

Mrs. TVNL Aswini, Assistant Professor, SVEC.

Organizing Advisory Committee

Faculty members of ECE Department

Eligibility of Participation:

The faculty members from the AICTE approved institutions, research scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions is eligible to attend the program. There **is NO REGISTRATION FEE** to attend this online FDP.

Registration Process:

Register this online FDP through the ATAL portal (**https://atalacademy.aicte-india.org/login**).

Note: Last date of online registration is 14/08/2021. Shortlisted candidates will be intimated through email within 2-3 days of online registration.

Certificate:

The participants who have attendance more than 80% and test score greater than 60% are eligible to receive Digital Certificate issued by the ATAL Academy.

For any further query, please contact:

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This FDP focus will be on:

- Overview of RF Energy Harvesting including designing aspect, application domains, etc.
- Design and Development of High Performance Antennas for Wireless Body Area Networks- Introduction
- Wearable Antenna and its effect on Health
- Design and Development of High Performance Antennas for Healthcare Applications.
- Design and Development of High Performance Antennas for RF Energy Harvesting Systems.
- Flexible Antenna Design and Challenge- Hands on experience (HFSS/CST)
- Radiation Effect on Human Body- Challenges and its Solutions
- Discussion on Design Issues of Rectenna for RF Energy Harvesting systems.
- Electromagnetic Interference and methods to reduce its adverse effects

Sri Vasavi Engineering College (Autonomous)

Department of Electronics and Communication Engineering

One-Week ATAL FDP on **"RF Energy harvesting Antenna Design for Wireless Body Area Networks: Design, Development, and Challenges"**

Duration: 23rd -27th August, 2021

FDP Schedule

Day # 1

10:00 AM- 10:30 AM	10:30 AM- 12:00 PM	12:15 AM- 01:45 PM	01:45 PM- 02:30 PM	02:30 PM- 04:00 PM
Inaugural	Session-1	Session-2	Lunch	Session-3

Day # 2

10:00 AM- 11:30 AM	11:45 AM- 01:15 PM	01:15 PM- 02:00 PM	02:00 PM- 03:30 PM
Session-4	Session-5	Lunch	Session-6

Day # 3

10:00 AM- 11:30 AM	11:45 AM- 01:15 PM	01:15 PM- 02:00 PM	02:00 PM- 03:30 PM
Session-7	Session-8	Lunch	Session-9

Day # 4

10:00 AM- 11:30 AM	11:45 AM- 01:15 PM	01:15 PM- 02:00 PM	02:00 PM- 03:30 PM
Session-10	Session-11	Lunch	Session-12

Day # 5

10:00 AM- 11:30 AM	11:45 AM- 01:15 PM	01:15 PM- 02:00 PM	02:00 PM- 03:30 PM	04:00 PM- 04:30 PM
Session-13	Session-14	Lunch	MCQ Test	Valedictory

Resource Persons:

Distinguished and well-experienced faculty members/ scientists from reputed organizations (IITs/NITs/ Universities/Research Organizations) will be the resource persons for this FDP.