## Events organized in the department
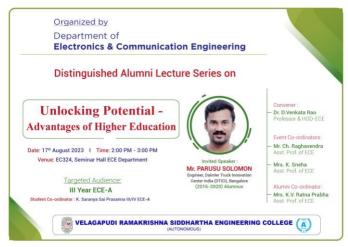
### National Seminar on
### "Challenges and Research Issues on Antennas for Machine Learning & IOT Applications"

National Seminar on "Challenges and Research Issues on Antennas for Machine Learning & IOT Applications" was organized in Dept of ECE on 25th Aug 2023 from 10:00AM. Dr. T. Shanmuganantham Professor & Head Department of Electronics Engineering, Pondicherry University was the resource person. He delivered a session on Overview of antenna and its parameters, antenna array synthesis & pattern tenability for Bandwidth Enhancement design concepts. Introduction to Machine learning, Antenna parameters, Array Antenna, Patch Antenna, Dipole, Monopole, Large Loop, Antenna Beam Forming, Next Generation Communication Challenges, 3-D Printed wave guide Array, Antenna, Additive Manufacturing.



### Distinguished Alumni Lecture series
### "Unlocking Potential – Advantages of Higher Education"

Distinguished Alumni Lecture series on "Unlocking Potential – Advantages of Higher Education" for which Mr. Parusu Solomon Engineer, Daimler Truck Innovation Center India (DTICI) Bangalore (2016-2020) Alumnus was the resource person. The lecture was conducted on 17th Aug 2023: from 2:00PM.Mr. P. Solomon, delivered a session on Advantages of Higher Education. He also concentrated on aspects of The Economic Impact of Higher Education, Higher Education and Career Opportunities, Personal Growth and Development, Social Mobility and Equality, Global perspectives and cultural Awareness, Innovation and research, Healthcare and medical advancements, Environmental Sustainability, Entrepreneurship and Startups, Civic Engagement and Social Responsibility, Cultural and Arts Contributions, Adaptive Learning and Future Ready Skills

**FDps/Workshops/Guest lecture attended by faculty**

- Ravi Raja A attended one-week online FDP on "Enhancing Faculty Expertise: Communication and Signal/Image Processing (EFECSIP-2023)" Organised by Aditya College of Engineering & Technology during 10th - 15th July 2023.

- Ravi Raja A attended "Seasonal School on Revolutionary Solutions for Biomedical Signals and Image Analysis using AI 2023" Jointly organised by IEEE SPS SCET SB and IEEE SPS CKPCET SB in association with IEEE SPS Gujarat Chapter during 1st - 5th August 2023.

- Ravi Raja A attended one-week online FDP on "Recent Advances in Electronics and Communication Engineering- An Approach through AI, ML and DL" Organised by Vignan's Nirula Institute of Technology & Science for Women during 21st - 26th August 2023.

- Vanka Saritha attended one-week online FDP on Antennas for 5G Communication & Beyond organized by Department of ECE, Aditya Engineering College, Surampalem on 03.07.2023 to 08.07.2023.

- N, Siva Naga Malleswari attended one-week online FDP on Antennas for 5G Communication & Beyond organized by Department of ECE, Aditya Engineering College, Surampalem on 03.07.2023 to 08.07.2023.

- Vanka Saritha attended national seminar on Challenges and Research issues on Antennas for Machine learning and IOT applications conducted by Department of ECE, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada on 25.08.2023.

- N, Siva Naga Malleswari attended national seminar on Challenges and Research issues on Antennas for Machine learning and IOT applications conducted by Department of ECE, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada on 25.08.2023.

**Faculty Publications**

- P. R. Meher, S. K. Mishra, M. A. Halimi, "A Low-Profile Compact Broadband CP DRA for RF Energy Harvesting Applications," IETE Journal of research, 2023. [SCIE, IF: 1.5].

- N. Ben Ali, S. R. Kondamuri, V. S. G. Thadikemalla, S. D, P. Trojovský, and V. D. Chintala, "On companding techniques for PAPR reduction in DCT SC-FDMA system in the presence of CFOs," Alexandria Eng. J., vol. 79, pp. 34–43, Sep. 2023, doi: 10.1016/j.aej.2023.07.061. [SCIE, IF: 6.8] published on 5 August 2023.

**Faculty Publications with students**

- P. Bhavitha, J. Harish, **A. Ravi Raja**, P. K. Polasi, D. Anjali and P. V. Kumar, "Systematic Review of Diagnostic Modalities for Sleep Apnea: A Comprehensive Analysis," 2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS), Coimbatore, India, 2023, pp. 897-903, doi: 10.1109/ICSCSS57650.2023.10169656.

# APSCHE EXCELLENCE AWARDS 2023

    All the documents during the application process were verified by APSCHE scrutiny committee and top 12 candidates among all the applicants under each category who full filled the eligibility criteria were shortlisted for the next round. The shortlisted candidates were announced on 1$^{st}$ May 2023 through an e-mail. All the 12 shortlisted candidates were asked to give a presentation (on 4$^{th}$ May 2023) followed by interaction with jury (4 members) in person at the APSCHE office, which was the final round. Top 3 members of each category were declared on 16$^{th}$ June 2023.On 19th June 2023 Education minister Shri Botsa Satyanarayana felicitated all the parents of students won.



    Hon'ble Chief Minister YS Jagan Mohan Reddy graced the event Jagananna Animuthyalu held on 20$^{th}$ June 2023 at which all the winning candidates received memento, certificate along with the cash prize from Chief Minister of AP. **Agasthi Sowmya Sree (Roll Number: 198W1A0466)** won third prize under the category of Best student of the Year 2023 by the Government of AP. She also won cash prize of Rs 50000/-





A. Sowmya Sree receiving Cheque
from APSCHE
Prof. K. Hema Chandra Reddy

# Department of ECE

## Vision

To produce globally competitive and socially sensitized engineering graduates and to bring out quality research in the frontier areas of Electronics & Communication Engineering.

## Mission

To provide quality and contemporary education in the domain of Electronics & Communication Engineering through periodically updated curriculum, best of breed laboratory facilities, collaborative ventures with the industries and effective teaching learning process.

To pursue research and new technologies in Electronics & Communication Engineering and related disciplines in order to serve the needs of the society, industry, government and scientific community.

## PSOs

PSO1    Demonstrate proficiency in the use of IOT required in real life applications.

PSO2    Implement functional blocks of hardware / software designs for signal processing and communication applications

## POs

- PO1 → Engineering knowledge
- PO2 → Problem analysis
- PO3 → Design/development of solutions
- PO4 → Conduct investigations of complex problems
- PO5 → Modern tool usage
- PO6 → The engineer and society
- PO7 → Environment and sustainability
- PO8 → Ethics
- PO9 → Individual and team work
- PO10 → Communication
- PO11 → Project management and finance
- PO12 → Life-long learning

V R Siddhartha engineering College

Department of ECE

## News Letter Editorial Board