

FACULTY PROFILE

Name of the faculty: Karuna Sirivolu

Department: ECE

College: Gudlavalleru Engineering College

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RESIDENTIAL ADDRESS: W/O Murali Vangalapati,
Billapadu,
Gudivada-521301.

ACADEMIC QUALIFICATIONS: M.Tech.

PROFESSIONAL EXPERIENCE:

Designation	Institution	Period
Assistant Professor	Gudlavalleru Engineering College, Gudlavalleru	June 1 st 2022 to till date
Assistant Professor	Swarnandhra College of Engineering and Technology, Narsapur	May 2018 - Nov2018
Assistant Professor	Chaitanya Engineering college, Bhimavaram	June 2011- Feb 2016

PROJECTS GUIDED:

Ph.D	Post Graduation	Under Graduation
-	-	8

SPECIALIZATION: Electronics Communicational Engineering

RESEARCH PAPERS / BOOKS:

PAPERS PUBLISHED IN JOURNALS:

- 1) S.Karuna, A.Renuka Narasimha, Y.Chalapathi Rao “A New Concept of Face Identification Based on Logical Features and Nonlinear Mappings”, *International*

Journal of electronics & communication Technology and Engineering”, Vol.4, Issue 3, July - Sept2013.

- 2) Shaik Ameer, J.S.S RamaRaju, Y Chalapathi Rao, S.Karuna “A Novel Approach for Automated Number Plate Recognition”, *International Journal of electronics & communication Engineering*”, Vol.4, Issue 3, July - Sept2013.
- 3) Maddodi B S, Dr. S. Koteswari, Dr. Ram Bajaj, S. Karuna “A Review on Chaos-based Image Encryption Techniques for Healthcare Applications: Issues and Challenges”, *Boletin de Literatura Oral (BDLO) (2024)*, PP. 20-30.

LIST OF WORKSHOPS /CONFERENCES /SEMINARS ATTENDED:

- Two-Week ISTE workshop on “Signals and Systems” Conducted by Indian Institute of Technology Kharagpur from 2nd to 12th January 2014.This workshop was held under the National Mission on Education Through ICT(MHRD) at GVIT Bhimavaram.
- Two day national level workshop on “Image and Video processing” on 12th – 13th February 2015 at Vishnu Institute of Technology Bhimavaram.
- Five day Online FDP on Entitled Concepts on “Internet of Things with Machine Learning and Artificial Intelligence” towards advanced applications from 06.12.2021 to 10.12.2021 organizing by the Department of Electronics and Communication Engineering, DNR College of Engineering and Technology, Bhimavaram, Andhra Pradesh in association with Center for Continuing Education, National Institute of Technology, Warangal.
- One day FDP on “Insights of NEP 2020 And Strategies For its Implementation” on 12th June 2022 at Gudlalleru Engineering College.
- Presented a Research paper entitled “ **AI and Machine Learning Techniques for Food adulteration detection** ” at “Second International Conference on Computational and Intelligent Techniques for Automation of Engineering Systems (CITAES’22)” organized by the Department of Electronics and Communication Engineering, Seshadri Rao Gudlalleru Engineering College, Gudlalleru during July 29 - 30, 2022.
- Two days Faculty Training Program on “**FULL CUSTOM IC DESIGN using CADENCE Software Tools**” organized by the department of Electronics and

Communication Engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru, Andhra Pradesh during 4th – 5th August 2022.

- Participated Refresher course on “**Microcontroller and Embedded System**” organized by the Department of Electronics and Communication Engineering of Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru from 9th Jan 2024 to 13th Jan 2024.
- Three-day Online Faculty Development Program on “**Generative AI**” organized by the Department of Information Technology of Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru from 26th June 2024 to 28th June 2024.

LIST OF WORKSHOPS ORGANIZED:

- ❖ Coordinated FDP on “**Transmission Lines and Wave Guides**” organized by the Department of Electronics and Communication Engineering of Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru from 29th Jan 2024 to 2nd Feb 2024.

CERTIFICATIONS/Training Programs Attended No: 03

1. Faculty Orientation program conducted by JNTUK Centre of Excellence For e-Resource And Development and Globarena Technologies Pvt.Ltd held at DNR College of Engineering &Technology on 21th Aug 2014.

NPTEL Certifications:

- Digital circuits with 66% (Elite).
- Microprocessors and Interfacing with 57% (Completed)

MEMBERSHIP IN PROFESSIONAL BODIES: IAENG Membership Id: 391225

GUEST LECTURES DELIVERED: Nil

CONSULTANCY ACTIVITIES: Nil

GRANTS FETCHED: Nil

SUBJECTS HANDLED:

Under Graduation:

- Antennas and Wave Propagations
- Switching Theory & Logic Design

- Analog Communications
- Digital Communications
- Computer Networks
- Electronic Devices and Circuits
- Digital Image Processing
- Optical Communication
- Cellular Mobile Communication
- Electromagnetic Interference And Electromagnetic Compatibility
- Digital Logic Design
- Principles of Communication
- Digital Logic and Computer Organization

Post-Graduation: Nil

LABS HANDLED:

Under Graduation

- Electronic Devices and Circuits Lab
- Analog Communications Lab
- Microprocessors and Microcontrollers Lab
- Electronic Circuit Analysis Lab
- Computer Networks Lab
- Electronic Workshop

Post-Graduation: Nil

Other Responsibilities:

Projects Guided:

Under Graduation: Nil

Post-Graduation: Nil

Guiding Ph. D Students – Nil

Books Published No. : Nil

R&D and Consultancy: Nil

Curriculum Design and Development: Nil

Extra-Curricular Activities: Department level activities

Declaration:

I hereby declare that all the above-furnished information is correct to the best of my knowledge.

Date: 31-01-2025

Signature

Place: Gudlavalleru

(S.Karuna)