



Dr. Gannera Mamatha

Associate Professor & Head

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Professional Experience

S.No.	Institution/Organization	Position Held	Duration
1	JNTUA College of Engineering, Anantapur	Associate Professor, Department of ECE	2023 - Till Date
2	JNTUA College of Engineering, Anantapur	Assistant Professor, Department of ECE	2011 - 2014

Research Funded Projects / Grants

- Project Title:** *Implementation of IoT Security Solutions for Health Care Monitoring Systems*
Funding Agency: Science and Engineering Research Board (SERB)
Duration: 2019-2021
Sanctioned Amount: ₹21,25,520/-

Ph.D. Supervision

Ph.D. Student	Title	Status
H. Devanna	Analysis and application of modified non-subsample contourlet transform (NSCT)	Completed
G. Suneel Kumar	Design and Implementation of Power-efficient 5T SRAM Cell using CNTFETS	Completed
Venkataramana Palem	Design and Development of Low Cost and Compact Multifunction RADAR	Completed
T. Prahlad Reddy	Cryptography Solution for Security of Context-aware IoT Devices	Ongoing
P. Durga Devi	Agricultural Neural Network Model Development for Water Quality Assessment using Satellite Images	Ongoing

Publications

- “Ultra Low Power 5T SRAM Cell Design using Different CNTFET for Exploiting Read/Write Assist Techniques”, *GS Kumar, G Mamatha*, ISSN: 17352827.
 - “Improved Read/Write Stability-Based Level Shift 5T Ternary SRAM Cell Design Using Enhanced Gate Diffusion Input BWGCNTFET”, *G Suneel Kumar, G Mamatha*, ISSN: 1793-6454.
 - “Covert Wireless Communication in IoT Network Using THz Band”, *Dr. Gannera Mamatha, Jalasutram Sankeerthana*, ISSN: 0745-6999.
 - (Further publications available upon request)
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Awards and Recognition

- **International Outstanding Research Award**, Asia’s Research Awards Congress (ASTRA), 2023.
 - **Best Women Engineering Teacher Award**, Andhra Pradesh ISTE, 2019.
 - **IEEE Senior Member**, 2019.
 - **Outstanding Women in Engineering**, Venus International Foundation, 2018.
 - **Exceptional Contribution in Smart India Hackathon**, MHRD & AICTE, 2018.
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Academic and Administrative Experience

- **NSS Coordinator** JNTUACEA, 2023 - Present.
 - **IEEE Local Chapter Community Member**, 2022 - Present.
 - **Coordinator**, Skill Development, and Incubation Centre, JNTUA, 2021 - 2023.
 - **IEEE Industry Application Society Student Branch Chapter Chair**, 2019 - 2021.
 - **Treasurer**, Teaching Staff Association, JNTUACEA, 2012 - 2013.
(Further details available upon request)
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Conferences & Workshops (Organized/Participated)

- Coordinated AICTE Training and Learning (ATAL) Academy, Faculty Development Program on Exploring the cutting – edge World of Chip Design at ANDHRA PRADESH from 04/12/2023 to 09/12/2023.
- Impact Lecture Sessions, IIC Program, 2022-23.
- Organized Career Prospects Event for UG and PG students, 2021-22.
- One-day Workshop on Design and Development of PCB Layout for IoT Applications, 2020-21.

- National Mega Expo-2022, JNTUACEA, 2021-22.
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Professional Development

- Mentor for the NPTEL Certification Course Introduction to Internet of Things (Jan – April 2024).
 - NPTEL – AICTE Faculty Development Program (12-week Duration) Introduction to Internet of Things (Jan – April 2024) completed with a percentage of 81%
 - **Faculty Development Program on IoT using Amazon AWS**, Finland Labs, May 2021.
 - **FDP on Renewable and Clean Energy Conversion Technologies**, JNTUA, Jan 2021.
 - **AICTE FDP on Artificial Intelligence and IoT**, JNTUA, Nov 2020.
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Professional Affiliations

- **Senior Member**, IEEE
 - **Treasurer**, IEEE ATPSS WiEAG ECM, 2019 - Present.
 - **Member**, IEI Local Chapter Member, 2022 - Present.
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