

Dr. Korupu Vijaya Lakshmi



Designation : Assistant Professor
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Contact at : Department of Electronics and Instrumentation Engineering,
 Velagapudi Ramakrishna Siddhartha School of Engineering,
 Kanuru, Vijayawada, Andhra Pradesh 520007.

Education

Ph. D (Reinforcement Learning for Control of Non-linear Systems)

Vellore Institute of Technology, Vellore

M.Tech (Industrial Process Instrumentation)

2006, Andhra University, Visakhapatnam

B.Tech (Instrumentation Engineering)

2003, Nagarjuna University, Vijayawada

Experience

Period	Designation	Institution / Organization	Key Responsibilities
2008-Till date	Assistant Professor	Siddhartha Academy of Higher Education, deemed to be university	Alumni Coordinator, MOOCs Coordinator, Curriculum Design, Laboratory In charge, Budget In charge, UG Project Guidance, Research Publications, NBA/NAAC Coordination, Institute Event Committees Member, Student Counselling, Faculty Meeting Minutes Maintenance
2006-2008	Lecturer	Velagapudi Ramakrishna Siddhartha Engineering College	

Research Interests

Broad Area of Research:

Honors and Awards

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Courses Taught

S.No	Course Name	Level (UG/PG)
1	Intelligent Systems and Control	UG
2	Industrial Instrumentation	UG
3	Process Modelling and Simulation	UG
4	Analytical Instrumentation	UG
5	Industrial Communication Networks	UG
6	Basics of Instrumentation Engineering	UG
7	Transducers	UG
8	Basics of Instrumentation Engineering	UG
9	Neural Networks and Fuzzy Logic	UG
10	Power Plant Instrumentation	UG
11	Biomedical Instrumentation	UG
12	Basics of Electronics Engineering	UG

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	https://scholar.google.com/citations?user=DPVHeFYAAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57185599400
ORCID	https://orcid.org/0000-0002-9961-8884
dblp	-
Publons	https://publons.com/researcher/1750171/korupu-vijaya-lakshmi/
Research Gate	https://www.researchgate.net/profile/Korupu-Vijaya-Lakshmi/research
LinkedIn	https://www.linkedin.com/in/vijaya-lakshmi-korupu-56500353/

Recognized Research Supervisor

S.No.	Department	University
01.		
02.		

Funded Research Projects

S.No.	Type	Title	Status	Funding Agency	Amount (INR)	Duration
01.	Funded	AI-Driven 6G-Compatible Autonomous UAV Swarm Mesh Network with Predictive Health Intelligence for Disaster Response and Secure BVLOS Operations	Applied	ANRF	1.61 crores	3 years
02.	Funded	Analysis and Implementation of Energy Harvesting Techniques to Power GPS	Completed	ANURAG-DRDO, Hyderabad	9,80,000	2 Years

Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	Alumni Coordinator	SAHE	2026 onwards	Coordinating alumni activities and strengthening alumni relations
2	Institutional MOOCS Committee Member	SAHE	Jan 2025- June 2026	Contributing to institutional MOOCs initiatives

3	Dept. MOOCS Coordinator	SAHE	2018-2026	Coordinating MOOCs activities in the department.
4	Transducers Lab In charge	SAHE	2008 onwards	Managing and maintaining the Transducers Lab.
5	Budget In charge	SAHE	2018-2026	Monitoring and managing the departmental budget.
6	NBA C1 and C10 In charge	SAHE	2013 onwards	Handling NBA Criterion 1 and 10 documentation.
7	NAAC C4 and C7 In charge	SAHE	2016 onwards	Managing NAAC Criterion 4 and 7 documentation.
8	Department Faculty Meeting Minutes Book Maintenance	SAHE	2018-2026	Maintaining records of faculty meeting minutes.
9	Dept. Admissions Committee Member	SAHE	2018-2024	Assisting in the departmental admission process.
10	Counsellor	SAHE	2008 onwards	Guiding and counselling students.
11	BOS Member	SAHE	2014-2024	Contributing to curriculum development.

Certifications/MOOC Courses Completed

S.No.	Title	Platform	Duration	Year
1	Artificial Intelligence: Concepts and Techniques	NPTEL	12 Weeks	2025
2	Machine Learning and Deep Learning – Fundamentals and Applications	NPTEL	12 Weeks	2023
3	Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL	12 Weeks	2022
4	Design for Internet of Things	NPTEL	8 Weeks	2021
5	Reinforcement Learning	NPTEL	12 Weeks	2019
6	Introduction to Machine Learning	NPTEL	8 Weeks	2018
7	Industrial Automation and Control	NPTEL	8 Weeks	2016

Consultancy / Industry Projects

Completed	-
On-going	-
Applied	-

Patents

S.No	Title	Status	Application No.	Year
1.	Method & System for Portable Power Station for Solar EV Charging	Published	202241040632	2022
2	Wireless Networking of Medical Equipment for Paperless Clinic	Granted	2020103799	2021
3	Smart Glove	Published	201741002856	2018

Ph.D

Awarded	-
Guiding	-

Invited Talks

No. of Invited Talks	-
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Professional Service / Reviewer

Reviewer for journals indexed in SCI/Scopus databases such as:

- ISA Transactions – 2026
- Franklin Open – 2026
- Engineering Applications of Artificial Intelligence – 2025, 2026 (3)
- Engineering, Technology & Applied Science Research – 2025 (2)
- International Journal of Integrated Engineering – 2024
- IEEE Access – 2022
- IET Renewable Power Generation – 2016 (2), 2018
- IEEE Transactions on Industrial Electronics – 2016

Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	31
International / National Level Seminars	00 / 05
International / National Level Conferences	16 / 00
Workshops	18
Instructor Led / Self-Paced Courses	15
Webinars	19

Professional Bodies Membership Details

S.No.	Membership No.	Society Name
1.	LM-2182	Instrument Society of India (ISOI)
2.	LM-1071	Biomedical Engineering Society of India (BMESI)

(K Vijaya Lakshmi)
