

Dr. Rajesh Polepogu



Designation : Assistant Professor
E-Mail ID : rajeshpolepogu@vrsiddhartha.ac.in
Contact at : Department of Electronics & Instrumentation Engineering,
 V.R. Siddhartha School of Engineering,
 Siddhartha Academy of Higher Education
 (An Institution Deemed to be University),
 Kanuru, Vijayawada, Andhra Pradesh 520007.

Education

Ph. D (Signal Processing)

2026, Vellore Institute of Technological University, Vellore, Tamilnadu.

M.Tech (Instrumentation and Control Systems)

2010, University College of Engineering, Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh.

B.Tech (Electronics and Instrumentation Engineering)

2007, Bapatla Engineering College, Bapatla, Andhra Pradesh.

Experience: 15 Years

Period	Designation	Institution / Organization	Key Responsibilities
2010 - Till date	Assistant Professor	Siddhartha Academy of Higher Education (An Institution Deemed to be University), Kanuru, Vijayawada, Andhra Pradesh, India.	<ul style="list-style-type: none"> • Training & Placement Coordinator • Curriculum Design, Research Publications, Academic Leadership, NBA/NAAC coordination. • Control Systems Lab Incharge

Research Interests

Broad Area of Research :

- Signal and Image Processing , Stastical Signal Processing, Sensors Signal Processing & Conditioning and Biomedical Engineering

Honors and Awards

1. Received the Best Teacher Award on 3rd September 2025 during the Silver Jubilee celebrations of Kotak Mahindra Bank, Vijayawada, Andhra Pradesh.

Courses Taught

S.No	Course Name	Level (UG/PG)
1	Analytical Instrumentation	UG
2	Digital Image Processing	UG
3	Electronic Circuits-II	UG
4	Industrial Instrumentation	UG
5	Pulse Circuits	UG
6	Biomedical Instrumentation	UG
7	Transducers	UG
8	Professional Ethics	UG
9	Basis of Electronics Engineering	UG
10	Linear Control Systems	UG
11	Industrial Electronics	UG
12	Electrical & Electronic Measurements	UG
13	Industrial Safety and Environmental Management	UG

Research Profile

Publications

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

Google Scholar	https://scholar.google.co.in/citations?user=CIXBBLYYYYAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57211693717
ORCID	https://orcid.org/0000-0003-3440-9296

Recognized Research Supervisor

S.No.	Department	University
01.	NIL	NIL

Funded Research Projects

S.No	Type	Title	Status	Funding Agency	Amount (INR)	Duration
1	Govt. Funded	Study and Investigation of the effects of Raja Yoga Meditation (Brahma Kumaris) on the Organs of Human Body.	Applied	DST	Rs 30 Lakhs	3 Years
2	Govt. Funded	Investigation of the effect of Raja Yoga Meditation (Brahma Kumaris) on Character Building of Engineering Students	Applied	DST	Rs 11.70 Lakhs	2 Years

Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	Training & Placement Coordinator	VR Siddhartha School of Engineering, SAHE deemed to be University	2018-till date	<ul style="list-style-type: none">Coordinating of CRT programmes to II/IV, III/IV and IV/IV B.Tech students for improving of aptitude & logical reasoning, problem solving skills, soft skills and

				<p>technical coding skills.</p> <ul style="list-style-type: none"> • Planning and execution of special domain specific technical training programmes for core placement drives. • Ensuring smooth planning, scheduling, executing software and core placement recruitment drives in association with industry relations and placement department for IV/IV B.Tech students.
2	Committee Member in Training & Placement Committee	VR Siddhartha School of Engineering, SAHE deemed to be University	29 th November 2024	<ul style="list-style-type: none"> • Training & Placement (T&P) Committee Member facilitates the career planning process, bridging students, alumni, and recruiters. • Key roles involve inviting companies, organizing training/internships, managing student data, scheduling interviews, conducting mock sessions, and enhancing employability through skill development programme.
3	Examinations Incharge	VRSEC	2016-18	<ul style="list-style-type: none"> • Ensuring smooth planning, scheduling, assigning invigilation duties and conduct of internal examinations.
4	Department Library Incharge	VRSEC	2010-16	<ul style="list-style-type: none"> • Ensuring effective management of department library resources and provided awareness on e-resources
5	Committee Member in Central Library	VRSEC	2010-18	<ul style="list-style-type: none"> • Identifying and procuring books/journals, allocating budgets, monitoring digital resource utilization, fostering user engagement, and

				overseeing annual stock verification.
6	Industrial Tours Incharge	VRSEC	2010-16	<ul style="list-style-type: none"> • Planning, coordinates, and executes educational or professional visits, ensuring safe travel, logistical efficiency, and adherence to learning objectives.
7	Simulations Lab Incharge	VRSEC	2017-21	<ul style="list-style-type: none"> • Supervise lab usage and equipment functionality - Guide students in practical and project work - Update lab manuals and ensure safety compliance - Coordinate periodic maintenance and upgrades.
8	Control Systems Lab Incharge	VRSEC	2017-21	<ul style="list-style-type: none"> • Supervise lab usage and equipment functionality - Guide students in practical and project work - Update lab manuals and ensure safety compliance - Coordinate periodic maintenance and upgrades.
9	Member– NBA Criterion IV (Teaching Learning & Curriculum)	VRSEC	2012 onwards	<ul style="list-style-type: none"> • Documentation & Data Maintenance, Success Rate Analysis, Academic Performance Monitoring and Placement & Higher Studies Tracking.
10	Member – NAAC Criteria V (Student Support and Progression)	VRSEC	2012 onwards	<ul style="list-style-type: none"> • Documentation & Data Maintenance, Success Rate Analysis, Academic Performance Monitoring and Placement & Higher Studies Tracking.

Completed

S.No.	Title	Platform	Duration	Year
1.	Digital Image Processing	NPTTEL	12 Weeks	2018
2.	Bio Signal Processing	NPTTEL	12 Weeks	2018
2.	Bio Signal Processing	NPTTEL	12 Weeks	2019
3	AI for Everyone	Coursera	4 Weeks	2020

Consultancy / Industry Projects

Completed	NIL
On-going	NIL
Applied	NIL

Patents

S.No	Title	Status	Application No.	Year
1	AI-Driven image processing system and method for automated industrial quality control and inspection	Published	202541101887	28 th November, 2025
2	Deep Learning based system and method for early seizure prediction using EEG signal analysis	Published	202541101886	28 th November, 2025
3	Smart Adaptive Lighting System for Optimized Energy Efficiency and User Comfort	Published	202541088374	17 th October, 2025
4	A System and Method for Predictive Analytics in Retail using IOT-Enabled Sensor Network	Published	202541019470	21 st March 2025

5	A Distributed Network for Renewable Energy Sources using Remote Control System	Published	202541004598	31 st January 2025
6	AI Driven Decision Support System for Supply Chain Optimiztion	Granted	6415679	29 th May, 2025
7	A Method of Generating and Supplying Electricity from Sea Water	Published	202441079106	25 th October, 2024
8.	A Method for Remote Monitoring and Control of Agricultural Irrigation	Published	202441030130	19 th April 2024
9	A Nano Biosensor for Sustainable Agricultural Practice and Food Industries	Published	202441020870	29 th March, 2024
10	A Method for Real-Time Environmental Monitoring using IoT Sensors	Published	202441003429	9 th February, 2024
11	A Method for Diagnosing and Treating Cancer Based on Nano-Robots	Published	202341080481	22 nd December, 2023
12	A Cloud-based Robotics Control System	Published	202341068188	20 th October, 2023
13	A Smart Control System using IOT for Electric Vehicles Management and Method Thereof	Published	202341041801	01 st September, 2023
14	A Nano Robotic Arm to Operate in the Endoscopy	Published	202341037699	16 th June, 2023

Ph.D

Awarded	NIL
Guiding	NIL

Invited Talks

No. of Invited Talks	NIL
-----------------------------	-----

Professional Service / Reviewer

- Reviewer in Advances in Science, Technology and Engineering Systems Journal (ASTESJ), USA.
- Reviewer in Informatyka, Automatyka, Pomiary W Gospodarce I Ochronie Srodowiska (IAPGOS), Poland.

Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	07
International / National Level Seminars	00 / 02
International / National Level Conferences	20 / 02
Workshops	07
Instructor Led / Self-Paced Courses	04/01
Webinars	00

Professional Bodies Membership Details

S.No.	Membership No.	Society Name
1	F-504104	Life Member of Institute of Electronics and Telecommunication Engineering (IETE)
2	LM03732	Life Member of Indian society of systems for science and engineering(ISSE)
3	80347476	Life Member of International Association of Computer Science and Information Technology(IACSIT)
4	135465	Life Member of International Association of Engineers (IAENG)

P. Rajesh Polepogu

(Dr.Rajesh Polepogu)
