

FACULTY PROFILE



Dr. Leleedhar Rao K , M.Tech., Ph.D

Professor- EEE

HIGHLIGHTS:

- Number of Research Publications: 26
- H-Index: 04
- Project Funding Received: 01
- Patents Published: 02
- Consultancy Projects Executed : 04

PROFESSIONAL LINKS:

- Scopus ID: 57218353699
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57218353699>
- Google Scholar ID: [Dr. Kola Leleedhar Rao- Google Scholar](#)
- Anna University Faculty ID:
- AICTE Faculty ID: 1-2102785673
- Anna University Supervisor ID:
- LinkedIn: [Dr. Kola Leleedhar Rao- Linkedin](#)
- ORCID : [0000-0001-7557-7355](#)

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 16.5 Years
- Industrial Experience: 02 Years

AREA OF SPECIALIZATION:

- Green Electricity
- Energy Auditing and Management
- Electrical Systems Design
- Distributed Solar PV Systems

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

Sponsored Projects Sanctioned & Executed: (Rs. 361.30 Lakhs)

Sponsoring Agency	Role	Title of the Project	Grant Received (Rs. in Lakhs)	Duration
SEED Division, Department of Science and Technology, Govt. of India. (DST/SEED/SCSP/ST I/2020/376)	Co-Investigat or	Science & Technology Innovation (STI) Hub in Chandragiri Mandal, Chittoor District, AP State	361.30	2021-24

Consultancy Projects Executed: (Rs. 3.7 Lakhs)

Organization	Role	Title of the Project	Grant Received (Rs. in Lakhs)	Duration
M/s. Srinivasa Surgery & Maternity	Principal Consultant	Design of electrical system for a new Hospital construction at Nellore. (LOI, Dated.: 04-01-2024)	1.50	2023-24
M/s. Adesh Electricals, Proddatur, Andhra Pradesh	Principal Consultant	Design of electrical systems for a new G+5 building complex proposed to be constructed at Proddatur, YSR Kadapa District (LOI T.R No.: AE/G5B/C-MBU/02, Dated: 12.12.2022)	0.86	2022-23
M/s. B R Constructions & Fabrication Works, Tirupati. Andhra Pradesh	Principal Consultant	Complete electrical supply and distribution system designing for 2325 sft industrial shed which includes general lighting system, motor control centres and electrical power distribution systems. (LoI - Ref. No.: BRCF/KLR-SVEC/C/02, Dt.: 10-02-2022)	0.34	2021-22
M/s. Adesh Electricals, Proddatur, Andhra Pradesh	Principal Consultant	Design and Development of “Remote Control System for operation of Spill Way and Scour Sluice Gates” (LoI - T. R No.: AE/WRD-AP/C-SVEC/02, Dt.: 10-08-2020)	1.00	2020-21

PATENTS PUBLISHED/GRANTED:

As Main Inventor, published the following patents in official Journal of *Office of the Controller General of Patents, Designs & Trade Marks*, Government of India

Title	Application No.	Status	Product status
A transportable solar based sugarcane juice preheating system for jaggery making	202141031783	Published on 13.08.2021 FER issued & Filed Hearing on 21.01.2026	Working model is developed
A diffused solar reflector for use with solar tunnel dryer	202141036651	Published on 03.09.2021 FER issued & Filed.	Working model is developed

CERTIFICATIONS:

- **GEM Certified Professional** (C. No.: GEM CP 22/815) by The Associated Chambers of Commerce and Industry of India, India.
- **Chartered Engineer (India)** by IEI, India
- **Solar Chartered Engineer** by SESI, an Indian Section of the International Solar Energy Society.
- **ESG-Carbon Accounting** by M/s.Tattva ESG Solutions, India.

ACHIEVEMENTS AND AWARDS:

- Received “**Best Paper Award**” for research paper titled "EPA To Regulate The Energy Consumption at the Facility- A Real Time Case Study" presented in the Second International Conference on Trends in Electrical, Electronics, and Computer Engineering (TEECCON-2023), an **IEEE conference** organized by REVA University, Bengaluru held on 23.08.2023 and 24.08.2023.
- Received “**Best Doctoral Thesis Award**” (Investigation on Resource Utilization for Green Electricity) in “Pride of India Awards - 2022” by the International Council of Social Reforms and Research on 14.04.2022.
- Received “**Certificate of Appreciation**” from Water Resources Department, **Government of Andhra Pradesh** for “Designing and Developing a RCS for operation of Spill Way and Scour Sluice Gates” (which is one of the sub-works of Govt. of AP prestigious project - construction of a new reservoir across Kundu river, Kurnool District) on 01.03.2021.
- Conferred with “**Young Scientist Award**” by IARDO in association with VCET, Kota, on 05.05.2019.
- Received “**Bright Idea Innovator Award**” by DSIR-PRISM-TOCIC at Sri Padmavati Mahila Visvavidyalayam (Women’s University) on 29.04.2016.

SPECIAL SESSIONS DELIVERED:

- Resource Person for ***Hands-on training on Solar PV System Design*** organized by KSRM College of Engineering (Autonomous), Kadapa from 26.03.2025 to 27.03.2025.
- Resource Person for one day workshop on ***Energy Auditing & Management Practices*** organized by Sree Rama Engineering College, Tirupati on 09.11.2022.
- Resource Person for two days workshop on ***Energy Conservation and Audit*** organized by Sree Rama Engineering College, Tirupati from 10.10.2022 to 11.10.2022.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

Conferences Attended:

- 1) Second IEEE International Conference on Futuristic Technologies (INCOFT), organized by SGBIT, Belagavi, Karnataka, India, held during 24 -26 November, 2023.
- 2) Second IEEE International Conference on Trends in Electrical, Electronics, and Computer Engineering (TEECCON-2023) organized by REVA university, Bangalore, India held during 23-24 August 2023.
- 3) *Fifth IEEE International Conference on Energy, Power and Environment (ICEPE 2023)*, organized by National Institute of Technology Meghalaya, India, held during 15th -17th June 2023.
- 4) First International Conference on Intelligent Healthcare and Computational Neural Modelling. (ICIHCNN 2022) organized by SoC, MBU, Tirupati during 30th November to 1st December, 2022.
- 5) 2020 IEEE International Power and Renewable Energy Conference, organized by College of Engineering, Karunagappalli during 30th, 31st October and 1st November 2020.
- 6) AICTE sponsored International Conference on Smart Computing and Control of Systems (ICSCCS-2019) organized by the Dept. of EEE, SVEC, India during 17th to 19th October, 2019.
- 7) International E-Conference on Energy, Control, Computing and Electronic Systems, Organized by Department of EEE, Sree Vidyanikethan Engineering College, Tirupati, India during 27 – 29 November 2020.
- 8) Fifth IEEE International Conference on Electrical Energy Systems (ICEES 2019), organized by SSN College of Engineering, Chennai, India, during 21– 22 February 2019.
- 9) Two day- National Conference on Smart Grid And Renewable Technologies (SMART-2016), organized by Sree Vidyanikethan Engineering College, Tirupati during 21- 22 October, 2016.
- 10) International Conference on Technologies for sustainability- Engineering, Information Technology, management and the Environment, organized by DAV Institute of Management Faridabad on 28th November 2015.

Full Term Training/Programs Attended:

- 1) Six-Day International Faculty Development Programme (FDP) on “Next-Generation Technologies: An Integrated Approach to EV, AI, Embedded Systems, and Custom IC Design”, organized by the Department of ECE and Department of EEE, Kamaraj College of Engineering and Technology (An Autonomous Institution), S.P.G.C Nagar, K.Vellakulam - 625701, Tamilnadu, India, from 12th December 2025 to 18th December 2025.
- 2) Advanced Certificate Program in “Electric Vehicle Design” conducted by iHUB DivyaSampark, IIT Roorkee in association with DST during 30th September, 2023 to 30th November, 2024.

- 3) Solar PV Free Lancer – Online Training on PVsyst Solar Design Tool organized by Nirvana Foundations, Bangalore on 06th November 2020.
- 4) A webinar on “E-Waste (Management) Rules-2016” organized by National Productivity Council under ministry of Commerce and Industry, GOI, on 26th May 2020.
- 5) One day training cum certification program on “Emerging Trends in Industrial Motor & Its driven Systems for improving energy efficiency” conducted jointly by International Copper Association India & National Productivity Council, Chennai on 25th April, 2019.
- 6) A two day national level workshop on “Recent Trends in Smart Grid Technologies,” organized by IIT Bhubaneswar during 8th & 9th Nov 2014.
- 7) A two day training program on “Solar Energy Theory and Practice,” organized by Nirvana Foundations, Bangalore during 24th & 25th May 2013.

Short-Term Courses Attended:

- 1) One week Short term course on “Electrified Mobility,” organized by Dept. of EEE, SVEC during 14th to 19th May, 2018.
- 2) A Two-week National Level Workshop on “Applications of MATLAB in Electrical Engineering” organized by SVEC during 13th to 25th June, 2016.
- 3) AICTE Sponsored two week Faculty Development program on “Advances in Power System Operation, Protection and Control,” organized by SVEC during 15th & 27th June 2015.

In-house /Other Events Attended:

- 1) Three day Virtual Expert Lecture Series on “Main-Streaming Cross Cutting Issues: Environment and Society”, organized by the Dept. of EEE in association with IEEE Student Branch, SVEC, Tirupati from 11th to 13th August 2020.
- 2) A webinar on “Deep Learning in Visual Recognition” organized by the Dept. of EEE in association with IEEE Student Branch, SVEC, Tirupati on 2nd July 2020.
- 3) A National level two day workshop on “Smart Grid Simulation with Distribution Generation and Electric Vehicle Load Uncertainty,” organized by Dept. of EEE in association with Centre for Energy under IEEE Student Chapter from 7th to 8th February, 2019.
- 4) An Activity based Learner Centered One day Work Shop on “Phonetics and Spoken Communication Skills,” organized by Dept. of GEBH, SVEC on 21st December, 2016.
- 5) A one day Workshop on “COMSOL Multiphysics and Application Builder” organized by Dept. of EIE, SVEC, Tirupati on 29th July, 2016.
- 6) A one day national level seminar on “State estimation and power system security,” organized by SVEC on 31st Oct, 2014.
- 7) A two day national level workshop on “Current Practices in EHV and UHV AC Transmission & Renewable Energy based power plants,” organized by SVEC during 2nd & 3rd Aug 2014.
- 8) A one day Workshop on “PSCAD applications in Electrical Engineering,” organized by SVEC on 2nd March, 2014.
- 9) A two day national level Workshop on “Advances in Power System Stability –Reliability”, organized by SVEC during 3rd & 4th March, 2014.

PROFESSIONAL MEMBERSHIPS:

- Member- IE, Institution of Engineers, Membership No.:1782678
- Senior Member-IEEE, Membership No.:99254133
- Life Member-ISTE, The Indian Society for Technical Education, Membership No.: 128361
- Life Member-SESI (Solar Energy Society of India), Membership No.: LM/2818/2023

OTHER DETAILS:

- Certified & Authorized Chief Training Officer by M/s. Advanced Ultra Power Transmission Consultancy (AUPTC), Gurgoan, India to offer Technical Skills Training and Internship programs on Electrical System Design and Green Power Solutions, from 04.11.2022.
- Academic Council Member for Mohan Babu University (MBU), Tirupati, India from 01.08.2022.