



VENGATESH P, M.Tech. (Power Systems)

Assistant Professor

Electrical engineering educator with Industrial research experience and expertise in Power Systems focussed on inter-disciplinary research projects related to energy management systems and enriching students with effective teaching.

ACADEMIC QUALIFICATIONS

M.Tech. Power Systems and B.Tech. Electrical & Electronics Engineering

2013-2018 (5 years Integrated Programme)

SASTRA Deemed University (NAAC: A++), Thanjavur, Tamilnadu

INDUSTRIAL EXPERIENCE

Power System Startup (with Govt. of India Funding)

Period: 2021 to 2025

- Founded an electrical research based startup company in the DEC 2021 (Elsavi Power & Digital Private Ltd).
- Got selected under Startup India Seed Fund scheme in the year 2022
- **Selected as one among 36 Startups out of 421 applicants across India.**
- **Received fund of Rs. 20 Lakhs as grant from Govt. of India** for the Startup for prototype development.
- Worked on development of Adaptive Energy Management System (AEMS) with high resolution control signal transfer capabilities for real time grid control based on Phasor Measurement Units, digital relays and online controllers to realize the new-age Electric grid with high level of self-healing capabilities to prevent transient instability, out of step, cascaded tripping & system wide blackouts.
- Worked on Southern Regional grid & Karnataka transmission grid's power system simulation studies & on-field mapping.

Intern

Power Grid Controller of India, Ministry of Power, SRLDC, Bengaluru (Formerly Power System Operation Corporation Ltd.)

Period: DEC 2017- DEC 2019

Worked on the development of real-time synchrophasor applications for enhanced power grid stability at Southern Regional Load Despatch Centre, Bengaluru. Simulations for optimising power flow in southern regional grid among Andhra, Telangana, Kerala, Tamilnadu & Karnataka states at 230KV and 400KV level substations.

TN Electricity State Load Despatch Centre (Chennai) | Training

Date: JUNE 2017

On-site learning of practical system operation, grid code, day ahead scheduling, merit order dispatch, deviation settlement mechanism and about availability-based tariff.

TN Electricity Grid Protection & Communication Wing | Training

Date: JUNE 2016

Onsite learning in a 230 KV Grid Sub-Station about grid relay testing procedures, fault Current setting procedure in ALSTOM company relays & on-site demonstration of control signal transfer among CT, PT , Relays , Circuit Breakers & Isolators was witnessed.

International Conference on Intelligent Management of Future Grid, New Delhi

Date: JAN 2017

Participated in the International Conference organized by Indian Electrical & Electronics Manufacturers' Association (IEEMA) along with IEEE at Greater Noida, New Delhi. Had the opportunity to interact with industry professionals from companies like ABB, Siemens, ALSTOM & with Indian Power Grid officials.

PUBLICATION

Title: Real Time Linear State Estimation at Southern Regional Load Despatch Centre of India

Publisher: IEEE , Date Added to IEEE Xplore: 28-MAR-2019

Excerpt: Real time LSE algorithm for power system control at Southern India Regional Power grid which will control power flow for the states Andrapradesh, Telangana, Kerala, Tamilnadu & Karnataka. Published in: International Conference on "Computing, Power and Communication Technologies" held at Greater Noida, New Delhi on 29-SEP-2018

IEEE Link: <https://ieeexplore.ieee.org/document/8674940>

TECHNICAL SKILLS

- Power System Programming (C , MATLAB)
- Power System Fault Studies (ETAP)
- Relay Co-Ordination (ETAP)

CONTACT DETAILS

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