

KRISHNA KANAKGIRI

kvkanakgiri@ee.vjti.ac.in

Work Experience:

Lecturer (Adhoc): 28/07/2009 to 28/12/2010, Electrical Engineering Dept., VJTI.

Assistant Professor (Regular): 29/12/2010 to till date, Electrical Engineering Dept., VJTI.

Qualification:

PhD in Electrical Engineering (Currently Pursuing at IIT Bombay under QIP category)

M.Tech and B.E in Electrical Engineering from Mumbai University

Courses Taught: Electromagnetic Fields & Waves, Power System Analysis, Renewable Energy, High Voltage Engineering and Applied Linear Algebra

Syllabus framed: 1) Electrical Distribution Systems and 2) Sensors and Transducers for B.Tech Electrical of VJTI

Publications:

- 1) "Flatness based TCSC controller for transient stability enhancement of power system"
C Venkatesh, T Deepak, K Rajesh, K Krishna, AK Kamath, 2010 Modern Electric Power Systems, Warsaw, Poland
- 2) Limiting fault current in a power system network by SFCL: A step input approach,
A Jain, VK Dubey, G Jawale, HA Mangalvedekar, K Kanakgiri, 2016 IEEE 6th International Conference on Power Systems (ICPS)
- 3) "Two-phase soft start control of three-phase induction motor"
S Pandey, S Bahadure, K Kanakgiri, NM Singh, 2016 IEEE 6th International conference on Power Systems
- 4) "Feasibility analysis for optimal placement of SFCL in a loop network: A case study"
A Jain, VK Dubey, G Jawale, HA Mangalvedekar, K Kanakgiri, 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)
- 5) "Analysis of linear induction motor for Aircraft Launch System considering end-effects"
P Suryawanshi, A Chavan, L Jamkar, S Pandey, K Kanakgiri, 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)
- 6) "Real-time localisation and path-planning in ackermann steering robot using a single RGB camera and 2D LIDAR"
S Potdar, S Pund, S Shende, S Lote, K Kanakgiri, F Kazi, IEEE 2017 International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS)

- 7) "Effect of Stray Capacitance on Marx Generator Output Voltage"
Sabyasachi Mitra, Vishnu Sharma, Senthil Kalyandrum, Romesh Chandra, Sandeep Singh, Rakhee Menon, Ankur Patel, Amitava Roy, Archana Sharma, Mayank Mishra, Krishna Kanakgiri, The Journal of CPRI 13 (1), 91-96, 2017
- 8) "Impact of adding new generators in a loop network with optimally placed SFCL"
VK Dubey, A Jain, G Jawale, HA Mangalvedhkar, K Kanakgiri 2016 IEEE PES 13th International Conference on Transmission & Distribution Construction, Operation & Live-Line Maintenance (ESMO), Columbus, Ohio, USA
- 9) "Particle-in-Cell Modeling of Axial and Coaxial Virtual Cathode Oscillators"
A Saxena, A Roy, K V Kanakgiri, S J Petkar, F S Kazi, N M Singh
IEEE Transactions on Plasma Science 44 (10), 2399-2405, 2016
- 10) "Study of Underground Power Cable Considering Sheath Circulating Current"
Saurabh Sakalkale, Krishna Kanakgiri, Fourth IRF International Conference, Goa, 7-10 2014
- 11) "Flatness-based Trajectory Generation and Tracking for a DC motor drives using MPC"
Chinde Venkatesh, Kanakgiri Krishna, Tiwari Deepak, K Rajesh, 16th National Power System Conference, Hyderabad, 2010
- 12) "Power System Modelling And Control Using FACTS"
Amol Patil, Krishna Kanakgiri, International Conference on System Dynamics and Control - ICSDC, Manipal, 2010

Conferences and Workshops Conducted:

- 1) SPPT-10 (School on Pulse Power Technology), 17th -21st May, 2010. (Funded by BRNS)
- 2) "High Voltage and Partial Discharge", One Week Workshop, 14th-19th March, 2016. (Funded by QIP, AICTE)
- 3) "Recent Trends in Power Systems", One Week Workshop, 16th-20th May, 2016. (Funded by TEQIP-II)
- 4) "Smart Grids: Renewable Integration and Microgrids", One Week Workshop, 25th Feb- 1st March, 2016. (Funded by TEQIP-II)
- 5) "Optimization in Restructured Power Systems", One Week Workshop, 10th-12th and 18th-19th March, 2016. (Funded by TEQIP-II)

Consultancy, Testing and expert for the technical committees:

- 1) Member of Committee set up by Maharashtra Electricity Regulatory Commission for resolving the issues of 33kV outlets between Tata Power and Reliance Energy. (2013)
- 2) Third party technical audit for Navi Mumbai Municipal Corporation case on underground cables. (2016)
- 3) Pre-Dispatch inspection of LG Domestic refrigerators, deep freezers and Lenovo laptops for Maharashtra State AIDS control Society. (2021)

- 4) Rate estimation for electrical items used in 3 Covid Centres of Navi Mumbai Municipal Corporation. (2021)
- 5) Pre-Dispatch inspection of Acer All-In-One Desktop. (2022)
- 6) Technical Evaluation of providing Electrical installation of LED lights on Sion Panvel Highway (Navi Mumbai Municipal Corporation). (2022)
- 7) Member of the study committee formed by Government of Maharashtra for MSEDCL's operation and laying down time bound plan for performance improvement. (2022)

Funded Projects:

- 1) Vulnerability Analysis of Power Grid, (Funded by M/s Portescap), 2016-2017

Guest lecture:

- 1) "Fundamentals of Electromagnetism and its Applications", 18th April 2016, Walchand College of Engineering, Sangli for B.Tech Electronics Students.
- 2) "Physics of Electromagnetism", 31st January 2014, Walchand College of Engineering, Sangli for B.Tech Electronics Students.
- 3) "Electrical Safety", 7th March 2022, Carriage Workshop Central Railway Mumbai, for Engineers and management employees.
- 4) "Creating Research Environment in Academics", 25th March 2022, Deccan Education Society, Mumbai for faculty and staff.

Other Academic activities:

- 1) Examiner for M.Tech/B.Tech Dissertation, Walchand College of Engineering, Sangli
- 2) Examiner for UG exams conducted by NMIMS, Mumbai
- 3) Panelist for interviews conducted by MSETCL and MSEDCL for their engineering cadre posts.

Professional Body membership:

- 1) Member, IEEE
- 2) Counsellor, IEEE VJTI students chapter
- 3) Life Member, Institution of Engineers India (IEI)
- 4) Chartered Engineer (IEI)
- 5) Life Member, Indian Society for Technical Education
- 6) Life Member and Joint Treasurer, Power Beam Society of India

Projects Guided:

- 1) M.Tech: 9
- 2) B.Tech: 30

Academic Achievements:

- 1) Qualified GATE 2007 exam. (AIR-460)
- 2) Best TA certification at IIT Bombay July-Nov 2018