

FACULTY PROFILE

Name : **Dr. Sangamesh Y. Goudappanavar**



Designation : **Assistant Professor**
Department : **Electrical and Electronics Engineering**
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Researcher ID (Web of Science) : **AAE-2893-2019**
Google Scholar ID : **sS6rjNgAAAAJ**

Qualification : **B.E., M.Tech, PhD**

Professional Experience

Teaching experience : **15**

Industry experience : **--**

Administrative Responsibilities : **IEEE PES SBC Advisor, Execom NKSS, IEEE Day Ambassador.**

Teaching :

No. of Projects Guided

UG : **27**

PG : **7**

Research : **Smart Micro-Grid**

Interest Area : **Data Analytics, Smart Micro-Grid, Distribution Network, Design & Fabrication of Renewable Energy Systems, Electromagnetic, Optimization Techniques**

Research Grants : 1. **Rs.6000.00 for “Development and Fabrication of VAWTG Blades using Natural Fibres for Domestic Usage”, 46S_BE_5487, 2023**

2. **Rs. 5000.00** for “**Development and Performance Analysis of Small Wind Turbine Generator Blade using FG Method**” from IEEE PES Bengaluru Section-2022.
3. **Rs. 5000.00** for “**Optimization of Converter for Roof-top Hybrid Nano-WTG Solar PV System in BEC(A) Distribution Network**” from IEEE PES Bengaluru Section-2022.
4. **Rs.3.00 Lakhs** for “**SPV based Outdoor Shelter for Street Vendors- Design, Implementation, Testing and Demonstration of Commercial Appliances with SPV Powered DC Distribution**”, VGST, GoK, 2019 - 2020 (CO-PI).
5. **Rs. 1.85 lakhs** for “**Grid-Tie Inverter with Bi-directional FCU**” from TEQIP-II (Technical Education Quality Improvement Program), a World Bank scheme for establishment of phase-2 of Seed Grant for Research under the guidance of Dr. Suresh H. Jangamshetti, 2016.
6. **Rs. 0.055 lakhs** for “**Hybrid Solar TEG for waste heat Recovery**” from KSCST IISc, Bangalore, 37th series 2013-2014.

- Journals (with citations)** :
1. Sangamesh, Y. Goudappanavar, Suresh H. Jangamshetti, “**High Tension Voltage Regulation Based Power Flow Analysis of Radial Distribution Network**”, International Journal of Engineering Sciences and Management - A Multidisciplinary Publication of VTU, Vol.2, issue 2, pp:8-13, June 2020. Citations:2
 2. Sangamesh, Y. Goudappanavar, Suresh H. Jangamshetti & Pallavi Hosamath, “**Optimal Sizing and Placement of μ -WTG in μ Grid based on Loss Estimation**”, Journal of Information and Computational Science, ISSN:1548-7741, Vol.12 Issue 6, pp.34-40, Dec.2019.
 3. Sangamesh, Y. G., Suchitra, G., and Jangamshetti, S. H. “**Performance Assessment of 2500 TCD Cogeneration Plant**”, International Journal of Scientific & Engineering Research (IJSER), Volume 3, Issue 5, pp. 1-6, May-2012. Citations:7.

- Conferences** :
1. Suresh H. Jangamshetti, Sangamesh Y. Goudappanavar, Representation of Distribution Network for Teaching Power Flow Analysis- A Case Study of an Academic Campus, 13th IEEE Integrated STEM Education Conference, John's Hopkins University, ML USA, 2023.
 2. Jaijagdeesh O, Sangamesh, Y. Goudappanavar, Suresh H. Jangamshetti, “Identification of Fault Area in the Distribution System based on Rotor Angle behavior of Diesel Generator”, IEEE International Conference on Energy, Power and Environment, NIT Meghalaya 5-7, March 2021.
 3. Sangamesh, Y. Goudappanavar, Suresh H. Jangamshetti, “Stochastic Power Flow Analysis of Unbalanced Distribution System based on cluster of SWTG-SPV”, IEEE PhD Colloquium on Ethically Driven and Innovation for Society (EDITS), 8-8 Nov. 2020, DOI: 10.1109/PhDEDITS51180.2020.9315298.
 4. Sangamesh Y. Goudappanavar, Suresh H. Jangamshetti and Rubinabegum H. Yadahalli, “Design and Modelling of Droop Control for Small Wind Turbine Generators in Microgrid”, International Conference on Small Wind Turbine, NIWE, MNRE, Chennai, 10-12 Dec. 2018.

5. Varsha S. Atur, Sangamesh Y. Goudappanavar, Dr.Suresh H. Jangamshetti, "Novel Control Algorithm for Storage System for Small Wind Turbine Generator", IEEE-ICTCEEC, Mysore, 8-9 Sep.2017.
6. Sangamesh G, Naik Raghuram L., Jangamshetti Suresh H., "Simple Control Strategy for UPF Power Conditioner of GSC connected to Wind Turbine", presented at IASTED Asia PES-2013, April 10-12, 2013, Phuket Thailand. Paper Id 800-060.
7. Sushma Patted, Sangamesh Goudappanavar., "Optimization of Earthing System in Industrial Plant", presented at IRAJ, Mumbai, 25.09.2015.
8. Sangamesh Y G., Suchitra, G., and Jangamshetti, S. H. "**Performance assessment of 2500 TCD Cogen Plant**", Proceedings of 2nd National Conference on Advanced Technologies in Electrical and Electronic Systems, 17-18 Feb 2012, GIT Belagavi, Karnataka State, India.
9. Savita Kundargi, Sangamesh Y G, "**Net Metering for academic loads**", IEEE PES STUDENT CONGRESS-2016 at Vidyavardhaka College of Engineering Mysuru, 17th Sept. 2016.

Invited Talks

- :**
1. Webinar on **Small Wind Turbines in Microgrid**, IEEE YP SBC, Swarnaandhra Engineering College, AP, 26.08.2023
 2. Three Days Training Program on "**Smart Teaching Skills for Aspiring Teachers(STAT)**", 9-11th Feb, 2017.

Events Organized

- :**
1. Webinar on Industry 4.0, 7.01.2023, BEC Bgk.
 2. Seminar on Benefits of IEEE Membership, 03.11.2022, BEC Bgk.
 3. Technical Talk on Building Career Opportunities in Industry – Professional Development Activity, 19.10.2022, BEC Bgk
 4. Industry Webinar on "**Protective Switchgear-Challenges & Applications**", Resource Person: Mr. Shridhar D. V., CEO DBSON, Universal Motor Control, Tumkuru, 15th June 2020.
 5. Three days training on "**MiPower Software**", resource person: Mr. Basil & Sadashiv, Power Research & Development Consultants Pvt. Ltd. Bengaluru at BEC Bagalkot, 24-26 Feb. 2020.
 6. Industry Seminar on "**Design and Fabrication of PCB**", Invites resource person: Mr. Pankaj Inamdar and Ms. Vedanjali Gaonkar, financial assistance under TEQIP-III and IEEE-PES Student chapter (35261A), 26-27, March 2018.
 7. Three Days Training Program on "**Smart Teaching Skills for Aspiring Teachers(STAT)**", 9-11th Feb, 2017
 8. Industry Seminar on "**Technologies to Empower Electrical Engineers**", Dr. Hariram Satheesh, ABB B'lore on 4th Feb 2017.
 9. Industry Seminar on "**Energy Conservation, Audit & DSM**", Mr. Mallikarjun Kambalyal SHUBSUN Electric Systems Pvt Ltd., 1st Oct 2016. Organised under TEQIP-II
 10. Two days workshop on "**Embedded System Using Arduino**", Mr. Ravi Prakash, Paramonous System & Sir MVIT Bengaluru, during 17th & 18th September 2016. Organised under TEQIP-II
 11. Three days SDP on "**Electromagnetics**", by Dr. Anand K. Kulkarni, Professor of Emeritus, Dept of ECE, Michigan Technological University, USA, 1st to 3rd March 2013. Organized under TEQIP-II.

Conferences/ Symposiums/ Workshops/ Training Programs Attended :

1. Webinar on Industry 4.0, 7.01.2023, BEC Bgk.
2. Seminar on Benefits of IEEE Membership, 03.11.2022, BEC Bgk.
3. Technical Talk on Building Career Opportunities in Industry – Professional Development Activity, 19.10.2022, BEC Bgk
4. Webinar on “**Basics of ETAP**”, 2nd April 2022, BEC Bgk.
5. Webinar on “**Water Conservation Through Behaviour Change**”, 25.02.2022, BEC Bgk.
6. Webinar on “**Designing Grid Tied Solar Rooftop PV Plant & Net Metering Approvals**”, 16th April 2022.
7. Half-Day workshop on SPV Powered Irrigation System, 20th Jan. 2022.
8. Industry Webinar on “**Protective Switchgear-Challenges & Applications**”, Resource Person: Mr. Shridhar D. V., CEO DBSON, Universal Motor Control, Tumkuru, 15th June 2020.
9. Three days training on “**MiPower Software**”, resource person: Mr. Basil & Sadashiv, Power Research & Development Consultants Pvt. Ltd. Bengaluru at BEC Bagalkot, 24-26 Feb. 2020.
10. Member Cohort Workshop and case Study Presentation on “**Main Streaming Wind Generation in the Grid**”, NIWE India, 7-12th Feb. 2022.
11. Sangamesh Y. Goudappanavar, Online FDP on “**Advanced Optimization Techniques and hands-on with MATLAB/SCILAB**” by Ministry of Electronics and Information Technology (MeitY), Govt. of India, 13 – 24th July 2020.
12. Short term course on “**Learn to Design you own Solar Home System**”, by Energy Swaraj Foundation (Energy Literate-Honour Code Certificate), 24th April to 07th May 2020.
13. Honour Code Certificate of Hands-on “**Training on Solar Study Lamp Assembly**”, IIT Bombay, May 2019 to 31 Dec. 2019.
14. FDP on “**Electric Vehicle-Electric Machine Drives, Power Converters & Latest Technologies**”, BEC Bgk, 22-26 July 2019.
15. Two Week Training on “**Small Wind Energy**”, National Institute of Wind Energy (NIWE) Chennai, Nov.-Dec. 2018.
16. One Week workshop “**End to End Innovations**”, IIT Powai-Bombay, 19-23rd Feb. 2018.
17. One week “**Client Level-I Training on Mipower**”, Power Research and Development Consultants Pvt Ltd, Bengaluru 11 to 15 Sep. 2017.
18. Two days workshop on “**Wind Energy in Smart Grid**”, CPRI, Bengaluru 10-11 March 2017.
19. CEP Course on “**Advanced Control Systems**”, By Dr. Ravi Gudi, IIT Bombay 1-4 March 2017 .
20. Three days workshop on “**Design of Experiments through Research Problems**”, by Dr. Suhas Joshi, IIT Bombay during 21 to 23rd Jan 2017
21. Two days workshop on “**Energy Analytics in Smart Cities-Micro-Grid, Distributed Generation & EV’s**”, during 23rd to 24th Sep. 2016, IISc Bengaluru.
22. One day seminar on “**ISRO Societal Web applications**” by Dr. C. J. Jagadeesha, Scientist-ISRO, 9th Sept 2016.
23. One day seminar on “**Civil Engineering in Historical Perspective**” by Dr. Bruce Seely, Dean, College of Sciences and

- arts Michigan Technological University, MI USA on 14th Jan 2016 under TEQIP-II.
24. One day IEEE-PES Bengaluru Chapter program on “**Young Researchers Meet – Industries and Academic Interaction to foster Research**”, on 5th Dec 2015 under TEQIP-II.
 25. One day workshop on “**Modelling & Simulation of Power Systems in Microgrid Environment**” at PSG college of Engineering & Technology, Coimbatore, 14th oct 2015.
 26. Two days Orientation Programme on Entrepreneurship Development and Implementation of DEBM programme, Entrepreneurship Development of India on 26-27th August 2015.
 27. Short term course on “**Grid Integration of Renewable Energy Sources**” at New Delhi, 8-19th April 2015.
 28. Two days National Symposium on “**Sustainable Energy Technologies for Academic Campuses**”, on 5th & 6th Jun 2015 under BEC-TEQIP-II.
 29. International Workshop on “**25 years of Passivity based Control: New Vistas**” at VJTI Mumbai, 19-23 May 2014.
 30. Seminar on “Real-time Applications in Multistoried Buildings” by Mr. Vijaykumar D, Manager-Electrical, Manthri Developers Pvt. Ltd., Bengaluru on 15th Aug 2014.
 31. FDP on “Capacity Building Towards Quality Teaching and Learning” by IISc, Bangalore, 25th Nov to 6th Dec 2013 & 8th to 10th Jan 2014.
 32. Seminar on “Career in Civil Services” by Mr. Shivanand Kalakeri IRS, Deputy Commissioner of Income Tax Bengaluru on 14th Aug 2014.
 33. Five days Short Term Course on “Emerging R&D in Wind Energy Conversion – Present and Future Challenges”, from 21st to 26th Jul 2014 organized under TEQIP-II.
 34. Two days National Workshop on “Sustainable Innovation – an End-to-End Approach”, from 29th to 30th Jan 2014 organized under TEQIP-II.
 35. Two days hands-on workshop on “MatLab Programming for Electrical and Electronics Engineers”, on 30th and 31st Dec 2013 under TEQIP-II. Number of Participants: 60
 36. One day workshop “Curriculum Development, Revision and Restructuring – M.Tech PES”, on 4th March 2013 under TEQIP-II
 37. Three days SDP on “Electromagnetics”, by Dr. Anand K. Kulkarni, Professor of Emeritus, Dept of ECE, Michigan Technological University, USA, 1st to 3rd March 2013. Organized under TEQIP-II.
 38. Seminar on “Recent Developments in Solar Energy” by Mr. Shivanand Mareguddi, Engg Procurement Officer, Control Technologies, Sydney Australia on 16th April 2012
 39. Two day hub level event titled “Inn-Wie-tion” – Workshop on MatLab, Robust: Robotic contest, Quizes: Acquantomath, IT and General, Movie making competition on theme “Women in Engineering”. 31st March and 1st April 2012
 40. Seminar on “Innovative Ideas and Projects” by Dr. R. N. Herkal, Principal BEC Bagalkot on 22nd March 2012
 41. Two days workshop on “How to Teach Electromagnetics”, “Nanoelectronics” and “Recent Developments in Wind Turbine

Generators”. Speakers: Dr. Anand K Kulkarni, Professor of Emeritus MTU MI USA and Mr. Damodar K Kulkarni, Electrical Consultant Gujarat. Date: 15th and 16th Feb 2012

42. “NOVUS’10 – A state level technical fest and Robotics Workshop”, sponsored by BVV Sangha BEC, BEC-IEEE student branch and IEEE Bangalore section. 13-14 November 2010.
43. “Awareness and Applications of MiPower Software”, two days workshop by Power Research & Development Consultants Pvt. Ltd., Bangalore. 21-22 Oct 2010.
44. One week workshop on “BOSCH Electric drives and controls by Programmable Logic Controller “.June-2010.
45. Faculty development program on “Effective Teaching practices”, 29-31 January 2010, organized by Basaveshwara Engineering College Bagalkot.
46. “Renewable Energy Options for Heating and Lighting in Public buildings, Hospitals, Hotels, Educational Institutions and Tourist/Religious Places” two days state level seminar cum exhibition. Sponsored by MNRE Govt of India and Energy Department Govt. of Karnataka. Organized by KREDL Bangalore and BVVS BEC Baga1kot. 29th and 30th April 2010.