

Name of Faculty	Dr. Sukanth.T
Designation	Asst. Professor
Nature of Job/Appointment	Contract
Date of Joining	04-03-2024
E-mail	sukanth.t.ssc@shit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Electrical Engineering)	-
PG	M. Tech. (Electrical Power Engineering)	First Class
UG	B. Tech. (EEE)	First Class

Work Experience

Teaching	12 Years 9 months
Research	04 year
Industry	--
Others	--

Area of Specialization

Professional Memberships

Responsibilities held at Institution Level

Responsibilities held at Department Level

Research Guidance

Awards Received

Courses Handled at Under Graduate / Post Graduate Level

No. of Papers Published

Projects Carried out

Patents

Technology Transfer

12 Years 9 months

04 year

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Power Systems

Member, IAENG Number: 208881.

IEEE Number: 95559972

SSI Life Member:LM-33401

Infrastructure Procurement Member

1. NAAC criteria-1,7 departmental in charge.
2. NBA In-charge
3. NIRF Filling.
4. HOD
5. Industrial Tour In-charge.
6. Exam branch In-charge.
7. B.Tech Project Co-ordinator.
8. Department Library In charge.
9. Mentor.

Best Paper Award at ICAM -2011.

1. Power Systems -I.
2. Power Systems -II.
3. Switch Gear & Protection.
4. Electrical Circuits.
5. Power System operation and control.
6. Basic Electrical Engineering.
7. Power Quality & Facts..
8. Electrical Measurements & Instrumentation.
9. HVDC.
10. Electrical Machines-I.
11. Electrical Machines-II.
12. Electrical Machines-III.
13. Electrical Circuit analysis.
14. Electrical Magnetic Fields.
15. Power System Analysis.
16. Economic Operation of Power Systems.

National Journals – 02

National Conference - 04

International Journals – 19

International Conference 13

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Invited Speaker

No. of Books/Chapter Published with details

Guest Lecture BEE

1 (Comparative study of different control strategies for DSTATCOM Agile Manufacturing system- Narosa Publications- 978-81-8487-200-2. Page No, 354-358.

1. Dr. Sukanth .T Organized Short Term Training Program (STTP) on “Smart Energy • Safe Nation”, conducted under the aegis of the National Safety Council from 26th June to 2nd July 2025.
2. Dr. Sukanth .T Organized Value Added Course on “Integrated Aptitude and Employability Booster Program” 01st – 15th July 2025 (Offline)
3. Dr. Sukanth .T participated in Two Weeks NPTEL FDP Course “Industry 4.0 and Internet of Things” in November 2025. (Received Elite).
4. Dr. Sukanth .T participated in Two Day National Faculty Training Workshop on ‘Reviving Indian Knowledge Systems for Sustainable Development (IKSSD)’ during April 12-13, 2025 organized by the Centre for Indian Knowledge Systems, CBIT, Hyderabad, India, sponsored by Indian Council of Social Science Research, Southern Regional Centre, Hyderabad.
5. Dr. Sukanth .T participated in Two Weeks NPTEL FDP Course “Internet of Things” in April 2025. (Received Elite).
6. Dr. Sukanth .T participated in a National Level One Week Faculty Development Programme (Hybrid) on “National Education Policy 2020 - Challenges in implementation in Higher Education” organized by Department of EEE, IT and Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with IEEE Education Society Student Branch Chapter CBIT and IEEE Young Professionals from 18th March 2024 to 23rd March 2024.
7. Dr. Sukanth .T participated in one week Faculty Development Programme on “The Joy of Computing Using Python” under NPTEL AICTE from July 2024 to October 2024.
8. Dr. Sukanth .T participated in one week Faculty Development Programme on Applied AI: Practical Implementations” under TechSaksham Program from 18th Nov 2024 - 22nd Nov 2024.
9. Dr. Sukanth .T participated in one week Faculty Development Programme on “ Open Source Applications in Engineering Education” Conducted by Computer Science and Engineering Department from 18th Nov 2024 to 22nd Nov 2024 at Chaitanya Bharathi Institute of Technology, Hyderabad.
10. Dr. Sukanth .T participated in Short Term Training Program (STTP) on Electrical Safety - Challenges and Solutions (under the aegis of National Safety Council, CEA) certificate on the occasion of Electrical Safety Week, organized by the Department of EEE, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad - 500 075, Telangana, during 26-06-2024 to 02-07-2024.
11. Dr. Sukanth.T participated GUEST LECTURE on “RESEARCH PAPER WRITING, PUBLISHING AND CITATION MANAGEMENT” Organized by Department of Electrical and Electronics Engineering on 16th November 2024.
12. Participated in One week FDP successfully participated & completed AICTE Training AndLearning (ATAL) Academy Faculty Development Program on Telemedicine 6.0: Advancing Faculty
13. Proficiency through AI, ML, and 6G at BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGYfrom 11/12/2023 to 16/12/2023.
14. Participated in One week FDP Online National Faculty Development Program on “Artificial Intelligence, Machine Learning and it's Application” from 10th-14th July, of the year 2023, jointly organized by the Departments of Electronics & Communication Engineering and Electrical & Electronics Engineering of Bharat Institute of Engineering and Technology, Hyderabad.
15. Participated in One week FDP on “ Energy Harvesting & Storage Materials & Devices” Conducted by Applied Science Department from 12/09/2022 to 16/09/2022 (One Week)at Bharat Institute of Engineering and Technology,

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (**Attended and/or Organized**).



Telangana.

- 16. Participated in One week FDP on "Electric Vehicle Technology: Challenges and Opportunities" organized by the Department of Electrical and Electronics Engineering,
- 17. Sasi Institute of Technology & Engineering, Tadepalligudem, Andhra Pradesh, India from 19 th to 23 th December 2022.
- 18. Participated in One week FDP on Industrial IoT: Automation, PLC'S, VFD from 20/09/2021 to 24/09/2021 at NATIONAL SMALL INDUSTRIES CORPORATION.
- 19. Participated in One day Online Workshop on "National Institutional Ranking Framework (NIRF) for Higher Educational Institutions" on 06/02/2021, Organized by UGG – HRDC, JNTUH, Hyderabad.
- 20. Participated in AICTE sponsored Quality Improvement Programme (QIP) short-term course on "Modeling and Simulation of Energy Systems" organized via online mode during 11-01-2021 to 15-01-2021 by the Department of Hydro and Renewable Energy, Indian Institute of Technology, Roorkee.
- 21. Participated & completed successfully AICTE Training And Learning (ATAL) AcademyOnline on "Electric Vehicles" from 2020-12-7 to 2020-12-11, Organized by Bhilai Institute of Technology.
- 22. Participated in One day Webinar on "Reliability aspects in Power System Planning and Operation" organized by Department of Electrical and Electronics Engineering and IEEE PES student Branch chapter on 10th August, 2020.
- 23. Participated in One Week AICTE online STSTP' Electric Cars Technologies and Modern Power System" Series-I, Organized by Department of Electrical and Electronics Engineering, Kamaraj College of Engineering and Technology (Autonomous), Madurai during 27 th July to 1 st August, 2020.
- 24. Participated in the One Week Online FDP on "Recent technological advances in Power Systems and Power Electronic Drives" Organized by Dept. of Electrical and Electronics Engineering (EEE), Sree Nidhi Institute of Science and Technology (SNIST), Hyderabad In collaboration with PWSIM Engg Solutions, Bangalore During 27th to 31st July, 2020.
- 25. Participated in one day Webinar on "Assessments of Cos, POs and PSOs" Organized by NITTR-Bhopal on 21 st July, 2020.
- 26. Participated in one day Webinar on "Course Outcomes and Domains of learning" Organized by NITTR-Bhopal on 14 th July, 2020.
- 27. Participated in a Webinar on Renewable Sources of Energy, Jointly organized by Department of Electrical and Electronics Engineering, Technology Centre for Renewable Energy, MSAJCE and We POWER Programme (Supported by World Bank Group on Energy and Extractives), Chennai on 11-07-2020.
- 28. Participated in One Week National Level Online FDP on Real Time Aspects of Power System Scenario, Organized by the Department of Electrical & Electronics Engineering, MGIT 06th to 10th July 2020.
- 29. Participated in one day webinar on Simulation Driven Approach For Designing Of Electric Motor, organized by Department of Electrical and Electronics Engineering Internal Quality Assurance Cell, Guru Nanak Institute of Technology, Hyderabad, and Telangana on 9th July 2020.
- 30. Participated in Online webinar on Power Intelligence & Asset Management in Smart Grids, organised by the Department of Electrical & Electronics Engineering, Anurag University, Telangana on 30 th May, 2020.
- 31. Participated in Webinar on Writing a Research paper for Good Indexed Journals, Organized by Dadi Institute of Engineering and Technology, JNTUK, Kakinada on 30 th May, 2020.
- 32. Participated AICTE Training and Learning (ATAL) Academy One Week Online FDP on Artificial Intelligence from 25-05-2020 to 29-05-2020 Organized by NITTTR CHANDIGARH.
- 33. Participated in Five day online National level FDP on Artificial Intelligence held from 22th to 26th May, 2020, organised by the Department of Electrical & Electronics Engineering, CMR College of Engineering



34. Participated in Five day online National level FDP on Cutting Edge Technologies for Electrical Engineering, organised by the Department of Electrical & Electronics Engineering from 18 th to 22 nd May, 2020.
35. Participated in online Faculty program on Awareness Program on Outcome Based Education (OBE), Organized by MLR Institute of technology, Dundigal, Telangana on 18 th May, 2020.
36. Participated in Six day Webinar series on Battery Management System for Electric Vehicle organized by the Department of Electrical & Electronics Engineering, KLUniversity, Guntur, Andhra Pradesh from 12 th to 17 th May, 2020.
37. Participated in International FDP on Research Challenges and Innovations in Renewable Energy Systems, organized by the Department of Electrical & Electronics Engineering,AVNIT College, Chennai from 11 th to 16 th May, 2020
38. Participated AICTE Training and Learning (ATAL) Academy One Week Online FDP on Internet of Things from 07-05-2020 to 11-05-2020 Organized by NIT JAMSHEDPUR.
39. Participated in One Week Online Faculty Development Program on “Research Challenges and Opportunities Post COVID-19 (RECOP 2020)” organized by Research & Development Cell and Institution’s Innovation Council of Sri Vasavi Engineering College (Autonomous) during 4-9 May 2020
40. Participated in Webinar On Opportunities for Engineers and Expectations from Industry, Organized Chennai Institute of Technology on 02 nd May, 2020
41. Participated in the Two day Online workshop on online Tools & software for remote teaching learning held during 24 th & 25 th April,2020 ,Organized by –UGC-HRDC-JNTUH.
42. Participated in “An Online Faculty Development Programme on Research Opportunities in Power Engineering (ROPE – 2020)” during 22nd – 27th April 2020 organised by the Department of Electrical & Electronics Engineering, CMR College of Engineering.
43. Participated in three day workshop on NAAC Assessment and Accreditation: A step by step process held from 28 th to 30 th March.2020, Organized by GATES Institute of technology, Gooty, Andhra Pradesh.
44. Participated in 1 - day Regional Workshop on “Role of IPR in Innovation & Product Development , Oct 26, 2019, organized by Dept. of EEE .Bharat Institute of Engineering Technology, Hyderabad, Telangana-501510.
45. Participated in 1 - day Regional Workshop on “Enhancing Research Publication Visibility for NIRF, Oct 5, 2019, organized by Dept. of EEE .Bharat Institute of Engineering & Technology, Hyderabad, Telangana-501510.
46. Participated in 2 - day National Level Workshop on “Pedagogical Perspectives of SWAYAM-MOOCs,May 15-16 , 2019,Under TEQIP-III, organized by JNTUH College of Engineering ,Kukatpally, Hyderabad,Telangana-500085.
47. Participated in 6 - day National Level Workshop on “Integration and Control of Embedded Electrical Systems ”, March 11-16, 2019, organized by Dept. of EEE Bharat Institute of Engineering & Technology, Hyderabad, Telangana-501510.
48. Participated in 2 - day National Level Workshop on “Prepartion for NBA Accreditation &SAR filing, from Feb 18-19, 2019,Under TEQIP-III, organized by JNTUH College of Engineering ,Kukatpally, Hyderabad,Telangana-500085.
49. Participated in 1- day National Level Workshop on “Real Time Power Quality Assessment & Energy Audit, Jan 05, 2019, organized by Dept. of EEE .Bharat Institute of Engineering Technology, Hyderabad,Telangana-501510.
50. Participated in 1- day National Level Workshop on “AUTHOR WORKSHOP in collaboration with Elsevier, Aug 23, 2017, organized by Biju Patnaik Central Library, National Institute of Technology, Rourkela, Odisha-769008
51. Participated in 1- day National Level workshop on “RESEARCH SUPPORT E-RESOURCES, TOOLS & TECHNIQUES AND SCHOLARLY PUBLISHING (RSTSP-2016)”;
52. Sponsored by TEQIP, organized by Dept. of ECE and Biju Patnaik Central Library, National Institute of Technology,

Rourkela, Odisha-769008.

53. Coordinated a 2-Week AICTE Sponsored Staff Development On “Software Tools For Electrical Engineering”, 07th MAY To 19th MAY 2012, Dept of EEE, JayaPrakash Narayan college of Engineering, Mahabubnagar, Andhra Pradesh –509001.

54. Participated in 2-day National Level Workshop on “Modelling & Simulation Of Power System Components” 6 th & 7 th FEB-2012, organized by CPRI, Bangalore, Karnataka – 576104

55. Participated in 2-day National Level Workshop on “ Simulation Of Electrical Power System Networks On Matlab Environment ” 16 th to 17 th JULY-2011, organized by SKRTMCE, kondair, Gadwal, Mahabubnagar, Andhra Pradesh, 509001.

56. Participated in 1-day National Level Workshop on “MATLAB & Simulink In Engineering Education” 19 th JUNE-2011, organized by MATWORKS, India Private Limited, Hyderabad, Andhra Pradesh, 509007.

57. Participated in 1-day National Level Workshop on “Renewable Energy Sources & Technologies” 19 th Feb-2011, organized by Vidya Vikas Institute of Technology, Chevella, Hyderabad. Andhra Pradesh – 501503.

58. Coordinated A 2-Day Workshop On “Artificial Neural Networks & Fuzzy Logic”, 07th & 08th OCT 2010, Dept of EEE, JayaPrakash Narayan college of Engineering, Mahabubnagar, Andhra Pradesh – 509001.

59. Coordinated a 1-day Seminar on “Reliability Evaluation Of Distribution System”, 07th AUG 2010, Dept of EEE, JayaPrakash Narayan college of Engineering, Mahabubnagar, Andhra Pradesh – 509001.

60. Organized Online Institutional Training Program on “ENERGY CONSERVATION AND AUDIT” in association with Petroleum Conservation Research Association (PCRA) on 04-06-2021 as a coordinator.

Details of Journal Publications/
Conferences (National and
International)

International Journals :

1. **Sukanth.T**, S. Keerthi, Bilugudi Naga Keerthi, B. Gayathri, “ Solar Powered Smart Waste Management using IoT ”, International Journal of All Research Education & Scientific Methods, ISSN: 2455-6211, Vol. 13, Issue 5, May-2025.
2. P.Mallikarjun , Vankardara Sampath Kumar , Kallem Shravani , **Sukanth .T**, V. Srinivasa Chary1 , Ravinder Gandasiri2 , M. Kondalu4 , “ Using a Pi-Fuzzy Controller and a Three-Phase Three-Level AC/DC Converter, Electric Vehicle to Power Grid Integration, Indian Journal of Natural Sciences, ISSN: 0976 – 0997, Vol.15 / Issue 85 / Aug / 2024, Web of science.
3. Puranapanda Vijaya Laxmi, Yawer Abbas Khan, **T. Sukanth** and Vimlesh Verma “ Current Sensorless Based Maximum Torque per Ampere Controlled Synchronous Reluctance Motor Drive”, IEEE xplore 2024 International Conference on Computer, Electronics, Electrical Engineering & their Applications (IC2E3) | 979-8-3503-8853-4/24/\$31.00 ©2024 IEEE | DOI: 10.1109/IC2E362166.2024.10826954.
4. Sangam Uma Rani, **Sukanth.T**, (2023,July), Improvement of Power Quality in Grid Connected Wind Energy System, IJRASET, Vol.11, Issue 7, IJRASET.
5. K Srinivasa Rao, K.VijayaLakshmi, **Sukanth.T**, (2023,July), Modelling and Simulation of Battery Operated Electric Vehicle by Using MATLAB/SIMULINK, YMER , Vol.22, Issue 7, YMER Digital.
6. K Srinivasa Rao, Erlapally Kumar, **Sukanth.T**, (2023, Feb), Modeling of Electric Vehicles Fast Charging Stations, YMER , Vol.22, Issue 2, YMER Digital.
7. **Sukanth.T**, Sai Shravan, (2023, March) Simulation Of Smart Grid Power Quality Improvement Using Modified PV-UPQC, Material Science and Technology, Vol. 22, Issue.3, Material Science and Technology(MST).
8. **Sukanth.T** B. Avinash, (2022, December). Grid Connected Photovoltaic System control Strategy And Supress Harmonics Of Microgrid, YMER , Vol.21 , Issue 12, YMER Digital.
9. G.Muni Reddy, K.Srinivas Rao, **Sukanth.T**, (2022, August). Power Quality Improvement with Reduced Switching Frequency in Grid Connected Wind Energy System, Grenze International Journal of Engineering and Technology, Vol.1, Issue.1, Grenze Scientific Society.
10. V. Meghana, **Sukanth.T**, (2022, March). Grid Connected Residential Pv Battery Based Microgrid For Rural Electrification With A Novel Control Strategy, Vol.26, Issue Stochastic Modeling & Applications, MUK Publications.
11. D. Saidi, **Sukanth.T**, (2022, March). Fuzzy Controller Designed PV Based Custom Power Device For Power Quality Enhancement, Vol.26, Issue 3, Stochastic Modeling & Applications, MUK Publications.
12. S. Shivalleela, **Sukanth.T**, (2021, Nov.). Design and Analysis of Frequency and Voltage Restorer in On-Grid Wind System Using Fuzzy Controller, Vol.1, Issue Design Engineering (Toronto).

13. **Sukanth, T.**, Raj Kumar B,(2021,March). A Novel Control Strategy for a Variable Speed Wind Turbine with a Permanent Magnet Synchronous Generator,Vol.13,Issue.3, Journal of Interdisciplinary Cycle Research.
14. Shalini,T, **Sukanth.T.**,(2020,Jan). Improvement of Power Quality by Multi-Level inverter Based UPQC Using Pi & Fuzzy controllers, Vol,11, Issue.1, Journal of Engineering System.
15. **Sukanth, T.**, Harika, Jayanthu, S., & Santhan Kumar Ch (2019, September). Improvement of Power Quality using DVR by Different Control Techniques International Journal of Recent Technology and Engineering,Vol .8,Issue 3,IJRTE.
16. Santhan Kumar Ch, **Sukanth T**, Ramji Tiwari, Y V Prasanth.(2019,August) A PSOI based MPPT Technique for PV System under Dynamically Changing PSC, International Journal of Recent Technology and Engineering, Vol..8 Issue 28,IJRTE.
17. **Sukanth, T.**, Jayanthu, S., & Jayalaxmi, A. (2018, Jan). Improvement of Power Quality in Underground Coal Mines Using Controllers, Modelling Journal C-Series, ASME, Vol. 7, Issue.3,IIETA.
18. **Sukanth, T.**, Jayanthu, S., & Jayalaxmi, A. (2016, July). Power Quality improvement in underground mining using DSTATCOM, International Journal of Electrical and Electronics Engineering, Vol. 8, Issue 2, IJEEE.
19. **Sukanth, T.**, & Jayanthu, S. (2015, September). Simulation of PI Controller to Improve Voltage in Underground Coal Mine, The Indian Mining & Engineering Journal, Vol. 54, Issue 9, IME Journal, Bhubaneswar, ISSN 0019-5944.
20. **Sukanth, T.**, Jayanthu, S., & Jayalaxmi, A. (2015, June). Power Quality improvement in underground mining, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 4, Issue 6, IJAREEI, ISSN: 2278 – 8875. (DOI: 10.15662/ijareei.2015.0406005).
21. Sukanth. T., Lazarus, M.Z. and Srinivas. D. (2012, November). Comparative study of different control strategies for DSTATCOM, International journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol.1, Issue 5.

