

Name: SUMANTH Y
Designation: Assistant Professor
Extension number: 409
Date of Birth: 10-06-1987
Date of Joining: 14-07-2010



Educational qualifications:

Pursuing Ph.D from Annamalai University, Chidambaram (2018-)

Teaching Experience: 15

Research Interests: Power electronics, Renewable Energy systems, Optimization techniques, etc...

QUOTATION

"So many books, so little time"

Google Scholar Citations:

<https://scholar.google.com/citations?user=0ur0cEMAAAAJ&hl=en>

Scopus Citations: <https://www.scopus.com/authid/detail.uri?authorId=57225249038>

ORCID iD: <https://orcid.org/0000-0002-0184-1835>

Research Gate Citations: https://www.researchgate.net/profile/Sumanth_Yamparala2

Vidwan Id: <https://vidwan.inflibnet.ac.in/profile/185160>

Patent Applications Published:

- A Patent application published by Govt. of India on the title "**INTEGRATED MONITORING AND CONTROLLING DEVICE FOR DISTRIBUTION TRANSFORMER**", Patent Application No: 202041050300 A, Date of Filing: 19/11/2020, Publication Date: 11/12/2020.
- A Patent application published by Govt. of India on the title "**METHOD FOR ASSESSING OPERATING STATUS OF ELECTRICAL MOTORS USING MACHINE TRAINING (ML) MODELS** ", Patent Application No: 202141056413 A, Date of Filing: 06/12/2021, Publication Date: 10/12/2021.
- A Patent application published by Govt. of India on the title "**INTEGRATING ELECTRICAL APPLIANCES WITH EMBEDDED INTERNET OF THINGS (IOT) HUB FOR AUTOMATIC UPGRADATION**", Patent Application No: 202241004671 A, Date of Filing: 28/01/2022, Publication Date: 04/02/2022.

Memberships of professional bodies:

- Life member of ISTE, IAENG, IRED.

Research Work/Research Papers Published:

Journals:

1. **“Optimal Design of FoPID Controller for DFIG Based Wind Energy Conversion System Using Grey-Wolf Optimization Algorithm”** INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH (IJRER) Vol.12, No.4, December, 2022,pg.no: 2110-2119. (SCOPUS, WEB of Science)
2. **“Improvement of LVRT Capability for DFIG based WECS by Optimal Design of FoPID Controller using SLo + GWO Algorithm”** INTERNATIONAL JOURNAL of INTELLIGENT ENGINEERING & SYSTEMS (IJIES) Vol.16, No.1, February, 2023, pg.no: 202-213. (SCOPUS).
3. **“Optimized Power Management Control Scheme for Transportation System Electrified with High Voltage DC Micro-grid”** INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH (IJRER) Vol.12, No.1, March, 2022,pg.no: 536-546. (SCOPUS, WEB of Science)
4. **“Artificial Intelligence based Multi-Objective Hybrid Controller for PV-Battery Unified Power Quality Conditioner”** INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH (IJRER) Vol.12, No.1, March, 2022,pg.no: 495-504. (SCOPUS, WEB of Science).
5. **“Predicting the Political Ideology with Sentiment Classification of Twitter data using Machine Learning Algorithms”**, PENSEE Journal, Volume 51, Issue 06, 2021, 1385-1403.
6. **"Grid interconnection of resonant dc/dc converter based wind Energy with PWM controlled three level inverter"** International journal of engineering science & research August 2015/ Vol-5/Issue-8/1155-1165.
7. **"Design and Analysis of PWM-Based Quasi-Sliding-Mode Controllers for Buck Converters"** International Journal of Control Theory and Applications, volume.8, No.1, PP.37-43, January-June-2015 International Sciences Press, India.
8. **"Impact of Renewable Energy Sources Penetration in a Micro grid"**, International Journal of engineering research and applications, ISSN : 2248-9622, Vol. 4, Issue 5(Version 2), May 2014, pp.45-52.
9. **"The Improvement of Fault Recovery with Res Penetration"**, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 9, Issue 3 Ver. IV (May - Jun. 2014).

10. **"Improving the power quality by MLCI type DSTATCOM"**, International journal of computer applications, 10(1)-36-40, November 2010.
11. **"Detailed dynamic Modelling & vector control of Doubly Fed induction Generator"** International journal of applied engineering research, Volume 5, Number 10 (2010), pp 1765-1778.
12. **"Particle swarm optimization based method for optimal siting and sizing of multiple distributed generators"** International journal of electrical and computer communication engineering ISSN (Online):2533-8945, Volume 4, issue 3.

Conferences:

1. **"A Novel Pulse-Width-Modulation PID Based Quasi-Sliding-Mode Controller for Buck Converters"** International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 National Conference on "Advances in Energy and Power Control Engineering" (AEPCE-2K12).
2. **"Analysis and active/reactive power control of doubly fed induction generator (dynamic modelling)"** International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 National Conference On "Advances in Energy and Power Control Engineering" (AEPCE-2K12).

Workshops /Seminars / Courses Participated:

1. Participated in One Week Short term training Programme on **"Electrical CAD Design"** Organized by Department of Electrical & Electronics Engineering, Bapatla Engineering College, Bapatla during 26th June -1st July 2023.
2. Participated in the one week short term training program on **"Design Implementation and control of Electrical systems using MATLAB"** Organized by Dept of EEE, BEC during 3rd - 7th Jan 2023.
3. Participated in SEBI(Securities and Exchange Board of India) & NISM (National Institute of Securities Markets) sponsored Investor Awareness Program - **Financial Literacy for You (FLY)** from 7th October 2021 to 7th July, 2022 (Equivalent to one week Faculty Development Programme) Organized by Department of Mechanical Engineering, R.V.R. & J.C. College of Engineering (Autonomous), Guntur, A.P.
4. Participated & completed successfully **IP Awareness/Training program under National Intellectual Property Awareness Mission** on 11th August 2022 jointly organized by Intellectual Property office and MOE's Innovation cell, India.
5. Participated in One week FDP on **"Recent Advancements in Power electronics and Drives for the integration of Future energy sources"** Organized by Dept of EEE Lendi Institute of Engg & Tech, Jonnada,A.P from 19-12-2022 to 24-12-2022.

6. Participated & completed successfully **AICTE Training and Learning (ATAL) Academy Online Elementary FDP on " MATLAB: An Effective Tool for Academics and Research"** from 2021-7-5 to 2021-7-9 at Laxminarayan Institute of Technology, R.T.M. Nagpur University.
7. Participated & completed successfully **AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "recent trends in renewable energy"** from 20/09/2021 to 24/09/2021 at University Institute of Technolgy, rajiv gandhi technical university.
8. One week National level Intercollegiate Online Faculty Development Program on **“Outcome Based Education & Bloom’s Taxonomy”** organised by the Internal Quality Assurance Cell of Ramakrishna Mission Vivekananda Centenary College (Autonomous), Kolkata in association with ipsr solutions limited 08 November 2021 to 15 November 2021.
9. Participated in Industry-Institute interaction Webinar on **‘Power Evacuation Study For Wind and Solar Hybrid Project’** organised by PRESIDENCY UNIVERSITY, Karnataka on January 30, 2021.
10. Attended the AICTE-ISTE approved Orientation/Refresher Programme on **“Small Wind Turbines: Design, Development and Testing”** held during 19.05.2021 to 25.05.2021 organized by KJ's Educational Institute Trinity College of Engineering and Research, Pune, Maharashtra.
11. Participated in AICTE sponsored one week online STTP on **"Recent advances in EV technologies, series-C"** Organized by Department of Electrical & Electronics Engineering, Matrusri Engineering College, Hyderabad during 14th June – 19th June, 2021.
12. participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on **" MATLAB: An Effective Tool for Academics and Research"** from 2021-7-5 to 2021-7-9 at Laxminarayan Institute of Technology, R.T.M. Nagpur University.
13. Attended a FDP on **‘Power Electronic Applications to Renewable energy systems and Energy storage systems’** organised by THE NATIONAL INSTITUTE OF ENGINEERING, Belagavi from July 06-10, 2020.
14. Attended One week Workshop on **“Introduction to PLECS tool for power electronics applications”** from July 02-06, 2020 organised by VR Siddhartha Engineering college, Vijayawada.
15. Participated in AICTE sponsored one week STTP on **"Energy Management of Smart Grids and Micro grids with IOT"** Organized by Department of Electrical & Electronics Engineering, RVR & JC College of Engineering, Guntur during 29th July - 3rd Aug, 2019.
16. Participated in the Technical Education Quality Improvement Programme (TEQIP-III) sponsored Faculty Development Programme on **“ Power Electronic Applications to Renewable energy systems and Energy storage systems ”**

Organized by Department of Electrical & Electronics Engineering, the national institute of engineering, held from July 06-10, 2020.

17. Participated in the One – week workshop on “ **Introduction to PLECS tool for Power electronics applications**” organized by organized by department of EEE, VRSEC, Vijayawada, Andhra Pradesh, India in association with PLEXIM, Switzerland and sponsored by AICTE - Margadarshan Scheme held from July 02-06, 2020.
18. Participated in International webinar series on “**A review of data mining techniques and applications**” organized under power electronics society of St.Joseph’s college of Engineering, Chennai, on 19/08/2020.
19. Participated in International webinar series on “**A gentle introduction reinforcement learning and its applications**” organized under robotics and automation society of St.Joseph’s college of Engineering, Chennai, on 17/08/2020.
20. Participated in TEQIP II Sponsored workshop on "**Operation and Control of Wind - driven Generators**" during 15 - 16, April 2016 at NIT Trichy, Tamilnadu.
21. Participated in Two-Week ISTE STTP on "**CMOS, Mixed Signal and Radio Frequency VLSI Design**" conducted by IIT Kharagpur during 30th January to 4th February 2017.
22. Participated in three day workshop on "**Computer applications to power Systems using MiPower**" at V.R. Siddhartha Engineering College, Vijayawada, during 12th - 14th April 2015.
23. Participated in Two day Faculty Development program on “**Smart Grid Technologies**” under TEQIP-II S.C.1.2 organised by Department of Electrical & Electronics Engineering during 11th & 12th April 2014 at V.R. Siddhartha Engineering college.
24. Participated in Two day AICTE Sponsored National workshop on **Nanotechnology- A fuel chemical Industry** on 20th & 21st September 2013 at R.V.R. & J.C. College of Engineering.
25. Participated in “ **Recent Technologies in Renewable Energy Systems**” which will be conducted at GMRIT, Rajam on 13th and 14th of April, 2013.
26. Participated in "**DSP Applications to Electric drives**" conducted at Vignan University, Vadlamudi during December 16th 2011 to December 17th 2011.
27. Two day workshop on **Renewable energy sources and their interconnection with the power grid** at ANU College of engineering 12th and 13th of November, 2011.

28. Participated in National Level Work shop on "**Wind Energy systems**" conducted by the department of Electrical & Electronics Engineering held during 12th-13th August 2011 at PSG College of Technology, Coimbatore.
29. One week Work shop on "**Applications of Power electronics to Non-conventional energy sources** " at LBRCE, Mylavaram in June 2011.
30. Participated in "**DSP Applications in Electrical Engineering**" conducted at Vignan University, Vadlamudi during April 20th 2011 to April 21st 2011.

ACADEMIC/ADMINISTRATIVE DUTIES:

1. Convener of Disaster management cell.
2. Member of Training & placement cell.
3. Member of Institute Transportation committee.
4. Member of Institution's Innovation Council.
5. Member of NPTEL Local chapter committee.
6. Member of Entrepreneurship Development cell committee.
7. Member of Electronic Equipment maintenance & Repairs committee.