

Personal Information

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| Name | Mr. Guruswamy Revana |
| Years of Experience | Teaching: 20 Years 7 Months |
| Email Id | guruswamy.r@bvrithyderabad.edu.in |
| Areas of Specialization | Power and Industrial Drives |
| Course Networking ID: | GR258 |



Educational Qualifications

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| PG Degree | M.Tech. | Power and Industrial Drives |
| | MHRM | Human Resource Management |
| | M.S. | Psychology |
| UG Degree | B.E. | Electrical and Electronics Engineering |

Funded Project

Principal Investigator of the DST Project under SEED-TIDE

Remote Diagnosis System for Assisted Living Using Internet of Things for Rural Areas

Reference: SEED/TIDE/2018/60 Dt: 4th September 2018

Grant of Rs. 48, 20,964/-

Patents received

1. **1.Indian Design Patent:** Design Patent design number 380905-001 for the title of the invention “Solar Empowered Agriculture Robot” dated 07-03-2023.
2. **2.Indian Design Patent:** Design Patent design number 374785-001 for the title of the invention “IoT based height adjustable wheel chair” dated 28-11-2022.
3. **Indian Patent:** Patent number 202241012635 for the title of the invention “*Drone based automatic and autonomous thermal study on sensitive and isolated Electrical equipment*” dated 08-03-2022.
4. **Indian Patent:** Patent number 202141054474 A for the title of the invention “*Method and system for implementing power grid control operations using Big Data based Artificial Intelligence (AI) techniques*” dated 10-12-2021.
5. **Australian Patent:** Certificate of Grant of Innovation Patent from Australian Government with patent number 2020101378 for the title of the invention “*An efficient system and methodology to monitor the diagnostic laboratory reports on cloud*”.
6. **Indian Patent:** Patent number 202041030719 for the title of the invention “*Safe driving and accident prevention using wireless transmitter traffic control*”.

Papers Published

International Journal Publications

1. Guruswamy Revana, “*Simulation based designing of control systems for wind power generation*” at International Journal of Engineering, Technology and Management Sciences – Free journal, Volume 4, Issue 5, Pages 104-109, September 2020, ISSN: 2581-4621.
2. Guruswamy Revana, “*Simulation and Implementation of Resonant Controller Based PV Fed Cascaded Boost-converter Three Phase Five-Level Inverter System*” at The Journal of King Saud University - Elsevier Journal.
3. Guruswamy Revana “*Direct Torque Control For Doubly Fed Induction Machine- Based Wind Turbines Under Voltage Dips*” at International Journal of Modern Trends in Science and Technology, Vol. 3, Issue No. 9, September 2017.
4. Guruswamy Revana and Venkata Reddy Kota “*Closed Loop Fuzzy Logic Controlled PV Based Cascaded Boost Five-Level Inverter System*” at Journal of The Institution of Engineers (India): Series B, IEI B - Springer Journal Series, September 2017.
5. Guruswamy Revana and Venkata Reddy Kota “*Modeling and Fuzzy Logic control of PV Based Cascaded Boost Converter Three phase Five-Level Inverter System*” at International Journal of Power Electronics and Drives, Vol. 8, Issue No. 3, September 2017.
6. Guruswamy Revana, “*Generation of Electrical Power through Footsteps*”, International Journal of Multidisciplinary and Current Research (IJMCR) of Volume 2, Sept. /Oct Issue 3, 01 Oct 2014 of ISSN (Online) 2321 – 3124.
7. Guruswamy Revana, “*Reactive power loss control in power flow controller using Adaptive learning*”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE) of Volume 2, Issue 3, March 2014 of ISSN (Online) 2321 – 2004 and ISSN (Print) 2321 – 5526.
8. Guruswamy Revana, Sidhant Juyal, “*Robots for precision agriculture*”, International Journal of Data Modeling and Knowledge Management of Volume 1, Number 1 of January – June 2011 of ISSN: 2249 – 0507.

International Conference Publications

1. Guruswamy Revana, Babita Gupta, K.Bhavya, B.Sujatha and K.Amrita, “*Improvement in learning the concepts in technical education with the usage of Vocabulary*”, Two day International Virtual Conference ELT in India: Tradition vs Innovation, BVRIT HYDERABAD College of Engineering for Women, July 6-7, 2023.
2. Guruswamy Revana, B.Pragnya Angel, Ch.Preethi and A.Pavani, “*Platform for Energy Management using Internet of Things for Micro-Grid*”, two day International Conference on Multi Disciplinary Innovative Research and Development 2023 (ICMIRD 2023), Sidvi Foundation and Nilkanthrao Shinde Science and Arts College, Maharashtra, July 1-2, 2023.
3. Guruswamy Revana, J. Divya, P. Kavya Sri, “*Remote health monitoring system for patients and the elderly based on the Internet of Things*” two day International Conference on Multi Disciplinary Innovative Research and Development 2023 (ICMIRD

2023), Sidvi Foundation and Nilkanthrao Shinde Science and Arts College, Maharashtra, July 1-2, 2023.

4. Guruswamy Revana, A.Preethi, B.Swetha and R.Anusha, “*Simulation of a Phase Shifted Full Bridge DC-DC Converter by Closed Loop Battery Charge Controller*” two day online 2nd International Conference on Recent Advances in Computational Mathematics & Engineering, B K Birla Institute of Engineering & Technology, Pilani, May 30 - 31, 2022.
5. Guruswamy Revana, J.Hema Sree, “*Impact of Mathematics and Science towards the Rhythm of Music - an Analytical Approach*” two day online 2nd International Conference on Recent Advances in Computational Mathematics & Engineering, B K Birla Institute of Engineering & Technology, Pilani, May 30 - 31, 2022.
6. Guruswamy Revana, L. Jhansi Lakshmi, N. Punya Srivalli, K.Ashwitha and Sri Sai Sindhu, “*Simulation of Grid Connected Three Level Neutral Point Clamped Inverter*”, International Conference on Innovation, Technology and Management (ITM) : An Integrated Approach for Sustainable Future organized by Adithya School of Business Management, a Unit of Adithya Institute of Technology, Coimbatore, India, in association with Brittany University, France and Chang Jung Christian University, Taiwan on May 11, 2022.
7. Guruswamy Revana, V. Rajeswari and Babita Gupta, “*Voltage Stability Analysis for Distribution Network Using D-STATCOM*”, 7th International Conference on Information System Design and Intelligent Applications (INDIA 2022) organized by BVRIT HYDERABAD College of Engineering for Women, February 25-26, 2022.
8. Guruswamy Revana, V. Rajeswari, Babita Gupta and D.Tejaswini, “*Voltage sag Mitigation and Power Quality Improvement using fuzzy Controlled Dynamic Voltage Restorer*”, 7th International Conference on Information System Design and Intelligent Applications (INDIA 2022), February 25-26, 2022.
9. Guruswamy Revana, V. Rajeswari, Babita Gupta and D.Tejaswini, “*Indian Power System Planning and Operation during the Pan India Lights Off Event*”, International Conference on *Recent Trends in Electrical, Electronics, Communications and Instrumentation (ICRTEECI 2021), December 27-28, 2021.
10. Guruswamy Revana, K.Kavitha and V.Madhavi, “*Exploring the Concept of Computational Thinking in STEM Education*”, World Engineering Education Forum (WEEF), International Federation of Engineering Education Societies (IFEES), Global Engineering Deans Council (GEDC) 2021, November 15-19, 2021.
11. Guruswamy Revana, Venkata Reddy Kota, “*Closed Loop Artificial Neural Network Controlled PV based Cascaded Boost Five Level Inverter System*”, International conference on Green Energy and Applications, ICGEA 2017 held at Nanyang Technological University, Singapore, March 25-27, 2017.
12. Guruswamy Revana, Venkat Reddy Kota, “*Grid Connected PV based boost converter inverter cascaded system with MPPT*”, Global Academic Conference 2017 held at Penang, Malaysia, March 22-23, 2017.
13. Guruswamy Revana, “*Fault detection and classification for online detection in distributed electrical systems*”, International conference on innovative concepts in Applied sciences, Engineering and Management concepts, ICICASEMC June 2016.

14. Guruswamy Revana and G.L.Mounica, “*Simulation and Comparison of Boost converter of a photovoltaic system for MPPT*”, International conference on Engineering Trends in Engineering Applications and Management Concepts, ICETEAMC May 2016.
15. Guruswamy Revana and K.Venkat Reddy, “*Simulation and Implementation of PV Cell based Cascaded Boost Five-Level Inverter System*”, International conference on Paradigms of Engineering and Technology, ICPET March 2016.
16. Guruswamy Revana, “*Neural Networks: Heuristic Control Algorithm Based DSTATCOM for Power Quality Improvement*”, International conference on Paradigms of Engineering and Technology, ICPET March 2016.
17. Guruswamy Revana, “*Increasing Importance of Industry-Institute Interaction in Engineering Education in India*”, International conference on Interactive Collaborative Learning (ICL), Dubai December 2014.
18. Guruswamy Revana, H.Ravi Teja, “*Sea wave energy based on Nanotechnology*”, ICONSET, Sathyabama University, November 2011.
19. Guruswamy Revana, “*MATLAB based modeling and simulation of 25KV AC Traction system – A particular reference to loading and fault conditions*”, UMIES 2011, University of Malaya, Malaysia, July 2011.

National Conference Publications

1. Guruswamy Revana, “*Simulation Based Designing of Control Systems for Wind Power Generation*” at 2nd National Level Conference on Recent Trends in Engineering, Technology and Management Sciences (RTETMS-2020)” Dr.K.V.Subba Reddy Institute of Technology, Kurnool, Andhra Pradesh on 26th June 2020.
2. Guruswamy Revana, “*Design of Transformer-less DC To AC Converter Using PWM technique with the analysis of various filters*” at National Conference on Recent Advances in Power, Industrial Drives and Energy Evolution Technologies (RAPIDEET 2018) at B.V.Raju Institute of Technology on 20th and 21st April 2018.
3. Guruswamy Revana, “*Voltage Stability analysis using PV and QV curves*” at National Conference on Recent Advances in Power, Industrial Drives and Energy Evolution Technologies (RAPIDEET 2018) at B.V.Raju Institute of Technology on 20th and 21st April 2018.
4. Guruswamy Revana, “*Environmental, Social and Economic Elements of Thermal Power Plants*” National conference on Climate Change and Adaption sponsored by Science and Engineering Research Board at Sphoorthy Engineering College from 24th to 25th February 2017.
5. Guruswamy Revana, “*Modeling of Power Generation using Municipal Solid Waste in India*” at seminar jointly organized by “Energy Conservation Mission” and “Institution of Engineers (India)” of both AP and Telangana state centers on November 14th 2015.
6. Guruswamy Revana, “*Web based electrical parameters monitoring and over voltage protection using Arduino*” at Electrical Power & Energy Systems (EPES 2015) conference, Gayatri Vidya Parishad College of Engineering, Visakhapatnam, AP, India.
7. Guruswamy Revana, “*Multi-valued Adaptive Neuro-Fuzzy Controller for Robot Vehicle*”, JNTU Hyderabad, 12th and 13th March 2014.
8. Guruswamy Revana, “*The impact of Information Technology on Industrial Relations*”, Acharya Nagarjuna University, Guntur, 22nd and 23rd February 2014.

9. Guruswamy Revana, "*Effects of climate change on energy production*", K.B.N College, November 2012.
10. Guruswamy Revana, "*Piezoelectric Nanogenerators for self-powered Nanodevices*", Andhra Pradesh Science Congress, November 2012.
11. Guruswamy Revana, "*Achieving sustainability through attention to Human Resources factors in environmental management*", Acharya Nagarjuna University, October 2012.
12. Guruswamy Revana, "*Potential benefits of Biodiversity by using marine renewable energy*", Mizoram University.
13. Guruswamy Revana, H.Ravi Teja, "*Designing an assistive robot for health care applications*", Sri Vishnu educational society and University of Massachusetts, USA, July 2011.
14. Guruswamy Revana, "*Pico power – Lighting lives with LEDs*", University of Petroleum and Energy Studies, April 2011.
15. Guruswamy Revana, "*Environmental impacts of PV Electricity generation – A critical comparison to energy supply options*", VRS & YRN College, October 2010.
16. Guruswamy Revana, "*Application of Nanotechnology for conversion of Solar Energy*", TRESAC, Sathyabama University, July 2010.
17. Guruswamy Revana, "*Power flow control of doubly-fed Induction generator*", NCEEE – 10, Adam's Engineering College, June 2010.
18. Guruswamy Revana, "*Intellectual property rights in Nanotechnology*", Andhra Loyola College, January 2010.
19. Guruswamy Revana, "*A novel integrated SET based inverter for Nano-Power electronics applications*", Andhra Loyola College, January 2010.
20. Guruswamy Revana, "*Nanotechnology*", SRR & CVR College, December 2009.
21. Guruswamy Revana, "*Nano electronics – Single electron transistor*", J.M.J College, August 2009.
22. Guruswamy Revana, "*Neuro – Fuzzy controllers for UPS Inverter Applications*", ETIPS 2008, August 2008.
23. Guruswamy Revana, Ch.Karthik, "*HVDC and FACTS*", Pragnya-07, September 2007.
24. Guruswamy Revana, "*Renewable Energy Sources – future perspectives*", Hindu College, Guntur, July 2005.
25. Guruswamy Revana, "*Robotics Technology of the Future*", Engineering meet 2002, December 2002.

FDP's Attended

1. One week Faculty Development Programme on "Recent Trends in Electrical Engineering" organized by Dr.Lankapalli Bullayya College of Engineering, Visakhapatnam, AP, on 29th and 30th April 2023.
2. "College Research Affiliate Program" on IoT conducted by IIIT Hyderabad on 18th and 19th March 2023.
3. FDP on "Electric Vehicle Drive System" conducted by Jerusalem College of Engineering , 27th to 4th March 2023.
4. Participated in International Conference on Intellectual Property Rights and Development of SME's organized by MSME, Government of India on 6th and 7th March 2023.

5. Workshop on “Concept to Product” conducted by IITH and CII on 23rd February 2023.
6. One-week National Level Online Faculty Development Programme on “Greening the Grid” organized by the Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad from 17th May to 21st May 2022
7. 40 hours online Faculty Development Programme on “Design Aspects and IoT Applications in Electric Vehicles” organized by E&ICT Academy, NIT Academy and Vaagdevi College of Engineering, Warangal from 28th February to 9th March 2022.
8. One Week Faculty Development Program on “Machine Learning Fundamentals” organized by BVRIT HYDERABAD College of Engineering for Women from 30th August to 4th September 2021.
9. Session on Mentoring & counselling, and First Year Curriculum 1 at VEDIC on 9th September 2021.
10. Open-Source Summit India 2021 organized virtually by the Open Source Club, Saintgits College of Engineering and FOSSASIA from 28th June to 2nd July 2021.
11. Faculty Training Programme on “Finite Element Analysis on Electric Motors” at SRM Institute of Science and Technology, Chennai, Tamil Nadu from 19th to 25th May 2021.
12. Faculty Development Programme on “AI on Edge” at BVRIT HYDERABAD College of Engineering for Women from 8th to 10th March 2021.
13. Faculty Development Programme on “How to write good research article and proposal” at BVRIT HYDERABAD College of Engineering for Women from 18th to 22nd January 2021.
14. ATAL Faculty Development Programme on “3D Printing and Design” organized by BMS College of Engineering, Bengaluru, Sponsored by AICTE Training and Learning Academy (ATAL) from 1st to 5th September 2020.
15. ATAL Faculty Development Programme on “Role of IoT in Smart Cities” organized by Punjab Engineering College, Sponsored by AICTE Training and Learning Academy (ATAL) from 24th to 28th August 2020.
16. Five-day Faculty Development Programme on “Novel Technologies in Electrical Engineering” conducted by Mahaveer Institute of Science and Technology, Hyderabad from 10th to 14th August 2020.
17. Coordinated and participated in six Day International Online Faculty Development Program on “Industrial Relevance of Electrical Engineering” from 15th to 20th June 2020.
18. Participated in one day Faculty Development Programme on “IPR Ethics and Trails in Research” organized by Santhiram Engineering College, Nandyal, AP on 3rd March 2020.
19. Successfully completed one-week national Faculty Development Programme and Online Training on “LaTeX” organized by Sanjay Ghondawat University.
20. Attended progressive III (Inspire – Impact – Introspect) workshop at VEDIC on 9th January 2020.
21. Organizer, Trainer and Participant of Gandhi Global Solar Yatra in association with IIT Bombay on the eve of 150th birthday of Mahatma Gandhi on 2nd October 2019.
22. Three-day faculty development program on Machine Learning and its application at BVRIT HYDERABAD College of Engineering for Women on 28th to 30th September 2019.
23. Organized two-day workshop on “Future of Drones – The prototype model making and live streaming” at BVRIT HYDERABAD College of Engineering for Women 20th and 21st September 2019.

24. Three-day faculty development program on “Professional Etiquette & Emotional Intelligence” organized at BVRIT HYDERABAD College of Engineering for Women on 8th to 10th July 2019.
25. Participated in the demonstration and field visit of “Campus Energy Monitoring System” at Indian Institute of Technology Hyderabad (IITH) on 29th June 2019.
26. Five-day workshop on “Data Science Applications to Power & Energy Management” at Anurag group of institutions, Hyderabad from 17th to 21st December 2018.
27. “Interactive video material creation” at VEDIC from 9th to 10th August 2018. (2 days)
28. “International Conference on Entrepreneurship and Technology (i-CET 2018) at BVRIT HYDERABAD College of Engineering for Women on 2nd and 3rd March 2018.
29. CII Manufacturing Excellence Study Mission organized by Confederation of Indian Industries (CII) on 18th and 19th January 2018 at Bengaluru. (2 days).
30. “Inspire Impact Introspect” workshop at VEDIC from 9th to 11th November 2017. (3 days)
31. Participated in the Liter of Light project and installed 50 Solar based LEDs at Bachupally slum, Hyderabad 12th to 16th October 2017.
32. Received Certificate of Appreciation from Internshala.com for participating in Your Internship Story Contest 2017. <https://blog.internshala.com/2017/09/elite-internship-intaiwan-a-great-opportunity-for-research-scholars/> on 25th September 2017
33. “Engineering The Eye, ETE 2K17” workshop at LVPEI in association with MIT, USA and worked on Corneal Topography from 25th June to 1st July 2017.
34. “Inseminate Technical Institutes on Outcome Based Education, R&D and IPR” organized by National Institute of Technology, Warangal and GNITS, Hyderabad from 19th to 24th June 2017.
35. Two-day workshop on “Mind Map for an effective Learning / Teaching” at VEDIC, Hyderabad on 6th and 7th June 2017.
36. Coordinated and Organized “International Day of People with Different Abilities” along with the expo of 20 projects on 14th December 2016.
37. Convener and attended one week national level Faculty Development Program on “Solar PV Grid Connected Power Plant” from 5th to 10th December 2016.
38. Had been trained to train teachers on Scientific Educational Practices under the program “Train the Trainers” at VEDIC, Hyderabad from 21st to 26th November 2016.
39. Faculty Development Program on Python, Scilab, Drupal, Open-Source Software through spoken tutorials at BVRIT HYDERABAD College of Engineering for Women, Hyderabad from 4th to 10th November 2016.
40. 3-day workshop on “Scientific Educational Practices” at Vishnu Educational Development and Innovation Centre (VEDIC) from 17th to 19th August 2016.
41. Completed six hours course on “Energy Storage Systems and their Power Electronics Key Technologies” from Industrial Technology Research Institute (ITRI), Hsinchu, Taiwan on 12th June 2015.
42. Completed six hours course on “Application of Power Electronics in Micro-grid incorporated with Electric Vehicles” from Industrial Technology Research Institute ITRI), Hsinchu, Taiwan on 15th May 2015.
43. Selected and worked for “Elite Internship Programme” at National Chiao Tung University (NCTU), Department of Electrical and Control Engineering, Taiwan from 11th May to 11th July 2015.

44. Participated in Devthon 2015 and developed Smart Electronics Peak Flow meter with the support from Apollo Hospitals, BITS Pilani and ISB and won third prize on 24th and 25th February 2015.
45. Participated and organized two-day workshop on “MATLAB/Simulink” at BVRIT Hyderabad College of Engineering on 12th and 13th September 2014.
46. Participated in the IEEE authorship workshop titled “How to publish a Technical paper with IEEE” held at University of Hyderabad on 14th August 2014.
47. Participated in one week faculty development program on “Distributed Generation and Power Quality issues” at Osmania University, Hyderabad from 30th June to 5th July 2014.
48. Participated in RoboCamp 2014 held at IIIT, Hyderabad from 19th to 24th June 2014.
49. Coordinated and participated in the workshop on “Assistive Technology in minutes” with Prof. Therese Willkomm, University of New Hampshire, USA at BVRIT Hyderabad College of Engineering on 26th and 27th December 2013.

FDP's Conducted

1. Organized the inauguration of T Hub 2.0 on 28th June 2022.
2. Coordinated six Day International Online Faculty Development Program on “Industrial Relevance of Electrical Engineering” from 15th to 20th June 2020.
3. Organizer, Trainer and Participant of Gandhi Global Solar Yatra in association with IIT Bombay on the eve of 150th birthday of Mahatma Gandhi on 2nd October 2019.
4. Organized two-day workshop on “Future of Drones – The prototype model making and live streaming” at BVRIT HYDERABAD College of Engineering for Women 20th and 21st September 2019.
5. Chair and Advisory committee member of 2nd National Conference on Recent Trends in Applied Sciences & Engineering-2019 (NCRTSE-2019) conducted on 6th and 7th May 2019.
6. Volunteered for the Asia Book of Records on the event of largest mental health peer counseling session for women at BVRIT HYDERBAD College for Women, Hyderabad on 7th March 2019.
7. Conducted Mobile App making workshop at Nipuna, The Hub of Skills, Hyderabad on 4th January 2017.
8. Coordinated and Organized “International Day of People with Different Abilities” along with the expo of 20 projects on 14th December 2016.
9. Convener of one week national level Faculty Development Program on “Solar PV Grid Connected Power Plant” from 5th to 10th December 2016.
10. Had been trained to train teachers on Scientific Educational Practices under the program “Train the Trainers” at VEDIC, Hyderabad from 21st to 26th November 2016.
11. Coordinated Fest Apps Expo and guided 26 festival mobile applications 7th October 2016.
12. Had been into organizing committee of “International Conference on Research Challenges in Engineering and Technology”. <http://icrcet.org/pastconference/coc.php> from 18th and 19th August 2016.
13. Functioned as Chair Person for National Conference on Multi-Disciplinary Academic Studies conducted at the National Small Industries Corporation (NSIC) on 2nd July 2016.

14. Had been instrumental and guide for developing website for Varun Autism Reach Society (VARs), www.autismslc.com on 23rd April 2016.
15. Trained 95 students of BVRIT Hyderabad College of Engineering for women on “Arduino Micro-controller and its applications” for 2 weeks from 22nd February to 5th March 2016.
16. Organized Blood donation camp at the college in association with NSS on 14th November 2015.
17. Organized two-day workshop on “MATLAB/Simulink” at BVRIT Hyderabad College of Engineering on 12th and 13th September 2014.
18. Organized National level student’s Technical festival “Medhanvesh -14” at BVRIT Hyderabad College of Engineering on 3rd and 4th January 2014.
19. Co-ordinated and participated in the workshop on “Assistive Technology in minutes” with Prof. Therese Willkomm, University of New Hampshire, USA at BVRIT Hyderabad College of Engineering on 26th and 27th December 2013.

Delivered Lectures / Talks

1. Resource person for the Faculty Development Programme (FDP) on “IoT and It’s applications” at Guru Nanak Dev Engineering College, Bidar on 5th December 2022.
2. Delivered talk on “Cyber Bulling – Cyber Security Awareness Session” to Sanghmitra School, Hyderabad on 25th September 2021.
3. Delivered talk on “Day to Day Student Feedback Analysis during Online Teaching” at VOICE, VEDIC Colloquium on 6th July 2021.
4. Delivered webinar on “Research Opportunities in Power Systems” at Sri Venkateswara Engineering College, Suryapet, Telangana on 29th July 2020 from 11:00AM to 12:00PM.
5. Delivered for two-day online workshop on Introduction to Arduino and Raspberry pi for IEEE KSRMCE Student branch on 24th and 25th July 2020.
6. Delivered webinar on the topic titled “Arduino and its Applications” on 12th July 2020 organized by Guru Nanak Dev Engineering College from 11:00 AM to 12:30PM.
7. Delivered webinar on the topic titled “Introduction to Arduino” on 10th June 2020 organized by KSRM College of Engineering from 10:30 AM to 12:30PM.
8. Delivered webinar on the topic titled “Algorithms for Battery Management Systems” on 5th June 2020 organized by St. Peter’s Engineering College from 4:00 PM to 5:30 PM.
9. Delivered webinar on the topic titled “Introduction to Raspberry Pi and its applications” on 23rd May 2020 organized by Guru Nanak Dev Engineering College.
10. Speaker at Open Tech Summit India on 12th January 2020 at Delhi Technological University (DTU) on “Remote Monitoring for Rural Solar Electrification Projects by Open-Source Technologies”.
11. Delivered webinar to the working professionals of the Indian Bio-Medical Skill Consortium on 1st April 2019. The title of the topic was on “Fundamentals of Electrical and Electronics Engineering.
12. Invited guest lecture on “Basic Electrical Engineering” to Undergraduate students at CMR Engineering College, Hyderabad on 23rd March 2019.
13. Speaker at FOSSASIA 2019 (Free Open-Source Software Asia) Open Tech Summit on “Remote Diagnosis for Assisted Living Using IoT” at Singapore from 14th to 17th March 2019. <https://2019.fossasia.org/event/speakers.html>

14. Delivered talk on “Open Space Learning in Engineering Education – Pilot Study” at Vishnu Educational Development and Innovation Center (VEDIC) on 13th December 2018 for VEDIC faculty conclave.
15. Speaker at FOSSASIA 2018 on “Effective Teaching – Learning methods in Engineering Education using Open-Source Software” at Singapore from 22nd to 25th March 2018. <https://www.youtube.com/watch?v=C9uIv4rVhQM>
16. Invited speaker and judge at RUEDO'18, the National Level Environmental Fest organized by Gokaraju Rangaraju Institute of Engineering and Technology (GRIET) on 17th March 2018.
17. Invited speaker at Katuri Annual Medical Plexus - 2017 (KAMP – 2017) on “Bio Medical Engineering – Changing Dimensions of Health Care” on 28th October 2017.
18. Trained 22 Teaching Faculty on “Scientific Educational Practices” at Vishnu Educational Development and Innovation Centre (VEDIC), Hyderabad on 27th April 2017.
19. Trained 27 Teaching Faculty on “Scientific Educational Practices” at Vishnu Educational Development and Innovation Centre (VEDIC), Hyderabad from 6th to 8th April 2017.
20. Had been speaker at FOSSASIA 2017 on “Developing learning tools for Hearing impaired children by using open-source web application” at Singapore on 17th to 19th March 2017. <https://www.youtube.com/watch?v=vRVaI2YJL9E>
21. Delivered an invited talk to the international participants on “The scenario of Renewable Energy Sources in India” at Central Institute of Rural Electrification, (CIRE) at Hyderabad on 2nd March 2017.
22. Delivered an invited talk on “Solar Energy and Applications” at Steinbeis Centre for Technology Transfer India, Hyderabad on 6th February 2017.
23. Delivered guest lecture on “Applications of Mechatronics in various fields” at Sir C.R.Reddy College of Engineering, Eluru, A.P. on 23rd December 2016.
24. Delivered 2nd Speech, CC2 at Toast Masters Club of Nizampet, Hyderabad on 18th December 2016.
25. Trained 20 Teaching Faculty on “Scientific Educational Practices” at Vishnu Educational Development and Innovation Centre (VEDIC), Hyderabad on 12th December 2016.
26. Delivered first speech, CC1 at Toast Masters Club Nizampet, Hyderabad on 6th November 2016.
27. Delivered Guest Lecture at Steinbeis Centre for Technology Transfer India on the concepts of Electrical and Electronics Engineering on 11th and 12th August 2016.
28. Delivered Guest Lecture at Bharatiya Vidya Bhavan, Jubilee Hills, Hyderabad on Environmental issues on 8th January 2016.
29. Delivered Guest Lecture on “Methodology for Technical paper writing and presentation” at B.V.Raju Institute of Technology, Narsapur, Medak Dist., India on 18th September 2014.

Mentoring:

1. “Top Performing Mentor”, Certificate of appreciation awarded in the recognition of role of Mentor for NPTEL online Certification course on “Introduction to Internet of Things (IoT)”, Jan - Apr 2023.
2. Participated and Mentored for the Hackathon organized by Hexagaon on sustainability for better future on 29th and 30th April 2023.
3. Certificate of Appreciation for mentoring students at innoWAH! - Innovation Challenge competition 2022 - 23 From PALS, IIT Madras Research Park on 24th March 2023.

4. Mentored two projects for Anveshana 2023 organized by Agastya international foundation and Synopsys on 8th, 9th and 10th February 2023.
5. Mentored students for the project expo at T Hub, WE Hub and JNTUH in the months of December 2022 and January 2023.
6. Mentored students for PALS-NexGen 3D Hackathon-2022-23 conducted on 28th October to 6th Nov 2022 and won first prize.
7. “Top Performing Mentor”, Certificate of appreciation awarded in the recognition of role of Mentor for NPTEL online Certification course on “Introduction to Internet of Things (IoT)”, Jan - Apr 2022.
8. Mentor for Online Ideathon, Techcul in association with UNESCO 6th December 2020.
9. Mentor for ORL Makers Garage for “Innovate Telangana” at VNR Vignana Jyothi Institute of Technology from 6th to 8th July 2017.
10. Mentor for “GoVaccine” project which was done during med4dev 36 hours Hackathon conducted in association with Israel and T-hub of India 22nd to 24th July 2016.

Professional Memberships:

1. Life Member of Indian Society for Technical Education (ISTE) – LM47578.
2. Member of “All India Council for Technical Skill Development”. Member ID: AICTSD/PROFESSOR/13636.
3. Professional life time of member of Institution of Scholars (InSc) international publishers.

Certifications

1. Certificate on “Introduction to Electric Vehicles” by SKILL LYNC on 19th September 2022.
2. Certificate on “Basic Electrical Engineering” by Udemy on 9th September 2022.
3. Certificate on “Energy Literacy” by Energy Swaraj Foundation on 17th August 2022.
4. Duolingo English test certification with a score of 135.
5. NPTEL online certification, funded by the Ministry of HRD, Govt. of India on “Introduction to Internet of Things with Elite Certification from January to April 2022.
6. Completed 3 week Cyber Crime Awareness training programme from Cyberabad Security Council and Cyberabad Police on 28th August 2021.
7. Completed Coursera certification “Psychological First Aid” offered by Johns Hopkins University on 2nd June 2021.
8. Completed Coursera certification “Becoming a Change Maker: Introduction to Social Innovation” offered by University of Cape Town on 24st May 2021.
9. Completed Coursera certification “Introduction to Machine Learning” offered by Duke University on 21st May 2021.
10. Completed Coursera certification “Career Decisions: From Insight to Impact” offered by Wesleyan University on 19th April 2021.
11. Completed Coursera certification “AI for Everyone” offered by DeepLearning.AI on 2nd February 2021.
12. Completed “Raspberry Pi Course 2018: including Raspberry Pi Projects” from Eduonix on 23rd July 2020.
13. Completed Coursera certification on “The Raspberry Pi platform and Python Programming for Raspberry Pi” offered by University of California, Irvine on 3rd July 2020.

14. Successfully completed E-learning program on “Power System Generation” provided by Capability Development of TATA Steels on 31st May 2020.
15. Successfully completed E-learning program on “Power System Transmission and Distribution” provided by Capability Development of TATA Steels on 31st May 2020.
16. Completed Coursera certification on “Interfacing with Arduino” offered by University of California, Irvine on 29th May 2020.
17. Successfully completed E-learning program on “Induction Motor” provided by Capability Development of TATA Steels on 28th May 2020.
18. Successfully completed E-learning program on “Power System Power Cables” provided by Capability Development of TATA Steels on 25th May 2020.
19. Completed Coursera certification on “Energy: The enterprise” offered by University of Buffalo and The State University of New York (SUNY) on 18th May 2020.
20. Completed course on “Collaborate and manage content digitally” an initiative of Digital Literacy by Microsoft on 16th May 2020.
21. Successfully completed E-learning program on “Power System Earthing” provided by Capability Development of TATA Steels on 15th May 2020.
22. Completed Coursera certification on “Electric Power Systems” offered by University of Buffalo and The State University of New York (SUNY) on 8th May 2020.
23. Completed a short course on Learn to Design Your Own Solar home system as a part of Energy Literacy drive of the Energy Swaraj Foundation on 7th May 2020.
24. Successfully completed the LaTeX test organized at Sanjay Ghodawat University by using course material provided by the Spoken Tutorial Project, IIT Bombay from 27th April to 3rd May 2020.
25. Successfully completed “Substation – Power Engineering Fundamentals” from Udeemy on 1st May 2020.
26. Successfully completed E-learning program on “Power System Protection” provided by Capability Development of TATA Steels on 29th April 2020.
27. Successfully completed E-learning program on “Industry 4.0” provided by Capability Development of TATA Steels on 24th April 2020.
28. Completed Coursera certification on “Programming for Everybody – Getting started with Python” from University of Michigan on 21st April 2020.
29. Successfully completed E-learning program on “Fan and Blower” provided by Capability Development of TATA Steels on 16th April 2020.
30. Certificate of Completion from Research Academy of Elsevier publications on “Using Proper Manuscript Language” on 15th April 2020.
31. Successfully completed E-learning program on “Transformers” provided by Capability Development of TATA Steels on 15th April 2020.
32. Completed “International Certified Career Coach Program” organized by Mindler and Career Development Alliance, USA on April 10-11, 2020.
33. Completed “Outcome Based Education and Academic Quality Assurance” from Udeemy on 7th April 2020.
34. Completed “Embracing Change” course by Harappa Education on 31st March 2020.
35. Completed Annual Refresher Programme in Teaching in the subject “Big Data Analytics for Smart Grid” offered by National Institute of Technical Teachers Training and research (NITTTR), Chandigarh in February 2020.

36. IIT BombayX, Honor Code Certificate for completing “Hands-on training on Solar Study Lamp Assembly”, an online course recognized by Skill Council of Green Jobs for Student Solar Ambassador Workshop 2019.
37. Swayam online course certification with Indira Gandhi National Open University, New Delhi (IGNOU) on “Awareness Programme on Solar Water Pumping System” with a consolidated score of 91 % marks.
38. NPTEL online certification, funded by the Ministry of HRD, Govt. of India on “Basic Electric Circuits with Silver Medal.
39. NPTEL online certification, funded by the Ministry of HRD, Govt. of India on “Fundamentals of Electrical Engineering” with successful completion.
40. Certificate in Advanced English, C1 Advanced from level from Cambridge Assessment English.
41. NPTEL online certification, funded by the Ministry of HRD, Govt. of India on “Introduction to Smart Grid” with successful completion.
42. NPTEL online certification, funded by the Ministry of HRD, Govt. of India on “Health Research Fundamentals” with successful completion.
43. NPTEL online certification, funded by the Ministry of HRD, Govt. of India on “Outcome Based Pedagogic Principles for Effective Teaching” with Elite Certification.
44. NPTEL online certification, funded by the Ministry of HRD, Govt. of India on “Effective Engineering Teaching in Practice” with Elite Certification.
45. Certificate on “Mobile Robotics” course from open2study.com backed by Open Universities Australia (OUA), an Australian leader in accredited online education and Swinburne University of Technology, Australia on 5th September 2017.
46. Cambridge English: Business Vantage exam of Business English Certification on 27th December 2016.
47. Test of English as Foreign Language (TOEFL) score of 230 on Computer based Test (CBT).
48. Successfully Participated in the German Language course for Basic Level 1 (GrundStufe – 1) from Goethe Institut, Hyderabad.
49. Successfully Participated in the German Language course for Basic Level 2 (GrundStufe – 1) from Goethe Institut, Hyderabad.
50. Scored 84% in “START DEUTSCH 1” examination held at Goethe Institut, Hyderabad.
51. “Certificate in Computing” by Indira Gandhi National Open University (IGNOU) in June 2002.

Prizes and Awards received:

1. Outstanding performance Award in student mentoing and implementing innovative classroom teaching practices and being an inspiration for all faculty and students at VEDIC on 24th April 2023.
2. Awarded as “Best Teacher 2022” by Institution of Scholars (InSc) at higher educational institutional level.
3. Awarded with the first “Best Faculty Award” at BVRIT HYDERABAD College of Engineering for Women on 22nd October 2022 on the eve of Decennial celebrations.
4. Won “Best Researcher Award” in the International Research Awards on Science, Technology and Management, held on 14 & 15 May-2022, Chennai, India, Organized by VDGGOOD Professional Association.

5. Felicitated and being awarded with A.P.J. Abdul Kalam Birth Anniversary Celebrations and Memorial Excellence Awards – 2020 by “ACT NOW (A Government Registered Voluntary Organization)” on 22nd October 2020.
6. NPTEL online certification, funded by the Ministry of HRD, Govt. of India on “Basic Electric Circuits with Silver Medal.
7. Received “Best Teacher Award”, a National award from Information Technology Association of Andhra Pradesh, Telangana Information Technology Association, Lions Club International, Impact Foundation and Indian Servers on 2nd October 2019 in commemoration of the 150th birthday anniversary celebrations of Mahatma Gandhi.
8. Received appreciation certificate from Medhanvesh 2019, national level student’s tech fest team for covering the event extensively in both print and electronic media on 3rd and 4th October 2019.
9. Received award on 22nd March 2019 for SPECIAL MENTION in TEACHING for demonstrating at Faculty Colloquium held during 13th and 14th December 2018 at Vishnu Educational Development and Innovation Centre (VEDIC).
10. Awarded by Department of Science and Technology (DST) and Texas Instruments for “Indian Innovation Challenge Design Contest 2018” in appreciation for fostering an ecosystem bridging Government, Industry and Academia.
11. Felicitated and being awarded by “Save a Life Foundation” for illuminating 40 houses at Bachupally slums with LEDs as “Liter of Light” project on 5th May 2018.
12. Won Gold medal and awarded first prize at international conference on Computers and Electronics Engineering (ICCEE 2016) for paper presentation contest on 9th and 10th January 2016.
13. Won “Special Prize” of the jury at National level seminar jointly organized by Energy Conservation Mission and Institution of Engineers (India) of both AP and Telangana state centers on November 14th 2015.
14. Won Prize at international conference, BioAsia 2015 worth Rs 40,000/- for developing a device, Smart Electronic Peak Flow meter during Devthon 2015.
15. Best paper presentation award at National seminar on Emerging Trends in Industrial Relations organized by Acharya Nagarjuna University on 22nd and 23rd February 2014.
16. Won Gold medal and awarded as senior young scientist by Action for Sustainable Efficacious Development and Awareness (ASEA), Rishikesh, Uttarakhand at National Seminar on Environment, Biodiversity and Vedas and Traditional Systems organized by Mizoram University on 10th and 12th April 2012.
17. Best paper award at international conference ICONCET 2011 organized by Sathyabama University, Chennai in association with Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Chennai on 28th and 30th November 2011.
18. Won First prize at Photo contest organized by Alliance Francaise and Goethe Zentrum on the topic “Festivals in Hyderabad” on 15th December 2010.
19. Awarded “Best Teacher Award” by Vignan Institutions on 15th September 2009.
20. Won second prize at Robokriti workshop conducted by Technophilia Solutions, Mumbai on 4th and 5th October 2008.
21. Won Third prize in paper presentation even at PRAGYA, conducted by GRIET on 5th and 6th September 2007.
22. Won Second prize at Robo camp’06 held at IIIT Hyderabad from 25th to 29th May 2006.

Reviewer for the following Journals:

1. World Engineering Education Forum – The Global Engineering Deans Council 2021
2. Journal of Engineering Research and Reports.
3. Journal of Energy Research and Review - Index Copernicus.
4. Protection and Control of Modern Power Systems – Springer Open Journal.
5. International Journal of Renewable Energy Research-cited in SCOPUS, EBSCO, WEB of SCIENCE - Online ISSN: 1309-0127.
6. Journal of the Chinese Institute of Engineers – Taylor and Francis publication - Print ISSN: 0253-3839 Online ISSN: 2158-7299.
7. Journal of the Institute of Engineers (India): Series B – Springer – ISSN: 2250-2106 (Print) 2250-2114 (Online) - IEI B.
8. International Journal of Power Electronics and Drive Systems (IJPEDS), ISSN: 2088-8694, a SCOPUS indexed Journal.
9. International Journal of Advances in Applied Sciences (IJAAS), ISSN: 2252-8814, a SCOPUS indexed Journal.
10. Journal of Emerging Technologies and Innovation Research (JETIR), ISSN: 2349 – 5162, an International Open Access Journal & UGC approved.
11. Editorial board member of national level MAT Journals for
 - Journal of Electrical and Power System Engineering
 - Journal of Controllers and Converters
 - Journal of Control and Instrumentation Engineering
12. Indonesian Journal of Electrical Engineering and Informatics (IJEI), a SCOPUS indexed Journal.
13. Horizon Research Publishing Journal, USA.

YouTube Channel:

A YouTube channel has been created for the Basic Electrical Engineering subject with a few recordings. The link of the channel is
<https://www.youtube.com/channel/UCBRyWnh3hKvTTEpgPK8SShw>

Personal Website: www.guruswamyrevana.weebly.com

Any other Achievements

1. SPOC for IIITH - Research Affiliate Program.
2. Organized the guest lecture of IIT Bombay Professor Chetan S Solanki on "Understanding Climate Change and Corrective Actions" on 21st January 2023.
3. Organized Idea competition event , Naveena on 15th October 2022
4. Organized "Energy Literacy Training - Certifications" to the students on 14th September 2022
5. Successful participation in RASTRAGAAN, an initiative by the Ministry of Culture, India.
6. Completed Online Industrial Internship from VI Solutions, Bangalore from 30th November 2020 to 5th January 2021.

7. Review committee member of International Conference on Robotics Design and Applications using Wireless Sensor networks, IoT and Artificial Intelligence (ICRDASIA) 2020 from 26th to 28th November 2020.
8. Organizer, Trainer and Participant of Gandhi Global Solar Yatra in association with IIT Bombay on the eve of the 150th birthday of Mahatma Gandhi on 2nd October 2019.
9. Organized two-day workshop on “Future of Drones – The prototype model making and live streaming” at BVRIT HYDERABAD College of Engineering for Women on 20th and 21st September 2019.
10. Chair and Advisory committee member of the 2nd National Conference on Recent Trends in Applied Sciences & Engineering-2019 (NCRTSE-2019) 6th and 7th May 2019.
11. Volunteered for the Asia Book of Records on the event of largest mental health peer counseling session for women at BVRIT HYDERBAD College for Women, Hyderabad on 7th May 2019.
12. Organized and attended Jugaadfest in association with FOSSASIA, Singapore on 30th September 2019.
13. Organizing committee member of the World Conference on Applied Science Engineering and Technology (WCASET – 2018) on 2nd and 3rd January 2018.
14. Conducted Mobile App making workshop at Nipuna, The Hub of Skills, Hyderabad on 4th January 2017.
15. Convener of one-week national level Faculty Development Program on “Solar PV Grid Connected Power Plant” from 5th to 10th December 2016.
16. Had been trained to train teachers on Scientific Educational Practices under the program “Train the Trainers” at VEDIC from 21st to 26th November 2016.
17. Coordinated Fest Apps Expo and guided 26 festival mobile applications on 7th October 2016.
18. Organizing committee member of “International Conference on Research Challenges in Engineering and Technology” from 18th to 19th August 2016.
19. Chair Person for National Conference on Multi-Disciplinary Academic Studies conducted at the National Small Industries Corporation (NSIC) on 2nd July 2016.
20. Instrumental and guide for developing a website for Varun Autism Reach Society (VARS) on 23rd April 2016.
21. Trained 95 students of BVRIT Hyderabad College of Engineering for women on “Arduino Micro-controller and its applications” for 2 weeks from 22nd February to 5th March 2016.
22. Organized Blood donation camp at the college in association with NSS on 14th November 2015.
23. Selected and worked for “Elite Internship Programme” at National Chiao Tung University (NCTU), Department of Electrical and Control Engineering, Taiwan from 11th May to 11th July 2015.
24. Participated in Device Hackathon, Devthon 2015 and developed the Smart Electronics Peak Flow meter with the support from Apollo Hospitals, BITS Pilani and ISB and won third prize on 24th and 25th February 2015.
25. Organized two-day workshop on “MATLAB/Simulink” at BVRIT HYDERABAD College of Engineering for Women on 12th and 13th September 2014.
26. Organized national level student’s technical festival “Medhanvesh -14” at BVRIT HYDERABAD College of Engineering for Women on 3rd and 4th January 2014.