

## Curriculum Vitae

1. Name Dr. L V Suresh Kumar

2. Nationality Indian

3. Present Position & Official Address:

Associate Professor  
Department of Electrical Engineering  
GMR Institute of Technology  
Rajam, Srikakulam  
Ph: +918328266970

### 4. Positions held (in chronological order) - Total Experience 12 years 5 months.

Employer	Post	Period of Employment	
		From	To
GMR Institute of Technology, India	Associate Professor	1-08-2022	Continuing
GMR Institute of Technology, India	Sr. Assistant Professor	1.09.2016	31-07-2022
GMR Institute of Technology, India	Assistant Professor	26.07.2010	30.08.2016

### 5. Technical Research Area of Interest

- Smart Electric Vehicles for future Transportation.
- Grid integration of Renewable Energy Sources
- FACTS based controller to improve angle and voltage stability of power system
- Power quality analysis and mitigation
- Intelligent control, modelling and optimization of power systems
- Optimal controller for AGC of a power system
- Power system stability and control
- MPPT for PV and wind energy conversion system
- Stability of inverter based system

Ph.D Thesis Title: “Design and Analysis of Multilevel Inverter for Grid Connected Wind Energy system”.

### 6. Academic Qualifications (Bachelor’s degree onwards)

Degree /Diploma	Subject	University/Institution	Year of passing
B.Tech	Electrical and Electronics Engineering	JNTU Hyderabad /STIET Andhra Pradesh	2008
M.Tech	Power and Energy System	NITK Surathkal, Karnataka	2010

Ph.D.	Renewable Energy systems	GITAM university , Andhra Pradesh	2020
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### Academic Recognitions received

Sl No.	Award/ Recognition	Organization	Year
1.	Best Faculty Award	GMR institute of Technology	2013

### 7. Committee member/ reviewer

Sl..NO	Committee member/ reviewer	Organization	Year
1	Organizing Committee of International Conference on Computational Intelligence in Detaining (SPRINGER)	Roland Institute of Technology, Odisha	2015
2	Reviewer for SCDA-2018 (SPRINGER)	Sri Sivani college of Engineering , Srikakulam (SPRINGER)	2018
3	Reviewer for IJPES	(Elsevier)	2017
4	Reviewer for International Transactions on Electrical Energy Systems	(WILEY)	2018
5	Reviewer for intelligent computing in control and communication (SPRINGER)	Sri AITAM, Tekkali, Srikakulam	2020
6	Reviewer for Internal Technical Committee for intelligent computing in control and communication (SPRINGER)	Sri AITAM, Tekkali, Srikakulam	2020
7	Reviewer for International Conference on Electrical, Computer, Communications and Mechatronics Engineering	University of Mauritius	2021
8	Reviewer for Innovation in Electrical Power Engineering, Communication and Computing Technology	Higher Education and Research for Sustainable Development (HESD)	2021
9	Reviewer	Journal of Computing and Digital Systems (IJCDS)	2021

## 10. List of significant books / papers

### Book:

1. P.S. Prasanna, Sreedhar Madichetty, **L V Suresh Kumar** “An Introduction to Modular Multilevel Converters” published book at (LAP) Lambert Academic Publishers in 2015/3/3

### Journals:

#### SCI:

1. Sreedhar Madichetty, A Dasgupta, **L V Suresh Kumar** “Application of modular multilevel converter for AGC in an interconnected power system” International Journal of Electrical Power & Energy Systems, volume74,pages 293-300,2016.
2. Sambeet Mishra, Ivo Palu, Sreedhar Madichetty, **L V Suresh Kumar** “Modelling of wind energy based microgrid system implementing MMC” International Journal of Energy Research”Volume40,Issue7,10 June 2016 Pages 952–962.
3. **L V Suresh Kumar**, GV Nagesh Kumar, and Sreedhar Madichetty. "Pattern search algorithm based automatic online parameter estimation for AGC with effects of wind power." International Journal of Electrical Power & Energy Systems 84 (2017): 135-142.
4. **L V Suresh Kumar**, and Nagesh Kumar GV. "Power conversion in renewable energy systems: A review advances in wind and PV system." International Journal of Energy Research (2017).
5. D.V.N.Ananth, **L.V. Sursh Kumar**, D.A. Tatajee,"Independent Active and Reactive Power Control for Single Stage H8 Transformer-less Solar PV Inverter" Journal of Engineering Research (SCIE),IF:0.64.(2022).
6. Yellapragada Venkata Pavan Kumar, Lagudu Venkata Suresh Kumar, Duggirala Venkata Naga Ananth, Challa Pradeep Reddy, Aymen Flah, Habib Kraiem, Jawad F. Al-Asad, Hossam Kotband Kareem, M. Aboras “Performance Enhancement of Doubly Fed Induction Generator–Based Wind Farms With STATCOM in Faulty HVDC Grids” Frontiers in Energy Research, Volume10,13 July 2022 Pages 930268.

#### Scopus:

1. Devendra Potnuru , Tummala Siva Lova Venkata Ayyarao , **Lagudu Venkata Suresh Kumar** , Yellapragada Venkata Pavan Kumar , Darsy John Pradeep , Challa Pradeep Reddy “Salp swarm algorithm based optimal speed control for electric vehicles” International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 13, No. 2, May 2022, pp. 755~763 ISSN: 2088-8694, DOI: 10.11591/ijpeds.v13.i2.pp755-763.
2. Devendra Potnuru, **Lagudu Venkata Suresh Kumar**, Bankuru Sonia, Yellapragada Venkata Pavan Kumar, Darsy John Pradeep, Challa Pradeep Reddy “Implementation of Harris Hawks optimization for load frequency control of hydropower plant” International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 13, No. 2, May 2022, pp. 1093~1100 ISSN: 2088-8694, DOI: 10.11591/ijpeds.v13.i2.pp1093-1100.
3. D.V.N. Ananth, **Lagudu Venkata Suresh Kumar**, T S Gorripotu and Ahmad Taher Azar “Design of a fuzzy Logic Controller for Short term load forecasting with randomly varying load” International Journal of Sociotechnology and Knowledge Development (IJSKD), IGI Global Publishing, 1941-6253, DOI: 10.4018/IJSKD.2021100103
4. **LV Suresh Kumar**, DVN Ananth, YV Kumar, DJ Pradeep, C Reddy, E Ariwa—Use of

Super Conductor Magnetic Energy Storage System and FACTS Devices for Two-Area Load Frequency Control Having Synchronous Generators and DFIG Wind Generators|International Journal of Computing and Digital Systems,Volume 10, June 2021.

5. Hemanth K Chappa, T Thakur, **L V Suresh Kumar**, YV Kumar, DJ Pradeep, C Reddy, E Ariwa—Real Time Voltage Instability Detection in DFIG Based Wind Integrated Grid with Dynamic Components|International Journal of Computing and Digital Systems,Volume 10, June 2021.
6. L V Suresh Kumar, Bankuru Sonia, Melimi Ravi Kumar “Harmonic and fault Analysis of Five level MMC STATCOM with POD and PD Schemes” Design Engineering, 5481-5496,
7. **L.V. Suresh Kumar**, D.V.N. Ananth, M premkumar and Ravipudi Sudhir “Application of Solar Photovoltaic and STATCOM for Power system parameters oscillation damping and stability improvement” AOAOCEP-AMS journal (accepted in 16th september 2020).
8. **V Suresh Kumar Lagudu**, Duggirala Venkata Naga Ananth & Sreedhar Madichetty “Independent Control of Active and Reactive Power for Grid Connected DFIG using Reference Power Based Improved Field-oriented Control Scheme” International Journal of Ambient Energy, (2<sup>nd</sup> september 2020). DOI: <https://doi.org/10.1080/01430750.2020.1818123>, (Publication: Taylor & Francis)
9. Duggirala Venkata Naga Ananth , **V Suresh Kumar Lagudu** & Sreedhar Madichetty “The black-start capability improvement of VSC-based HVDC transmission system using fuzzy-adaptive PI controller” International Journal of Ambient Energy, (12th june 2020). DOI: <https://doi.org/10.1080/01430750.2020.1773925>, (Publication: Taylor & Francis).
10. **V Suresh Kumar Lagudu** “A Look over View of Grid Connected Power Electronic Base DFIG Wind Energy System” International Journal of Scientific & Technology research volume 9, Issue 02, February 2020.
11. **L. V. Suresh Kumar** and U. Salma, “Modular multi-level converter-based DFIG wind power system with MMC-STATCOM”, International Journal of Ambient Energy, (31<sup>st</sup> August 2018). (Publication: Taylor & Francis)
12. **L. V. Suresh Kumar**, U. Salma, “Differential Evaluation Base Gain Tune of Proportional–Integral–Derivative Controller for MLI Base-Integrated Wind Energy System with Multi-winding Transformer”, Advances in Intelligent Systems and Computing, Vol.758, pp. 493-505, (2018).(ISSN No.: 2194-5357 ) (Publication: Springer)
13. **L V Suresh Kumar** and GV Nagesh Kumar “A logic sort algorithm based voltage balancing of modular multilevel converters in back HVDC Systems”, International Journal of Control Theory and Applications, Vol.9, No.32, pp. 11-22, (2016). (Publication: International Science Press).
14. **L V Suresh Kumar**, K. M. P. Spandana, “Harmonic Analysis of PSO Tuned PI Controller Gains For Multilevel Inverter Base P&O Mppt Photovoltaic System” Indian Journal of Science and Technology, Dec- 2016.
15. **L.V. Suresh Kumar**, G V Nagesh Kumar and P.S.Prasanna “Differential Evolution Based Tuning of Proportional Integral Controller for Modular Multilevel Converter STATCOM”, Advances in Intelligent Systems and Computing, Vol.410, pp. 399-402, (2015). (ISSN No.: 2194-5357 ) (Publication: Springer)
16. **L V Suresh Kumar**, Chintu Jaganmohanarao, Sai Lakshmi B, “Modeling and Control

Analysis of Wind Turbine of Two Bladed and Three Bladed Wind Turbine Systems”  
TELKOMNIKA Indonesian Journal of Electrical Engineering, Volume 15, 1<sup>st</sup> sep 2015.

**High impact factor:**

1. **L.V. Suresh Kumar**, Mouliswara Rao Reddy, “Dynamic Analysis of Hysteresis Motor using MATLAB / Simulink” International journal on Engineering Research & Technology (IJERT), Vol. No-1, Issue-5, July-2012.
2. PP. Vinode Kumar, **L V Suresh Kumar**, Ravipudi.Sudhir “Power Control of Grid Connected PMSG Wind Energy System” International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering (IJAREEIE), Vol. 2, Issu-10, October 2013.
3. D. Anusha, **L V Suresh Kumar**, G.V. Nagesh kumar “Design of Wind Energy System on the Building Tower Application” International Journal of Innovative Research in Science, Engineering and Technology(IJIRSET) Vol. 4, Issue 2, February 2015.
4. D. Anusha, **L V Suresh Kumar**, “Nine Phase Transformer through MLI Base Stand Alone Integrated Wind Energy System” International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering, Vol. 4, Issue 7, July-2015
5. P.Sai Prasanna, **L V Suresh Kumar** “Fault Ride-Through Capability of Modular Multilevel Converter Based STATCOM” International Journal of Emerging Trends in Electrical and Electronics (IJETEE), Volume 11, Pages: 44 –49,2015.
6. K M P Spandana, **L V Suresh Kumar** “Diode clamped base stand alone photo voltaic system with POD Technique” IOSR Journal of Electrical and Electronics Engineering, volume 11, Issue-4, july-aug-2016.
7. T V S Madhav, P Devenda, **L V Suresh kumar** “ yaw control of horizontal axis wind turbine using LVDT Module” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 13 (2015)
8. **L V Suresh Kumar** and T V S Madav, “Modelling of Common shaft Multi-generator Horizontal axis Wind turbine for Stability and Efficiency Enhancement”, International Journal of Engineering and Technology (IJET), Vol. 3, No. 3, pp 1-5, May 2017

**Conferences:**

**International:**

1. **V Suresh kumar L**, Tummala.S.L.V.Ayyarao and Tulasichandra Sekhar Gorripotu, “Frequency Regulation of Hybrid Power Systems with Robust Higher-order Sliding mode Control” International conference on intelligent computing in control and communication, Aditya Institute of Technology And Management (AITAM)Tekkali,Srikakulam, Andhra Pradesh,India, 9th -10th , August 2020.

2. Tummala.S.L.V.Ayyarao ,**Venkata Sureshkumar L** , D Vijaya Kumar, “Support Vector Machine Based Dynamic Cyber-Attack Detection in AGC System” International conference on intelligent computing in control and communication , Aditya Institute of Technology And Management (AITAM)Tekkali,Srikakulam, Andhra Pradesh,India, 9th - 10th , August 2020.
3. D.V.N. Ananth ,**V Sureshkumar L** , Manmadhakumar Boddepalli,“ Design and Modelling of STATIC COMPENSATOR and UPFC based FACTS Devices for Power System Oscillations Damping and Voltage Compensation”, International conference on intelligent computing in control and communication , Aditya Institute of Technology And Management (AITAM)Tekkali,Srikakulam, Andhra Pradesh,India, 9th -10th , August 2020.
4. **L V Suresh Kumar**, Sivakotai, T.S.L.V. Ayya Rao, “Modeling and Simulation of Power Variation of Wind Energy System”, International Conference on Advances in Power Conversion & Energy Technologies, Lakki Reddy Bali Reddy College of Engineering, during 2<sup>nd</sup> – 4<sup>th</sup> August, 2012.
5. D V Naga Ananth, G V Nagesh Kumar, **L V Suresh Kumar**, Y Swami Naidu “Application of Series Active Power Filter for Power Quality Conditioning due to Flickering and Unbalanced Loads”, International conference on Computer Applications in Electrical Engineering (CERA-13) conducted by IIT Roorkee on 3<sup>rd</sup> – 4<sup>th</sup> October, 2013.
6. B Sai Lakshmi, **L V Suresh Kumar** “Primary Frequency Control using LQG Collective Pitch Controller in Two Bladed and Three Bladed Wind Turbine Systems” International Conference on Innovations in Electrical & Electronics Engineering (ICIEEE-2014) Gurunanak Institutions Hyderabad.
7. P. Sai Prasanna, M.Sreedhar, **L V Suresh Kumar** “A Review on Circulating Current Suppression Control, Capacitor Voltage Balancing and Fault Analysis of Modular Multilevel Converters” International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO) – 2015 at Vignan's Institute of Information Technology, Vishakhapatnam.
8. **L V Suresh Kumar**, G V Nagesh Kumar “Harmonic Comparison with Modular Multilevel Converter of Multi Connection Wind Energy Systems” International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO) – 2015 Vignan's Institute of Information Technology, Vishakhapatnam
9. Prasanna P. S.; Sreedhar M.; **Suresh Kumar L. V.** “A comparative analysis of circulating current controllers for modular multilevel converters” 2015 Annual IEEE India Conference (INDICON) 2015 ,Pages: 1 – 6.

10. **L V Suresh Kumar**, GV Nagesh Kumar, D Anusha, “PSO Based Tuning of a Integral and Proportional Integral controller for a Closed Loop Stand Alone Multi Wind Energy System” International conference on computational intelligence in data mining in Ronald Institute of technology, berhampur, odisha, held during December 5<sup>th</sup>-6<sup>th</sup>, 2015. (Springer India-Computational Intelligence in Data Mining, Volume 1, 2015)
11. **L V Suresh Kumar**, GV Nagesh Kumar, PS Prasanna “Differential Evolution Based Tuning of Proportional Integral Controller for Modular Multilevel Converter STATCOM” International conference on computational intelligence in data mining in Ronald institute of technology, berhampur, odisha, held during December 5<sup>th</sup>-6<sup>th</sup>, 2015- (Springer India-Computational Intelligence in Data Mining, Volume 1, 2015)
12. **L V Suresh kumar**, K M P Spandana, “Harmonic Analysis of PSO Tuned PI Controller Gains For Multilevel Inverter Base P&O Mppt Photovoltaic System”, 2nd international conference on aerospace electronics, electrical, communications & instrumentation (ASECI-2016), Organized by Department of electrical and electronics engineering, V R Siddhartha engineering college, During 22nd -23rd October 2016.
13. **L.V.Suresh Kumar** , O.Sunil Teja “Harmonic Analysis of Diode Clamped Multilevel Inverter Base PEM Fuel Cell Energy System” international conference on Energy, Communication, Data Analytics and Soft Computing, SKR Engineering College, august 2017.
14. Ch Santosh Kumar, **LV Suresh Kumar** “A Look Over on Prosperous Power Electronic Converters for Wind Turbine System” international conference on Electronics, Communication and Aerospace Technology, **IEEE**, March 2018.

#### **National:**

1. D. Anusha, **L V Suresh Kumar**, “Harmon ic Analysis of Multilevel Inverter with Hybrid Energy Systems” Two Day National Conference GVP College of Engineering (A), Visakhapatnam rence on Electrical Power & Energy Systems (EPES-2015) under TEQIP-II, S.C.-1.2, held during 8<sup>th</sup> & 9<sup>th</sup> May, 2015
2. **L V Suresh Kumar**, G v nagesh kumar, kovala Spandana “Review on diode clamped multilevel inverter “ a national Conference on Recent Advances in power ,control and drives for sustainable Energy (PCDSE-16), Organized by GITAM University, Visakhapatnam, 4th & 5th March, 2016.
3. **L V Suresh Kumar**, G V Nagesh Kumar, “A logic sort algorithm based voltage balancing of modular multilevel converters in back HVDC Systems”, national conference on new trend in multidisciplinary research and practice (NTMRP-2016), Organized by Department of electrical and electronics engineering, GITAM university bengaluru, During 7<sup>th</sup> -8<sup>th</sup> October 2016.

4. **L V Suresh Kumar**, G V Nagesh Kumar, “Multi winding transformer through multi level inverter with super capacitor base standalone integrated wind energy system”, national conference on new trend in multidisciplinary research and practice(NTMRP-2016), Organized by Department of electrical and electronics engineering, GITAM university bengaluru, During 7th -8th October 2016.
5. **L V Suresh kumar**, Ravipudi sudhir “Effect of Different Load Models on Rotor Angle Stability” National Conference On “Advances in Energy and Power Control Engineering” (AEPCE-2K12) Vignansara Institute of Technology and Science.

#### 11. Patents:

S.no	Name	Title	Source/ journal No.	Number	Date
1	Dr.Balaji.D,Dr. Y. V. Pavan Kumar, Dr. Ch. Pradeep Reddy, Dr. D. John Pradeep Prof. K. V. Ramesh, <b>Dr. L. V. Suresh Kumar</b>	Enhanced Renewable Energy Generation With Ai	20/2022	202241025866A	20-05-2022
2	Dr.Balaji.D, Dr. Devendrapotnur u, Dr. Ch. Pradeep Reddy, Dr. Y. V. Pavan Kumar,Dr. D. John Pradeep, <b>Dr. L. V. Suresh Kumar</b>	Hybrid Renewable Energy Resources Augmented With The Aid Of DI	20/2022	202241025867A	20-05-2022
3	Balaji.D, <b>L V Suresh Kumar</b> , CH. P Reddy, Y V Pavankumar, D john Pradeep	See-Saw Pneumatic Piezo And Solar Energy Generation Mechanism Optimized	11/2022	202241011385A	18-03-2022
4	CH. P Reddy, Y V Pavankumar, D john Pradeep, <b>L V Suresh Kumar</b>	Moving object based adequate working fluid supply system optimized using machine learning	53/2021	202141059605A	31-12-2021
5	Balaji.D, CH. P Reddy, Y V Pavankumar, D john Pradeep, <b>L V Suresh Kumar</b>	Device to avoid accumulation and removal of mud in the mud guard	49/2021	202141049322A	03-12-2021



## 12. Faculty Development Programmes

1. L.V.Suresh Kumar Participated in “National Level Workshop on Lighting-Energy saving & Pollution Control” organized by Electrical and Electronics engineers association, Canara Engineering college, held on 13/03/2010.
2. L.V.Suresh Kumar Participated in “Technical Colloquium under NDLP Program” organized by nara Engineering College of EEE students branch, Bangalore section held on 07/11/2009.
3. L.V.Suresh Kumar Participated in “Solar Photovoltaic Installations” organized by the department of Electrical & Electronics Engineering and Mechanical Engineering, conducted on 21/03/2011.
4. L.V.Suresh Kumar Participated in the two day workshop on “Research Methodology” conducted by GITAM Institute of technology in Vishakhapatnam, during 16th -17th November, 2013.
5. L.V.Suresh Kumar Participated in the two day workshop on “Advanced Technologies in Smart Grid Applications” conducted by GMR Institute of Technology in Rajam, during 8th -9th March, 2014.
6. L.V.Suresh Kumar Participated in the two day workshop on “Fast Forward with Solar Mission: Solar Photovoltaic Energy Technology” conducted by Albertian Institute of Science and Technology in kalamassery, kochi, India during 20th -21st March, 2014.
7. L.V.Suresh Kumar Participated in the two day workshop on “Synchrophasor Application of Powersystem” conducted by Andhra University in Visakhapatnam during 30th June- 1st July, 2014.
8. L.V.Suresh Kumar Participated in the two day workshop on “Intelligent Control and Real-time Applications with dSPACE” conducted by GMR Institute of technology in rajam, during 21st -22nd November, 2014.
9. L.V.Suresh Kumar Participated in Three Day Short Term Course “Recent Trends and Applications in Smart and Micro Grids” conducted by K L University, Vijayawada during 10th July 2015 – 12th July, 2015
10. L.V.Suresh Kumar Participated in one day NPTEL work shop conducted on 15th February 2016 at GITAM University, Visakhapatnam.
11. L.V.Suresh Kumar Participated in one day work shop “Digital Design through Arduino” conducted by IIT Hyderabad during 20th february 2016.
12. L.V.Suresh Kumar participated in a two week faculty development programme on “Recent Advance in Electrical Engineering Research” Under TEQIP 1.2 Conducted by the Department of Electrical and Electronics Engineering, S.V University college of

- engineering, Tirupathi. From 20<sup>th</sup> February to 2<sup>nd</sup> March, 2017.
13. L.V.Suresh Kumar participated in the summer Faculty research program under continuous education program held on 30-05-2018 to 06-07-2018 at IIT Delhi.2018.
  14. L.V.Suresh Kumar participated in “Machine Learning in Cyber psychology studies” organized by Gandhi institute for education and technology, Baniatangi, Bhubaneswar on 29<sup>th</sup> May 2020.
  15. L.V.Suresh Kumar participated in a Five Day National Level online FDP on “cutting edge technologies for electrical engineering” organized by department of electrical and electronics engineering, from 18<sup>th</sup> to 22<sup>nd</sup> May 2020.(Time:10.00am to 12.00pm).
  16. L.V.Suresh Kumar participated in a one week online faculty development program on “recent trends in electrical engineering organized by department of electrical engineering priyadarshini college of engineering 18.05.2020 to 22.05.2020 (4.00pm to 6.00PM).
  17. L.V.Suresh Kumar participated in the webinar on “Education4.0” organized by IQAC of GMR Institute of Technology on May 20, 2020.
  18. L.V.Suresh Kumar participated in the webinar “IOT USING ARDUINO” on 13<sup>th</sup> May 2020 Hosted by St. Francis college for women in Association with Pantech.
  19. L.V.Suresh Kumar participated in an online webinar on “Electrical vehicles and their impact on electrical distribution network” organized by the department of electrical and electronics engineering on 03.06.2020.
  20. L.V.Suresh Kumar participated in the one week unique hands on international online FDP on “Control System Design-From A Beginner to an expert-1.0” organized by department of electrical engineering of GMRIT during may 25<sup>th</sup> to 30<sup>th</sup>, 2020 with “A” Grade.
  21. L.V.Suresh Kumar participated in two hours international online webinar on research papers,sponsored projects and indexing-1.0” organized by department of electrical and electronics engineering of GMRIT held on June 07<sup>th</sup> 2020 with “A” Grade.
  22. L.V.Suresh Kumar participated in three day international online faculty development program on “technologies for healthcare” organized by the department of electronics and communication engineering, GMRIT during 08<sup>th</sup> to 10<sup>th</sup> June 2020.
  23. L.V.Suresh Kumar participated in technical three day webinar on “Grid integration of wind energy conversion systems” organized by SRM university during 4<sup>th</sup> to 6<sup>th</sup> June 2020.
  24. L.V.Suresh Kumar participated in lessons on “leadership preparing the future leadersof your engineering workforce” in IEEE held on may 26<sup>th</sup> 2020.

25. L.V.Suresh Kumar participated in the webinar on “IEEE Xplore digital library enhancing libraries drive innovation forward in unprecedented” organized by central library KITS Warangal on 22<sup>nd</sup> June 2020.
26. L.V.Suresh Kumar participated in one week international FDP on “recent strategies on micro- and smart grid technologies” organized by department of electrical and electronics engineering of GMRIT, rajam during June 15<sup>th</sup> to 19<sup>th</sup> 2020.
27. L.V.Suresh Kumar participated in one week faculty development program on “emerging trends and challenges in electrical engineering” organized by department of electrical and electronics engineering, vageswari college of engineering, Karimnagar from 22<sup>nd</sup> June 2020 to 27<sup>th</sup> June 2020.
28. L.V.Suresh Kumar participated an international webinar on “an overview of climate change assessment global to regional organized by Gandhi institute for education and technology Bhubaneswar on 20<sup>th</sup> june 2020.in association with climate ,Singapore centre for atmospheric ,IIT Delhi.
29. L.V.Suresh Kumar participated in national webinar on “smart grid distributionsystem” organized by the sridevi womens engineering college, department of electrical and electronics engineering on 07.07.2020.
30. L.V.Suresh Kumar participated in national webinar on “energy management in shopping mall” organized by the sridevi womens engineering college, department of electrical and electronics engineering on 03.07.2020.
31. L.V.Suresh Kumar participated in national webinar on “Prospects and Applications of Non-Conventional energy for present Scenario” organized by the sridevi womens engineering college, department of electrical and electronics engineering on 05.07.2020.
32. L.V.Suresh Kumar participated in national webinar on “Overview of Power System” organized by the sridevi women’s engineering college, department of electrical and electronics engineering on 06.07.2020.
33. L.V.Suresh Kumar participated in national webinar on “Wavelet Transform for Power Quality Problem Classification and Protection” organized by the sridevi women’s engineering college, department of electrical and electronics engineering on 01.07.2020.
34. L.V.Suresh Kumar participated in the webinar on “artificial intelligence & cyber physical security for power grids” organized by deparment of electrical and electronics engineering, Raghu engineering college on 28<sup>th</sup> august 2020.
35. L.V.Suresh Kumar Has delivered an expert talk on the topic mentioned below in online

AICTE-ISTE sponsored induction/refresher course on —Recent Trends in Mechatronics in Phase I: 18<sup>th</sup> to 24<sup>th</sup> March 2021, phase II: 22<sup>nd</sup> to 28<sup>th</sup> April 2021 and Phase III: 06<sup>th</sup> to 12<sup>th</sup> May 2021 in Kamala Institute of Technology and Science, Telangana.

36. L.V.Suresh Kumar participated in the webinar on “Research Metrics and Software Tools” organized by research and development cell, LBRC on 20<sup>th</sup> September 2021.
37. LV Suresh Kumar participated and conducted five day international faculty development program on “Recent Trends in power electronics, controllers and power systems” organized by department of Electrical and electronics engineering of GMR Institute of Technology, Rajam during July 19<sup>th</sup> to 23<sup>rd</sup> 2021.
38. LV Suresh Kumar participated one week faculty development program on Recent Trends on Green Technologies - 2021” organized by Department of Electrical & Electronics Engineering of GMR Institute of Technology, Rajam during July 12 - 17, 2021.
39. LV Suresh Kumar participated five day international faculty development program on “E mobility and Battery charging” organized by department of Electrical and electronics engineering of GVP college of engineering, women’s, Vishakhapatnam, during December 09<sup>th</sup> to 12<sup>th</sup> 2021.
40. L.V.Suresh Kumar participated in one week faculty development program on “Research innovation and engineering advances in electrical engineering” organized by department of electrical and electronics engineering, AITAM, Tekkali from 4<sup>th</sup> April to 9<sup>th</sup> April 2022.
41. L.V.Suresh Kumar participated in one week faculty development program on “Application of power electronics in electric vehicles and energy storage” organized by department of electrical and electronics engineering, NIT Warangal/NITK Surathkal from 14<sup>th</sup> to 22<sup>nd</sup> February 2022.
42. L.V.Suresh Kumar participated in Five day faculty development program on “ Design and Modelling of IOT, AI and ML Systems” organized by AICTE, Atal Academy, Arm Education and STMicroelectronics from August 1<sup>st</sup> to 5<sup>th</sup> 2022.

### 13. Online courses

s.no	Course name	Course Website	Year	Weeks	Grade/Percentage
1	English: skills for learning	The open university	9/12/2019	8	70%
2	Language as a medium for teaching and learning	The open university	9/08/2018	1	--
3	Engaging with Educational research	The open University	9/08/2018	2	--

4	Energy resources: Tidal energy	The open university	9/07/2018	1	--
5	Using vectors to model	The open university	9/07/2018	1	--
6	Can Renewable Energy sources power the world	The open university	07/02/2019	8	95%
7	Solar energy basics	State university of new york	20/08/2020	5	93.30% (Capstone Project 90%)
8	Solar energy system Design	State university of new york	20/08/2020	5	94.10% (Capstone Project 90%)
9	Wind Energy	Denmark Technical university	2020	5	88.81%
10	Complete 2020 solar energy master class from hero to zero.	Udemy	2020	13 hours	89%
11	2021 python for machine learning And Data science and master class	Udemy	2021	44 hours	90%
12	Security Operations Fundamentals-Edu Skills Foundation	Palo alto Networks Academy	2022	15	96% (8 lab experiments )
13	Cloud Security Fundamentals-Edu Skills Foundation	Palo alto Networks Academy	2022	17	96% (6 lab experiments )
14	Cybersecurity Foundation- Edu Skills Foundation	Palo alto Networks Academy	2022	15	92% -
15	Network Security Fundamentals-Edu Skills Foundation	Palo alto Networks Academy	2022	15	94% (8 lab experiments )
16	Electric Vehicles and Mobility	Paristech, Coursera	2022	06	97.98%

#### 14. Experience on Academic and non-academic Activities

1. Working as summer/ Full semester internship coordinator

2. Worked as First year basic electrical engineering course coordinator for 5 years
3. Worked as Third year renewable energy and first year course coordinator for 3 years.
4. Worked as final year power system operation control course coordinator for 2 years
5. Worked as second year network analysis course coordinator for 4 years
6. Worked as second year ECE linear circuit analysis course coordinator for 3 years
7. Worked as NBA coordinator for 2 times
8. Worked as NAAC coordinator for 2 times
9. Worked as Department Exam-section coordinator for 3 years
10. Working as online exam section coordinator for 6 years
11. Worked as music club coordinator for 3 years.
12. Working as central level dance club coordinator for 6 years.
13. Worked as Department CCEC Activities coordinator.
14. Working as national level event STEPCONE co-coordinator for 10 years
15. Working as simulation lab In-charge
16. Paper evaluation done from 2010 to 2020 in various colleges like GMRIT, GVP, MVJR, AITAM, RAGU.
17. Working as department autonomous coordinator.
18. Working as coordinator for admission committee in GMRIT from 2019 onwards
19. Worked as class teacher for 7<sup>th</sup> semester students
20. Worked as class teacher for 5<sup>th</sup> semester students

**15. Co-Curricular and Extra Curricular/Any other Additional Responsibilities:**

<b>Additional Responsibility</b>	<b>Duration</b>	<b>Achievements</b>
Admission committee member	2019 to till now (3 Years)	Visited 20 intermediate colleges in vizianagaram district for Admission campaigning.
Department Exam-section coordinator	2015 to 2019 (4 Years)	Successfully conducted all internal exams
Department online exam section coordinator	2016 to present (6 years)	Successfully conducted all online exams as per the AR13, AR16, AR19 and AR 20 Regulation
Central Dance club coordinator	2016 to till now (6 years)	1. Successfully conducted two events with 67 students in 2016 2. Successfully conducted one event with 47 students in 2017 3. Successfully conducted one event with 24 students in 2018 4. Successfully conducted one event with 42 students in 2018 5. Successfully conducted 11 events with 39 students in 2021

Central music club coordinator	2014 to 2016 (2 years)	Successfully conducted two Events with 20 participants
Department CCEC Activities coordinator	2013 to 2015 (3 years)	Successfully conducted three events in each semester and distributed certificates.
Department DG sign coordinator	2013 to 2015 (2 years)	Successfully forwarded department events photos to Server room for display in DG sign
National level event STEPCONE Cultural coordinator	2011 to 2020 (9 years)	<ol style="list-style-type: none"> <li>1. Successfully completed all the events from 2011 to 2016 as a coordinator.</li> <li>2. Successfully completed cultural events with 27 teams (140 students) in 2017.</li> <li>3. Successfully completed cultural events with 29 teams (135 students) in 2018.</li> <li>4. Successfully conducted STEPCONE and college promotion activity at vizag central with 59 students in 2017.</li> <li>5. Successfully completed cultural events 23 teams (120 students) in 2019.</li> <li>6. Successfully completed cultural events 25 teams (140 students) in 2020.</li> </ol>
Simulation lab In-charge	2017 to till now (5 years)	<ol style="list-style-type: none"> <li>1. Successfully installed all softwares as per the requirement from all the department.</li> <li>2. Successfully installed SCI Lab software for AR 16, AR19 Regulation labs.</li> </ol>
Annual day cultural coordinator	2012 to 2022 (10 years)	<ol style="list-style-type: none"> <li>1. Successfully completed all the events 2012 to 2017.</li> <li>2. Successfully completed 21 events in 2018.</li> <li>3. Successfully completed 23 events in 2019.</li> <li>4. Successfully completed 2022 Annual day cultural show with 23 events.</li> </ol>
NAAC/ NBA Department criteria coordinator	2016 & 2021	<ol style="list-style-type: none"> <li>1. Successfully completed criteria 4 work for NBA Tire-1 in 2016.</li> <li>2. Successfully completed criteria 2 work for NAAC in 2021-2022.</li> </ol>
Department autonomous coordinator	2019 to till now (3 Years)	<ol style="list-style-type: none"> <li>1. Successfully completed Autonomous work from 2019 to 2021 as a coordinator.</li> <li>2. Successfully completed Autonomous work 2021-2022 as a coordinator.</li> </ol>
NAAC/ NBA peer team visit Cultural coordinator	2016 & 2021 (Two years)	Successfully completed Cultural show in front of NBA/ NAAC peer team.
Central internship coordinator	2022 onwards	Arranging and monitoring of full semester internships.
Coordinator for CSR Activities	2017 (1 year)	Sankranti Cloth distribution of CSW-GMRVF
Women's day cultural coordinator	2018, 2019 & 2022 (3 years)	Successfully completed Cultural event in Women's day.

Others	1. Internal Technical committee member for ICCC 2020 Conference. 2. Presented Topic in AICTE Sponsored FDP as Resource person. 3. Successfully completed summer research program in 2018 at IITD. 4. Four Guest lectures presented in 2018, 2019, 2020, 2021. 5. Successfully completed five days International FDP with 20 resource persons and 178 participants. 6. Successfully conducted two guest lectures for 3rd and 4th year students in 2021. 7. Worked as organizing committee member for ICCID Conference, Odisha in 2015. 8. Received Best faculty award in 2012. 9. Working as reviewer for conferences and journals. 10. Successfully completed one webinar with 400 participants in 2021. 11. Published one text book at Lambert Academic in 2015 with GMRIT Affiliation. 12. 42 Publications with GMRIT Affiliation in 12 years.
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**16. My average teaching feedback from the students from 2010 to 2022 (max-6 points)**

1. Theory subjects – 4.5 to 5
2. Mathematical related subjects – above 5

**17. Major Strengths**

1. Positive thinking
2. Hard work
3. Continuous learning.

**18. Major Weaknesses**

1. If I am in work I forgot remaining things.

**19. Google scholar profile**

Citations	H-index	i10-index
148	6	5

**Declaration:** I am also confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge

Date: 09/12/2022

Place: Rajam

Dr. L V Suresh Kumar