

RESUME



SAI GEETHA LAKSHMI. VALLURU

D/O SREERAMULU. VALLURU
7/130-1 VENKAESWARA RESIDENCY
FLAT NO. SF2
KANURU
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CAREER OBJECTIVE

To dedicate myself as a worthy and energetic in a progressive organization that gives me scope to apply my knowledge and skills and become a part, which dynamically works towards success and growth of the Organization.

EDUCATIONAL PROFILE

- **Doctor of Philosophy (PhD) (Electrical Power Systems)**
 - University : Annamalai University
 - Year of passing : 2025
- **PG Diploma in Machine Learning**
 - University : Indian Institute of Information Technology, Raichur
 - Year of passing : 2024
- **Master of Technology (Power Systems Emphasis with High Voltage Engineering)**
 - University : JNTUK
 - Percentage : **85.6%**
 - Year of passing : 2011
- **Bachelor of Technology (Electrical and Electronics Engineering)**
 - University : SVU TIRUPATHI
 - Percentage : **69.68%**
 - Year of Passing : 2004
- **XII Standard**
 - Board : Board of Intermediate Education
 - Percentage : **70.4%**
 - Year of Passing : 1999
- **X Standard**
 - Board : Board of Secondary Education
 - Percentage : **70.1%**
 - Year of Passing : 1997

EXPERIENCE

- Working as Assistant Professor in PVP Siddhartha Institute of Technology, Vijayawada since 18/11/2010 to Till Date.
- Worked as Assistant Professor in Priyadarshini college engineering, Nellore from 19/09/2005 to 04/11/2010

PUBLICATIONS

1. V. Sai Geetha Lakshmi, M. Devika Rani, R Balusularao Malukurt, Ramavath Srinivas, Srikanth Kilaru “Optimizing Sustainability In Smart Micro Grids: Nature-Inspired Multi-Objective Economic Emission Dispatch Models”, Journal of Theoretical and Applied Information Technology, pp. 7523-7543, ISSN: 1992-8645, Vol.103. No.18, 30th September 2025
2. M. Devika Rani, V. Sai Geetha Lakshmi, “Optimization-Based Approaches for Boosting Microgrid Resilience to Fault Events”, Journal Européen des Systèmes Automatisés, Vol. 57, No. 4, August, 2024, pp. 1075-1089, ISSN: 1269-6935,
3. V Sai Geetha Lakshmi, M Devika Rani, F Jenio Jasmine Rathinam Muniraj, P MUTHUKUMAR, “Optimal Reconfiguration of Fully Automated Distribution System for Reliable and Resilient Operation Using Hybrid Single Candidate Optimizer” International Journal of Intelligent Engineering and Systems, Vol.16, No.6, December 2023 ISSN: 2185-3118 pp:925-934 DOI: 10.22266/ijies2023.1231.76.
4. M. Devika Rani, V. Sai Geetha Lakshmi, K. J. Jegadish Kumar, K. Muthuvel, P. Muthu Kumar, —Hybrid War Strategy Optimization with Power Loss Index for Optimal VAR Compensation in Distribution Feeders with Industrial Load Growth, International Journal of Intelligent Engineering and Systems, Vol.17, No.1, February 2024, ISSN: 2185-3118, PP:645-653.DOI: 10.22266/ijies2024.0229.54 (Scopus Indexed)
5. M.Devika Rani, V.Sai Geetha Lakshmi, P.Muthu Kumar, D. R. Binu Ben Jose, R. Saravanan, “Optimized Controller Based Voltage Quality Assessment In Grid Connected Hybrid Microgrid”, Journal of Theoretical and Applied Information Technology 15th April 2023, Vol. 101. No. 7, pp. 2474- 2485, ISSN: 1992-8645.
6. V. Sai Geetha Lakshmi, M. Devika Rani, Sravanthi Kantamaneni, Puchanuthala Sivakrishna, Dr.D.N.V.Satyanarayana, Muthukumar Paramasivan, “An Optimized Approach For The Development of Hierarchical Energy Integration With Multiple Energy Resources And Emphasizing The Heuristic Techniques”, Journal of Theoretical and Applied Information Technology, 15th May 2023, Vol. 101. No. 9, ISSN: 1992-8645.
7. V.Sai Geetha Lakshmi, M.Devika Rani, K. Bhavana, “AI-Improved Battery- Powered Automobile Battery agnostics” , Proceedings of eighth International Conference on Circuit Power and Computing Technologies (ICCPCT), September 2024, held during August 8th-9th, 2024, Proc. of IEEE Catalog Number: CFP24IPT-ART ISBN: 979-8-3503-7281-6, PP:1500-1505, Co-organized by Baselios Mathews II College of Engineering, Kerala College in the Sasthamkotta, Kerala. [https://DOI: 10.1109/ICCPCT61902.2024.10673152](https://doi.org/10.1109/ICCPCT61902.2024.10673152) (Scopus Indexed).
8. Y. Satish, P. Shyam, S. Aravind, V. Chandana, V Sai Geetha Lakshmi, “Efficiency And Reliability Enhancement in HVDC-VSC Power Transmission Network with Control And Planning Strategies”, Proceedings of eighth International Conference on Circuit Power and Computing Technologies (ICCPCT) September 2024, held during August 8th-9th, 2024, Proc.

of IEEE Catalog Number: CFP24IPT-ART ISBN: 979-8-3503-7281-6, PP:178-182, Co-organized by Baselios Mathews II College of Engineering, Kerala College in the Sasthamkotta, Kerala. [https://DOI: 10.1109/ICCPCT61902.2024.10673279](https://doi.org/10.1109/ICCPCT61902.2024.10673279). (Scopus Indexed).

9. V. Sai Geetha Lakshmi, M. Devika Rani, Improved Version of Smart Helmet to Eschew Road Accidents, Journal of Next Generation Technology ISSN: 2583-021X 30 November 2021, Pages: 49 - 54
10. M. Devika Rani, V. Sai Geetha Lakshmi, Simulation of Reference Frame Based D STATCOM for Power Quality Improvement International Journal for Research in Engineering Application & Management (IJREAM) ISSN: 2454-9150 Vol-06, Issue-09 Nov 2020
11. V Sai Geetha Lakshmi sign to speech conversion for dumb people Journal for Research in Engineering Application & Management (IJREAM), volume 06, issue 11, feb 2021
12. Sai Geetha Lakshmi Valluru, Devika Rani Mothukuri “Deciphering the Combination of Economic and Emission Dispatch for the Smart Grid by Heuristic Techniques: A Review”, TEST Engineering and Management May-June 2020 ISSN: 0193-4120 Page No. 24999 – 25007.
13. Devika Rani Mothukuri, Sai Geetha Lakshmi Valluru, “A Review of Optimization Techniques for Power and Energy Supervision in Micro Grids”, TEST Engineering and Management May-June 2020 May - June 2020 ISSN: 0193-4120 Page No. 3961-3966, (Scopus Indexed).
14. M.V. RAMESH, P. SOWJANYA, V.S.G. LAKSHMI, “PV System Powered BLDC Motor with Energy Storage”, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8, Issue-6S3, September 2019, PP: 881-883, Impact Factor: 5.97 (Scopus Indexed).
15. Mrs. V. Sai Geetha lakshmi “modelling and simulation of microgrid with PV, DFIG wind farm and diesel generator using PSCAD/EMTDC” Volume 5, Issue 10 www.jetir.org (ISSN-2349-5162) oct-2018
16. Mrs. V. Sai Geetha lakshmi “Comparative Study of Reduced Ripple DC-DC Converters for Various Applications” in International Journal of Computer Sciences and Engineering (ISSN: 2347-2693), Vol.6, Issue.10, October 2018
17. Mrs. V. Sai Geetha lakshmi “Grid Synchronization of a Microgrid with Renewable Energy Sources and Storage Assisted with Controller Area Network” International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor:6.887 Volume 5 Issue VIII, August 2017
18. Mrs. V. Sai Geetha lakshmi “Fuzzy Logic Based Control Strategy for Load Sharing Between PV Systems for DC -DC Converters” International Journal of Innovations in Engineering and Technology (IJJET) Volume 7 Issue 3 October 2016 ISSN: 2319 – 1058
19. Mrs. V. Sai Geetha lakshmi “Integration of AC grid with HVDC consists of High Step up of Wind Generated DC-DC Converter” International Journal of Science, Engineering and Technology Research (IJSETR) Volume 6, Issue 7, July 2017, ISSN: 2278 -7798
20. Mrs. V. Sai Geetha lakshmi “Design of PSO based Fractional order Load Frequency controller for two area power system” IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676, p-ISSN: 2320-3331, Volume 9, Issue 6 Ver. II (Nov – Dec. 2014)

CONFERENCE

2024-25

V.Sai Geetha Lakshmi, M.Devika Rani, K. Bhavana, “AI-Improved Battery- Powered Automobile Battery agnostics” , Proceedings of eighth International Conference on Circuit Power and Computing Technologies (ICCPCT), September 2024, held during August 8th-9th,

2024, Proc. of IEEE Catalog Number: CFP24IPT-ART ISBN: 979-8-3503-7281-6, PP:1500-1505, Co-organized by Baseliros Mathews II College of Engineering, Kerala College in the Sasthamkotta, Kerala. <https://DOI: 10.1109/ICCPCT61902.2024.10673152> (Scopus Indexed).

Y. Satish, P. Shyam, S. Aravind, V. Chandana, V Sai Geetha Lakshmi, “Efficiency And Reliability Enhancement in HVDC-VSC Power Transmission Network with Control And Planning Strategies”, Proceedings of eighth International Conference on Circuit Power and Computing Technologies (ICCPCT) September 2024, held during August 8th-9th, 2024, Proc. of IEEE Catalog Number: CFP24IPT-ART ISBN: 979-8-3503-7281-6, PP:178-182, Co-organized by Baseliros Mathews II College of Engineering, Kerala College in the Sasthamkotta, Kerala. <https://DOI: 10.1109/ICCPCT61902.2024.10673279>. (Scopus Indexed).

2021-22 :

M.Devika Rani, V.SaiGeetha Lakshmi have presented a research paper entitled 'Power Quality Enhancement in Wind Farms Using SVC' in the ICETMCCT-2021 held on 9th and 10th December 2021 Organised by Annai Vailankanni College of Engineering, AVK Nagar, Pothaiyadi Salai, Azhagappapuram. P. O, K.K.District, Tamil Nadu, India

2020-21:

M.DEVIKA RANI, V.SAI GEETHA LAKSHMI, “Mitigation of Harmonics Using Active Power Filter For Power Quality Improvement”, 5th International Multidisciplinary Research conference (IMRC-2020) held on 26th December 2020 at Osmania University Campus, Hyderabad, ISBN: 978-81-948668-1-7, PP: 230- 234.

2019-20:

V.SAI GEETHA LAKSHMI, M.DEVIKA RANI, “Improved Version of Controlling Solar System With Battery for AC Load Using PSCAD/EMTDC”, International Conference on Advances in Renowned Renewable Energy Technologies (ICARRET), scheduled during 23rd & 24th October 2019 at Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada

BOOK CHAPTERS

2021-22:

Sai Geetha Lakshmi Valluru & M. Devika Rani Improved Version of Load Sharing with Grid by Renewable Energy Sources, EMPIRICAL ASPECTS OF ADVANCEMENTS IN SCIENCE ENGINEERING AND TECHNOLOGIES, Krishna Publishers, First Edition: 2021, ISBN 978-81-947388-5-5. Pp 20-29

M. DEVIKA RANI AND V. SAI GEETHA LAKSHMI, SIMULATION OF CONTROLLED UNIFIED POWER FLOW CONTROLLER FED INDUCTION DRIVE, EMPIRICAL ASPECTS OF ADVANCEMENTS IN SCIENCE ENGINEERING AND TECHNOLOGIES, Krishna Publishers, First Edition: 2021, ISBN 978-81-947388-5-5. Pp 79-86

2020-21:

WORK SHOPS/SEMINARS/FDPS/STC

2021-22

1. V SAI GEETHA LAKSHMI, Assistant Professor of PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Electrical Distribution System Analysis with Renewable Energy Sources" from 2021-07-12 to 2021-07-16 at National Institute of Technology, Kurukshetra.
2. V.SAI GEETHA LAKSHMI PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, VIJAYAWADA ANDHRA PRADESH Participated in the Online AICTE Recognized Faculty Development Programme on Real Time Simulation: Roadmap for RE Grid Integration in Micro grid and Smart Grid from 28/06/2021 to 02/07/2021 (one Week)
3. V SAI GEETHA LAKSHMI, Assistant Professor of PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Challenges and Opportunities in Integration of Electric Vehicles with Smart Electric Grids" from 16/08/2021 to 20/08/2021 at National Institute of Technology Goa.
4. V Sai Geetha Lakshmi Asstt. Profesor, Siddhartha Institute of Technology, Vijayawada participated in the AICTE sponsored QIP Short Term Course on DISTRIBUTED GENERATION AND MICROGRID from 09/08/2021 to 14/08/2021 (One Week)
5. SAI GEETHA LAKSHMI Assistant Professor, Dept. of Electrical and Electronics Engineering PVP SIT, Vijayawada, Andhra Pradesh Attended the International Online Workshop on "MATLAB Applications in Industry 40" Conducted by this Institute on 12.08.2021 & 13.08.2021
6. V.SAI GEETHA LAKSHMI Assistant Professor in Electrical and Electronics Engineering PVP Siddhartha Institute of Technology, Viayawada, Andhra Pradesh Participated in the Online Training Programme on "MATLAB Programming for Simulation and Design" Conducted by this Institute from 09.08.2021 to 13.08.2021 (One Week)
7. Vsaigeethalakshmi from PVP Siddhartha institute of technology Kanuru Vijayawada, ANDHRA PRADESH has participated and completed the International Online Faculty Development Programme on "Recent Computational Strategies for Condition Monitoring of High Voltage Equipment (ReCoSCoM-HiVoE-2021)" organized by Department of Electrical Engineering, NIT Patna under the banner of Electronics and ICT Academy, NIT Patna, held from 18 th September 24 th September, 202 1
8. V SAI GEETHA LAKSHMI, Assistant Professor of PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Advanced FDP on " ELECTRIC TRANSPORTATION INFRASTRUCTURE FOR E-MOBILITY IN INDIA " from 08/11/2021 to 12/11/2021 at National Institute of Technology Warangal.

2020-21:

1. SAI GEETHA LAKSHMI VALLURU of Pvp Siddhartha Institute of Technology, Vijayawada has participated in Faculty Development Program on "ARDUINO" Organized by SV Engineering College, Tirupati, in association with Spoken-Tutorial, IIT Bombay 29-06-2020 to 03-07-2020.
2. Mrs. V SAI GEETHA LAKSHMI from Pvp Siddhartha institute of technology for attending a 5-Days Online Faculty Development Program on DEEP LEARNING & ITS

APPLICATIONS: THEORY TO PRACTICE, organized by Dept of Computer Science & Engineering, Sasi Institute of Technology & Engineering, Tadepalligudem 6-7-2020 to 10-7-2020

3. Mrs. V SAI GEETHA LAKSHMI from Pvp Siddhartha institute of technology for attending a 5-Days Online Faculty Development Program on RECENT TRENDS IN MICRO GRID TECHNOLOGIES, organized by Dept of electrical and electronics Engineering, VIGNAN Institute of Technology & science, Yadardri Bhuvanagiri Dist. 6-7-2020 to 11-7- 2020
4. SAI GEETHA LAKSHMI VALLURU has actively participated in A 5-Day Online Faculty Development Programme on “POWER ELECTRONIC CONVERTERS & IT’S REAL TIME APPLICATIONS”, Organized by the Department of Electrical and Electronics Engineering, Sri Vasavi Engineering College (Autonomous), Andhra Pradesh, 21-07-2020 to 25-07-2020
5. Mrs SAI GETHA LAKSHMI VALLURU, Assistant Professor from pvp Siddhartha institute of technology has actively participated in One Day National Level Online Faculty Development Programme on “Controller Hardware-in-the-Loop Simulation: Tool for Future Electrical Engineers” Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad, Telangana in collaboration with Quarbz Info Systems, Kanpur. 24.07.2020
6. SAI GEETHA LAKSHMI VALLURU of PVP Siddhartha Institute of Technology has actively participated in A 1-Day Online Work Shop on “LATEX”, Organized by the Department of Energy and Power Electronics, School Of Electrical Engineering, Vellore Institute Of Technology, Vellore 3-7-2020
7. SAI GEETHA LAKSHMI VALLURU of PVP Siddhartha Institute of Technology has actively participated in A one-week Online Work Shop on “Introduction to PLECS for Power Electronics Application”, Organized by the Department of Electrical and Electronics Engineering, VRSEC Vijayawada Andhra Pradesh, India in association with PLEXIM, Switzerland and sponsored by AICTE – Margadhashan Scheme 2-07-2020 to 6-7-2020
8. SAI GEETHA LAKSHMI VALLURU From PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY has actively participated in the 5-Days e-Workshop on “MATLAB and its Applications in Electrical Engineering” organized by Department of Electrical and Electronics Engineering, SVCE, Tirupati. 20-07-2020 to 24-07-2020
9. Ms. SAI GEETHA LAKSHMI VALLURU has participated in the online Faculty Development Programme on “Emerging Trends in Electrical Engineering-A Research Perspective” organized by EEE Department, LBS College of Engineering, Kasaragod from 27/07/2020 to 31/07/2020
10. V SAI GEETHA LAKSHMI, Assistant Professor of PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Control Systems & Sensors Technology" from 2020-8-17 to 2020-8-21 at Government College of Engineering Srirangam
11. V SAI GEETHA LAKSHMI, Assistant Professor of PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2020-8-24 to 2020-8-28 at NATIONAL POWER TRAINING INSTITUTE.
12. V SAI GEETHA LAKSHMI, Assistant Professor of PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY participated online fdp on emerging trends in power electronics and power systems held by 24-29 august 2020 at op Jindal university
13. 4-day online hands-on workshop using MATLAB&SIMULINK-Research prospective New Horizon college of engineering, Bengaluru **01-09-2020 to 04-09-2020**
14. One week online short-term training program on integration storage and control in hybrid energy systems Geethanjali College Of Engineering And Technology 31-08-2020 to 05-09-2020

15. Internet of Things (IoT) Geethanjali College of Engineering and Technology. 2020-12-1 to 2020-12-5
16. Design and Development of Control Strategies on Electrical Power Applications - An Industrial Perspective PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY **07th to 12th December 2020**
17. RECENT TRENDS AND CHALLENGES IN POWER MARKET WITH SMART GRID TECHNOLOGY Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada 28-12-2020 to 2-01-2021

2019-20:

1. Mrs. V Sai Geetha Lakshmi of Prasad V. Potluri Siddhartha Institute Of Technology has participated in the “One Week International Online Faculty Development Program (FDP) on Computational Intelligence and Modelling in Modern Power System” organized by the Department of Electrical & Electronics Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada, Andhra Pradesh, India held during 22nd – 27th June 2020.
2. Successfully completed One Week National Level Faculty Development Program and Online Training on “Moodle – Learning Management System” organized by the Department of Electrical and Electronics Engineering, Vaagdevi Engineering College, Warangal, in association with Spoken Tutorial, IIT Bombay from 15-06-2020 to 20-06-2020.
3. Participated in a two day FDP on “Intelligent Controllers For Renewable Energy Systems” organized by Department of Electrical and Electronics Engineering, P.S.R. Engineering College, Sivakasi on 02.06.2020 and 03-06-2020.
4. Participated online FDP on “Technological Advances in Power Switching Converters for Renewable Energy Sources and Fuel Cell Technology for E-vehicles” During 01-06-2020 to 05-06-2020, Organized by Department of Electrical & Electronics Engineering, Bapatla Engineering College, Bapatla.
5. Participated in “A Two Days National Level Workshop on Teaching & Learning of Software Applications On Mobile platform” conducted by Department of Electrical and Electronics Engineering, VSM College of Engineering on 8th and 9th June 2020.
6. Participated in A National level Five day Online Faculty Development Programme on “ELECTRIC POWER GRID MODERNIZATION TRENDS, CHALLENGES AND OPPORTUNITIES” Organised by Department of Electrical and Electronics Engineering, KITS, Guntur, Andhra Pradesh from 09/06/2020 to 13/06/2020.
7. Participated in Online Faculty Development Programme on “MATLAB AND SIMULINK in engineering education” Organised by APSSDC from 10/06/2020 to 11/06/2020.

2018-19:

8. Completed ½ week FDP certificate course on “Advanced Linear continuous control systems: Applications with MATLAB programming and Simulink” from IISC, Bangalore during Aug-Sep 2018 (4 week course)
9. Attended STC through ICT mode on “Artificial Intelligence and Optimization” conducted by PVPSIT in association with NITTR, Chandigarh during 21st -25th January 2019
10. Attended 3 day FDP under AICTE Margadarshan Scheme on “Modern pedagogical techniques and creative problem solving” during 15th – 17th April 2019 at VRSEC.

11. Attended one week FDP on “Applications o Digital Signal Processing Techniques for Power electronic Systems” organized by the E&ICT Academy at dept., of EEE, NIT, Warangal from 13th – 18th May 2019.

2017-18:

1. Participated in two weeks ISTE STTP on “Electric Power System” organized by IIT Kharagpur at Knowledge centre, PVPSIT during 10th – 15th July 2017.
2. Attended one week FDP on “Electrical Engineering Software tools Expo” during 30th April - 5th May 2018 organized by VRSEC, Kanuru
3. Attended STC on “Modelling and simulation of Renewable energy systems” during 28th May-1st June 2018 at MNIT, Allahabad

WORKSHOP CONDUCTED

One day Workshop on “GENERATING AWARENESS ABOUT LEGAL RIGHTS OF WOMEN” 18th November 2017

NPTEL CERTIFICATE COURSES

- Power system analysis
- Advanced linear control systems using MATLAB programing
- Introduction to smart grid
- Introduction to machine learning
- Deep learning

COURSERA CERTIFICATE COURSES

- Learn to Program: The Fundamentals
- Wind Energy
- AI For Everyone
- Introduction to Programming with MATLAB
- Electric Power Systems

INFOSYS SPRING BOARD CERTIFICATE COURSES

- Basic of python

PROFESSIONAL MEMBERSHIP

Life time Member in Indian society for Technical Education

PERSONAL PROFILE

Father’s Name	:	SREERAMULU VALLURU
Date of Birth	:	05-10-1981
Gender	:	Female
Nationality	:	Indian
Languages Known	:	English, Telugu and Hindi
Marital Status	:	married

DECLARATION

“I here by declare that all the particulars stated above are true, complete and correct to the best of my knowledge and belief”

Place:

(V. SAI GEETHA LAKSHMI)

Date: