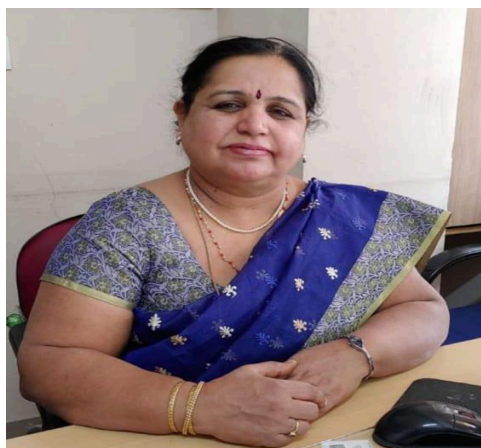


BIO-DATA

12/12/24



1. Name and address:	Dr. S G Srivani, PhD(NITK), FIE, IEEE Senior member Professor and Head(i/c), Associate PG Dean, Faculty advisor: IEEE (PES) RVCE SB Electrical & Electronics Engineering Department ,, RV College of Engineering ^(R)
2. Email(s) and contact number(s):	srivanisg@rvce.edu.in, srivani.sg@gmail.com 91-9844327829
3. Institution:	RV College of Engineering ^(R) , Bangalore 59
4. Date of Birth:	20.07.1963
5. Gender (M/F/T):	Female
6. Category Gen/SC/ST/OBC:	General

7. Academic Qualification (Undergraduate Onwards) and professional elevation

S. No.	Degree	Year	Subject	University/Institution
1.	BE	July 1986	Electrical and Electronics First class	UVCE Bangalore
2.	ME	July 1990	Power system First Class-Distinction	UVCE , Bangalore
3.	Ph.D	September 14th 2011	Power and Energy systems	NITK, Surathkal, mangalore
4	FIE	2012	Electrical Engineering	Institution of Engineers Kolkata-HO
5	IEEE Senior member	2018	Electrical – power and energy systems(PES)	IEEE, USA

6	Professional ambassador	2023	Electrical and Electronics	IFERP , New Delhi
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Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Ph.D	September 14 th 2011	Electrical-Power and Energy systems "Adaptive Distance Relaying Schemes for double circuit and series compensated lines"	NITK, Surathkal Guide- Dr.K Panduranga Vittal ,HOD
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8. Teaching and Research Experience: 40 years
35 years in RVCE (Since 20-09-1990)
Presently, Professor and Head(i/c) EEE Department,

9 .PhD Guided/Guiding: total -9 scholars

- ☐ **4 Scholars** have been awarded in 2019-2023 from VTU, (RVCE & CPRI) research centers
- ☐ **1 Scholar** completed colloquium and submitted thesis in october2024
- ☐ **2 scholars** completed colloquium and submitting thesis in January 2025
- ☐ **2 scholars** completed open seminars and writing thesis

10. Work experience (in chronological order)

S. No.	<u>Positions held</u>	<u>Institute</u>	<u>From</u>	<u>To</u>	<u>Pay Scale</u>
1.	Professor and HOD	RVCE	1/2/2022, 1/7/2022	Till date	AICTE 7th pay scale
2.	Associate PG Dean	RVCE	1/8/2019	Till date	AICTE 7th pay scale
3.	Associate professor	RVCE	1/1/2011	31/1/2022	AICTE 6th pay scale
4.	Lecturer /senior lecturer/ selection grade /Assistant professor	RVCE	20/9/1990	31/12/2010	AICTE 5th pay scale
5.	Lecturer	Sir MVIT	1/8/1987	19/9/1990	Rs.1400/-
6.	Lecturer	IMPACT polytechnic	1/1/1987	30/12/1988	Rs.1000/-consolidated
7	GOI –Engineering trainee	KEB	1/7/1986	30/12/1986	Rs.300/-

11. professional Recognition/Award/ Prize/ Certificated

Sl.No.	Name of Award	Awarding Agency	Year
1.	External technical expert –Panel member	ISRO ,technical /scientific officers-C and engineers –Grade 12 promotion interview. IRSC and ISTRAC	June 2024
2.	Professional Excellence Award	Indian Institute power plant engineers IPE	August 2024
3.	Best Teacher Award	IETE-RVCE chapter	Sept. 2024
4.	Professional excellence - women in engineering award	IEEE-WIE-RVCE chapter	August 2024
5.	Elsevier energy report Evaluator Member of editorial board	Elsevier	Nov.2024
6.	Expert evaluator INSPIRE-MANAK program	National Innovation Foundation (NIF)	2020-2024
7.	Outstanding professional award on Engineers day2024	JSW and reach the need foundation	Sept.2024
8.	General Chair –hosted the conference & Received the Best Paper Award as-well (authored 8 papers in IEEE –Xplore)	7th IEEE International Conference CSITSS-2023	Nov 2023
9.	Session chair and organizing committee member	8 th IEEE CSITSS-2024	Nov 2024
10.	Editorial board member and reviewer of reputed journals	IFERP ,IJERT,UGC journal, Elsevier INENG,IEI, ,ETASR European Journal	2024
11.	VTU nominee for BOS	PES ,Mandya	2024
12.	DAC expert external	Kishkinda university	2024
13.	BOS and AAC external expert, Ph.D evaluator ,DC member	MIT ,Manipal and VIT vellore jain university, JSS IT ,CPRI	2012-2024 till date
14.	International award: BEST RESEARCH PRESENTATION : paper titled “PMU Data Analysis and cyber security in smart grid”	ICRAET-23, Paris, France	27th June 2023

15.	International recognition : Session chair , ieeeforum Conference. Chaired the Member's Meeting	International Conference on Computer Science, Industrial Electronics (ICCSIE-2023), Geneva, Switzerland	24th June 2023
16.	Proctor USC Viterbi-international recognition	school of Engineering DEN & Viterbi USA, California	2323
17.	Professional Ambassador of IFERP	IFERP	2023
18.	Expert committee member and evaluator 8th National level Exhibition and Project Competition (NLEPC) of INSPIRE Awards-MANAK	National Innovation Foundation-India (NIF) Amrapur, Mahudi Road, Gandhinagar, Gujarat- 382650	2020-2024
19.	Lifetime Achievement Award	INSO Awards "International Scientist Award-2022"	2022 April
20.	Co-Chair	6th IEEE International Conference CSITSS-2022	2022 December
21.	Expert primary evaluator of Toycathon-2021	Ministry of education's innovation cell and AICTE	2021 December
22.	National Education Excellence Award 2021 in Power and Energy Systems	IMPF, registered by govt. of INDIA	2021, November 11
23.	Chief coordinator	Sponsored AICTE-STTP	2020
24.	Best presenter and session chair Received UGC travel grants (1.85 lakhs)-international recognition	Academia international conferences at Los Vegas, USA	2019
25.	IEEE Senior member	IEEE	July 2018
26.	Best paper Award and session chair at London- international recognition	WEING-WCE conference at Imperial College LONDON	2016
27.	"Global Excellence Award" for the research work in	Friendship Forum of India (FFI), New Delhi	August 2013
28.	"Best citizen of India Award"	International publishing house, New Delhi	2012
29.	AICTE IQIC evaluator	AICTE	2019-23
30.	STTP sponsored program chief coordinator	AICTE	2021-22
31.	International Reviewer /session chair /board member /committee member for	IEEE, IJE, WSE, IFREP, SCI, GRD, Elsevier, Taylor and Francis IET, IEEE conferences	2011 –Till date

	international conferences and awards	etc. Indonesia (Q1) journal, ETSAR etc.	
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❖ **Main Activities undertaken as Dept. HOD (i/c) July 2022 to Dec 2024 and earlier few**

Curriculum : Syllabus revision and regular BOS meetings for UG and PG 21 & 22 schemes and BOE chairman ,Associate PG dean and GATE coordinator (since 4 years) Updating of the laboratories with modern equipments and revising the manuals. Revamping of machine laboratory and e mobility COE
NBA and administration : • PG program accredited in 2023 for 3 years, • UG program accredited in 2024 for 3 years • Coordinated for NAAC grading • Executed the Recruitment process of availing Good faculties and staff, encouraged them for training program ,publications ,upgrading their degree ,develop good work culture.
Skill Laboratories – Timely execution as per NEP 2020 seamlessly,. Planning to have exclusive setup indigenously
Funded Projects: 3 NIAS projects completed, ISRO Respond Basket project sanctioned for 30 lakhs is in progress ,Interdisciplinary projects proposals submitted for 1.0 Crore, 4.6 crore and 60 lakhs to DST and SERB ,CPRI RSOP . Many are in the pipeline, regularly encouraged the EEE team ,nearly 10 projects have been submitted from the department ,paper publication has also been increased.overall students SEE results are improved and placement for PG also.
Consultancy: Initiated many consultancy and training programs from SCGJ, Jal Urja Program, MNRE Irise GEZ etc., supported for green energy activities, Initiated as chief coordinator for Centre for competence smart vidyuth and sustainable solutions has been progressing well with many activities and IRG through Internship. smart lighting , off grid projects etc .A 5 KW PV off grid system is in operation with smart metering project by students in progress .Smart lighting POC is executed.
Conference,Workshops and training Programs: hosted 7th IEEE CSITSS coordinator for solar energy conclave2022, initiated as convener for 4-5 activities under IEEE PES SB as faculty advisor, delivered expert lectures in 6th CSITSS-22 & others, AICTE ATTAL skill based training programs for first year students. Hosted and convener for IQAC special skill training program for EC cluster branches technical staff for 3 months in 2024
PG/UG Newsletter/Monograph/Poster: arranged for UG PG project competitions and released monographs and newsletters and posters and department brochures and conference souvenir, proceedings etc.
Professional Activities: • Senior IEEE member, IFERP professional member and ambassador, life member IE, ISTE faculty advisor for IEEE-RVCE SB many activities are planned and executed . • 7th IEEE CSITSS-2023 Nov 2-4 , General chair , successfully completed with 187 papers presented and submitted for IEEE xplore publication with 76 papers from RVCE and 15 papers from EEE where 8 papers of my authorship with colleagues and PG students, paper presented with research scholar. Awarded best paper in RE track & co-chaired the sessions. • Proctor USC Viterbi school of Engineering DEN & Viterbi USA, California • Travelled abroad, Europe in 2023 for paper presentation in international conferences, chaired the sessions, awarded best paper presenter and resulted in Q2 journal publication. Same in USA in 2019 and London in 2016 as well.

Issued LOR to reputed foreign universities for students to apply, arranged dept alumni meets
Patents : 4(four) patents granted (interdisciplinary with other departments), planning 1 for commercialization including one UK patent
Projects Under COE and COC: initiated for SVSS in line with SDG7 in view of booming EEE adaptable technologies and to have certification and new PG program as per industries requirements. Visited industries, and utility centers, GTTC, MEI, BESCOM, JVS, ARCADIS, IISc and participated in their activities and programs to import the technologies for the centers. Associated for collaboration and MoUs
FDP and Orientation Programs : regularly happens with good feedback Awarded A+ grade certificate from kerala state higher education council for successful participation of FDP on outcome based education and essential AI tools for teachers scoring >90%

12. Publications: More than **220** research papers are published in reputed journals and proceedings

❖ **Google Scholar Citations** (as on 11 dec 2024)

	All	Since 2018
Citations	943	832
h-index	10	07
i10-index	10	06

❖ **Web of science**

449 times cited **432** citing articles **H-index -5** with **13 publications**

❖ **Scopus Citations**

Total citations -273 by **250 documents** **H-index: 7** **Documents by author-48**

List of highly cited papers in Web of Science/Scopus/Google Scholar

❖ **International Journals:**

1. V. Telukunta, J. Pradhan, A. Agrawal, M. Singh and S. G. Srivani, "Protection challenges under bulk penetration of renewable energy resources in power systems: A review," CSEE Journal of Power and Energy Systems, vol. 3, no. 4, pp. 365-379, Dec. 2017, doi: 10.17775/CSEJEPES.2017.00030. **(486 Citations- 22/11/2023) (Q2 Indexed)**
2. M. Singh, T. Vishnuvardhan, S G Srivani, "Adaptive protection coordination scheme for power networks under penetration of distributed energy resources," IET Generation, Transmission & Distribution, vol. 10 (15), pp. 3919-3929, 2016, <https://doi.org/10.1049/iet-gtd.2016.0614>. **(100 Citations- 22/11/2023) (Q1 Indexed)**
3. Manohar Singh, Vishnuvardhan Telukunta, S.G. Srivani, "Enhanced real time coordination of distance and user defined over current relays," International Journal of

- Electrical Power & Energy Systems, vol. 98, pp. 430-441, 2018, <https://doi.org/10.1016/j.ijepes.2017.12.018>. **(38 Citations- 22/11/2023) (Q1 Indexed)**
4. Vaikund, H., Srivani, S.G. Demand response-based cost mitigation strategy in renewable energy connected microgrid using intelligent energy management system. *Electr Eng* (2023). <https://doi.org/10.1007/s00202-023-02034-8>. **(Q1 Indexed)**
 5. Poola Reddi kiran Dr.S.G.Srivani, "Multi output forward converter for space applications," IET Power Electronics Journal, 2013. **(Q1 Indexed)**
 6. Dr. S. G. Srivani, Kiruthika K, H V Sumana, "PMU Data Analysis and Cyber Security in Smart Grid," *Telematique*, vol. 22(1), pp. 2364–2371-2364–2371, 2023.
 7. Krishnan K., Srivani S.G., "Fault detection in an interconnected power system using optimal number of phasor measurement unit," *International Journal of Power Electronics and Drive Systems*, vol. 13(4), pp. 2109-2119, 2022, 10.11591/ijpeds.v13.i4.pp2109-2119.
 8. Vaikund H., Srivani S.G., "Cost mitigation strategy for microgrid using an advanced energy management system with an intelligent controller," *Electric Power Systems Research*, vol. 210, 2022, 10.1016/j.epsr.2022.108116. **(Q1 Indexed)**
 9. Chandrashekhhar P.K., Srivani S.G., "Synchrophasor-Based Online Transient Stability Assessment Using Regression Models," *ECTI Transactions on Electrical Engineering, Electronics, and Communications*, vol. 20(2), pp. 143-151, 2022, 10.37936/ecti-eec.2022202.246763. **(Q3 Indexed)**
 10. Chandrashekhhar P.K., Srivani S.G., "Online Transient Stability Assessment Using Regression Models," *Lecture Notes in Electrical Engineering*, vol. 812, pp. 139-148, 2022, 10.1007/978-981-16-6970-5_12. **(Q3 Indexed)**
 11. Vyas U.B., Shah V.A., Srivani S.G., "Fault detection technique for modified cascaded half-bridge multi-level inverter with polarity changer in PV grid system," *SN Applied Sciences*, vol. 3(5), 2021, 10.1007/s42452-021-04586-5. **(Q2 Indexed)**
 12. Shwetha A and Dr. S G Srivani, "Speed Control Algorithm of PMSM for compressor Load," *International Journal of Advances in Engineering and Management*, vol. 3, Issue No. 7, pp. 219-223, July 2021.
 13. S. R. Jayasimha, J. Usha, and S. G. Srivani Iyengar, "Analysis of Energy Efficient Load Balancing of Virtual Machine in Cloud Environment," *Journal of Computational and Theoretical Nanoscience*, vol. 17, No. 9/10 September/October 2020, pp. 4026–4030, 2020, <https://doi.org/10.1166/jctn.2020.9013>.
 14. Kirthika Devi V.S., Srivani S.G., "A prototype model of an efficient transformerless inverter with DQ controller for grid connected photovoltaic system," *Journal of Green Engineering*, vol. 10(6), pp. 2627-2643, 2020.
 15. Kirthika Devi V.S., Srivani S.G., "Performance analysis of modified incremental conductance algorithm for photovoltaic system," *Journal of Green Engineering*, vol. 10(5), pp. 2304-2322, 2020.
 16. Akkalkot S.I., Srivani S.G., "Dynamic stability analysis using DFIG based windfarm and statcom for the security of the power system," *Journal of Advanced Research in*

- Dynamical and Control Systems, vol. 12, pp. 1865-1876, 2020, 10.5373/JARDCS/V12SP4/20201673.
17. Kiruthika K., Srivani S.G., "Optimal PMU placement using enhanced PSO algorithm," *Journal of Advanced Research in Dynamical and Control Systems*, vol. 12, pp. 1877-1882, 2020, 10.5373/JARDCS/V12SP4/20201674.
 18. PK Chandrashekhar, SG Srivani, "Synchronized Measurements based Online Transient Stability Assessment using Gaussian Process Regression," *Power Research-A Journal of CPRI*, pp. 129-135, 2020.
 19. V S Kirthika Devi and S.G. Srivani "A DQ synchronous reference frame current control for grid connected photo voltaic system using single phase cascaded H bridge multilevel inverter" *International Journal Engineering and advanced technology*, vol. 9, issue 2, Dec 2019, 10.35940/ijeat.B3174.129219.
 20. S.G. Srivani and Yashaswini H N "Architecture of Femto Cell and its Performance Analysis under Load Testing" *International Journal of Electrical, Electronics and Data Communication (IJEEDC)*, ISSN (p):2320-2084, ISSN (e) 2321-2950, vol. 7, Issue-11, Nov 2019.
 21. Yashaswini H N, S.G. Srivani, "Design and Implementation of Interleaved Buck Converter in Network Communication for Femtocell Technology", *International Journal of Emerging Technologies in Engineering Research (IJETER)*, vol. 07, Issue 05, May 2019.
 22. Yashaswini H N, S.G. Srivani, "Performance Analysis of Interleaved Buck Converter for Switching and Conduction Losses for Femtocell Technology", *International Journal of Engineering Research and Technology (IJERT)*, Volume 08, Issue 05, May 2019.
 23. R. O.C, V. S. Kirthika Devi, and .G.Srivani, S., "Performance Analysis of Single Phase Closed Loop System for Cascaded H-Bridge Multilevel Inverter Using Renewable Source", *Journal of Engineering and Applied Sciences*, vol. 13, pp. 1757-1766, 2018.
 24. P. K. Chandrashekhar, S. G. Srivani, S. Shyam Sundar, Rashmi, *Dynamic Stability Enhancement of Power System Using Fuzzy Power System Stabilizer Under Different Loading Conditions*, *Power Research - A Journal of CPRI: Volume 10, Issue 1, March 2014*.
 25. Dr. Srivani S.G P.Reddi Kiran, "Efficient Current Limiting Technique for Voltage Mode Controlled DC-DC Converters," *International Journal of Scientific & Engineering Research*, vol. 4(10), 2013.
 26. S.G. Srivani, "Wavelet-DFT based Hybrid Adaptive Algorithm to Fast Distance relaying in Series Compensated Transmission Lines," *International journal of Electrical Engineering*, vol.11(3), pp.1-9, 2011.
 27. SG Srivani, "An integrated adaptive distance relaying scheme in series compensated transmission lines," *Journal of Electrical Engineering*, vol. 11 (1), 2011.
 28. K.P.Vittal S.G.Srivani, "Integrated Adaptive distance Relaying scheme in series compensated lines," *International journal of Electrical Engineering*, vol. 11(1), pp. 104-112, 2010.

29. Chandrasekhar Reddy Atla S.G. Srivani, K.Panduranga Vittal, "Adaptive vs. Conventional Digital Distance Relay Performance in the Protection of Double Circuit Transmission Lines," *Electrical India*, pp. 76-86, 2010.
30. K.Panduranga vital S.G. Srivani, "Three zone quadrilateral adaptive distance relay for the protection of parallel transmission line with mutual coupling," *International Journal of Electrical Engineering*, vol. 10 (4), pp. 79-88, 2010.

❖ International Conferences (2019-2023):

1. V. S. Kirthika Devi and S. G. Srivani, "Modified phase shifted PWM for cascaded H bridge multilevel inverter," 2017 Third International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB), Chennai, India, 2017, pp. 89-94, doi: 10.1109/AEEICB.2017.7972389. **(34 Citations- 22/11/2023)**
2. S. G. Srivani and K. Panduranga Vittal, "Adaptive distance relaying scheme in series compensated transmission lines," 2010 Joint International Conference on Power Electronics, Drives and Energy Systems & 2010 Power India, New Delhi, India, 2010, pp. 1-7, doi: 10.1109/PEDES.2010.5712452. **(22 Citations- 22/11/2023)**
3. V. S. K. Devi and S. G. Srivani, "Performance assessment of PV energy conversion system with Buck-Boost and Cuk converter for cascaded H-Bridge inverter," 2016 Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy (PESTSE), Bengaluru, India, 2016, pp. 1-6, doi: 10.1109/PESTSE.2016.7516462. **(13 Citations- 22/11/2023)**

❖ Papers presented and publidshed in CSITSS-2023 IEEE Xplore:

4. S.G. Srivani, Pandry Narendra Rao, V Srinivasulu, Bhavana R, Appaneravanda Lochan Appanna, "PV Powered BLDC Motor using Fuzzy logic MPPT controller for Electric vehicle," *7th IEEE Conference CSITSS-2023*, 2023.
5. Swati Patil, S.G. Srivani, Parth Sarathi Panigrahy, "Design and Implementation of Triple Output Flyback Converter for Space Applications," *7th IEEE Conference CSITSS-2023*, 2023.
6. Deepika S, Dinesh M N, S.G. Srivani, "High Power Applications Using a Multi-Stage Soft Switching DC-DC Converter," *7th IEEE Conference CSITSS-2023*, 2023.
7. Sanjana Shirahatti, S.G. Srivani, "Variable Frequency Drive Integration and Validation for Air Compressor," *7th IEEE Conference CSITSS-2023*, 2023.
8. Varshini B, S.G. Srivani, Vandana Jha, "Design and Analysis of Bidirectional DC-DC Converter for Aircraft battery Storage System," *7th IEEE Conference CSITSS-2023*, 2023.
9. Venugopal K B, S.G. Srivani, "Design and Analysis of MOSFET's as Solid-State Relays for Precise AC Load Control," *7th IEEE Conference CSITSS-2023*, 2023.
10. Harini Vaikund, S.G. Srivani, "RB-BTM Controller Based Energy Management System for Managing Power Flows in Residency Microgrid with Low Electricity Bill," *7th IEEE Conference CSITSS-2023*, 2023.

11. S.G. Srivani, Pandry Narendra Rao, Sahana R, Sahana J K, Hema J P, "A Novel High Gain Boost Converter for PV system with Fuzzy logic MPPT controller," *7th IEEE Conference CSITSS-2023*, 2023.
12. S.G. Srivani, Prajwal V S, Neha T R, Manoj C, V Srinivasulu, "Intelligent Grid Interfaced Solar Hydro Fuzzy Pump system using MPPT," *7th IEEE Conference CSITSS-2023*, 2023.

❖ **List of highly cited conference papers**

13. C. P K and S. G. Srivani, "Wide Area Based Online Transient Stability Prediction Using Regression Model," 2022 IEEE 7th International Conference on Recent Advances and Innovations in Engineering (ICRAIE), MANGALORE, India, 2022, pp. 433-437, doi: 10.1109/ICRAIE56454.2022.10054249.
14. Chandrashekhara P.K., Srivani S.G., "An Accelerating Power-Based Approach for Transient Stability Assessment," *Lecture Notes in Electrical Engineering*, vol. 750, pp. 447-454, 2021, 10.1007/978-981-16-0336-5_37.
15. Vaikund H., Srivani S.G., "Trends in Energy Management System for Smart Microgrid—An Overview," *Lecture Notes in Electrical Engineering*, vol. 703, pp. 15-28, 2021, 10.1007/978-981-15-8391-9_2.
16. Srivani S.G., Suresha C., Theertha K.N.S.V., Chandan D., "Adaptive Protection Scheme for Renewable Integrated Microgrid—A Case Study," *Smart Innovation, Systems and Technologies*, vol. 195, pp. 545-554, 2021, 10.1007/978-981-15-7078-0_53.
17. Yashaswini H N, Dr S G Srivani, "Performance Analysis of Load testing by using Femtocell technology" organized by Academics world, International Academic Conference on Engineering Technology Innovation (IACETI) - on 17th - 18th July 2019 at Las Vegas, USA.
18. Yashaswini H N, Dr S G Srivani, "Performance Analysis of Flux Additive DC-DC Converter for Electric Vehicle Application", International Conference on Applied Science Engineering & Technology ICASET -19, May 2nd - 3rd, 2019.
19. S. R. Jayasimha, J. Usha and S. G. Srivani, "Efficient Power Management using Fuzzy Logic for Cloud Computing Environment," 2018 3rd International Conference on Computational Systems and Information Technology for Sustainable Solutions (CSITSS), Bengaluru, India, 2018, pp. 35-40, doi: 10.1109/CSITSS.2018.8768764.
20. Usha, J., Jayasimha, S.R., Srivani, S.G. (2018). Automata Approach to Reduce Power Consumption in Smart Grid Cloud Data Center. In: Nagabhushan, T., Aradhya, V.N.M., Jagadeesh, P., Shukla, S., M.L., C. (eds) *Cognitive Computing and Information Processing. CCIP 2017. Communications in Computer and Information Science*, vol 801. Springer, Singapore. https://doi.org/10.1007/978-981-10-9059-2_23.
21. S. G. Srivani and U. B. Vyas, "Fault detection of switches in multilevel inverter using wavelet and neural network," 2017 7th International Conference on Power Systems (ICPS), Pune, India, 2017, pp. 151-156, doi: 10.1109/ICPES.2017.8387284.

22. S. R. Jayasimha, J. Usha and S. G. Srivani, "Minimizing Power Consumption and Improve the Quality of Service in the Data Center," *Indian Journal of Science and Technology*, Vol 9(43), DOI: 10.17485/ijst/2016/v9i43/104388, November 2016.
23. Gowrishankara C K, A. J. Gowda and S. G. Srivani, "Improvements on spacecraft power regulators," 2016 Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy (PESTSE), Bengaluru, India, 2016, pp. 1-6, doi: 10.1109/PESTSE.2016.7516460.
24. Chandrashekhar P K and S. G. Srivani, "A hybrid method for Critical Clearing Time evaluation of multi-machine systems," 2015 IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT), Coimbatore, India, 2015, pp. 1-7, doi: 10.1109/ICECCT.2015.7225947.
25. Loksha M H and S. G. Srivani, "LLC resonant converter design and development," 2014 Annual IEEE India Conference (INDICON), Pune, India, 2014, pp. 1-5, doi: 10.1109/INDICON.2014.7030386.
26. S. G. Srivani and T. T. Nisha, "Estimation of fault location algorithm in series compensated FACT systems," 2012 IEEE Fifth Power India Conference, Murthal, India, 2012, pp. 1-5, doi: 10.1109/PowerI.2012.6479496.
27. S. G. Srivani, V. K. Panduranga and C. R. Atla, "Development of three zone quadrilateral adaptive distance relay for the protection of parallel transmission line," 2009 IEEE International Conference on Industrial Technology, Churchill, VIC, Australia, 2009, pp. 1-6, doi: 10.1109/ICIT.2009.4939541.
28. S.G. Srivani and K. Panduranga Vittal, "Hybrid Adaptive Algorithm to Fast Distance Relaying," *International Journal of Recent Trends in Engineering*, Vol. 1, No.1, May 2009.
29. S.G. Srivani, Chandrasekhar Reddy Atla, K.P.Vittal, "Comparative Evaluation of Adaptive and Conventional Distance Relay for Parallel Transmission Line with Mutual Coupling," *World Academy of Science, Engineering and Technology*, vol. 18, 2008.
30. S. G. Srivani and K. P. Vittal, "On Line Fault Detection and an Adaptive Algorithm to Fast Distance Relaying," 2008 Joint International Conference on Power System Technology and IEEE Power India Conference, New Delhi, India, 2008, pp. 1-7, doi: 10.1109/ICPST.2008.4745350.

❖ **Books Published /Chapters contributed**

1. Chandrashekhar P.K., Srivani S.G., "An Accelerating Power-Based Approach for Transient Stability Assessment," *Lecture Notes in Electrical Engineering*, vol. 750, pp. 447-454, 2021, 10.1007/978-981-16-0336-5_37.
2. Dr.S G Srivani "Adaptive Protection Scheme for Renewable Integrated Microgrid—A Case Study, "published in The book *Information and Communication Technology for Intelligent Systems* ,been published in electronic and print format, Springer publications, Nov, 2020.
3. "Design and use of virtualization technology in cloud computing", A chapter published by Interline publishers along with my research scholar.

4. A Journal paper on” Adaptive Distance relay for parallel transmission lines “is published in word press.com.
5. Research paper on relaying algorithm with wavelets and DFT is Cited in ACTA press
Research paper on EVs published in UGC journal.

13. Funded Projects:

SI No.	Project Title	Funding Agency	Grant (Rs.)	PI, Co PI(s)	Status	Year of Sanction
1	Solar based Motorized fruit and Vegetable Harvesting Device.	FINP- INAE - NIAS	1,85,000 + GST	PI: Dr. S.G. Srivani Co PI: Dr. Madhu B.R.	Completed (2023)	2022
2	Solar based mini Air Cooler cum Mosquito trap.	FINP- INAE - NIAS	2,19,000 + GST	PI: Dr. S.G. Srivani Co PI: Dr. Adinath Jain	Completed (2023)	2022
3	Solar Ironing Cart	FINP- INAE - NIAS	1,05,000+ GST	PI: Dr. S G Srivani	Completed (2022)	2021
4	Field Oriented Control (FOC)based BLDC/Stepper motor Drive Electronics	ISRO	22,18,112/-	PI: Dr. S.G. Srivani Co-PI: Dr. Abhilash Krishna Co-PI: Dr. Narendra Rao	Yet to commence	2024
	Atmospheric Water Well Generator	Greeneria Pvt Ltd	9,00,000	Co PI: Dr. S G Srivani	On going	2024
	Total amount		31,18,112 /-			

● Funded Students projects:

SI No.	Project Title	Funding Agency	Grant (Rs.)	PI, Co PI(s)	Status	Year of Sanction
1	IoT based Solar ironing cart	IFERP – Innovative Project Seed Funding	7,000	PI: Dr. S G Srivani	Completed	2021 - 22
2	Modelling and Implementation of a Low Cost CAN Enabled Flex-Fuel Sensor	KSCST student project programme	6,000	PI: Dr. Vandana Jha Co PI: Dr. S G Srivani	On going	2022 - 23
	Total amount		13,000/-			

Sponsored Research/Consultancy Projects submitted for approval:

S.No.	Title	Funding Agency	Duration	Amount
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1.	Modular ,high power density fault tolerant efficient controller for EV motors	ANRF SERB	3 years	60 lakhs
2.	"Empowering SC-ST Rural community by integrated Bio Methanation and Solar System for Sustainable Energy, Pumping Solutions and Bio gas Generation for Community Cooking."	DST, Dated: 21 Nov 2023	3 years	4.5 Crores
3.	Design and Development of Advanced Metering Infrastructure (AMI) for a 5 KW PV Microgrid System	RSOP, CPRI Bangalore, Dated: June 2023	2 years	39.4 Lakhs
4	Development of twin biogas digesters for production of electricity from Kitchen waste	Technology Development Transfer, Dated: July 2023	2 years	21.3 Lakhs

14. Consultancy and Training Programs:

Sl No.	Project Title	Funding Agency	Amount (Rs.)	Period	PI, Co PI(s)
1	Design of MPPT Charge Controller of 400V DC/25 A rated capacity	SMPS Electric Control Private Limited, Odisha	25,000	2023-23	PI: Dr.S G Srivani Co PI: Dr. P Narendra Rao Dr. Abhilash Krishna D G Dr. Parth Sarathy Panigrahy
2	Jal Urja Mitra Skill Development Program	MNRE, IIT Roorkee	19,72,000	2022 - 23	Dr. S.G. Srivani Dr. Madhu B.R Dr. Adinath Jain Dr. Lokeshwari M (CV Dept)
3	i-RISE Suryamitra Upskilling program	MNRE-RENAC /GIZ - NISE	9,82,000	2020 - 21	Dr. S.G. Srivani Dr. Madhu B.R Dr. Adinath Jain
4	Internship	Center for Smart Vidyuth & Sustainable Solution	21,476	2022-23	Dr. S G Srivani Mrs. Sushmita Sarkar
5	Internship	Center for Smart Vidyuth & Sustainable Solution	21,366	2023-24	Dr. S G Srivani Dr.JN Hemalatha Dr.C Sunanda
	Total amount		30,21842/- -		

15. Other Grants:

Sl No.	Project Title	Funding Agency	Amount (Rs.)	PI, Co PI(s)	Status	Year of Sanction
1	IEEE PES S.B	IEEE PES	10,000	PI: Dr.S G Srivani	Completed	2023
2	IEEE PES S.B	IEEE PES	15,000	PI: Dr.S G Srivani	Completed (2023)	2022
3	Advanced Electrical Vehicles	AICTE-S TTP	3,23,333	PI: Dr.S G Srivani	Completed (2021)	2021
4	Travel grants	UGC	1,84,000	PI: Dr.S G Srivani	Completed (2019)	2019
5	Travel grants	RVCE	2,29,000	PI: Dr.S G Srivani	Completed (2023)	2023
6	Travel Grants	TEQIP, RVCE	1,74,000	PI: Dr.S G Srivani	Completed (2016)	2016

16. Patents:

Sl. No.	Title	Inventors	Patent Number/Year	Status
1	Battery Thermal Management Device For Electric Vehicles	Srivani Sankhighatta Garudachar, Dr. Hemalatha Jeekanahalli Nanjappa, Dr. Mahesh Ramakrishna, Dr. Nandeesh Kumar , Dr. Adinath Jain , Dr. Bhagya Ramachandra, Dr. Sunanda Chennaiah	Design number: 6384687 Year: 2024 UK Design	Granted
2	Piezoelectric Vibration Energy Harvesting Device	Dr. S G Srivani Dr. Adinath Jain Dr. J. N. Hemalatha Mrs. Sunanda C Dr. R. Mahesh Dr. C. Nandeesh Kumar	384557-001/ 2023	Granted
3	Solar Inverter	Dr. S G Srivani, Dr. Hemalatha, Dr. Adinath Jain, Mrs. C. Sunanda	364441-001/ 2022	Granted

	Cell Phone Jammer	Dr. Jayanthi P N Dr. Usha Rani K R Dr. Srivani S G Dr. Madhu B R	365452-001/ 2023	Granted
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17. Conferences /FDP/ Training Programs Organized 2019 -23 as chief coordinator(>21 programs) few listed

<u>Sl no</u>	<u>Programs</u>
1.	7 th IEEE CSITSS -2023 –General chair
2.	One week workshop on embedded systems convenor in association with IIT varanasi
3.	8 th IEEE CSITSS -2024 ,organising committee member
4.	Organized 2024 engineers day with 7 industry and NGO association
5.	AICTE sponsored STTP -3 week virtual in 3 phases
6.	IEEE AND RVCE EEE and EC departments: Application of AI and ML in Power and Electronics: One week FDP (21 -25 Sep 2021)
7.	IEEE PES -RVCE SB – 5 virtual programs, as faculty in-charge
8.	Started I-RISE (SCGJ /RENAC /GIZ) training program as head of the team
9.	Organized project poster competition for PG PE and released Monograph
10.	Industry conclave from IEEE-SB
11.	Organized technical talk on Power Electronics Hardware on 12.02.2020
12.	Organized workshop on Power electronics for photovoltaic Grid Interface application on 30.06.2021
13.	CI tools in MATLAB on 12.05.2022
14.	Embedded Systems and Applications in Power Electronics on 27.10.2022-29.10.2022
15.	Conceptual, Effective and Skill based Learning in Basics of Electrical Engineering on 22.9.2022-24.9.2022

18. Conferences /FDP/ Training Programs attended 2019 -23 as (>30 programs) few listed

<u>Sl. No.</u>	<u>Title</u>	<u>Date Attended/Duration</u>
1.	National Level Online FDP on Outcome Based Education & Essential AI tools for Teachers organized by IQAC of Carmel College (Autonomous), Mala in association with The Kerala State Higher Education Council (KSHEC)	10/8/2023 to 18/08/2023, awarded A+ grade

2.	Technical Institutions Meet - 2023-GTTC, Centre of Excellence, Dr. Ambedkar Bhavan, GTTC, Rajajinagar, Bengaluru	22/08/2023
3.	Y20 Panel Discussion on the theme; Climate Change and Disaster Risk Reduction: Making Sustainability a Way of Life, IISc	12/08/2023
4.	Member of “Training Advisory Committee”, The Mysore Electrical Industries Limited	07/09/2023
5.	ieeeforum Conference and Member’s Meeting (International Conference on Computer Science, Industrial Electronics (ICCSIE-2023)), Geneva, Switzerland	24th June 2023
6.	International Conference on Recent Advance in Engineering and Technology (ICRAET 2023), Paris, France	27th June 2023
7.	IUCEE Course on Engineering Ethics	90 days, awarded A+ grade
8.	AICTE FDP on AI techniques in power systems –one week FDP	2.8.2021 – 7.8.2021
9.	UHV Refresher	15.02.2021 – 19.02.2021
10	2 days workshop on digital solutions for D G maintenance and operations organised by IIPE ,Bangalore	22-23 august 2024
11	Schneider innovation day	19 th august 2024

19. External professional connect, participation and rewards (few examples)

- ☐ Participated and organised IEEE PES activities regularly as faculty advisor
- ☐ International conferences/IEEE/Springer technical committee member, session chair and reviewer.
- ☐ Participated in many webinars (more than 30) related to NEP, Related to micro-grid and renewable energy, automation robotics etc by USAID, USAE, BCCI and others.
- ☐ Attended AICTE –STTP, UHV 1 and UHV 2
- ☐ Constantly received Substantially Exceeded expectations from RVCE PRISM appraisal from RSST secretary
- ☐ Committee member for MONAK project scrutiny by GOI
- ☐ Proctor at global level UAC USA, WASET and professional ambassador IFERP
- ☐ BOS and BOE member of MIT, VIT Vellore, MSRIT, NIE, CPRI, Jain Research centre MVJCE
- ☐ Reviewer for many reputed international reputed journals and conferences
- ☐ Delivered expert talks in industries and colleges in ATAL FDPs and training programs in JVS, Venson, Psim, CPRI, SIT, Kerala Federal university, SIT, MVJCE, PESIT shimoga etc.
- ☐ PhD DC member and thesis evaluator of many universities like VIT vellore, MIT, MAHE, JAIN, VTU etc.
- ☐ Expert committee jury member of NIF, New Delhi

❖ **courses and labs taught** (few mentioned)

❖ **PG-Mtech in power electronics**

- Hybrid electric vehicles
- EV HEV –Design and architecture
- Modelling and simulation of power electronics circuits
- IOT in smart grids
- Intelligent control techniques in drives
- Communication systems and networking
- Advanced control systems ,

❖ **UG –BE in EEE(more than 35)**

Most of the courses in the department verticals –:machines ,control systems ,power and energy systems and protection ,smart grids ,fuzzy logic and ANN, electric drives etc

❖ **Strategic plan for the department growth: structured the road map**

