

Faculty Profile

Name: Dr. P. Srividya Devi

About me:

Dr. P. Srividya Devi, completed her Ph.D. in Power Systems from Andhra University. She had overall experience of 13 years in teaching. The aim of teaching is simple: “it is to make student learning possible...To teach is an assumption about what and how the student learns; therefore, to teach well implies self-learning continuously and about students' learning”. As a teacher works to educate students in academic subject and research areas. As a teacher she helps students learn life skills such as teamwork, following rules, and responsibility. She had published various Research papers in various National Journals and Conferences. She attended and organized numerous workshops conducted by NMEICT and IITB, IITK etc. she has a good understanding of the vertical articulation within her content area. She started implementing most effective strategies to teach various curricular topics using the ICT tools that she has learned and performed as a Mentor for various faculties across India for a program called “Foundation of an ICT program” conducted by IIT Bombay. As a lab in-charge, always try for the more innovative way to improve the lab curriculum and encourage the students for novel projects. Not only technically updating herself by attending the workshop and conferences (online and offline) but publishing technical papers in every academic year. She is CLAD (Certified LabVIEW Associate Developer) certified by National Instruments. Moving on to her secondary duties not technical but also to the non-technical, she is B. Tech NBA coordinator and supporting, department Budget Coordinator, Mentoring students for their improvement in academic performance etc. Thus, upgrading herself to the trend and setting her performance according to the standards and criteria of an academicians. Her areas of interests are Power Systems, Network Analysis and Fuzzy Systems, IoT, Artificial Intelligence etc.

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Courses Taught: NT, CS, EM-I, EM-II, PS-I, PS-II, SGP, PSOC, AI, SCT, HVE, EDS, SWE, NCSE, BEE, S&T, EMI

Sponsored Projects:

Consultancy Project: “AI and IoT based Prediction analytics on testing data of Rotating Machinery faults under different conditions” for Ample Auto Tech Pvt. Ltd (Grant of Rs 4.5Lakh/year for 5years)

Publications:

Research Profiles

https://scholar.google.com/citations?user=AKoGx_cAAAAJ&hl=en

<https://www.scopus.com/authid/detail.uri?authorId=57205427815>

Journal Publications:17

1. Jayahari, L., Hussaini, S.M., Varmaa, D., Srividya Devi, P. “Predictive study of Inconel718 mechanical properties at sub-zero temperatures” Advances in Materials and Processing Technologies 6:2, 285-295 March 2020 (ESCI). citations-2
2. P Srividya Devi, Rekha M, G. Sandya Rani, M.N. Sandya Rani, J. Sridevi “Intelligent Multi-verse-based Fuzzy optimization for LFC model” International Journal of Advanced Science and Technology, May2020
3. M.Karthika, P. Sirisha, U. Vijayalakshmi, P. Srividya Devi “Dynamic Machine Modelling and performance of Three Phase Induction Motor using MATLAB/SIMULINK” Test Engineering and Management, May 2020.
4. Nutakki, M., Palakaluri, S.V.D., Vijaya Santhi, R. “Effect of different communication delay latencies on LMI based load frequency control model” International Journal of Innovative Technology and Exploring Engineering Sep 2019(Scopus).
5. P. Srividya Devi V.V.S. Madhuri “Energy Monitoring and Routing for Impending Challenges in SMART GRID” International Journal of Recent

Technology and Engineering (IJRTE), Vol 8 Issue 2 pp 5094-5097 July 2019(Scopus).

6. Sri Vidya Devi Palakaluri Vishal Kumar Singh, Koduru Sriranga Suprabhath, Mounica Nutakki, Jami Sridevi “Solar Powered Dtmf Controlled Robot over Skype and Its Applications in Various Fields”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol 8, Issue 8 pp 1715-1719 June 2019.
7. L Hari Krishna, P.Sri Vidya Devi, R. Vijaya Santhi “Optimization of Load Frequency with Inertia Based Wind Farm Control” International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume- 8 Issue-4, April 2019(Scopus).
8. U.Vijaya Lakshmi, P.Srividya Devi “Learning by Doing Automation using different sensors in Regular Laboratory” Journal of Emerging Technologies and Innovative Research , Volume 6, Issue 5 pp 110-118 May 2019(UGC Publication).
9. P.Srividya Devi,R.Vijaya santhi “Implementation of fuzzy-PID controller with demand response control to LFC model in real-time using LabVIEW” International Journal of Fuzzy Computation and Modelling Inderscience Publishers Volume 2, Issue 4 pp. 286–302 2019(Free Journal).
- 10.Kandukuri Abhishek, P.Sri Vidya Devi, “Optimization of Load Frequency with Nature inspired algorithm” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN 2278-3075, Volume-9 Issue-1, November 2019(Scopus).
- 11.P.Srividya Devi,R.Vijaya santhi “Introducing LQR-fuzzy for a dynamic multi area LFC-DR model” International Journal of Electrical and Computer Engineering (IJECE) IAES Publishers Vol. 9, No. 2, pp. 861~874 April 2019(Scopus).
- 12.P.Srividya Devi, R Vijaya Santhi, “Design of Robust Decentralized Deregulated Fuzzy LFC DR Model for a n Interconnected Power System” International Journal of Engineering & Technology(UAE) Volume 7, No 4 ,pp 6703-6710 (2018) (Scopus).
- 13.U.Vijaya Lakshmi, P.Srividya Devi “Sensors and its Applications in Academia for effective learning by doing (LBD)” International Journal of Scientific Research and Review Volume 7 issue 2 pp 206-216, ISSN NO: 2279-543X UGC APPROVED JOURNAL Serial No. 64650 Feb 2018..

14. U. Vijaya Lakshmi, P. Srividya Devi "Sensors and its Smart applications" International Journal of Scientific Engineering and Research Volume 5 issue 4 April 2017.
15. P. Srividya Devi, Dr. R. Vijaya Santhi, Dr. D. V. Pushpalatha, "Introducing LQR-Fuzzy Technique with Dynamic Demand Response Control Loop to Load Frequency Control Model" International Federation of Automatic Control (IFAC-Elsevier) volume 49, Issue 1, pp 567-572 (2016) (Web of Science).
16. Srividya Devi P, Pushpalatha D. V. and Sharma P. M. "Measurement of Power and Energy Using Arduino" Research Journal of Engineering Sciences ICSA ISSN 2278-9472, Vol. 2(10), 10-15, October (2013) citations: 30.
17. Srividya Devi P, G. Sreenivas "Novel Implementation Of Pspice Modeling For Reliability Analysis Of Distribution Systems" VOL 6...NO 2 ..IN SEPT 2010 JOURNAL pp 167-176.

Conference Publications: 7

1. P. Srividya Devi, Dr. R. Vijaya Santhi, "The effect of communication delay latency for an intelligent Multi area LFC-DR model" IEEE-EECCMC Jan 2018 Vellore.
2. P. Srividya Devi, Dr. R. Vijaya Santhi, "Impact of Internet of Things using LFC-DR for frequency control" ICRIEEE- IJETAE Volume 7 Issue 1 pp 103-108, UGC APPROVED JOURNAL Serial No. 44256 Dec-2017.
3. D. V. Pushpalatha, P. Srividya Devi, M. Rekha "IoT Based Security application using Raspberry Pi", International Conference on Soft Computing, Intelligent Systems and Applications, Springer Advances in Intelligent Systems and Computing Series,, April 8-9, 2016, Bangalore.
4. Dr. D. V. Pushpalatha, P. Srividya Devi "Internet of things Embedded with Raspberry pi and Arduino" IDCEME .Hyderabad, August 2015.
5. P. Srividya Devi, P. Sirisha, Dr. D. V. Pushpalatha "Design of Line following Robot using Arduino" National conference on Contemporary Control (ConCon), Andhra University Vishakhapatnam, Nov 2014.
6. Dr. D. V. Pushpalatha, P. Srividya Devi, R. Vijaya Santhi "Speed Control of DC Motor using Arduino "National conference on Contemporary Control (ConCon)), Andhra University Vishakhapatnam, Nov 2014.
7. P. Sirisha, P. Srividya Devi, Dr. D. V. Pushpalatha "Ultrasonic RADAR system using Arduino" National conference on Contemporary Control (ConCon)), Andhra University Vishakhapatnam, Nov 2014.

Research Interest: Power Systems, Smart GRID, Frequency Regulation, IoT, Artificial Intelligence, Machine Learning, Fuzzy Logic systems.

Seminars/Workshops Attended:

1. Attended AICTE Training and Learning Academy (ATAL) Faculty Development Program (FDP) on Internet of Things, ATAL from 21-09-2020 to 25-09-2020
2. Attended a 10 Days Online FDP on “Research Opportunities in Electrical Engineering” organized by Department of EEE, Government College of Engineering, Arad UP, NPIU and TEQIP-III, held on 7th-16th May-2020.
3. Attended a One-week online FDP on “FDP on Recent Trends in Microgrid Technologies” organized by Department of EEE, Vignan Institute of Technology and Science, held on 6th-11th July-2020.
4. One-week Online FDP on “NBA and NAAC Accreditation Process” Conducted by IQAC M.S Ramaiah Institute of Technology under AICTE MARGDARSHAN Scheme from 4th to 8th JUNE 2020
5. one-week FDP on “AI, Machine Learning, IOT & Big Data Applications in Power Electronics, and its Allied Areas”, 1-6 June 2020
6. One-week ONLINE AICTE MARGDARSHAN FDP on “Art of Writing Papers and Research Methodologies” conducted by GRIET during 07 - 13 May 2020.
7. One-week Online FDP on “Research Challenges and Opportunities Post COVID-19 (RECOP 2020)” organized by Research & Development Cell and Institution’s Innovation Council of Sri Vasavi Engineering College (Autonomous) during 4-9 May 2020.
8. Two-day workshop on “Online Tools & Software for Remote Teaching - Learning” conducted by JNTUH held during 24 to 25th of April 2020
9. Attended One-week Online FDP on SCILAB an open source substitute for MATLAB, JNTU College of Engineering, Sultanpur 25-05-2020 to 30-05-2020
10. Two-week course on Digital Transformation in Teaching and Learning Process by IIT Bombay, NPIU and TEQIP-III from 2020-01-17 to 2020-02-7
11. Attended AICTE Training and Learning Academy (ATAL) Faculty Development Program (FDP) on Artificial Intelligence, ATAL from 17-11-2019 to 23-11-2019
12. FDP on “Measurement and Control for Industrial Automation” conducted by NITTTR Kolkata from 2019-03-11 to 2019-03-15

13. Participated One Day Workshop on eSim, a First Course in the IoT Series for Teachers by IIT Bombay (A-View), GRIET on 21-09-2019
14. Attended a Workshop on “Getting started with Raspberry PI, OPEN CV and Machine Learning” organized by Center of Excellence Embedded system ECE Dept, GRIET, held on June 11th, 2018.
15. A Two-day workshop on “Smart and Green Technologies on Sustainable energy systems” conducted by KL University Vijayawada 19th Dec to 20th Dec 2017.
16. A One-day Microsoft Education Workshop on Flip Your Class conducted by Microsoft on 7th December 2017 at Microsoft organization, Gachibowli, Hyderabad.
17. A Two-day workshop on “Smart Power Technologies” conducted by Andhra University on 24th and 25th October 2017 Vishakhapatnam
18. A Three-day workshop on Smart Homes Measurements Grids using IoT conducted by GRIET from 10th to 12th October 2017.
19. A Two-week ISTE STTP workshop on Electrical Power System conducted by IIT Kharagpur from 12th June to 15th July 2017, attended at remote center, GRIET, Hyderabad.
20. A Four-week FDP on Use of ICT in Education for Online and Blended learning conducted by IIT Bombay from May 2nd to July 10th, 2016, attended at remote center, GRIET, Hyderabad.
21. A Two-day workshop on Introduction to Machine learning conducted by IIT Kharagpur from 16th Dec to 17th Dec 2017, attended at remote center, GRIET, Hyderabad
22. A one-week workshop on NI LABVIEW Core-1 and Core 2 from 4th Jan to 8th Jan 2016
23. A Two-week FDP on Open Source Software through TEL by spoken tutorials from 06th Sep to 17th Sep 2016, attended at remote center, GRIET, Hyderabad.
24. A Two-week ISTE STTP workshop on Technical Communication conducted by IIT Bombay from 8th October to 5th December 2015, attended at remote center, GRIET, Hyderabad.
25. Two-day workshop on “TI C2000 MCU for Real –Time control Applications” on 11th & 12th August 2015
26. Three-day workshop on “Computer Applications to Power Systems using MI-Power” from 18th to 20th March 2015 at JNTUH College of Engineering, Hyderabad

27. Training Program on “Simulations of Raspberry Pi with Wireless Sensor Network”, 2nd -3rd March 2015, GRIET, Hyderabad.
28. Faculty Development Programme on “Guide to a Passionate Teacher” ,29th June to 4th July 2015. GRIET Hyderabad
29. Two-week workshop on Fluid Mechanics, National Mission on Education through ICT (MHRD, Govt of India, 20th May 2014 to 30th May 2014, IIT Kharagpur attended at remote center, GRIET, Hyderabad.
30. Two-week workshop on Signals and Systems, National Mission on Education through ICT (MHRD, Govt of India, Jan 2nd, 2014 to Jan 12th, 2014, IIT Kharagpur attended at remote center, GRIET, Hyderabad.
31. Two-week Workshop on Analog Electronics, National Mission on Education through ICT (MHRD, Govt. of India), June 4th, 2013 to June 14th, 2013,
32. One day workshop on “SMART GRID TECHNOLOGY” on 9th Feb 2013 conducted by EEE Dept GRIET, Hyderabad.
33. A Two-day ISTE workshop conducted by IIT BOMBAY organized at GRIET, Hyderabad on “AAKASH for Education”, 10th, 11th November 2012.

Workshops /FDP Conducted:

1. AICTE-STTP Phase – 1 and Phase – 2 on “Automation Technologies for a Sustainable Future Transportation” from 07-09-2020 to 12-09-2020 and from 05-10-2020 to 10-10-2020.
2. Co-Ordinator for National Level Technical Quiz on “Applications of IoT in Power Systems” in May 2020
3. Organized and Received Certificate of Appreciation from IIT Kharagpur as a Teaching Assistant for the Control Systems Workshop and GRIET as Remote Center in Dec 2014

Awards/Achievements:

- Received SAP award and Rs 5,000/- cash prize in Four-week AICTE approved FDP by IIT Bombay on Use of ICT in Education for Online and Blended Learning, 2nd May, 2016 to 10th August 2016

- Got the Top Performer Award (stood 5th position National level:98.5%) for FDP on “Mentoring Educators in Educational Technology (301x)” organized by IIT Bombay, held during 17.05.2018 to 05.07.2018.
- Certified LabVIEW Associate developer (CLAD), from National Instruments, USA serial number 100-316-11678, issue date 25/3/2016. a member of a strong and growing community of LabVIEW developers spanning the globe.
- Received Honor Code International certificate in LFS101x.2: Introduction to Linux from Linux Foundation with 97% through edX.
- Received Certificate of Appreciation and cash award from IIT Bombay for mentoring 39 Faculty (across India) on Use of ICT in Education for two FDP Conducted in GRIET.
- Received Certificate from Delft University for the program of Electrical Vehicles Part-I in June 2019

Coursera and Microsoft Educator Center Certificates

- Various Coursera Certifications done: Electric Power Systems, Electric Utilities Fundamentals and Future, AI for Everyone, Data Science Math Skills, Getting Started with AWS Machine Learning, Spread sheets for beginners using Google Sheets, Industrial IoT on Google cloud platform, Cloud Computing, Introduction to Power Electronics.
- Achieved Certificate Of course Completion from Microsoft Educator Center for the following Courses: Digital Citizenship, Deploying Cloud Ready Classroom PC's, 21st century learning design: Course - use of ICT for learning

Invited Talks:

Invited and nominated as distinguished Expert Lecture in the subject area of “Mechatronics” for the students of semester-VI of BFT, Department of Fashion Technology, National Institute of Fashion Technology – Hyderabad.