Faculty Profile

Name : Dr. Pavithra D R

Date of Birth : 15-05-1981

Educational Qualification : BE, M.Tech, Ph.D

Designation : Assistant Professor, E&CE Dept.

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Dr. Pavithra D R
Assistant Professor
Department of Electronics and communication Engg
Sri Jayachamarajendra College of Engineering,
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: *(Residence)*
Dr. Pavithra D R, w/o Shivashankar S, 'SANNIDHI'
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Roopa Nagar, Mysuru – 570 026.
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Education Details

Degree	Discipline/ Specialization	School/college	Board/ University	Year of passing	Grade/ Percentage
Ph.D	Image Signal Processing	SJCE, Mysuru	Visveswaraya Technical University	2024	Awarded
M.Tech	Computer Network Engineering	NIE, Mysore	Visveswaraya Technical University	2010	A grade
B E	Electronics & Communications Engineering	SJCE, Mysore	Visveswaraya Technical University	2004	65%
Diploma	Electronics & Communications Engineering	JSS Polytechnic for women	Board of Technical Education	1999	55%
SSLC	English medium	JSS High School for Girls	KSEEB	1996	81.6%

Professional Experience:

1. Working as an Assistant Professor at SJCE, Mysore from 5th Sept-2011 to till date
2. Worked as a lecturer in the Department of Electronics & Communication Engineering, JSS Academy of technical education, Bangalore from 7th May-2007 to 3rd Sep-2011
3. Worked as Warden for JSSATE women hostel, Bangalore from 2009 to 2011
4. Worked as a lecturer in the Department of Electronics & Communication, JSS PDA, Mysore from 7th Aug-2004 to 6th May 2007.

Recognitions/Awards/Appreciations

1. Served as Track Chair for the international Conference on Emerging Technologies in Electronics and Green Energy (ICETEG 2025) held at JSS STU, Myuru during 10th and 11th October 2025
2. Certificate of appreciation for conducting one week ATAL FDP on "Nano materials for real time Applications" at JSSSTU, from 5th to 9th Jan 2025 funded by ATAL with the amount of Rs. 1,00,000/-
3. Presented a paper titled "A Method for Predicting Cardiovascular Disorders using Machine Learning Techniques " in the International Conference on Recent Advances in Science and Engineering Technology (ICRASET-2024) in association with IEEE Bangalore Section**,** organized by BGSIT, Adichunchanagiri University, B.G. Nagara – 571448, Mandya, during 21st–22nd November 2024**.**
4. Served as a reviewer for the "First International Conference on Intelligent Computing and Communication Systems (CICCS-2025)" held on 18–20 September 2025 at JSS Academy of Technical Education, Bengaluru, in collaboration with the Indian Institute of Technology Guwahati, with technical co-sponsorship from the IEEE Bangalore Section.
5. Letter of appreciation for quoting best quote on QUOT-A-THON with a theme on women safety conducted by IQAC JSSSTU -2024
6. Coordinator for HACKTHON conducted by ECE department in 2026
7. Session Chaired for International Conference on Adaptive Technologies in engineering and sciences, organised by Govt Engineering College, K R pet, Mandya, 2024
8. Session Chaired for 4th edition of IEEE subsection Flagship International Conference (Mysurucon) – 2024 organized at VVIET on 30th to 31st August 2024, Mysuru
9. Worked as Session chair and coordinator for IEEE MysuruCon 2024 4nd Edition of the Flagship International Conference series of IEEE Mysuru Subsection in association with IEEE Bangalore sub section hosted at VVIET, Mysuru
10. Worked as Session chair and coordinator for IEEE MysuruCon 2022 2nd Edition of the Flagship International Conference series of IEEE Mysuru Subsection in association with IEEE Bangalore sub section hosted at JSS STU on .
11. Worked in organizing committee of IEEE MysuruCon 2022 2nd Edition of the Flagship International Conference series of IEEE Mysuru Subsection in association with IEEE

Bangalore subsection hosted at JSS STU

12. Presented paper entitled Representation and Compression of Skin Cancer Images using HAAR Wavelets in IEEE MysuruCon 2022 – 2nd Edition of the Flagship International Conference Series of IEEE Mysore Subsection in association with IEEE Bangalore Section hosted by JSS STU during 16th & 17th October 2022.
13. Received appreciation letter from Principal SJCE, for coordinating Induction program for Ist year students at SJCE, Mysore in the year 2021
14. Successfully completed Fundamentals of Network Communication **,** an online non-credit course authorized by the University of Colorado System and offered through Coursera in 2020
15. completed NPTEL online certificate program on 'Digital Circuits' during 2020
16. Received a token of appreciation from Texas Instruments, Bengaluru for Mentoring Projects of Texas instruments innovation challenge Indian Design Contest-2015
17. Successfully Completed a Workshop On 'High Impact Teaching Skills' **a**ttested by Dale Carnegie & Associates, Inc. Trainer and Wipro on 14th & 15th Of December 2009.

List of Journal Publications

1. Pavithra D R, Enhancing ATM Card Fraud Detection in Nigeria: A High-Performance Model with AI-Based Spending Pattern Analysis and Biometric Authentication, I. J. Education and Management Engineering, 2026, 3, 15-28, DOI: 10.5815/ijeme.2026.03.02
2. Pavithra D R, Smart Health Care Forgery Detection and Prediction using Deep Learning, Divya Lakshmi Publisher and Distributors, book titled An Insight into Cyber Security and Intellectual Property Rights, ISBN-978-93-90226-96-2, pg no. 46-56, 2024- 25
3. Pavithra D R, Sudarshan Patil Kulkarni "Investigation of Wavelets for Representation and Compression of Skin Cancer Images" International Journal of Image, Graphics and Signal Processing, 24-34, April 8, 2023. DOI: 10.5815/ijigsp.2023.02.03
4. Pavithra D R, Sudarshan Patil Kulkarni, "Efficient Representation of Skin Cancer Images using Wavelet Lifting Scheme", Journal of Data Acquisition and Processing Vol. 38 (3) 2023 2751-64, DOI: 10.5281/zenodo.98549653.
5. Darshan N, Pavithra D R, "IoT based smart cash crop cultivation using Raspberry Pi" in International Journal Of Innovative Research In Advanced Engineering (IRJMETS), Volume 3, Issue 7, July 2021
6. Pavithra D R, Basavanna, Sathyendra K S, Anupama Y S, M Shamanth, "Smart Stick for Elder People" in International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 3, Issue 7, July 2021

7. Pavithra D R, B Bhargavi, 'Modeling of Lithium ion battery using Open Modelica', International Journal of Latest Transactions in Engineering and Science, ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 8 Issue VII July 2020.
8. Pavithra D R, Sindhu G, 'Deploying a Kubernetes Cluster with Kubernetes Operation (kops) on AWS Cloud: Experiments and Lessons Learned', International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-5, June 2020
9. Pavithra D R, Supritha R, 'Continuous Authentication using Smart Health Monitoring System' International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-5, June 2019
10. Pavithra D R, Sudarshan Patil Kulkarni, "A Review On Various Image Representation Techniques And Outcomes" International Journal Applied Research In Engineering And Technology **(UGC Journal),** ISSN: 2319-507X,Vol 6(5), N o.26-38, January 2018.

Jury Member

Served as an esteemed Jury Member for the Ideathon and Tech Tattva Event organized by DATANAUTS Club, Department of CSE (Data Science), ATME College of Engineering, Mysuru, in association with ATME IEEE Student Branch STB35744 held on 19th November 2025 at ATMECE, Mysuru.

FDPs Conducted

1. One week ATAL FDP on "Nano materials for real time Applications" at JSSSTU, from 5th to 9th Jan 2025 funded by ATAL with the amount of Rs. 1,00,000/-
2. Organised one week FDP on "Recent Advances in 5G Wireless Communications" at JSSSTU, from 1st July to 5th Jan 2022 funded by TEQIP III with the amount of Rs. 1,50,000/-
3. Coordinated one week FDP on Nano Satellite Technology from 16th to 20th September 2019 funded by TEQIP III.

List of Conference Publications

1. Dr. Pavithra D R, Deep Fake Detection and Prevention: A Digital Forensics Perspective, International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG-2025) **DOI:** 10.1109/ICETEG66194.2025.11472840, 10-11 October 2025.
2. Rachana S, Smayana N P, Dr. Veena M G, Dr. Pavithra D R, Sentinel LPG Leakage Detection System with Automatic Regulator, 3rd IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IEEE IATMSI-2025)

3. Pavithra D R, A Method for Predicting Cardiovascular Disorder using Machine Learning, International Conference on Recent Advances in Science and Engineering Technology (ICRASET-2024)
4. Pavithra D R, Vishwagnani- The Personal Data Powered Voice Assistant using Python, 4th edition of IEEE subsection Flagship International Conference (Mysurucon) – 2024
5. Pavithra D R, Sudarshan Patil Kulkarni, presented a paper titled "Representation and Compression of Skin Cancer Images using Haar Wavelet ", IEEE 2nd Mysore Sub Section International Conference (MysuruCon), 978-1-6654-9790-9/22/$31.00 ©2022 IEEE
6. Pavithra D R,, " Big 'Internet of things' Data Analytics : A Review " in second National Journal on Engineering Innovations and Solutions (NCEIS-2018) organized by Department of Information science & Engineering, GSSSIETW, Mysuru held on 7th May 2018

Outreach Programs / Student Support programme Conducted

1. Conducted "Best Out of Waste" online competition for students held as a part of SWACHHATHA PAKWADA - 2021
2. Student Support workshop on "Higher Education and Technical Profile Building" conducted on 22-11-2022 for 5th semester students

Membership of University / Institution Authorities

1. Member, Board of Examinations, JSS S&TU, Department of E&CE, SJCE, Mysore.
2. Member, Board of Studies, JSS S&TU, Department of E&CE, SJCE, Mysore.
3. Member, Board of Examinations, SJCE (Autonomous), Mysuru.
4. Member, Board of Studies, SJCE (Autonomous), Mysuru.
5. Member, Board of Examinations, Department of E&CE, PES college, Mysore
6. Member, Board of Examinations, Department of E&CE, MIT college, Mysore
7. Member, Student Project Coordinators Committee for UG Projects

Other Assignments

1. Worked for NAAC criteria- 7 at the department level year 2025-26
2. Worked for NBA criteria 8– Dept coordinator, Dept. of E&CE. SJCE, 2025-26
3. Worked for NAAC criteria- 3 at the department level year 2024-25
4. Worked as a NBA sub criteria **7**–coordinator, Dept. of E&CE. SJCE, 2023-24
5. Coordinated department induction program for the 2022 batch of students.
6. Involved in revision and modification of E&CE Dept. courses for BOS of JSS STU
7. Assisted and worked as registration committee coordinator in IEEE Mysurucon- 2022 held at E &C dept JSS S & TU, Mysore

8. Assisted and worked as Induction Program committee coordinator for JSS University Induction Program 2021
9. Worked for NAAC criteria- 2 at the department level 2023
10. Student Project Coordinator from the academic year 2024-25
11. Result Analysis Coordinator since 2022-23
12. ISO Coordinator from 2026

Patents

1. Intelligent IoT Cardiac Surveillance System Dr. Manjunath Prof. Nagashree Prof. Supreetha, Dr Anitha Prasad, Dr. Pavithra D R, Rashmi P, Patent No. 202441067388 A, Published on 20-09-2024
2. Abacus Math Learning Tool For Kids patent no.378315-001 design patent granted on 8/05/2023

FDP/Workshops Attended

A. Two week Program

1. ATAL FDP of An Insight into "Cyber Security and Intellectual Property Rights" at JSSSTU, from 2/12/2024 to 14/12/2024
2. Participated online FDP on Opportunities and Challenges in Entrepreneurship" from 18/07/2022 to 31/07/2022 organized by STEP, JSS ATE, Bengaluru.
3. Completed "Short Term Training Programme through ICT Mode on "Refresher course on Advanced Pedagogy organized by NITTTR, Kolkata from 24/01/2022 to 04/01/2022.
4. Participated in the Faculty Development Program on :Machine Learning with Python", from 20th September 2021 to 30th September 2021 (2 Weeks) E & ICT Academy, IIT Kanpur
5. Completed Short Term Training Programme through ICT Mode on "Induction Training" (Phase "- I and Phase - II) organized by NITTTR, Kolkata from 5/10/2020 to 16/10/2020
6. Attended TEQUIP III sponsored FDP on "Fabrication of Electronic Devices using Nano Materials" Organized by Dept. of ECE, JSS STU, Mysuru from 24th Aug to 4th Sept 2020.
7. Participated in a two week TEQUIP III sponsored workshop on "Women Empowerment Beyond Education" organized by dept. of ECE, SJCE, from 9th March to 31st March 2019
8. Attended two week GIAN program on Advanced Course on Biomedical Signal Processing" held at SJCE, from 2nd to 13th January, 2018
9. Participated in a two week ISTE Short Time Training Program on "Pedagogy for Effective use of ICT in Engineering Education" conducted by IIT, Bombay, from 5th Jan – 21st Jan 2015

10. Participated in a two week ISTE workshop on "Control systems" conducted from 2nd -12th Dec 2014 organized by IIT, Karagpur held under MHRD.

B. <u>One week Program</u>

1. Profession Development Program on "Academic Leadership in Higher Education" conducted by NTTTRC, at CSI college of Engineering, Ooty from 18th -22nd May 2026
2. Participated and Successfully completed One Week AICTE- Training and Learning (ATAL) Academy FDP on " Artificial Intelligence : Insights and Applications" at MIT from 05th to 10th January 2026
3. STTP on "Evaluation Research and Programme Evaluation" organized by MMTTC- regional Institute of Education, Mysuru from 22nd to 27th September 2025
4. VGST Sponsored FDP on "Innovation in Renewable Energy and its Applications" organized by Dept. of EEE, JSS STU from 9th to 12th Sept 2024.
5. STTP on "Innovative AI Tools for research Excellence: A hands on STTP for effective Writing and Data Visualization" organized by Guru Gobind Singh College of Engg. and Research Center, Nashik, Maharastra and RSP Science Hub, Coimbatore from August 26th -31st 2024
6. Participated and Successfully completed One Week AICTE-ISTE sponsored Orientation/refresher program on " Recent trends in artificial Intelligence for 5G communication, organized by Angadi Institute of Technology & Management, from 4th to 10th January 2022
7. Participated and Successfully completed One Week AICTE – VTU Joint Teachers Training Programme on "An Overview of Teaching Techniques in Innovation & Design Thinking" Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, VIAT, Muddenahalli, between 27th & 31st December 2021
8. Participated and Successfully completed One Week AICTE- Training and Learning (ATAL) Academy online FDP on " Introduction to Deep Learning" from 20th to 24th December 2021
9. Completed One Week Short Term Training Programme through ICT Mode on Thesis and Research paper Writing organized by this Institute from 6th December to 10th December, 2021 successfully conducted by NITTTR, Kolkata
10. Participated in 5 days online "Entrepreneurship Awareness Program" in association with MSME-DI Nagpur Ministry of MSME Govt. Of India organized by Entrepreneurship development cell Nagpur Institute of Technology, Nagpur during 14th to 18th Sept 2021
11. Attended the One Week Online FDP on "Essential Skills and Technologies for Quality Research" during 30-03-2021 to 03-04-2021 organized by Library and Information Center, P. E. S. College of Engineering, Mandya, Karnataka.

12. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Introduction to Speech Processing and its Applications using AI-ML (ISPA)-2021" from 25/10/2021 to 29/10/2021 at Centre for Development of Advanced Computing, Kolkata
13. Participated Six day Faculty Development Program on "Trends in IoT, Medical Image and Speech Processing" held during August 4th - 9th 2020, organized by Department of Information Science and Engineering, Siddaganga Institute of Technology, Tumakuru.
14. Participated in one week virtual FDP on "Challenges and Opportunities in AI and ML" on 20th to 24th July 2020 hosted by Bheemanna Kandre Institute of Technology, Bhalki
15. Participated in a One Week Online Faculty Development Program on "Research Avenues in Healthcare Technology" organized by the Department of Electronics and Instrumentation, SJCE during 21st to 25th of July 2020 under TEQIP Phase III.
16. Participated in one week Faculty Development Program on "Sensors & Their Applications" held from 13th July 2020 to 17 July 2020 at Vemana Institute of Technology
17. Participated in one week Faculty Development Program on "Research Trends and challenges in computer science" held from 13th July 2020 to 17 July 2020 at Vidya Vardhaka College of Engineering.
18. Participated in TEQIP III sponsored one week Faculty Development Program on "Next generation Wireless Network and Technologies – A Practical Perspective" organized by Dept of ECE, SJCE, JSSSTU, from 19th to 23rd August 2019.
19. Participated in TEQIP III sponsored one week Faculty Development Program on "Semiconductor Device Modelling using Visual TCAD and Genius 3D & SYMICA AMS IC design " organized by ECE Dept, SJCE, JSS STU, from 22nd to 27th July 2019
20. Participated in TEQIP III sponsored one week Faculty Development Program on " Digital and Analog – IC design flow using Cadence Tool" organized by ECE Dept, SJCE, JSS STU, from 08th to 12th July 2019
21. Participated in TEQIP III sponsored one week Faculty Development Program on " Labview and Virtual Instrumentation" organized by EI Dept, SJCE, JSS STU, from 18th to 22nd June 2019.
22. Participated in TEQIP III sponsored one week Faculty Development Program on " Digital and Analog – IC design flow using Cadence Tool" organized by ECE Dept, SJCE, JSS STU, from 08th to 12th July 2019
23. Participated in one week workshop on Women Empowerment Beyond Education" organised by ECE, JSSSTU from 9th to 31st March 2019.

24. Participated in TEQIP III sponsored one week Faculty Development Program on " Development of Smart Sensor Technology towards Electronic Applications" organized by ECE Dept, SJCE, JSS STU, from 04th to 08th Febraury 2019.
25. Participated in TEQIP III sponsored one week Faculty Development Program on " Analysis of Biomedical Signals and their Mathematical Modelling" organized by EI Dept, SJCE, JSS STU, from 24th to 28th December 2018.
26. Participated in TEQIP III sponsored one week Faculty Development Program on " Recent Trends in Power Sector for Sustainable Development " organized by CSE Dept, SJCE, JSS STU, from 17th to 21st December 2018.
27. Participated in TEQIP II sponsored one week workshop on "Digital Image Processing: Basics to Recent Trends" organized by EI Dept, SJCE, JSS STU, from 13th to 17th June 2016.
28. Participated in TEQIP II sponsored one week workshop on " Pedagogy of International Design and Delivery System" organized by SJCE, JSS STU, from 30th May to 04th June 2016.
29. Participated in TEQIP II sponsored one week workshop on "Recent Trends in Biomedical Processing" organized by Dept. of EI , SJCE, JSS STU, from Signal 10th to 14th March 2016.
30. Participated in TEQIP II sponsored one week workshop on "Linear Algebra for Electrical Sciences" organized by Dept. of ECE, SJCE, JSS STU, from 26th to 29th February 2016.

Declaration

I hereby declare that the information furnished above is true and correct to the best of my knowledge and briefly.

Signature of the Faculty

(Dr Pavithra D R)