FACULTY DETAILS

NAME: MS.G.VIJAYALAKSHMI

DESIGNATION: Assistant Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AREAS OF INTEREST: Microprocessors and Microcontrollers, Embedded System, Digital Electronics

Email id: vijayalakshmi.ece@psvpec.in

Research Scholar link: https://scholar.google.com/citations?user=BC23mZQAAAAJ&hl=en

Educational Qualifications:

➢ Pursuing Ph.D in Bharath Institute of Higher Education and Research.

➢ M.E (Gold Medalist) in Electronics and Control Engineering (2010-2012) from Sathyabama University with **9.04 %** CGPA.   [First class with exemplary]

➢ **B.E** in **Electronics and Communication engineering** (1998- 2002) from Sri Sairam Engineering College, Chennai –44 with **79% [First classs with Distinction]**.

➢ H.S.C from Jaigopal Garodia Hr. Sec School with 92%

➢ S.S. L.C from Jaigopal Garodia Hr. Sec School with 89% .

WORK EXPERIENCE

- ➢ Working as an Assistant Professor in the Department of ECE in Prince Shri Venkateshwara Padmavathy Engineering College from 02-06-2008..

- ➢ **Worked as a Functional Specialist –Quality in Sutherland Global Services Pvt Ltd**. (February 23, 2004 to December 2007 - **Non Voice**)

- ➢ **Worked as a Teacher in Mow bray's Matriculation Higher Secondary School, Nanganallur (Nov 2002 – Feb 2004).**

Awards and Achievements:

> ➢ Gold Medalist in M.E

> ➢ Was awarded the best Employee of the Year 2006 on Annual day of Sutherland at Madras University Chennai.

> ➢ Promoted as Senior Customer Support Executive in 2006.
> ➢ Got best student award in SSC.
> ➢ Topper in NPTEL Exam (5%)

PROFESSIONAL INFORMATION:

FACULTY DEVELOPMENT PROGRAMS ATTENDED TILL 2019-2020

- ● Attended a Faculty Development programme on "Analysis of power system protection and Automation" at KCG College of technology from 21.11.2016 to 2.12.2016

- ● Attended a Faculty Development programme on "Design and analysis of Algorithm" at St.Joseph college of engineering from 04.12.2017 to 11.12.2017
  ,m
- ● Attended a National Conference on Vehicles and Robotics at Rajalakshmi Engineering College on 01.3.2018

- ● Attended a National conference on "Emerging Trends in RF and Engineering Science" at Annamalai Universtiy from 26.4.2018 to 27.4.2018
- ● Attended a National Conference TIME 2019 at Dr,MGR Educational & Research Institute from 19.3.2019 to 20.03.2019

- Seminar on Fundamentals of research methodology for researchers at RIPC, PSVPEC on 11.06.2019
- Participated In Two Days National Level Seminar On VLSI Architecture For Image Processing Conducted By Prince Dr.K.Vasudevan College Of Engineering And Technology On 14-15th June 2019
- Faculty Development Program On 'Effective Teaching Strategies & Methods' Conducted By IQAC, PSVPEC On 21.11.2019 & 22.11.2019

- Five-Day Faculty Development Program On Computer Vision And Image Processing - Industrial Scope Conducted By Rise Krishna Saiprakasam Group Of Institutions From 18.5.2020 To 22.5.2020

FACULTY DEVELOPMENT PROGRAMS ATTENDED TILL 2020-2021

- Participated in two days FDP on "Research Methodology", organized by Ramanujan club of Mathematics in association with IQAC, Jeppiar Institute of technology, Sriperumbudur from 01.06.2020 to 02.06.2020.
- Three day National level Online FDP on "Various Research Opportunities in Electronics and Communication Engineering" organized by the Department of Electronics and Communication Engineering, RISE Krishna Sai Prakasam Group of Institutions, Ongole in association with ISTE chapter from 01/07/2020 to 03/07/2020
- Three day National level Online FDP on "Coding Theory and Signal Processing" organized by the Department of Electronics and Communication Engineering, RISE Krishna Sai Prakasam Group of Institutions, Ongole in association with ISTE chapter from 16/07/2020 to 18/07/2020
- Participated in one day faculty development programme on "Current Trends in 5G-Communication and Networks, Organised by the Department of Electronics and Communication Engineering inVel Tech Multi Tech Dr.R.R Dr.SR Engineering college on 18th Nov 2020.
- Six Day Faculty Development Program (Fdp) On Advanced Excel With Data Visualization Conducted By E & Ict Academy, Iit Kanpur From 17.05.2021 To 22.05.2021
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Modern Techniques for Wireless Communication" from 2021-05-17 to 2021 05-21 at Madhav Institute of Technology & Science, Gwalior.

- National Conference On Silicon-21 At Dr.Mgr Educational Research & Institute On 17.5.2021 & 18.5.2021

FACULTY DEVELOPMENT PROGRAMS ATTENDED IN 2021-2022
- Faculty Development Program On Wireless Networks Conducted By PSVPEC From 01.2.2021-05.2.2021

- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "ROBOTICS- The Machine Power for Industrial Automation " from 15/11/2021 to 19/11/2021 at Sri Eshwar College of Engineering
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Machine Intelligence" from 22/11/2021 to 26/11/2021 at Loyola ICAM College of Engineering & Technology.

FACULTY DEVELOPMENT PROGRAMS ATTENDED IN 2022-2023

- FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by AICTE from 11th to 15th July 2022
- Attended a Session on SCADA conducted by Sri Easwar College of Engineering on 23.12.2022
- Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission organized by Intellectual Property Office, India – NIPAM on January 25,2023
- Successfully completed the five days National level FDP on Patent Drafting and Filing Procedures during 17-04-2023 to 21-04-2023, organised by Department of Electronics and Communication Engineering in association with IIC, CMRIT-Bengaluru.

- Participated in 3 days FDP on "Intellectual Property Rights" from April 25th to April 27, 2023, organized by IIMT College of Polytechnic, Greater Noida, (U.P).

- AICTE - Innovation Ambassador (IA) Training Program - Foundation and Advanced Level Completed

FACULTY DEVELOPMENT PROGRAMS ATTENDED IN 2023-2024

- Participated in **Eight Days Faculty Development Programm**e on ChatGPT & AI Tools to Save your Two Hours of Time Daily held from 16 June 2023 to 24 June 2023 organized by the Department of Computer Science & Applications (B.Sc CS), Faculty of Science and Humanities, , SRM Institute of Science and Technology, Ramapuram

FACULTY DEVELOPMENT PROGRAMS ATTENDED IN 2024-2025

- Successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Tailored Treatment: Advancing Faculty Knowledge in Personalized Medicine at ST. PETER'S COLLEGE OF ENGINEERING AND TECHNOLOGY from 27/01/2025 to 01/02/2025.

- Successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Emerging trends and technologies in Renewable energy for Sustainable Development at Prince Shri Venkateshwara Padmavathy Engineering College from 10/02/2025 to 15/02/2025.

INSTITUTION'S INNOVATION COUNCIL – INNOVATION AMBASSADOR

- Presented a session on the title "Intellectual Property Rights" in Prince Shri Venkateshwara Padmavathy Engineering College, Chennai on 16/11/2022
- Presented a session on the title "Entrepreneurship" in Prince ShriVenkateshwara Padmavathy Engineering College, Chennai on 29/07/2022
- Presented a session on the title "Entrepreneurship skill, attitude and behavior development" in Prince Shri Venkateshwara Balaji Arts and Science College, Gowrivakkam, Chennai on 21/12/2022
- Presented a session on the title "HOW TO PLAN FOR STARTUP : LEGAL AND ETHICAL STEPS" in Prince Dr.K.Vasudevan College of Engineering and Technology, Chennai on 24/08/2022
- Presented a session on the title "Entrepreneurship skill, attitude and behavior development" in Prince Dr.K.Vasudevan College of Engineering and Technology, Chennai on 8/02/2023

PAPER PUBLICATIONS/CONFERENCE:

ACADEMIC YEAR:2021-2022

Title of the paper	Title of the proceedings of the conference/ Journal	Name of the conference/ Journal	Year of Publication	DOI LINK	Name of the publisher
A Novel Approach for Blind - Image to Audio Conversion in Regional Language	Lecture Notes in Electrical Engineering	Innovations in Electrical and Electronic Engineering ICEEE 2022	April 2022	PP 662–668	Springer
Bluetooth technology on IoT using the architecture of Piconet and Scatternet	Volume 2393: Recent Trends in Science and Engineering	Recent Trends In Science And Engineering	May-22	https://doi.org/10.1063/5.0074188	AIP Publishing
Study on modified booth recoder with fused add-multiply operator	Volume 2393: Recent Trends in Science and Engineering	Recent Trends In Science And Engineering	May-22	https://doi.org/10.1063/5.0074212	AIP Publishing
Multi-purpose unmanned aerial vehicle for temperature sensing and carbon monoxide gas detection with live aerial video feeding	Volume 2393: Recent Trends in Science and Engineering	Recent Trends In Science And Engineering	May-22	https://doi.org/10.1063/5.0074193	AIP Publishing
Image fusion based on DTDWT to improve segmentation accuracy in tumour detection	Volume 2393: Recent Trends in Science and Engineering	Recent Trends In Science And Engineering	May-22	https://doi.org/10.1063/5.0074183	AIP Publishing

ACADEMIC YEAR:2023-2024

Title of the paper	Title of the proceedings of the conference/ Journal	Name of the conference / Journal	Year of Publication	DOI LINK	Name of the publisher
DAF Extinguisher For On Road Vehicles	2023 International Conference on Networking, Electrical Engineering, Computer Science, and Technology	ICONNECT-2023	International	Jul 2023	**https://doi.org/10.1051/e3sconf/202339905004**
IoT and Sensor based Technique to Track and Monitor the Work of the Street Sweepers	2023 4th International Conference on Smart Electronics and Communication (ICOSEC)	ICOSEC 2023	International	Sep 2023	**DOI:** 10.1109/ICOSEC58147.2023.10276176
Design and Development of an Efficient Classification Model to Suggest Videos based on Artificial Intelligence Association	2023 9th International Conference on Smart Structures and Systems (ICSSS)	ICSSS 2023	International	Nov 23	**DOI:** 10.1109/ICSSS58085.2023.10407980
A Novel Design of an Image Encryption and Decryption Scheme Using Enhanced Cybersecuri	2023 International Conference on Emerging Research in Computational Science (ICERCS)	ICERCS 2023	International	Dec-23	**DOI:** 10.1109/ICERCS57948.2023.10434166

ty Principles					
Real-Time Monitoring of Glacial Changes Using Artificial Intelligence	4th International Conference on Computation, Automation and Knowledge Management (ICCAKM)	ICCAKM 2023	International	Dec-23	**DOI:** 10.1109/ICCAKM58659.2023.10449632
Investigating the Effectiveness of Birthday Attack Strategies in Cryptography Network Security	2023 3rd International Conference On Smart Generation Computing, Communication And Networking (SMART GENCON)	SMART GENCON 2023	International	Dec-23	**DOI:** 10.1109/SMARTGENCON60755.2023.10442248

<mark>ACADEMIC YEAR:2024-2025</mark>

Title of the paper	Title of the proceedings of the conference/ Journal	Name of the conference/ Journal	Year of Publication	DOI LINK	Name of the publisher
Artificial Intelligence assisted Electric Vehicles Fast Charging Station Design using Grid Distribution Network Model	4th International Conference for Intelligent Technologies	CONIT 2024	Jun-24	**DOI:** 10.1109/CONIT61985.2024.10627417	Institute of Electrical and Electronics Engineers (IEEE)
Segmentation of Color and Multispectral Images with Convolutional Neural Networks	2024 15th International Conference on Computing Communication and Networking	ICCCNT 2024	Jun-24	**DOI:** 10.1109/ICCCNT61001.2024.10725372	Institute of Electrical and Electronics

	Technologies (ICCCNT 2024)				Engineers (IEEE)
Design and Analysis of Satellite Constellation Systems for Global Coverage and Capacity	2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT 2024)	ICCCNT 2024	Jun-24	**DOI:** 10.1109/ICCCNT61001.2024.10724262	Institute of Electrical and Electronics Engineers (IEEE)
Investigating the Role of Deep Learning in Data Science: Promises and Prospects	2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT 2024)	ICCCNT 2024	Jun-24	**DOI:** 10.1109/ICCCNT61001.2024.10724692	Institute of Electrical and Electronics Engineers (IEEE)
Peer-to-Peer Energy Trading Platforms in Local Energy Markets	1st International Conference on Power and Energy Systems (ICPES 2023)	ICPES 2023	Jun-24	https://doi.org/10.1051/e3sconf/202454007003	EDP Sciences
Segmentation of Retinal Blood Vessels in Fundus Images Using Fully Convolutional Networks	2024 IEEE International Conference on Communication, Computing and Signal Processing (IICCCS 2024)	IICCCS 2024	Sep-24	**DOI:** 10.1109/IICCCS61609.2024.10763656	Institute of Electrical and Electronics Engineers (IEEE)
A Method for Identifying Parkinson's Disease from Spiral Images (Graphs) Created by Hand	2024 Global Conference on Communications and Information Technologies, GCCIT 2024	GCCIT 2024	Oct 2024	**DOI:** 10.1109/GCCIT63234.2024.10862348	Institute of Electrical and Electronics Engineers (IEEE)

Computational Geometry and its Applications in Advanced Algorithm Design	2024 IEEE 4th International Conference on ICT in Business Industry and Government	ICTBIG 2024	Dec 2024	**DOI:** 10.1109/ICTBIG64922.2024.10911440	Institute of Electrical and Electronics Engineers (IEEE)
Improving Diabetes Prediction Accuracy Using Wb-Smote for Imbalanced Datasets	2024 IEEE 4th International Conference on ICT in Business Industry and Government	ICTBIG 2024	December 2024	**DOI:** 10.1109/ICTBIG64922.2024.10911377	Institute of Electrical and Electronics Engineers (IEEE)
The Role of Computer Vision in Automating Defect Detection in Manufacturing	2024 IEEE 4th International Conference on ICT in Business Industry and Government	ICTBIG 2024	December 2024	**DOI:** 10.1109/ICTBIG64922.2024.10911417	Institute of Electrical and Electronics Engineers (IEEE)

NPTEL CERTIFICATIONS

- **NPTEL –CERTIFICATION IN ESTIMATION FOR WIRELESS COMMUNICATIONS MIMO OR OFDM CELLULAR AND SENSOR NETWORKS– 20 HOUR COURSE BY IIT KHARAGPUR (JAN – MAR 2016)**

- **NPTEL ELITE CERTIFICATION IN MICROPROCESSORS AND MICROCONTROLLERS -12 WEEK COURSE BY IIT KHARAGPUR (JAN – APRIL 2018)**

- **NPTEL ELITE CERTIFICATION IN ANTENNAS -12 WEEK COURSE BY IIT BOMBAY (JAN –APR 2019)**

Details of Patent Filed and granted IN(2023-2024)

Sl.No	Title of the Invention	Inventor Name	Patent St atus	Patent Number
1	Lpg gas detector	Ms..G.Vijayalakshmi	Published	202441018006
2	OTP based wireless locking system	Ms.G.Vijayalakshmi	Published	202441017999

Details of Patent Filed and granted IN (2022-2023)

Sl. No	Title of the Invention	Inventor Name	Patent St atus	Patent Number
1	Laser tripwire alarm using arduino uno	Ms. G. Vijayalakshmi	Published	202241044701
2	Barrier elusion robot using ultrasonic sensor	Ms. G. Vijayalakshmi	Published	202241044486

GOOGLE SCHOLAR ID: BC23mZQAAAAJ
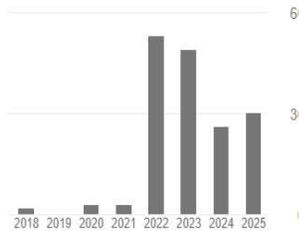
vijayalakshmi G ✎   ☑ FOLLOWING

Prince Shri Venkateshwara Padmavathy Engineering College
Verified email at psvpec.in
Embedded Systems

Cited by		VIEW AL
	All	Since 202
Citations	181	16
h-index	8	
i10-index	8	

☐ TITLE 🔲 ⋮	CITED BY	YEAR
A comparison of ARIMA & NNAR models for production of rice in the state of Andhra Pradesh G Vijayalakshmi, K Pushpanjali, AM Babu International Journal of Statistics and Applied Mathematics 8 (3), 251-257	4	2023
A novel approach for blind-image to audio conversion in regional language B Hemalatha, B Karthik, S Balaji, G Vijayalakshmi, RN Shaw International Conference on Electrical and Electronics Engineering, 662-668	6	2022
A smart rail track inspection system	11	2022

2018 2019 2020 2021 2022 2023 2024 2025

ISTE MEMBERSHP DETAILS

Personal Profile:

Name   :   G.Vijayalakshmi

Husband's Name	:	D. Murali
Sex	:	Female
Marital Status	:	Married
Nationality	:	Indian
Hobbies	:	Reading Novels, listening to Music
Permanent Address	:	No.2/52, Kaveri Street,
		Ram Nagar Extension,
		Urappakkam,
		Pin code – 603 211.
Date of Birth	:	18-08-1981

Declaration:

        I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Chennai   **(G.Vijayalakshmi)**