

Name: PUSHGARA RANI D				
Designation:	ASSISTANT PROFESSOR			
Qualification:	M.E(Ph.D)			
Area of specialization :	APPLIED ELECTRONICS			
Experience:	Industrial Experience		Teaching Experience	
	NIL		21	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	15		25	
Publications:	Conference		Journal	
	National	International	National	International
	5	18	NIL	11
Books / Book Chapters	1			
Patents:	National		International	
	4		NIL	
Professional Body Membership	3			
Faculty Achievement	1.Best mentor Award 2. Women’s day award for Innovation 3. Best Department faculty Award 4.100% Admission Awards.			

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks/ Grades obtained	Class obtained
UG	B.E	ECE	2001	K.S.Rangasamy College of Technology	Madras	71.1	I
PG	M.E	Applied Electronics	2004	K.S.Rangasamy College of Technology	Anna	82	FWD, 3rd univ Rank
PhD	Pursuing	Medical Image Processing		-	Anna		

**A
cademic**

Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sairam Engineering College	Assistant Professor	28.08.2025	-		7	
Sri Sai Ram Institute of Technology	Associate Professor	1 st June 2013	-	12	3	
K.S.R.College of Engineering	Associate Professor	1 st July 2010	31 st May 2011		10	
	Assistant Professor	1 st July 2008	30 th June 2010	1	11	
	Lecturer	3 rd December 2003	30 th June 2008	4	7	
S.S.M College of Engineering	Lecturer	7 th August to 2001	19 th September 2002	1	1	
				21	3	

PUBLICATIONS & EVENTS

Journals:

- 1.D.Pushgara Rani, A.Sharadha, "Development of Denoising Techniques for Increasing the Image Quality in CT", International Journal of Biomedical Signal Processing, Volume II(January- June2011),31-36.
- 2.S.Deivanayagi, Dr.M.Manivannan, D.Pushgara Rani "Spectral Analysis of EEG signals during Hypnotic Analgesia" International Journal of Applied Engineering Research, Volume 10, Number 75,2015.
- 3.D.Pushgara Rani, T.Sivakumar, G.Vishal, S.Sree Krishnan "EmergencyAutomatic Signaling System" International Journal of science and engineering development research",ISSN 2455- 2631,December.
- 4.D.Pushgara Rani,M.MathinaKausar , A.Jeniffa , A.Pavithra Intelligent Subway Shutter Control System Using Microwave Radar International Journal Of Advance Research In Science And Engineering. ISSN(O)2319-8354,ISSN(P) 2319 -8346 VOL NO :7,ISSUE NO :2
- 5.D.Pushgara Rani,V.K.G.Kalaiselvi, Integration of IoT with Self Powered Nodes for Railway Condition Monitoring, International Journal of Recent Technology and Engineering,ISSN2277-3878,Volume-8,Issue-5
- 6.Pushgara, R.D.; Prasanna, R.; Surenderanath, S.; Kalaiselvi, V.K.G.; Vaishnavi, Rithika, P.Intelligent Autonomous Parking System Integrating RFID And IOT For Smart Cities, Journal of Telecommunication and Radio Engineering ,
DOI: 10.1615/TELECOMRADENG.2023050300,WOSUID: INSPEC:24990869
- 7.S.DEIVANAYAGI,D.PUSHGARARANI,V.VISHALL,P.ANUSRUTHI, Pollution Risk Management For Petrol Engines Based On IOT,Elementary EducationOnline,2020.
- 8.PRABHA, R.; S., BALAKRISHNAN; DEIVANAYAGI, S.; KALAISELVI, V. K. G.; RANI, D. PUSHGARA; G., ASWIN,A review of classification algorithms in machine learning for medical IOT,International Journal of Pharmaceutical Research (09752366), 2021,Vol 13, Issue 1, p3000.
- 9.Integration of lot with Self Powered Nodes for Railway Condition Monitoring,D. Pushgara Rani, V. K. G. Kalaiselvi, S. S. Rishi Kanthan, G. S. S. Surya Prasath,International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-5, January 2020
- 10.Detection And Classification Of Tumour Using Image Processing And Machine Learning,D.PUSHGARA RANI, S.DEIVANAYAGI, KARTHIKEYAN. K,P.SHALINI,Elementary Education Online,2020.

11. AIR PURITY DETECTION USING IOT, V.K.G. Kalaiselvi,, Pushgara Rani D Hariharan Shanmugasundaram, Bhanu Prasad A, Pavithra P, Sneha LISSN (Online): 2455-3662. EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal, Volume: 8 | Issue: 9 | September 2022 || Journal DOI: 10.36713/epra2013 || SJIF Impact Factor 2022: 8.205 || ISI Value: 1.188.

Conferences:

1. S. Deivanayagi, D. Pushgara Rani, "Hypolipidemic and Anti-Atherosclerotic effects Of neuroceuticals" International Conference on contemporary challenges in Engineering and Management at ARM college of Engineering and Technology, Maraimalai Nagar, Chennai, India, 2017.

2. D. Pushgara Rani, S. Deivanayagi, "Emergency Automatic Signaling System" International conference on Advanced Computing & Communication Systems, at Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, India, 2017.

3. S. Deivanayagi, D. Pushgara Rani, on "Anti Atherosclerotic effect of Spermococe Hispida with ImmunoHistochemical Evidences" in National Conference on Information and Communication Engineering held during April 21st, 2017 at Sri Sai Ram Institute of Technology, Chennai.

4. S. Deivanayagi, D. Pushgara Rani, "Hypolipidemic and Anti-Atherosclerotic effects Of neuroceuticals" in National conference on Smart Traffic and Parking Infrastructure Solutions held on 20th February 2017.

5. D. Pushgara Rani, S. Mythili, "Five Phase Induction Motor Drives with DSP Based Vector and Direct Torque Control" National Conference on Advancements in Electrical and Mechanical Engineering, February 20-21, 2004.

6. D. Pushgara Rani, S. Mythili, "Five Phase Induction Motor Drives with DSP Based Vector and Direct Torque Control" National Conference on Intelligence Techniques, February 24, 2004, pp12.

7. D. Pushgara Rani, S. Mythili, "Five Phase Induction Motor Drives Implementation", National Conference on Recent Trends in Communication Techniques", April 7- 8, 2004, Volume III, pp179.

8. D. Pushgara rani, K. Abiya, S. Aiswarya, M. Chandralekha "Sensor Fusion Robot On The Rope For Industrial Application", International Conference on Science And Innovative Engineering, Jawahar Engineering College, 2017.

9. D. Pushgara rani, K. Abiya, S. Aiswarya, M. Chandralekha "Sensor Fusion Robot On The Rope For Industrial Application", NICE 17, Sri Sai Ram Institute of Technology, 2017.

10.D.Pushgara rani,M.MathinaKauser , A.Jeniffa , A.Pavithra, Intelligent Subway Shutter Control System Using Microwave Radar,International Conference onAdvancement in Engineering and Technology, DhanishAhamed College of Engineering

11.D.Pushgara rani, K.Gomathi, S.Shruthi, M.C.Vinodhini, An EEG Based Brain Computer Interface Word Recognition and Indication With Talkback System, Third International Conference on innovative and Emerging Trends in Engineering &Technology, Panimalar Institute of Technology.

12.D.Pushgara Rani,M.MathinaKauser ,A.Jeniffa, A.Pavithra, Intelligent SubwayShutter Control System Using Microwave Radar,ARICE 2K17,Sri Sairam Insistute of Technology.

13.D.Pushgararani, K.Gomathi, S.Shruthi, M.C.Vinodhini, An EEG Based Brain Computer Interface Word Recognition and Indication With Talkback System,ARICE 2K17,Sri SairamInsistute of Technology.

14.D.Pushgara Rani, Dhanalakshmi,HariniKarthik, Waistband,IOT and ML based Power Management and Controlled Socket,ARICE 2020,Sri Sairam Insistute of Technology.

15.D.Pushgara Rani, VeluruVaishnavi, Pavithra, Artificial Intelligence Based Plant Disease Identification and eradication of Pests,ARICE 2020,Sri Sairam Insistute of Technology.

16.D.Pushgara Rani, Dhanalakshmi,HariniKarthik, Waistband,IOT and ML based Power Management and Controlled socket,ICCET 2020,Prince Shri Padmavathy College of Engineering and Technology, Chennai.

17.Consensus based data transfer in wireless sensor network for reliability interpretation,D.Pushgara Rani,V.K.G.Kalaiselvi, R Jaichandran , P ShyamalaBharathi , D Pushgara Rani , V K G Kalaiselvi , Sujesh P Lal, I3CAC 2021, June 07-08, Chennai, India Copyright © 2021 EAI DOI 10.4108/eai.7-6-2021.2308782.

18.Exertion of WSN and UAV for Performance Measurements in Railway Bridges G.Saravanan , P.Saravanan , S.Prasath Kumar , R.Lakshmidevi , D.Pushgara Rani I3CAC 2021, June 07-08, Chennai, India Copyright © 2021

EAI DOI 10.4108/eai.7-6-2021.2308566

Scopus:

1.Automated Multilingual Translation of Exam Question Papers Using Generative AI,S Venkatraman;

Sumneet Kaur Bamrah;D Pushgara Rani,2025 International Conference on Computing and Communication Technologies (ICCT)

2.FileWizz: A Generative AI Based Multi-Format File Convserion and Management GUI Tool for Enhanced User Productivity,S Venkatraman;D Pushgara Rani;Sumneet Kaur Bamrah,2025 International Conference on Responsible, Generative and Explainable AI (ResGenXAI)

3.SchedSync - Timetable Scheduling for Academicians Using Generative AI,S Venkatraman;

D Pushgara Rani;Sumneet Kaur Bamrah,2025 International Conference on Responsible, Generative and Explainable AI (ResGenXAI)

4.Efficient and safe application for facial transfer with deep generative adversarial network,Journal of Green Engineering,2020 | Journal article EID: 2-s2.0-85096594068 Part of ISSN: 22454586 19044720

5.Modern Dine-In,Kalaiselvi, V.K.G.; Rani, D.P.; Hemanth, P.; Dinesh, P.; Rusitha, U.Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021 | Conference paper

6.FARM-A-CATION: A support for farmers,FARM-A-CATION: A support for farmers,Kalaiselvi, V.K.G.;

Ponmalar, A.; Rani, D.P.; Harikrishnan, B.; Srivatsav, T.G.Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021,2021 | Conference paperDOI: 10.1109/ICCCT53315.2021.9711798.

7.Deep learning based pathogen infestation detection in plants,Kalaiselvi, V.K.G.; Ranjani, J.; Pushgara Rani, D.;Vignesh Kumar, S.M.; Mohana Priya, S.Proceedings - 5th International Conference on Intelligent Computing and Control Systems, ICICCS 2021 2021 | Conference paper DOI: 10.1109/ICICCS51141.2021.9432106

8.Real Time system for handling customer queries using Twilio, Assembly Ai and NLP,PoornaPushkala K; Pushgara Rani D;

S. Samundeswari; Megala J,2022 1st International Conference on Computational Science and Technology (ICCST)

2022-11-09 | Conference paper,DOI: 10.1109/iccst55948.2022.10040469

9.Illegal Fishing Detection using Neural Network,Kalaiselvi, V.K.G.; D., Pushgara Rani.; Ranjani, J,2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings 2022 | Conference paper

DOI: 10.1109/IC3IOT53935.2022.9767876

10.Ghajini - An application For Dementia Patients,Kalaiselvi, V.K.G.; Rani, D.P.; Dharini, V.K.; Anupama Jeyashree, S.;

Parvathi Priya.Nandana, K.M.2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings 2022 | Conference paper DOI: 10.1109/IC3IOT53935.2022.9767962

11.Intelligent Autonomous Parking System Integrating Rfid And lot For Smart Cities,Pushgara, R.D.;

Prasanna, R.; Surenderanath, S.; Kalaiselvi, V.K.G.; Vaishnavi, V.; Rithika, P.DOI: 10.1615/TELECOMRADENG.2023050300

WOSUID: INSPEC:24990869

12.Experimental investigation on utilization of used foundry sand in concrete as fine aggregate,V. Brindha Devi;

D. Pushgara Rani; J.K. Periasamy; A. Ponshanmugakumar,Materials Today: Proceedings 2023 | Journal article

DOI: 10.1016/J.MATPR.2023.05.616

Events Attended

- 1." Hands on Training on Deep Submicron CMOS VLSI Design UsingMicrowind 3.5", organized by Angel college of Engineering on22.01.2011.
- 2.'High Impact Teaching Skills' organized by K.S.R College of Engineering, WIPRO (MISSION 10X) during 03.08.2009 &04.08.2009.
- 3."Advancements in Digital Signal and Image Processing", organized by K.S.R. College of Engineering on03.02.2009.
- 4."Advances in Real Time Embedded System", organized by Reach Information and Communication Systems on08.01.2005.
- 5.Workshop on "Recent Trends in Microwave and Optical Communication" Organized by JJ College of Engineering and Technology during 02.12.2004& 03.12.2004.
- 6.IEEE Madras Section Sponsored FDP on "Semiconductor Devicesand Analog Circuits" at Indian Institute Of Technology (IITM), Chennai, during 24.11.2007 & 25.11.2007.
- 7.AICTE-ISTE Sponsored Short Term Training Programme on "Recent Trends in Signal Processing", by K.S.R College of Engineering, during 19.03.2007 & 23.03.2007.
- 8.UGC Sponsored Refresher Course in "VLSI Design", Organized by Amrita Viswa Vidyapeetham, during 05.12.2007 &15.12.2007.
- 9.FDP on "Electromagnetic field theory and transmission lines" at Sri Sai Ram Institute of Technology during 25.06.2015 &26.06.15.
- 10 .FDP on "Crypt Analysis & Internet Security" at Sri Sai Ram Institute of Technology during 27.06.2016 to 29.06.2017.
- 11.FDP on "Digital Image processing, RF &Embeddded System" at SreeSastha Institute of Engineering and Technology during 20.06.2017 to22.06.2017.
- 12.FDP on "Modern teaching and learning methodologies for competency developement" at JeppiaarMaamallan Engineering college during 03.05.2017to 04.05.2017.
- 13.FDTP on "CS6003-ADHOC and sensor network" at S.A.Engineering college, Chennai at 07.06.2017 to14.06.2017.
- 14.FDTP on "EC8453- Linear Integrated Circuits"at PrinceshriPadmavathy College of Engineering and Technology, Chennai
15. AICTE sponsored FDP on " Emerging Trends in Wireless Communication and Networks with Hands on Training in Advanced Simulators",Dhanalakshmi College of Engineering,19.11.2019 to 02.12.2019
16. NPTEL FDP on" Stress Management".
- 17.NPTEL FDP on "Positive Psychology".

18. ATAL FDP On IoT at IIITM Nagpur 07/05/2020-11/05/2020
19. ATAL FDP On IoT at Government Engineering college,Rajkot from 2/11/2020 – 6/11/2020
20. ATAL FDP On Sensor Technology at Gnanamani College of Technology,Namakkal from 05/10/2020-09/10/2020
21. FDP on Fundamentals of machine learning at ICT academy 18/5/2020-23/05/2020
22. FDP on Advanced simulation tools for Electronics engineers at SA Engineering College 27/4/2020-1/5/2020
23. Recent trends in Information,computing, Communication and teaching methodology competency at Sri SaiRam Engineering college from 04/05/2020-17/05/2020
- 24.FDP on How to bring long lasting changes in students at Sarada College for Women on 15/05/2020
- 25.Workshop on Studio IDE-TinkerCAD simulator at Arjun College of Technology on 21/05/2020
- 26.Workshop on VLSI circuits analog and digitals reign perspective at JNTUA college of Engineering from 16/05/2020-17/05/2020
27. International workshop on Robotics and Phonotics at St.Josephs Institute of Technology on 20/08/2020 &21/08/2020
28. FDP on Advanced Communication Lab at St.Josephs Institute of Technology on 22/07/2020-24/07/2020
- 29.FDP Moodle learning management system at Shri Krishna Engineering College- IIT Bomabay on 01/03/2020

Completed more than 25 courses in coursera

Event organised

- 1.Anna University Sponsored FDP on “Computer Networks” at K.S.R College of Engineering, during 27.11.2006 to09.12.2006
- 2.Workshop on “How to write Research papers on Refereed Journals” at Sri Sai Ram Institute of Technology on24.01.2015.
- 3Workshop and hands on training in the field of “Electronic Design and Embedded System” at Sri Sai Ram Institute of Technology from 17.07.2017 to22.07.2017.
- 4.Workshop on “IOT and Robotics”, Sri Sai Ram Institute of Technology from 05.08.2019to 10.08.2019
- 5.Guest Lecture in “Communication Theory”, Sri Sai Ram Institute of Technology,07.03.2019
- 6.Webinar on Applied Artificial Intelligence 24/06/2020

7.Webinar on Enhancing the Programming Skills on 09/05/2020

8.Webinar on The Magic Word – Attitude on 29/05/2020

9.FDP on Microlevel Analysis of CO -PO attainment with particular reference to NBA Tier I Accreditation 24.05.2022-28.05.2022.

10.Solveathon 1.O 20.04.2022&21.04.2022.

11.Seminar on The Art of Writing Research Paper-24/02/2023

PATENT DETAILS:

S.NO	Patent	Authors	Year
1	E - BAG	S. SURENDERANATH K. PALANIKUMAR G. SARAVANAN D. PUSHGARA RANI G. THAMARAI SELVI RAMAPRASADA MAHARANA D. SATHYA SUNDAR M. PRINCE ALAN PAUL M. BHARANIDHARAN	2023
2.	GRINDER 2.0	D. PUSHGARA RANI G. SARAVANAN G. THAMARAI SELVI R. LAKSHMI DEVI M. POWN M.DEVAPRASATH K. SABTHAGIRI A. AHILAN	2023

3	VEHICULAR POLLUTION MONITORING AND RISK MANAGEMENT SYSTEM	G.NAVARASU S.DEIVANAYAGI D.PUSHGARA RANI V.VISHALI R.NITISH SENEN	2020
4.	VOICE CONTROLLED MOVING INTELLIGENT TRASH BIN	R. LAKSHMI DEVI G. SARAVANAN D.PUSHGARA RANI K. PALANIKUMAR K.ROOPIKA S.ASHWARYA R.DHANUJA I.PRIYANKA N.DEEPAK M.SHYAMALAVANNAN	2022

ON - LINE COURSES :15

NITTTR Courses: 8

Professional Membership :3(IEEE,IETE,ISTE)