

National Institute of Technology, Tiruchirappalli:

Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr. Sridevi V is an Assistant Professor in the Department of Instrumentation and Control Engineering at NIT Trichy, where she is teaching since 2006. She received her PhD at Indian Institute of Technology Madras on EEG signal processing for epileptic seizure onset detection. She received her Master's Degree in Process control and Instrumentation, at Annamalai University in the year 2005. She is teaching Embedded systems, Internet of Things, Soft computing techniques, Neural Network and Fuzzy logic, and Digital signal processing related courses. Her main research interests are in the areas of signal processing, signal conditioning, and development of instrumentation and machine learning models for biomedical applications. She is guiding PhDs in the areas of EEG based emotions recognition, depression study and cognitive process of the brain. Also, she is guiding PhD and various projects on robotics, embedded system, wireless sensor networks, and internet of things areas. She has established video EEG laboratory at the department of Instrumentation and Control Engineering, NITT. She provides consultancy services on EEG recording and guidance of EEG based research work/projects. She is involved in various department and institutional administrative activities. At the department level, she is appointed as class committee chairperson of B Tech programs, initiating faculty for the procurement of various equipments to establishes the department laboratories, stock verification officer, and UG project coordinator. At the institute level, activated participated in the organizing committee of the convocation, member of anti-ragging committee and stock verification officer.

1. Name : Dr. V Sridevi
2. Designation: Assistant Professor
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sridevi.veerasingam@gmail.com
6. Field(s) of Specialization: Medical signal processing, Machine learning algorithms, Neural Network and Fuzzy logic, Embedded systems, Wireless Sensor Networks, Process Control and Instrumentation, Internet of Things

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology Tiruchirappalli	27-03-2006	24-09-2021
Research Assistant	National institute of Technology, Tiruchirappalli	2005	2006

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	IIT Madras	2021	-	EEG signal Processing for epileptic seizure detection
M.E	Annamalai University, Chidambaram	2005	8.4/10	Process control and Instrumentation
B.E	Bharathidasan University, Trichy	2003	77.09/100	Electronics and Communication Engineering
12 th	Amala girls higher secondary school, musiri	1999	81.75%	
10 th	Amala girls higher secondary school, musiri	1997	85%	

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Member (ICE dept)	NITT - TI Inter Departmental Monitoring Committee Meeting	17-01-2020	24-09-2021
Convocation (Registration and seating)	NITT	01-07-2019	31-07-2019
Stock Verification	NITT Stock Verification Committee	01-09-2018	07-09-2018

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Officer			
Stock Verification Officer	NIT T Stock Verification Committee	01-05-2015	12-05-2015
Stock Verification Officer	NIT Trichy Stock Verification Committee	01-05-2015	18-05-2015
Final year PAC Chairperson	ICE Department NIT T	15-07-2021	24-09-2021
Final year PAC Chairperson	ICE Department NIT T	15-10-2020	24-03-2021
B Tech Project Coordinator	ICE NITT	20-10-2020	10-06-2021
First year PAC Chair	ICE NITT	23-08-2017	31-07-2018
Final year PAC Chair	ICE NITT	15-07-2018	30-11-2018
3 rd year PAC	ICE NITT	15-07-2015	10-12-2015
2 nd year PAC	ICE NITT	10-01-2011	22-06-2011
Industrial Visit coordinator	ICE NITT	19-02-2020	21-02-2020
3 rd year PAC	ICE NITT	04-01-2017	24-05-2017
In-charge	(Biomedical Laboratory) ICE NITT	12-08-2015	24-09-2021
Faculty Advisor	ICE NITT	05-08-2014	21-07-2018
Reporting Officer	ICE NITT	15-05-2018	15-05-2018
Coordinators(Sensor 2013)	ICE NITT	10-03-2013	11-03-2013

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- Embedded systems
 - Industrial Internet of Things
 - Biomedical Instrumentation
 - Soft computing techniques
 - Neural Network and Fuzzy logic
 - Digital signal processing
 - Digital Electronics
 - Signals and Systems
 - Microprocessors and Microcontrollers
 - Digital Electronics
 - Sensors and Transducers
 - Processor Control and Instrumentation
 - Electron Devices
 - Data Communication and Telemetry
 - PLC and Distributed Control systems
 - Virtual Instrumentation
- (iii) Projects guided at Postgraduate level

Title	Student Name	Year
Remote Patient Monitoring System Using PIC Microcontroller	P K Ramya (CLD0513)	2007
Wireless Network in Industrial Automation - PLCs Going Wireless	Karthik Nimmagadda (CLD0503)	2007
Implementation of Wireless Sensor Network for Temperature Monitoring	P S K Harinath Gupta (202207008)	2009
Wireless Sensor Network for Traffic Monitoring	Ramesh Babu (202207005)	2009
CAN Based Smart Sensor Network for Indoor Air Quality Monitoring	Minu a Pillai (202208022)	2010
TDMA Based Network Protocol	Yaswanth Sai	2010
Implementation of Wireless Sensor Network for Agricultural Harvesting	Shinde Sumit Sadashiv (202211028)	2013
Time-Frequency Analysis of EEG Signal for Seizure Prediction	T Venkataramana (202212014)	2014
GSM Based Heart Rate Monitoring System	Pinky Dutta	2013
Visualize the Recorded EEG in the Desktop Computer Using PuTTY Software Through Serial Interface	Ashish Bhoi (202218002)	2020

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Neural Network Besed Epileptic Seizure Detection System	Archit Rawat (202219002)	2021
Convolutional Neural Network based patient independent system to detect the electrical onset of seizure	Ankit (202220003)	2022
Automated rice crop disease detection using deep learning and IOT	Suchitra R (210120022)	2022
Design of inductive position sensor for Motor control – hurst motor	Dinkar Verma (210120008)	2022

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Embedded System Based Mobile Patient Monitoring Device	MHRD, Government of India, 2004-2007	12.09.2007	30.09.2009	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Recent Trends in Biomedical Systems	National	28.06.2010 To 03.07.2010	Coordinator	NIT Tiruchirappalli
Cancer and Regenerative Medicine	National	17.07.2015 To 22.07.2015	Coordinator	ICE Dept. NIT Trichy
Recent Trends in Biomedical Instrumentation	National	22.02.2014 To 23.02.2014	Coordinator	NIT Trichy
Biomedical Equipment - Testing and Calibration	Local	16.11.2013 To 16.11.2013	Coordinator	NIT Trichy
Basics and Advances in Electroencephalography	National	06.04.2019 To 07.04.2019	Coordinator	NIT Trichy
Video EEG Machine Training	Local	09.08.2019 To 11.08.2019	Coordinator	vEEG Lab NIT Hospital
10-20 Electrode Placement System to Record the Scalp EEG	Local	21.01.2019 To 22.01.2019	Coordinator	vEEG Lab NIT Hospital
International Conference on Instrumentation and Control (ICECON2019)	International	19.12.2019 To 21.12.2019	Organizing Committee member	ICE Dept., NITT

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
ISSS (Life Member)	ISSS	
Life Member	Indian Epilepsy Association (IEA)	
Life Member	Institute of Engineers (IE)	

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Sridevi V, Ramasubba Reddy M, Srinivasan K, Radhakrishnan K, Rathore C, Nayak DS	Improved Patient-Independent System for Detection of Electrical Onset of Seizures	Journal of Clinical Neurophysiology	36(1)	14-24	2019	
V Sridevi, D.Rathikarani, K.K.Anilkumar, N.Sivakumaran	Minimum variance controller using recursive least determinant algorithm	Journal of the Instrument Society of India	39(2)		2009	
Pinki Duta and V Sridevi	Heart rate measurement from the finger and GSM based heart rate monitoring system using low cost microcontroller	Indian Streams Research Journal			2013	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Sridevi V	Patient Independent Neuro-Fuzzy System to detect the Electrical onset of Seizure	International Conference on Instrumentation and Control Engineering (ICECON2019)				2019
Sridevi V, Ramasubba	Performance of	Proceedings of			Kottayam	2018

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Reddy M, Srinivasan K, Radhakrishnan K, Nayak DS, Rathore C	patient independent seizure detection system using time domain measures,	the International Conference of Circuits and Systems in Digital enterprise Technology (ICCSDET 2018)				
Sridevi V, Ramasubba Reddy M, Srinivasan K, Radhakrishnan K, Rathore C, Nayak DS	Study of significance of spectral and wavelet energy measures to detect the electrical onset of seizure	Proceedings of the International Conference on Inventive Computing and Informatics (ICICI 2017)			Coimbatore	2017
R. Dinesh Kumar, K. Srinivasan, V.Sridevi,	A multisensor Data Fusion using different State Estimators	National Conference on Recent Trends in Instrumentation and Control (RTIC-2013)			MIT, Chennai	2013
Minu A Pillai, Sridevi Veerasingam, Yaswanth Sai D	Implementation of Sensor Network for Indoor Air Quality Monitoring using CAN.	IEEE2010				2010
Minu A Pillai, Sridevi Veerasingam, Yaswanth Sai D	CAN based Smart Sensor Network for Indoor Air quality Monitoring	IEEE2010				2010
Sridevi Veerasingam, Saurabh Karodi, Sapna Shukla, Mehar Chaitanya Yeleti	Design of Wireless Sensor Network node on ZigBee for Temperature monitoring”,	Computer Society IEEE 2009.				2009
S.Hemnath, V.Sridevi,	GSM Network Based Z-axis Position Control System.	Computer Society IEEE 2009				2009
YaswanthSai D,Sridevi Veerasingam, Minu A Pillai,	Design of Sensor node for synchronized TDMA Network.	Proc. Of Int. Conf. on Control, Communication and Power Engineering 2010, ACEEE, 2009				2009
V.Sridevi, D.Rathikarani,	Minimum variance	NSI-31				2007

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

K.K.Anilkumar, N.Sivakumaran,	controller using Recursive Least Determinant algorithm.	organized by Instrument society of India & Institute of Technology and Management, Gwalior(M.P) during 12 th to 15 th of October 2007				
V.Sridevi, B.Malarkodi, G.Sivegurunathan	Performance analysis of Medium Access Control protocols for wireless Networks	NCSSC-2007, Organized by Department of Electronics and Communication Engineering, Anna University, Chennai-25 conducted during 1 st and 2 nd June				2007
K.Shyam Ravi, Shankar, N.P.Gopalan, C.Mala, K.Anuja, V.Sridevi	Human- Robot coordination for multi-sized fish-like robot using wired communication.	World Congress on Engineering and Computer Science (WCECS 2007), ISBN (978-988-98671-6-4)				2007

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number