

## ACADEMIC PROFILE



### **DR. A. JEGATHEESH**

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### **CAREER OBJECTIVES**

Serving with sincerity and honesty coupled with efficient hard work for the growth of the corporate in general and individual growth in particular.

### **EDUCATION DETAILS**

<b>DEGREE</b>	<b>UNIVERSITY/BOARD</b>	<b>INSTITUTION</b>	<b>YEAR</b>	<b>AGGREGATE</b>
Ph.D (Information and Communication)	Anna University	Arunachala College of Engineering for Women, Vellichanthai	2021	-
M.E (Applied Electronics)	Anna University	Anna University of Technology, Tirunelveli	2010-12	<b>7.1/10</b>
B.E. (Electronics and Instrumentation)	Anna University	Noorul Islam College Of Engineering, Kumara coil.	2006-10	<b>69%</b>
H.S.C	TN State Board	Scott Christian Higher Secondary School, Nagercoil.	2006	<b>83.2%</b>
S.S.L.C	TN State Board	Scott Christian Higher Secondary School, Nagercoil.	2004	<b>81.4%</b>

## AREA OF INTEREST

- Applied Mathematics on Electronics and Electrical Engineering
- Fractional Order Control System Design
- Optimum and Adaptive Control
- Signal Processing

## CAREER ACHIEVMENTS

- Secured **GATE Score** in **ECE and IN** Departments
- Awarded certificate of appreciation for securing **100% Pass Percentage** in Digital Signal Processing, Control System like subjects in ECE Department, DMI Engineering College, Kanyakumari.
- Organized Conferences, Symposium and Quiz competitions.

## EXPERIENCE (10 Years and 11 Months)

- Worked as an Assistant Professor in ECE Department at DMI Engineering College, Kanyakumari from September 2012 to April 2019 (**6 Years and 7 Months**)
- Worked as an Assistant Professor in ECE Department at Arunachala College of Engineering for Women, Kanyakumarifrom April 2019 to February 2022 (**2 Years and 10 Months**)
- Worked as an Assistant Professor and Head of Biomedical Engineering Department at Loyola Institute of Technology and Science, Nagercoil from February 2022 to October 2022 (**0 Years and 08 Months**)
- Worked as an Assistant Professor in ECE Department at Arunachala College of Engineering for Women, Kanyakumai from October 2022 to May 2023 (**0 Years and 07 Months**)
- Currently working as an Assistant Professor in Biomedical Engineering Department at SRM Institute of Science and Technology, Chennai from June 2023 to till date (**0 Years and 3 Months**)

## JOURNAL PUBLISHED

- **A.Jegatheesh, C.Agees Kumar, “Novel fuzzy fractional order PID controller for non-linear interacting coupled spherical tank system for level process”, Journal of Microprocessors and Microsystems, Elsevier Publications, Volume 72, 2012, pages 1-13 (SCI Indexed). Impact Factor: 3.503.**
- **A.Jegatheesh, M.Germin Nisha and N.Kopperundevi, “A Novel ANFIS based SMC with**

**Fractional Order PID Controller**”, Intelligent Automation and Soft Computing, vol.36(1), pp.745-760 (SCI Indexed). **Impact Factor: 3.401**

- **A.Jegatheesh**, V.Thiagarajan, N.B.Muthu Selvan and M.Devesh Raj, “**Voltage Regulation and Stability enhancement in AVR system based on SOA-FOPID controller**”, Journal of Electrical Engineering and Technology, Springer(SCI Indexed). **Impact Factor: 1.528** [Accepted]

#### **WORKSHOP/FDP/STTP ATTENDED**

- Attended 7 days National level DFP on “**Multiverse Approach to Upskill Professionals in Contemporary Environment**”, organized by SRM Madurai College of Engineering and Technology, Sivagangai, Tamilnadu dated 21-26<sup>th</sup> August 2023.
- Attended 10 days FDP on “**Artificial Intelligence and Machine Learning Applications**”, sponsored by Ministry of Electronics and Information Technology and organized by E&ICT Academy, NIT Warangal jointly by IIITM Kurnool and Dadi Institute of Engineering and Technology, Visakhapatnam from 1<sup>st</sup>-10<sup>th</sup> July,2023.
- Attended 15 days International Online FDP on ”**Teaching, Learning and Assessing in 2030**”, Organized by SRM Institute of Science and Technology, Chennai from 6<sup>th</sup>-23<sup>rd</sup> June 2023
- Attended one day workshop on “**Post-Doctoral Work**” Organized by AU TVS Centre for Quality Management, Anna University, Chennai, January 2023.
- Attended **Two Weeks AICTE Sponsored** FDP on “**H-infinity Robust Adaptive and Optimum Control**” organized by Department of Instrumentation and Control Engineering, MIT Manipal, Karnataka from 17-29, June 2019.
- Attended 6 Days **AICTE Sponsored** Short Term Training Programme on “**Engineering Education- A Trans-Disciplinary Approach**” in Engineering in Vimal Jyothi Engineering College, Kannur, Kerala on July 16<sup>th</sup> to 21<sup>st</sup> 2019.
- Attended 3 Days **TEQIP Sponsored** National Workshop on “**Intelligent Optimization Techniques for Engineering Problems**” organized by Department of Mechanical Engineering, NIT Karnataka, Surathkal from August 19-21, 2019.
- Attended 2 Days **DST Sponsored** Programme on “**Industry Conclave and Hands on Workshop on Deep Learning**” organized by Centre for Audio Visual Speech recognition(PSG-CAVSR), PSG College of Technology, Coimbatore during August 9-10, 2019

- Attended 3 Days **IET Sponsored FDP on “Development of Research Projects using MATLAB and ARDUINO”** organized by Department of EEE, Arunachala College of Engineering for Women from 5<sup>th</sup> Dec to 7<sup>th</sup> Dec 2019.
- Attended 2 Days FDP on **“Curriculum Development in Electronics and Communication Engineering”**, organized by DMI Engineering College, Aralvaimozhi in the month of June 2015.
- Attended 2 Days FDP on **“Research and Development”**, organized by DMI Engineering College, Aralvaimozhi in the month of June 2015.
- Attended 2 Days workshop on, **“Medical Image Processing Using MATLAB”**, organized by Department of Biomedical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil held on 23<sup>rd</sup> and 24<sup>th</sup> of August 2013.

## SUBJECTS HANDLED

- Digital Signal Processing
- Signals and Systems
- Probability and Queuing Theory
- Probability and Random Process
- Transforms and Partial Differential Equations
- Circuit Theory
- Control Systems
- Linear Integrated Circuits
- Electromagnetic Fields

## GUEST LECTURES / RESOURCE PERSON

- Resource Person for seminar on **“Fundamentals of Electrical and Electronics Engineering”**, conducted by DMI Engineering College, Aralvaimozhi, dated 01-07-2023
- Resource Person for 2 days FDP on **“GATE Oriented Teaching Methods”**, in St.Xavier Catholic College of Engineering, Chunkankadai dated 04-01-2023 and 06-01-2023.
- Presented a seminar on the topic **“Role of Mathematics in Engineering”** to International fovea-Z Biomedical Association Followers on 27<sup>th</sup> August, 2022.
- Resource Person for 5 days workshop on **“Effective Utilization of fx-991MS calculator for**

**Engineering Subjects”**, in St.Xavier Catholic College of Engineering, Chunkankadai from 01-08-2019 to 10-08-2019.

- Every year doing as Resource person for **“Shortcut Techniques in Digital Signal Processing (ECE, EEE, CSE)”** in various colleges like St.Xaviers College, Cape College, CSI College, Loyola College etc.,
- Resource person for Mathematics subjects like **M1, M2, TPDE, PQT, PRP, NM** etc., in various colleges like University College Nagercoil, Theni Nadar Saraswathi College, Rohini College etc.,
- **“Bridge Course for Lateral Entry students and 12<sup>th</sup> Students”** in almost all colleges in and around the Kanyakumari District.
- Every year giving special lectures to **12<sup>th</sup> Students** on Physics, Chemistry and Mathematics to Govt. Schools and Govt. Aided Schools like SMRV School, Nagercoil, Govt. School Peruvilai etc.,
- **GATE Exam Trainer** for Final Year and Pre-final year ECE, EEE students in DMI Engineering College, Aralvaimozhi.
- **GATE Mathematics Trainer** for All Departments in Arunachala College of Engineering for Women, Kanyakumari.

#### CONFERENCE ATTENDED

- Presented a paper on **“Fuzzy Based Cluster Head Selection for Wireless Sensor Networks”** in the 11<sup>th</sup> International Conference on “Frontiers of Intelligent Computing: Theory and Applications” FICTA 2023 held at Cardiff School of Technologies, Cardiff Metropolitan University, UK on 11<sup>th</sup> and 12<sup>rd</sup>, April 2023.
- Presented a paper on **“A Novel Fuzzy based fractional order Controller for Interacting Coupled Spherical Tank”** in the 2<sup>nd</sup> International Conference on “Intelligent computing Instrumentation and Control Technologies (ICICT-2019)” organized by Vimal Jyothi Engineering College, Kannur, Kerala held on 5<sup>th</sup> and 6<sup>th</sup>, July 2019.
- Presented a paper on **“Fractional order PID Controller Design for Non-linear Systems”** in the International Conference on “Recent Advances in Engineering, Technology and Applied Sciences” organized by Arunachala College of Engineering for Women, Vellichanthai, Kanyakumari held on 22<sup>nd</sup> and 23<sup>rd</sup> March 2019.
- Presented a paper on **“PID Tuning for Different Systems”** in the “National Conference on Recent Trends in Computing” organized by Department of Computer Science and Engineering, DMI Engineering College, Aralvaimozhi, Kanyakumari held on 8th March 2013.
- Presented a paper on **“Bio-medical Instrumentation”**, in the National Level paper presentation INNOVIN-'07 organized by Department of Electronics and Instrumentation, Noorul Islam College of Engineering, Kumaracoil held on 7<sup>th</sup> September, 2007