


TRICHY ENGINEERING COLLEGE
Sivagnanam Nagar, Trichy-Chennai NH, Konalai, Trichy - 621 105.

FACULTY PROFILE

Name (in BLOCK LETTERS)	Dr. R. RAJALAKSHMI
Present Designation & Dept:	Assistant Professor, ECE
Subject Area of Interest	Process Control, Control System , Communication Networks
Passport photo	
Address (for communication)	Dr. R. RAJALAKSHMI 2nd floor, 3a, Charuathi Residency 5th Cross East Street, Balaji Nagar , Kattur(Po), Trichy-620019. INDIA. Mobile No. : 9865605696 Email ID : rajalaxmi.raj@gmail.com
Address (Office)	Dr. R. RAJALAKSHMI ASSISITANT PROFESSOR & ELECTRONICS AND COMMUNICATION ENGINEERING TRICHY ENGINEERING COLLEGE Sivagnanam Nagar, Konalai, Trichy - 621 105. Mobile No.: 9865605696 Email ID : rajalakshmir@trichyengg.ac.in
Date and Place of Birth	29.05.1979
Gender	Female
Marital Status	Married
Nationality	Indian
Membership in Professional Bodies	Life Member(s) ISTE, IANENG

01) Research & Educational Degree(s):

Research Degrees	Dept./Subject (Specialization)	Title of the Dissertation	Year of award	University	
Ph.D.	EEE	Fault Tolerant Control in Process Industries	2024	SASTRA TO BE DEEMED UNIVERSITY	
M.E	ANNAMALAI UNIVERSITY	PC&I	2005	7.1CGPA	I
B.E	JCET	ECE	2000	61%	II
H.S.C	STATE BOARD	Biology, Maths, Physics and Chemistry	1996	65%	I
S.S.L.C	STATE BOARD	General Sciences	1994	64%	I

02) Teaching Experience/Post(s) held :

Teaching experience : U.G. Classes for B.E./B.Tech : 18year 9 Month

Teaching experience in Trichy Engineering College : 2 year 2 Month

College/ Institution	Designation	Duration		Experience	
		From	To	Year	Month
Trichy Engineering College	Assistant professor	31.07.2023	TILL	2	2
Indra Ganesan College of Engineering, Trichy	Assistant professor	01.08.2022	05.01.2023		5
Jayaram College of Engineering & Technology, Trichy	Assistant professor	07.08.2017	09.01.2021	3	4
Jayaram College of Engineering & Technology	Assistant Professor	29.06.2016	06.08.2017	1	2
Dhanalakshmi Srinivasan Institute of Research & Tech, Trichy	Associate Professor & HOD	18.06.2015	22.06.2016	1	0
SASTRA Deemed University, Thanjavur	Assistant Professor-I	14.06.2006	30.04.2015	8	10
Jayaram College of Engineering & Technology, Trichy	Senior Lecturer	02.06.2005	30.05.2006	0	11
Jayaram College of Engineering & Technology, Trichy	Lecturer	25.07.2002	30.08.2023	1	1

03) Administrative experience(s)

Description	Role(s)	Duration	From	To
Academic Coordinator	Academic	1.5 year	23.03.24	Till date
AI&DS	HOD	1.5 YEAR	14.12.23	19.8.25

04) Research Papers in Peer-Reviewed or UGC listed Journals INTERNATIONAL JOURNALS/CONFERENCES

R. Rajalakshmi, R. Kumaresan, S. Rakesh Kumar, (2018) **Enhancing the quadratic problem solver in the pilot scale distillation control systems using different optimization methods**, Journal of Ambient Intelligence and Humanized Computing, Vol.9(3), pp. 1-7. <https://doi.org/10.1007/s12652-018-0938-5>(IF: 1.432) (SCI-E and Scopus Indexed)

Dr.A.Senthilkumar,Dr.R.Rajalakshmi, Dr.K.Vijayan, Dr.G.Malathi,, Dr.S.Jothi Lakshmi, K.Dhivya,,Dr.D.Kannan,,(2024)**SMART HEALTH MONITORING SYSTEM FOR MATURED PEOPLE:ANIOTDRIVEN APPROACH** Journal of Xi'an University of Architecture & Technology Volume XVI, Issue 11, 2024 Page No: 170. ISSN No : 1006-7930

Dr.A.Senthilkumar,, Ms.S.Vishnushree, Dr.R.Rajalakshmi, Mrs.M.Bhuvaneshwari, Mr.D.R.Ramakrishnan, **PIC-Based Intelligent Sewer Maintenance System**, Journal of Xi'an University of Architecture & Technology ISSN No : 1006-7930. Volume XVII, Issue 1, 2025 Page No: 374

Dr.A.Senthilkumar, .R.Rajalakshmi,Dr.G.Malathi,Dr.K.Vijayan,K.Divivya, Dr.D.Kannan **Smart GPS Street Lamp Network** Journal of Electrical Systems Volume 21 issue july 2025.

R. Rajalakshmi, R. Kumaresan, (2017) Comprehensive Review on Predictive Controllers for Distillation Columns, Journal of Engineering and Applied Sciences (Accepted for Publication) (Scopus Indexed)

05) Patents / Awards/Certificates

Patent title of invention: Artificial Intelligence for Environmental Protection: Opportunities and Challenges. Publication date (04/07/2025)

06) Workshop / FDP / Seminar / Conference Attended

- Recent trends in Smart Grid Technologies NIIT-TRICHY on 26th April 2014
- One Day LATEX Workshop on 19.07.2014 at SASTRA University
- National conference on advances in process Engineering (CAPE-2014) on 10th-11th October, 2014 SASTRA University
- National conference on advances in process Engineering (CAPE-2014) SCILAB WORKSHOP on 11th October 2014 SASTRA University
- Two-week ISTE Workshop on control Systems Conducted by IIT Kharapur under the National Mission on Education through ICT (MHRD, Govt. of India) on 2nd-12th December, 2014 SASTRA University
- Two-Week ISTE Short Term Training Programme (STTP) on Pedagogy for effective use of ICT in Engineering Education Conducted by IIT Bombay Under the National Mission on Education through ICT (MHRD, Govt. of India) on 5th-7th and 19th-21st January 2015 at SASTRA University.

- One-week Faculty Development Programme Conducted by SASTRA University on 6th – 11th June 2016
- One-week Faculty Development Training Programme Conducted by University college of Engineering (BIT Campus) Trichy on 15th – 21st May 2018.
- One-week Research Methodology Workshop Conducted by SASTRA University on 20th – 27th June 2018.
- Attended Two days FDP on Innovative Teaching and Learning organized by Indra Ganesan college of Engineering 04.08.2022 to 05.08.2022
- Recent Research Issues in Antenna Design” Workshop Conducted by K .Ramakrishna College of Technology An Autonomous Institution on 06.08.2022.
- 2 days workshop on "Lab view" organized by ECE department of Indra Ganesan College of Engineering from 06.09.2022 to 07.09.2022.
- 5-DAY ONLINE FACULTY DEVELOPMENT PROGRAMME on "EMBEDDED SYSTEMS AND IOT" from 08.08.22 to 12.08.22 organized by Rajalakshmi institute of Technology, Chennai
- Five Days National level FDP on “Artificial Intelligence and Cloud Services” organized by Department of information Technology and Computer science, Sri Ramakrishna college of Arts and Science (Autonomous), Coimbatore, Tamil nadu from 31.10.2022 to 04.11.2022.
- One Day seminar on “Art of Writing research paper” organized by Indra Ganesan Institutions 19th November 2022.
- One Day Special Webinar organized on “Navigating the Landscape of Research and Development’s Opportunities and Funding Proposals” organized by Trichy Engineering College 28th August 2023.
- One Day webinar on “Journeying Beyond Chip War: Unleash the Art of Chip Design” organized by Maven Silicon on the 07th of October 2023.
- successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on VLSI Chip Design from Microscale to Nanoscale Devices and Beyond at K. RAMAKRISHNAN COLLEGE OF ENGINEERING from 16/10/2023 to 21/10/2023
- 5- Day online workshop on “Recent Advances in Control and instrumentation Design Techniques of Robotic Systems” organized by Department of Instrumentation and Control Engineering-National Institute of Technology, Trichy on the 27th -31st October, 2023.
- One-week Faculty Development Training Programme Conducted by TANSAM on “Industrial IoT and Industry 4.0” Organized by University college of Engineering (BIT Campus) Trichy on 29th Jan-03rd Feb 2024
- 2- Days online national Level faculty Development programme on “TO WRITE A RESEARCH PAPER FOR SCOPUS JOURNAL USING THE EMERGING AREA OF ACADEMYICS AND RESEARCH IN THE CURRENT SITUATION AND TECHNOLOGGIES” Department of Electronics and Communication Engineering Technology. At S.K.P. Engineering College, Thiruvannamalai, from March 13 and 14, 2024

- 2- Days online national Level faculty Development programme on “TO GET PATENT RIGHTS IN INDIA USING THE EMERGING AREA OF ACADEMICS AND RESEARCH IN THE CURRENT SITUATION AND TECHNOLOGIES” The Department of Electronics and Communication Engineering Technology. At S.K.P. Engineering College, Thiruvannamalai, from March 27, 2024, TO March 28, 2024.
- One day workshop on “GENERATIVE AI FOR GAME DESIGNERS” held on 07th November 2024 organized by department of AI&DS OF ERODE SENGUNTHAR ENGINEERING COLLEGE(AUTONOMOUS).PERUNDURAI, ERODE, TAMIL NADU, INDIA
- Participated in the event code crackers in the National level Symposium “COMBLAZE-2K24” Organized by the department of computer science and engineering on 24th September 2024.
- Participated in the event connect quest in the National level Symposium “COMBLAZE-2K24” Organized by the department of computer science and engineering on 24th September 2024
- successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Demystifying Machine Learning using Python at MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY from 14/10/2024 to 19/10/2024
- successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Antenna & RF Components for Next Gen Wireless Applications at KIT KALAIKARNAN INSTITUTE OF TECHNOLOGY from 02/12/2024 to 14/12/2024.
- Presented a paper titled on loan approval prediction using artificial neural network the second international conference on INTELLIGENT COMPUTING AND INFORMATION TECHNOLOGY(ICIT25) held on march 03rd and 04th 2025, at ERODE SENGUNTHAR ENGINEERING COLLEGE(AUTONOMOUS).PERUNDURAI, ERODE, INDIA.
- One Day Special guest lecture organized on “Advanced processor architectures for dynamic parallelism in control applications” organized by Trichy Engineering College 15th October 2024.
- Successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on A Research Centric Approach for Developing Innovative Applications using AI Tools and Technologies at NRI INSTITUTE OF TECHNOLOGY from 20/01/2025 to 25/01/2025.
- successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on The Role of Artificial Intelligence and Machine Learning in Electric Vehicle Technology at K RAMAKRISHNAN COLLEGE OF TECHNOLOGY from 10/02/2025 to 15/02/2025
- participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Recent progress in Process Modelling, Simulation and Process Control at National Institute of Technology Tiruchirappalli from 06/01/2025 to 11/01/2025

- Two Days WORKSHOP AND HANDS ON organized on “EMBEDDED SYSTEM AND IOT” organized by Trichy Engineering College 2ND TO 3rd MAY 2025.
- One Day Special guest lecture organized on “COMPUTER NETWORKS” organized by Trichy Engineering College 5th MAY 2025.
- successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Faculty Development Program on Quantum Computing at DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE from 16/12/2024 to 21/12/2024
- Presented a paper entitled AUTOMATED RESUME FILTERING USING NATURAL LANGUAGE PROCESSING AND NAÏVE BAYES in the International Conference on Power Systems & communication Engineering(ICIRIST-2025] organized by Department of ECE&EEE,Dhanalakshmi Srinivasan Engineering College(Autonomous).Perambalur.Tamil Nadu on 25 th April2025.
- One day workshop on “CLOUD COMPUTING conducted by Orionshift private limited. This workshop provided hands-on experience and in-depth knowledge on computing principles, tools and service, equipping participants with the essential skill needed in today’s digital landscape.

7) Workshop/FDP/ Seminar/ Conference Organized/GUEST LECTURE DELIVERED

1. Two Days WORKSHOP AND HANDS ON organized on “EMBEDDED SYSTEM AND IOT” organized by Trichy Engineering College 2nd TO 3rd MAY 2025.

2. One Day Special guest lecture organized on “COMPUTER NETWORKS” organized by Trichy Engineering College 5th MAY 2025.

3. Two Days FDP ON “Advancement of Artificial Intelligence in the Present and Future” organized by Trichy Engineering College 14 and 15th JULY2025