

Rajashree Raghavan

Professor

Dept. of Electrical and Electronics Engineering

LBS College of Engineering

Kasaragod, Kerala, India- 671542



EDUCATION

- Ph.D.- National Institute of Technology Calicut- 2021
- M.Tech (Instrumentation and Control Systems) - National Institute of Technology Calicut- 2007
- B.Tech (Electrical & Electronics Engineering) - Regional Engineering College Calicut- 1996

MOBILE : 9447378052

Email : rajashree@lbscek.ac.in

: rajashreeraghavan@gmail.com

RESEARCH INTERESTS

Model Predictive Control, Nonlinear Systems and Control, Multivariable Control, Artificial Intelligence Techniques in Control

PROFILES

ORCID PROFILE : <https://orcid.org/0000-0001-9859-8298>

LINKED IN PROFILE: www.linkedin.com/in/rajashree-raghavan-158388227

PROFESSIONAL EXPERIENCE

- **LBS College of Engineering** | Kasaragod | Professor | 18th November 2021 till date
- **LBS College of Engineering** | Kasaragod | Associate Professor | 2nd November 2007 to 17th November 2021

- **LBS College of Engineering** | Kasaragod | Assistant Professor | 28th June 1999 to 1st November 2007

SUBJECTS TAUGHT

- **UG Level**
Linear Control Systems, Circuits and Networks, Basic Electrical Engineering, Microprocessors and Microcontrollers, Special Electric Machines, Electrical Machines Lab, Circuits and Measurements Lab, Microprocessors and Microcontrollers Lab.
- **PG Level**
System Theory, Control Techniques in Power Electronics, and Research Methodology.

ACHIEVEMENTS

1. Principal Investigator of the winning team of Ideas to Impact Challenge 2023 jointly organized by IIT Madras and Wipro Foundation. The team was selected as one among the top five teams out of 701 teams across India and was awarded with a cash prize of INR 1 lakh.
2. Secured first rank with gold medal in M Tech from NIT Calicut during 2005-'07.

MEMBERSHIPS IN PROFESSIONAL BODIES

1. Life Member of ISTE

JOURNAL/CONFERENCE PUBLICATIONS

1. Rajashree Raghavan and Mary Reena K E, "A Review of Controller Technologies for Optimizing PV System with Zeta Converter, International Journal of All Research Education and Scientific Methods (IJARESM), Vol.12, Issue.12, December 2024.
2. Rajashree Raghavan and Susy Thomas, "Practically Implementable Model Predictive Controller for a Twin Rotor Multi Input Multi Output System, Journal of Control, Automation and Electrical Systems, Vol.28, Issue.3, March 2017.
3. Indu Poornima. A, Aiswarya Devadas, Fathimath Nabeela, Rincy P, Thejaswini K and Rajashree Raghavan, "Notch Filter Design For Suppressing Mechanical Vibrations in a BLDC Motor", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering(IJIREEICE), Vol.5, Special Issue 1, March 2017.
4. Rajashree Raghavan and Susy Thomas, "Exponentially Weighted Laguerre Function based Model Predictive Controller Design for a Twin Rotor MIMO System", IEEE International Conference on Power, Instrumentation, Control and Computing (PICC 2020), December 2020.
5. Athira M and Rajashree Raghavan, "Transformerless Topology for Performance Enhancement of a Dynamic Voltage Restorer", International Conference on Systems, Energy and Environment (ICSEE2017), Govt. College of Engineering, Kannur, Dec 2017.

6. Rajashree Raghavan and Susy Thomas, "MIMO Model Predictive Controller Design for a Twin Rotor Aerodynamic System", IEEE International Conference on Industrial Technology (ICIT 2016), Taipei, Taiwan, March 2016.
7. Rajashree Raghavan and Susy Thomas, "Intelligent Method Using Evolutionary Computation for Robust Design of PID Controllers", IEEE Conference on AI Tools in Engineering, Pune, March 2008.
8. Rajashree Raghavan and Susy Thomas, "Evolutionary Approach for the Design of Optimal Robust PID Controllers with Disturbance Rejection", International Conference on Modeling and Simulation, Coimbatore, August 2007.
9. Rajashree Raghavan and Baby Sindhu A V, "Electromechanical and Electronic Energy Systems: A Comparative Performance Evaluation", National Conference on Recent Advances in Electrical Engineering and Energy Systems (REEES-2010), Bhilwara, Rajasthan, Sept. 2010.
10. Rajashree Raghavan and Susy Thomas, "Real-coded Genetic Algorithms for the Design of Optimal Disturbance Rejection PID Controllers", National Conference on Electrical Systems & Control Technologies (ESCT 2007), NIT Calicut, May 2007.

FACULTY DEVELOPMENT PROGRAMS, CONFERENCE & WEBINARS COORDINATED

Co-convenor of the 2nd International Conference on Recent Advancements in Engineering & Technology (ICORETech 2024) held at LBS College of Engineering Kasaagod during February 8-9, 2024.

LIST OF EXPERT TALKS DELIVERED

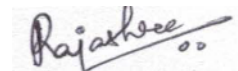
1. Delivered a lecture on Essentials of Research Writing: Methodology and Beyond on 09.01.2024 during the ATAL FDP on "Machine Learning Engineering for Production" conducted by the Dept. of CSE, LBSCEK.
2. Delivered a lecture on The Art of Writing Research Papers at College of Engineering and Technology, Payyanur on 31.05.2023.
3. Delivered a lecture on "Advanced Control Systems" for 2021-'25 batch ECE students of LBS College of Engineering Kasaragod on 21-11-2023.

MAJOR ADMINISTRATIVE WORKS UNDERTAKEN

1. Chairperson, B Tech EEE UG Practical Examinations (Kannur and Kasaragod districts) since 2021-'22.

2. Convenor, Students' Grievance and Redressal Committee
3. Member, Internal Quality Assurance Cell (IQAC)
4. Member, Board of Governors, LBSCEK
5. Member, Technical Evaluation Committee (Purchase)
6. Member, College Council
7. Convenor, Department Quality Assurance Cell (DQAC)

28-12-24
Raghavan



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