

Dr. Lisy E R

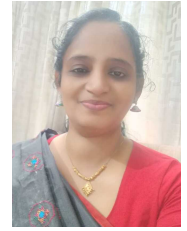
Assistant Professor

Department of Electrical Engineering
Government Engineering College Thrissur

Email: lisy@gectcr.ac.in

Mobile: +91-9496288134

Google Scholar



EDUCATION

- **Govt. Engineering College Thrissur** Thrissur, India
PhD, Sliding Mode Control of MIMO System June 2020
- **PSG Coimbatore** Coimbatore, India
ME, Control System May, 2008
- **Govt. Engineering College Thrissur** Thrissur, India
B.Tech., Electrical & Electronics Engineering June, 1995
- **St. Marys College** Thrissur, India
Pre degree June 1990
- **Sree Durgavilasam High School Peramangalam** Thrissur, India
SSLC June 1988

EXPERIENCE

1. Assistant Professor at Government Engineering College, Thrissur from June 2017 on-wards
2. Assistant Professor at Government Engineering College, Sree Krishna Puram from June 2016 to May 2017
3. Deputation for Ph.D under QIP at Govt Engineering College Thrissur from August 2013 to July 2016
4. Assistant Professor at Government Engineering College, Thrissur from June 2008 to July 2013
5. Deputation for M.Tech under QIP at PSG Coimbatore from July 2006 to May 2008
6. Lecturer at Government Engineering College Thrissur from June 2001- July 2006
7. Lecturer at Government Engineering College Kannur from Jan 2001- May 2001

RESEARCH INTERESTS

1. Application of sliding mode control to MIMO system
2. DC-DC converter
3. Trajectory Planning and Trajectory Tracking

PUBLICATIONS

Journal papers

1. Lisy E.R, M. Nandakumar, Anasraj R, " Design and Real time Implementation of non linear sliding surface with the application of super-twisting algorithm in nonlinear sliding mode control for Twin Rotor MIMO System", Journal of Vibro Engineering Vol 21, issue 8, pp.2159-2179, December 2019.
2. Lisy E R, Abdul Saleem, " A Robust Third Order Super-Twisting Controller with Reduced Chattering Effect for 2-dof TRMS", Gradiva Review Journal, vol. 7, NO. 3, pp. 17-37, 2021
3. Lisy E.R, M. Nandakumar, Anasraj R, Ramesh Kumar P., " Design of Robust Chattering free Integral Sliding Mode Controller for Dual Input Buck Boost Converter", International Journal of Applied Engineering Research , Vol 13, pp. 358- 365, 2018
4. Lisy E.R, M. Nandakumar, Anasraj R, " Super Twisting Control for Improved performance of Dual Input Buck Boost Converter", international Journal of Science and Research Vol6, Issue 5, May 2017.

Conference papers

5. Nikhila M.P, Lisy E.R, ” Direct duty ratio control based perturb and observe MPPT algorithm using switched inductor cuk converter for battery charging”, Kerala State Technological congress KETCON, GEC Thrissur 2019.
6. Lisy E.R, M. Nandakumar, Anasraj R, ” Sliding mode controller for Dual Input Buck Boost Converter”, IEEE International Conference on Power, Instrumentation, Control and computing PICC, GEC Thrissur 2015.
7. Lisy E.R, M. Nandakumar, Anasraj R, ”Design of Optimal Sliding Surface for 2-DOF Twin Rotor MIMO system ”, IEEE International Conference Kota Kina Balu, Malasia 2015.
8. Lisy E.R, M. Nandakumar, Anasraj R, ” Performance Comparison of Direct and PWM based Sliding Mode Controller for Boost Converter”, Proceedings on Emerging Trends in Electrical Engineering (ICETREE-2014,TKM Engineering College Kollam 2014.

STTPS ORGANIZED

1. Faculty Development Program on School on Advanced Control System from December 9-14, 2019 sponsored by Director of Technical Education under Faculty and Staff Development Training Center.
2. Faculty and staff Development Program on Energy Management and Audit from 30 th November to 2nd December, 2016 sponsored by Director of Technical Education under Faculty and Staff Development Training Center.

STTPS ATTENDED

1. Faculty Development Program on Robotics and Artificial Intelligence from January 4-8, 2021 sponsored by All India Council for Technical Education (AICTE) Training and Learning (ATAL) Academy
2. International faculty development program on Robotics, Artificial Intelligence, and Control Organized by Department of Mechanical Engineering, NIT Calicut from February 3-8, 2020 sponsored by TEQIP III.
3. Faculty and staff Development development program on Advances in Green Energy Technologies organised by Department of Mechanical Engineering, Govt Engineering College Thrissur from 16/12/2019 to 21/12/2019 Sponsored by DTE , KERALA .
4. Faculty and staff Development development program on Cyber security and Digital forensics organised by Department of Computer science Engineering, Govt Engineering College Thrissur from 23/7/2018 to 27/7/2018 Sponsored by DTE , KERALA .
5. Faculty development program on Linear Algebra for Engineers Organized by faculty and Staff Development Training Center, organised by Department of Electronics and Communication Engineering , GEC, Palakkad from 13/2/2017 to 15/2/2017 sponsored by Director of Technical Education.
6. Faculty development program on Advanced DSP and Applications Organized by faculty and Staff Development Training Center, organised by Department of Electronics and Communication Engineering , GEC, Palakkad from 30/1/2017 to 3/2/2017 sponsored by Director of Technical Education.

ADDITIONAL RESPONSIBILITIES

1. Coordinator for NBA accreditation of M.Tech Power Electronics GEC Thrissur 2021
2. Staff Advisor, B.Tech. 2017 admission (2017-21 batch)
3. Coordinator, Visiting Faculty Scheme, Department of Electrical Engineering, GEC Thrissur (2017 onwards)
4. Coordinator, Industry -Institute Interaction Cell, Department of Electrical Engineering, GEC Thrissur (2017 onwards)
5. Social media Coordinator, GEC Thrissur, (2020 onwards)
6. Faculty in charge of Mentorship programe under Alumni chapter(2020 onwards)
7. Coordinator, Remedial class, GEC Sreekrishnapuram (2016)