Sri Sai Ram Engineering College
Department of Instrumentation and Control Engineering

Name: **Mr.K.MOHAN RAJ**	
Designation:	Assistant Professor/Grade III
Qualification:	M.Tech
Area of Specialization:	Process control, Industrial Instrumentation, Power Plant Instrumentation
Experience:	Teaching- 7 Years
	Industry: 5 Years
Number of Workshops/ Conferences/ FDP Attended:	43

Publication:	Journal:
	    National: 0
	    International: 13

	Conference:
	    National: 0
	    International: 03

Research Guidance:	Guided 5 UG Projects till date
General:	IEEE Robotics and Automation Society - Student Chapter Advisor. ISTE- Life Time Member IEEE-Senior Member
Staff Achievement	Startup Company for Agriculture Sector - Skycatch Bots -MSME Registered

Experience:

Industry Experience :(5-years) Thermal power plant projects

S.No	COMPANY	CLIENT	DESIGNATION	AREA OF WORKING	PERIOD OF WORKING
1.	Greenesol power system pvt ltd-Bangalore.	Jindal steel ltd,Tumkur	Instrumentation Engineer	Erection and commissioning	August 2011- June-2012
2.	Greenesol power system pvt ltd-Bangalore.	Madras Sugars pvt ltd-Tirukoilur.	Instrumentation Engineer	Erection and commissioning	June 2010 - August-2011
3.	Toyo-denky power system pvt ltd-Bangalore.	Hi-tech carbon-Chennai (17MW)-Tamil nadu.	Instrumentation Engineer	Erection and commissioning	December 2006- July 2007
4.	Greenesol power system pvt ltd-Bangalore	Grasim industries ltd-jodhpur (17MW)-Rajasthan	Instrumentation Engineer	Erection and commissioning	August 2005- December 2006
5.	Greenesol power system pvt ltd-Bangalore.	ISA power plant (10 MW)-Raipur Chhattisgarh	Instrumentation supervisor	Erection and commissioning	March 2005- August 2005
6.	Triveni Engineering and industries pvt ltd Bangalore.	Rajshree sugars and chemical ltd (22.6MW)-Villupuram	Instrumentation supervisor	Erection and commissioning	April 2004- March 2005

Teaching Experience:

S. No	Name of the Institution	Designation	Department	Period of Experience
1.	Bannari Amman Institute of Technology, Sathyamangalam, Erode	Assistant Professor	Electronics and Instrumentation	2 Yrs (May 2014 – May 2016)
2.	Sri Sairam Engineering College, West Tambaram, Chennai	Assistant Professor/Grade III	Instrumentation and Control Engineering	4 years & 11 Months (Till date)

Workshop Attended:

1. Attended five days FDP on Process Modelling & Control at Sairam Engineering College

2. Two days FDP on Outcome Based Education Conducted by IQAC of Sri Sairam Engineering College

3. Five days workshop on Distributed Control systems Fundamentals and Engineering with PLC conducted by Sri Sairam Engineering College-Chennai.

4. Short Term Training Programme on "PLC, SCADA, Industrial Automation and Control (Hands on) Conducted by IIITDM, Kancheepuram. (27th and 28th September 2017)

5. Workshop on Trends in Control and Instrumentation for Power plant-A Research Perspective conducted by B.S Abdur Rahman University. (27th and 28th September 2017)

6. Potential research avenues and future opportunities in electrical and instrumentation engineering conducted by Karpagam College of engineering-Coimbatore.

7. Pre-Conference Workshop on Conventional & Modern techniques for controller design conducted by Karunya University – Coimbatore.

8. Two Week ISTE Workshop on Control System conducted by Indian Institute of technology – Kharagpur.

9. Online Workshop on esim Conducted by VIT Chennai on 14th to 16th May 2020.

FDP Attended:

1. FDP on Discrete Time Signal Processing conducted by Bannari Amman Institute of Technology- Sathyamangalam- Erode. (4th to 10th Dec 2017)

2. FDP on Logic and Distributed Control System conducted by Sri Ramakrishna Engineering College- Coimbatore (5th to 11th June 2017)

3. FDP on Methodologies & practices for profitable Research through patents & IPR conducted by Sri Sairam Engineering College-Chennai. (4th Jan 2019)

4. Six days FDP on Robotics conducted by Sri Sairam Engineering College-Chennai. (13th – 18th May 2019)

5. Two week FDP- Recent Innovations in Electrical, Electronics, Instrumentation, Automation & Teaching Pedagogy. Conducted by Sri Sairam Engineering College on 18th to 30th May 2020.

6. FDP on Internet of Things Conducted by NITTR Chennai on 15th to 19th April 2020.

7. Get Ready for AI with MATLAB and Simulink conducted by Sri Sairam Engineering College, on 18th to 20th June 2020.

8. FDP on Recent Trends in Electrical Engineering Conducted by Karpaga Vinayagar College of Engineering & Technology on 25th to 27th July 2020.

9. STTP on Recent Trends in Computational Intelligence for Healthcare Monitoring systems conducted by Bannari Amman Institute of Technology, Sathyamangalam on 12th to 17th October 2020.

10. ATAL FDP on Augmented Reality (AR)/ Virtual Reality (VR) Conducted by Guru Nanak Dev Engineering College, Ludhiana on 23rd to 27th November 2020.

11. TEQIP-III Sponsored Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development conducted by BIPIN TRIPATHI KUMAON INSTITUTE of TECHNOLOGY DWARAHAT ALMORA on 26th October to 7th November 2020.

12. ATAL FDP on Internet of Things Conducted by Kongu Engineering College, Erode, on 21st to 25th Dec 2020.

13. ATAL FDP on Electrical & Computer Engineering conducted by National Institute of Technology Raipur on 4th Jan to 8th Jan 2021.

14. NAAC Sponsored Two days National Level Webinar on Quality Sustenance through online mode of Education by IQAC, Hindusthan College of Engineering and Technology on 8/4/2021 to 9/4/2021.

15. Global Warming & Impacts Of Power Electronics Towards Green Technology by SRM Valliammai Engineering College on 24/5/2021 to 28/5/2021.

16. Online - Six Day FDTP on "EE8351-Digital Logic Circuits in Bannari Amman Institute of Technology 24/5/2021 to 29/5/2021.

17. FDP Program on Intellectual Property rights NPTEL in Jan 2021 to April 2021.

18. ATAL Online FDP on "Introduction to Software Robots and Automation, Bharathiar Centenary Memorial Government Womens Polytechnic College on 6/7/2021 to 11/7/2021.

19. AICTE Organized 5 Days online FDP on Inculcating Universal Human Values in Technical Education Online by AICTE, 2/8/2021 to 6/8/2021.

20. 7-Days Hands on Training on "Advanced Industrial Automation, Sri Sairam Engineering College Chennai on 25/10/21 to 1/11/21.

21. International workshop oin Natural Insprired Computing applied to engineering in Sri Sairam Engineering College Chennai on 23/7/2021 to 26/7/2021.

22. Three day Online Faculty Development Program on "Embedded System

23. Design Methodologies using Intel FPGA" organized by the Department of Electronics and Communication Engineering, Velammal College of Engineering and Technology in association with Intel Technology India Pvt ltd on 15/12/2021 to 17/12/2021

24. Module 7_Creative problem Solving, Innovation and Meaningful R&D, NITTT on Sept 2021.

25. Six Days Faculty Industrial Training Program, IPL Products, Thirumudivakkam, 21/2/2022 to 26/2/2022

Seminar Attended:

1. National Seminar on Didactic Seminar on Cadence OrCAD PSPICE and OrCAD PCB conducted by PSG college of Technology – Coimbatore.

2. National Seminar on Robotic Process Automation: Basics and Beyond conducted by ICT Academy on 10th April 2020.

3. National Seminar on THE FUTURE IS HERE NOW conducted by ICT Academy on 27th April to 30th April 2020.

4. National Seminar on The Future of Education, Employment & Entrepreneurship conducted by ICT Academy on 4th May to 13th May 2020.

5. MHRD IIC online session Entrepreneurship Development: Entrepreneurship, Business Idea, and Business Model Canvas on 5th May 2020.

6. MHRD IIC online session Design Thinking and Innovation: The Double Diamond Process: Entrepreneurship, Business Idea, and Business Model Canvas on 6th May 2020.

7. MHRD IIC online session IPR and Technology Transfer: Intellectual Property (IP) Management at Early Stage of Innovation and Start-ups on 7th May 2020.

8. MHRD IIC online session Entrepreneurship Development: Understanding Angel and Venture Capital Funding on 8th May 2020.

9. MHRD IIC online session Legal and Ethical Steps - Productive Entrepreneurship and Startup on 12th May 2020.

10. MHRD IIC online session Entrepreneurship Development: Innovating Self- Screen and Identify right opportunities on 13th May 2020.

11. MHRD IIC online session Entrepreneurship Development: Understanding Role and Application of Marketing Research at Idea to Start-Up Stage - Foundation Level on 14th May 2020.

12. MHRD IIC online session Entrepreneurship Development: Innovation Risk Diagnostic: Product Innovation Rubric (PIR) on 15th May 2020.

13. MHRD IIC online session Entrepreneurship Development: Use of Market Data and Application of Marketing Research Tools and Methodology - Advance Level on 20th May 2020.

14. MHRD IIC online session Entrepreneurship Development: Frugal Innovation and Social Entrepreneurship on 21st May 2020.

15. MHRD IIC online session Entrepreneurship Development: Interaction with Student Innovators and Entrepreneurs Emerged from Smart India Hackathon (SIH) on 22nd May 2020.

16. 5 weeks Webinar series in Recent Trends in Sensors and Automation Conducted by Sri Ramakrishna Engineering College on 6th June to 4th July 2020.

17. Webinar on R & D Proposal Writing for Faculties Conducted by Sri Sairam Engineering College on 12th June 2020.

18. Two Days National Level Webinar on Quality Sustenance through online mode of Education Conducted by Hindusthan College of Engineering & Technology on 8th to 9th April 2021.

NPTEL Online Certification Course:

1. NPTEL Online Certification course on Emotional Intelligence.

2. NPTEL Online Certification course on Introduction to Research.

Conference Attended:

1. **K. Mohan raj,** "Online Identification using Internal Model Control", IEEE sponsored Online International Conference on Green Engineering and Technology IC-GET 2015 at Karpagam College of Engineering, Coimbatore.

2. **K. Mohan raj,** "IoT based smart warehouse monitoring system", 6th International Conference on Chip, Circuitry, Current, Coding, and Combustion & Composites – 2018 at Sri Sairam college of Engineering, Bengaluru, Karnataka, 28th and 29th Nov 2018.

3. **K.Mohanraj, "**Voice-O-Mata Using IOT", First International Conference on Circuits, Signals, Systems and Securities ICCSSS 2020- at Bannari Amman Institute of Technology, Coimbatore on 11th and 12th December 2020.

4. **K.Mohanraj,** Machine Learning based Estimation of Room Occupancy using Non-intrusive Sensors, 2022 International Conference on Communication, Computing and IoT on 10th to 11th March 2022.

5. **K.Mohanraj,** Cloud-O-Col for PLCS Using IoT, 2021 4th International Conference on Computing and Communications Technologies (ICCCT), on 16-17 Dec. 2021.

Publication: 17
International Journal:

1. Modeling and development of laboratory-based water treatment plant. Journal of chemical and pharmaceutical research 2014, 6(2):410-415 ISSN: 0975-7384 CODEN (USA): JCPRC5.

2. ANFIS Based Low-Cost Blood Serum Analyzer. International Journal of Scientific & Engineering Research, Volume 5, Issue 9, September-2014 783 ISSN 2229-5518.

3. Nonlinear Identification of Cascaded Two Tank System. International Journal Of Innovative Research in Electrical, Electronics, Instrumentation And Control Engineering, Vol. 2, issue 10, October 2014 ISSN 2321-2004.

4. Performance Analysis of Sliding Mode Control method with a PID Controller for a Nonlinear system, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 3, Issue 5, May 2015, ISSN:2321-2004.

5. IoT based patient Monitoring system using raspberry Pi3 and LabVIEW, Pakistan Journal of Biotechnology, Vol-14, issue-3, October-2017, ISSN:1812-1837.

6. Aircraft Tracking Using Automatic Dependence Surveillance – Broadcast, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue XI, November 2017.

7. Embedded Dry Block Calibrator for Intermediate Temperature, International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-05, Issue-01, April 2019.

8. Smart Warehouse Monitoring Using IoT, International Journal of Engineering and Advanced Technology (IJEAT) Volume-8, Issue-6, August 2019.

9. FPGA implementation of smart water quality monitoring system, International Journal of Innovative Technology and Exploring Engineering- Volume-8, Issue 11, September 2019.

10. Implementation of GUI for class attendance using face detection and recognition system, International Journal of Innovative Technology and Exploring Engineering, Volume-9, Issue-1, November 2019.

11. Intelligent Controller Based Approach for Direct Torque Control of a Three Phase Induction Motor ISSN: 2394-3114 Vol 40 issue 3 (s1) Feb 2020.

12. Optimal process characteristics of melting of Polyisoprene, Materials Today: Proceedings, Jan 2021.

13. Voice-O-Mata Using IoT - IOP Conference Series: Materials Science and Engineering- Vol 1084 - March 2021.

14. Cloud-O-Col for PLCS Using IoT, Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021, 2021, pp. 309–312.

15. Machine Learning based Estimation of Room Occupancy Using Non-Intrusive Sensors, 2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings, 2022.

16. Turbidity Measurement by Alum Dosage Addition in Water Treatment Plant, Journal of Coastal life medicine, Vol-10,No-3, 102-108,2022.

17. Artificial Neural Network-Based Tic-Tac-Toe Game, Proceedings of International Conference on Communication and Computational Technologies ICCCT 2022 on 27th Sept 2022. ISBN 978-981-19-3950-1 ISBN 978-981-19-3951-8 (eBook).

Patent Details:

Title of the Invention	Application Number	Date of Filing	Publication Date
Hybrid Tricycle With To And Fro Action of Steering Mechanism	202041019166A	05/05/2020	05/06/2020