Name of the Teaching Staff	**Dr. L.D. Vijay Anand**			
Designation	Assistant Professor			
Department / School	Department of Robotics Engineering			
Date of Joining the Institution	15-05-2009			
Qualification with Class / Grade	UG	PG	Ph.D.	
	B.E. [EIE]	M.E. [Control Systems]	Ph.D. [EIE]	
Other Qualifications	-			
Area of Specialization	Industrial Automation, Process Automation System, Mobile Robotics			
Research Interests	Control Systems, Automation, Intelligent Controllers			
Subjects Teaching	Under Graduate		Post Graduate	

	1. Automation System Design 2. Mobile Robotics 3. Smart Sensors for IoT Applications 4. Control Systems 5. Digital Control Systems 6. Process Dynamics and Control 7. Process Control for Food Engineers 8. Industrial Instrumentation 9. Instrumentation and Control in Petrochemical Industries 10. Instrumentation and Control Systems 11. Mechatronics and Control Systems 12. Instrumentation and Control in Paper Industries 13. Instrumentation and Control in Iron and Steel Industries 14. Totally Integrated Automation 15. Biocontrol Systems 16. Radiation and Nuclear Medicine 17. Radiological Imaging Techniques 18. Modelling of Physiological Systems	1. Advanced Instrumentation and Process Control for Food Processing 2. Industrial Automation 3. Entrepreneurship Development for Robotics and Automation 4. Digital Instrumentation 5. Advanced Control Systems 6. Instrumentation 7. Discrete Control Systems 8. System Identification and Adaptive Control

Total Experience in Years	Teaching	Industry	Research	
	12 Years 3 Months		**12 Years 3 Months**	
Papers Published	National		International	**12**
Papers Presented in Conference	National		International	**11**
Conferences / Symposiums / Seminars / Workshops Participated	National		International	
FDP / STTP / MDP / Summer / Winter School attended				

M.Phil. / Ph.D. Guide ship	Field		University	
	Robotics and Automation		Karunya Deemed University	
Ph.D. Projects Guided	Ph.Ds	**3** [1 Full Time] [2 Part Time]	Project at Masters Level	20

Professional Memberships	The Robotics Society
Consultancy Activities	
Awards & Honours	
Grants Fetched	
Interaction with Professional Institutions	1. PSG College of Technology 2. Manipal Deemed University 3. VIT Deemed University Satyabama Deemed University
Educational Details	
Experience	12 Years 3 Months

Contact Details	vijayanand@karunya.edu Mobile No.: 99445 69390
Papers Published	1. L.D. Vijay Anand, Hepsiba, D, "Automatic strain sensing measurement on steel beam using strain gauge", Materials Today: Proceedings, 2021, 45, pp. 2578–2580. 2. L.D.Vijay Anand, Shanmugapriya, P., Rani, S.S., "IoT enabled temperature sensing system of molten metal in welding", Materials Today: Proceedings, 2021, 45, pp. 2514–2517. 3. Vijay Anand. L.D, Kamala, S.S.P., Hepsiba, D., …Jayapradha, A., Marichamy, S., "Experimental analysis on effect of infrared light source for moisture content test of silica sand", Materials Today: Proceedings, 2021, 45, pp. 2289–2292. 4. Isaac, S., Raj, A.C., Hepsiba, Anand, V., Prabakar, S., "Green technology based biomedical device for low cost screening of arthritis in rural areas", Journal of Green Engineering, 2020, 10(10), pp. 8142–8153. 5. Hepsiba. D, L.D.Vijay Anand, Malin Bruntha, P., Samson Isaac, J, "Ambulatory services for safety of victims affected by accidents", International Journal of Advanced Trends in Computer Science and Engineering, 2020, 9(5), pp. 8611-8614, 244. 6. Shivakumar, R., Hepsiba, D., L.D. Vijay Anand, "Performance analysis of qzsi for pv integrated grid system", International Journal of Advanced Trends in Computer Science and Engineering, 2020, 9(5), pp. 7731-7735. 7. Hepsiba, D., L.D. Vijay Anand, "Enhancing the production efficiency in paper recycling plant through thickness measurement", International Journal of Innovative Technology and Exploring Engineering, 2019, 8(12), pp. 4831-4833. 8. Hepsiba, D., L.D. Vijay Anand, "Design of automated bed for prevention of pressure ulcer for patient with moving disability", International Journal of Innovative Technology and Exploring Engineering, 2019, 8(11), pp. 2252-2254.

	9. L.D. Vijay Anand, Hepsiba, D., "<u>Modelling and parameter estimation of thermal process</u>", International Journal of Mechanical Engineering and Technology, 2019, 10(2), pp. 1269-1275. 10. L.D. Vijay Anand, Hepsiba, D., "<u>Real-time system identification of thermal process</u>", International Journal of Mechanical Engineering and Technology, 2018, 9(11), pp. 2076-2084. 11. L.D. Vijay Anand, Poongodi, P., Jayakumar, J., Hepsiba, D., "Analyzing the effect of pre-heater in the temperature process", International Journal of Mechanical Engineering and Technology, 2017, 8(11), pp. 113-120. 12. Poorani. V.J., L.D. Vijay Anand, "Comparison of PID controller and Smith predictor controller for heat exchanger", 2013 IEEE International Conference on Emerging Trends in Computing, Communication and Nanotechnology, ICE-CCN 2013, 2013, pp. 217-221, 6528496.
Papers presented in conferences	1. Hepsiba, D., Vijay Anand, L.D., Jane Preetha Princy.R, "Deep Learning for Sleep Disorders: A Review", Proceedings of 2021 IEEE 7th International Conference on Bio Signals, Images and Instrumentation, ICBSII 2021, 2021, 9445159 2. L.D.Vijay Anand, Winnie Clarence, "Automatic Tuning of Smith Predictor Controller on a Temperature Control", International Conference on Thermal Energy and Environment, held at Kalasalingam University, Virudhunagar, during 24th& 26th March 2011. 3. L.D. Vijay Anand, "Design of Smith Predictor Controller by Polynomial Approach", International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT-2012), Baselios Mathews II College of Engineering, Kollam, Kerala. 4. L.D. Vijay Anand, "Temperature Control of Re-Boiler using hybrid Fuzzy PD+I Controller", International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT-2012), Baselios Mathews II College of Engineering, Kollam,

	Kerala.

5. L.D. Vijay Anand, "Reliable Self Tuning Fuzzy Logic Controller for Water bath system", International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT-2012) Baselios Mathews II College of Engineering, Kollam, Kerala.

6. L.D. Vijay Anand, Rinu Raj, "Design and implementation of a CDM-PI Controller for Spherical Tank level system", International Conference on Advance engineering and technology, IRD INDIA, Kerala.

7. L.D. Vijay Anand, "Controller for Tubular Heat Exchanger", International conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing organized by KITS, Coimbatore, 2013.

8. L.D. Vijay Anand, "Simulation of Neuro-PID controller for Pressure Process", International conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing organized by KITS, Coimbatore, 1st-2nd March 2013.

9. L.D. Vijay Anand, "Comparison of PID controller and Smith predictor controller of heat exchanger", IEEE International Conference on Emerging Trends in Computing, Communication and Nanotechnology organized by Infant Jesus college of Engineering and Technology Tamil Nadu, 2013.

10. L.D. Vijay Anand, "Design and real time implementation of Modified Smith Predictor controller for temperature system", International conference on Emerging Technology Trends in Advanced Engineering Research, Feb20,21, 2012.

1. 11. Vijay Anand, "Modeling and Implementation for Pressure process", International conference on Advanced computing machines and embedded technology (ICACT 2013) organized by J.K.K.Natraja College of Engineering and Technology Tamil Nadu, 8th and 9th March, 2013.

Patents	
Books /Book Chapters	
Research Group Members	Smart Technology for Precision Farming