


Name of the Teaching Staff	Dr. P Anantha Christu Raj			
Designation	Assistant Professor			
Department / School	Robotics Engineering/School of Engineering and Technology			
Date of Joining the Institution	05.05.2008			
Qualification with Class / Grade	U	PG	Ph.D.	
	G B.E. Electrical & Electronics Engineering	M.E Control & Instrumentation	Electrical Engineering	
Area of Specialization	Advanced Robotic Process Automation, Sensors technology			
Research Interests	Robotic Systems, System Modeling and control, Energy saving			
Subjects Teaching	Under Graduate		Post Graduate	
	1) Automatic Control Systems 2) Sensor Signal Conditioning Circuits 3)Fiber Optics and Instrumentation 4)Aircraft Instrumentation 5)Control systems 6) Electrical Machines 7) Process Control for Food Engineers 8) Instrumentation and Control System 9) Instrumentation and Process Control 10) Discrete control system		1. Digital System Design 2. Advanced Robotic Process Automation 3. Theory and Design of Neuro Fuzzy Controller	

Total Experience in Years	Teaching	Industry	Research	
	13		12	
Papers Published	National	15	International	6
Papers Presented in Conference	National	9	International	2
Conferences / Symposiums / Seminars / Workshops Participated	National	18	International	7
FDP / STTP / MDP / Summer / Winter School attended	8			
M.Phil. / Ph.D. Guide ship	Field		University	
	Control and Automation, Sensor Technology, Robotic Systems,		Karunya	
Ph.D. Projects Guided	Ph.D .s		Project at Master"s Level	10
Professional Memberships	The Robotic Society			
Awards & Honours	Automation head in karunya siemens center during academic year (2017-18)			

	<p>NPTEL Online Certification Course</p> <p>RPA Developer Foundation by Uipath</p>											
Grants Fetched												
Interaction with Professional Institutions	Initiated Student Chapter of The Robotic Society											
Educational Details	<p>B.E. (Electrical & Electronics Engineering) -2004</p> <p>M.E (Control & Instrumentation Engineering) - 2006</p> <p>Ph.D (Electrical Engineering) - 2019</p>											
Experience	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Organization</th> <th style="width: 35%;">Designation/ Nature Of Work</th> <th style="width: 15%;">Period</th> <th style="width: 25%;">Years</th> </tr> </thead> <tbody> <tr> <td>Karunya Institute of Technology and Sciences</td> <td>Assistant Professor</td> <td>2008-till date</td> <td>13years 2 Months</td> </tr> </tbody> </table>				Organization	Designation/ Nature Of Work	Period	Years	Karunya Institute of Technology and Sciences	Assistant Professor	2008-till date	13years 2 Months
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Karunya Institute of Technology and Sciences	Assistant Professor	2008-till date	13years 2 Months									
Contact Details	<p>Name: P.Anantha Christu Raj</p> <p>Designation: <i>Assistant Professor</i></p> <p>E-mail: anantha@karunya.edu</p> <p>Contact No: 9843464053</p>											

**Papers
Published**

1. P.Anantha Christu Raj “IoT based smart machinability system and performances of MRR on Haynes alloy “Materials Today: Proceedings Volume 45, Pages 2528, 2021
2. - P.Anantha Christu Raj “IoT based stir casting system of aluminium MMC “Materials Today: Proceedings Volume Volume 45, Pages 2818 – 2820, 2021
3. P.Anantha Christu Raj “Methodological Role of Mathematics to Estimate Human Blood Pressure through Biosensors” International Journal of Integrated Engineering Volume 13, Issue 1, Pages 240 – 248 2021
4. P.Anantha Christu Raj “Frequency measurement through electric network analyzer for ultrasonic machining of steel “Materials Today: Proceedings Volume 45, Pages 1775 – 1778.2021
- 5.
6. P.Anantha Christu Raj, “Green transportation technology based on ergonomic posture monitoring for enhanced driver safety system” Journal of Green Engineering Vol 10(11), P12498-12506, 2020
7. Saac, J.S P.Anantha Christu Raj, Hepsiba,, Anand, V. “Green technology based biomedical device for low Journal of Green Engineering Vol 10(10), P8142-8153 ,2020
8. P.Anantha Christu Raj, “Visualization and Classification of Diseases using Deep Learning Based” Materials Science and Engineering, vol1, p 937-939, 2020
9. P.Anantha Christu Raj, A study on asset price with stochastic” Advances in Mathematics: Scientific Journal, vol 9(12) page 10155-10161, 2020
10. P.Anantha Christu Raj, , The role of RTD and liquid sensors in electric arc furnace for melting of aluminium” Materials Today ,vol 33,p 4793-4796, 2020
11. P Anantha Christu raj , “Generalized predictive controller design for compressed air distribution” International Journal of Innovative Technology and Exploring Engineering. 2019
12. P Anantha Christu raj , “Three-axis force measurement using capacitive sensor for object detection” International Journal of Innovative Technology and Exploring Engineering. 2019
13. P.Anantha Christu Raj, , “Development of mechanical based solar panel tracking system using FPGA” International Journal of Mechanical Engineering and Technology, Vol9 (11), p 1667-1674 ,2018
14. Pamela, D., Rose, P Anantha Christu raj, “Mini Optacon for Disabled” Journal of Advanced Research in Dynamical and Control System. 2018
15. P Anantha Christu raj, Rajeswari “optimal control techniques for energy saving and cost saving using variable frequency control method for pump” Journal of Web Engineering. Vol. 6, 2018
16. P.Anantha Christu Raj, “Design and development of vehicle monitoring system through black box in a car” International Journal of Mechanical Engineering and Technology, Vol 8(10) page 493-501, 2017

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| | <ol style="list-style-type: none">17. P.Anantha christu raj, “A Fuzzy Controller for Energy Optimization in Pump” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20 201518. P.Anantha christu raj, “A PI - Fuzzy Controller with Flow Control and Energy Optimization Using Flow Sensors” Optoelectronics And Advanced Materials – Rapid Communications Vol. 9, No. 5-6, p. 885 – 890, May – June 2015,19. Mr. P.Anantha Christu Raj , “Design of a Quadcopter Using PID Control Algorithm” STM journals Vol 1, November 201420. Mr. P.Anantha Christu Raj, ‘Pulse Oximeter using PSoC’;International Journal of Innovative Technology and Exploring Engineering (IJITEE);Volume 2 Issue 4 March 201321. Mr. P.Anantha Christu Raj “U-Tube Manometer calibration using Neural network”, International Journal of advanced research in electronics and communication Vol 1, No2 August 2012. |
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**Papers
presented
in
conferences**

- 1.Mr. P.Anantha Christu Raj, 'Design of Fuzzy Immune PID Controller for Liquid Level Control System', in the IEEE, Issue Date: 23-25 April 2010 On page(s): 566 – 570 Location: Bangkok Print ISBN: 978-0-7695-4042-9 INSPEC Accession Number: 11358103 Version: 01 June 2010
- 2.Mr. P.Anantha Christu Raj, "Digital Pen With a Trajectory Recognition Algorithm For Gesture Recognition ", International conference on Science,Engineering and management, 29 March 2014
- 3.Mr. P.Anantha Christu Raj, "Microcontroller Based Seat Occupancy and Belt Detection", International conference on Science,Engineering and management, 29 March 2014
- 4.Mr. P.Anantha Christu Raj , "Automated floor Cleaning Robot", First Regional conference on Process control and Automation , March 25-26 2009.
- 5.Mr. P.Anantha Christu Raj, "Speed control of DC motor Using CMAC Neural Network" , (INCOTEE-2011)
6. AnanthaChristhu Raj, "PID controllers with Fuzzy Anti- Winup Schemes for Ppressure Regulation in Hypersonic Wind Tunnel",International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT-2012), Baseliios Mathews II College of Engineering, kollam, Kerala , from Feb 20 2012
- 7.Mr. AnanthaChristhu Raj, "Design Modeling and control of an electromagnetic suspension system in Dynamic ball Motion control",International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT-2012), Baseliios Mathews II College of Engineering, kollam, Kerala , from Feb 21 2012
- 8.Mr. AnanthaChristhu Raj, "U-Tube manometer calibration using ANFIS"A International conference on Intelligent System and control ISO 2010 held on 4-5 Febriary 2010 at Karpagam college of Engineering.
- 9.Mr. AnanthaChristhu Raj," A capacitance based three dimension force measurement system using ARM Cortex M3 International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT-2012), Baseliios Mathews II College of Engineering, kollam, Kerala , from Feb 21 2012
10. Mr. AnanthaChristhu Raj," OptoWallect using PSoC CY8CKit-001 Development kit International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT-2012), Baseliios Mathews II College of Engineering, kollam, Kerala , from Feb 21 2012
11. Mr. P.Anantha Christu Raj, "Speed control of Three phase induction motor Using PWM technique implementation In FPGA" , (INCOTEE-2011)

	Sl. No	Title of the Project	File No.	Funding Agency	Status (whether ongoing/completed)	Amount (in Rs)
	Patents	1	An Antidote for Sports Injuries and Muscle Spasms	2018-0980	ICMR	completed