



Government Engineering College, Kozhikode

Kannur Road, Westhill P. O. Calicut-673005

Phone: 04952383210, principal@geckkd.ac.in



DR JITHESH P K

General Details

Name	DR JITHESH P K	Gender	Male
Staff Id	KTU-F18743	Joining Date	19/12/2013
Date of Birth	31/05/1980	Blood Group	Unknown
Department	Mechanical Engineering	Category	SC
Designation	Asst. Professor	Institution Last Worked	Government Engineering College Trichur, Thrissur
Contract Type	Permanent		
Ktu Id	KTUF-18743	PEN No	

Personal Details

Father Name	PK Chami	Marital Status	Married
Mother Name	E P Suseela	Spouse Name	Shabna KS
Nationality	Indian		

Contact Details

Phone	8281333363	Email	jitheshpk@geckkd.ac.in
Phone (Res)	00	Phone (Office)	
Present Address		Office Address	Assistant Professor in Mechanical Engineering, GEC Kozhikode

Permanent Address

Qualifications						
S.No	Degree	Discipline / Stream	University / Institution	Percentage / CGPA	Year of Passing	Special Remarks
1	Ph.D. (Doctorate)	Mechanical Engineering	Indian Institute of Technology Madras		2014	
2	ME/ M.Tech./ MS (Engg/ Sciences)	Mechanical Engineering/ Thermal Sciences	University of Kerala/ College of Engineering Trivandrum		2006	
3	BE/ B.Tech (Engineering)	Mechanical Engineering	University of Calicut/ NSS College of Engineering Palakkad		2001	

Experiences						
S.No	Description	Designation	From Date	To Date	Nature of Employment Pay	Nature of Duty
1	Assistant Professor in Mechanical Engineering, GEC Kozhikode	Assistant Professor in Mechanical Engineering	2017-06-01	0000-00-00	Permanent	Teaching
2	Assistant Professor in Mechanical Engineering, GEC Thrissur	Assistant Professor in Mechanical Engineering	2013-12-19	2017-05-31	Permanent	Teaching
3	Lecturer in Mechanical Engineering, Jyothi Engineering College Thrissur	Lecturer in Mechanical Engineering	2007-01-03	2008-01-31	Permanent	Teaching

Publications				
S.No	Description	Category	Academic Year	Period
1	Nirmal K Noble, PK Jithesh, Numerical Study on Optimizing the Geometrical Configuration of a Solar Desalination System for Enhancing Yield, International Conference on Green Energy for Environmental Sustainability - ICGEES 2020, National Institute of Technology Calicut, Kozhikode, Kerala, India, 5-6th August 2020.	International Conferences	2019-2020	In this college
2	Nirmal K Noble, PK Jithesh, Solar Distillation Using Parabolic Trough Collector, National Conference on Nanomaterials for Energy, Environment and Health Care (NEEHCON'19), NIT Calicut, 27-28th December 2019	National Conferences	2019-2020	In this college
3	Sanjeer K, PK Jithesh, Numerical Study on Performance Enhancement of Stirling Engines, National Conference on Emerging Trends in Mechanical Engineering (ETME - 2019), National Institute of Technology Warangal, Telengana, 9-10th January 2019	National Conferences	2018-19	In this college
4	K Subin, PK Jithesh, Experimental study on self-humidified operation in PEM fuel cells, Sustainable Energy Technologies and Assessments, 27 (2018), 17-22	International Journal papers with impact factor 1.5-2	2017-18	Outside this college
5	VC Midhun, K Shaji, PK Jithesh, Effect of concentrated solar radiation on reduction of pressure drop in oil pipeline, International Conference on Emerging Trends in Engineering, Science and Technology for Society, Energy and Environment, CRC Press, Pages 509-516, 2018.	International Conferences	2017-18	In this college
6	NR Manikandan, P.K Jithesh, An Experimental Investigation on Improving the Energy Efficiency of PEM Fuel Cells, 2nd National conference on Latest Trends in Mechanical Engineering, NSS Engineering College Palakkad, 23-25 March 2017.	National Conferences	2016-17	Outside this college
7	K Subin, P.K Jithesh, Potential of dry air fed PEM fuel cell in automobiles, National Conference on Futuristic Advancements in Mechanical Engineering (FAME-2K16), Volume 1, Issue 1, Pages 97-100, College of Engineering Thalassery, Kerala, India, 8-9 August 2016.	National Conferences	2016-17	Outside this college
8	P.K.Jithesh, T.Sundararajan, Sarit K.Das, Reactant outlet temperature as an indication of flooding in PEM fuel cells, 6th International Conference on Fundamentals and Development of Fuel Cells, Toulouse, France, 3 – 5th February 2015.	International Conferences	2015-16	Outside this college
9	Deepak K.T, P.K Jithesh, Startup and operating characteristics of a bubble column humidification system. 3rd National Conference on Emerging Trends in Engineering, Government Engineering College Kozhikode, Kerala, India, 30-31st October 2015.	National Conferences	2015-16	Outside this college
10	P.K.Jithesh, T.Sundararajan, Sarit K.Das, Experimental investigation of dry feed operation in a polymer electrolyte membrane fuel cell, Journal of Power Sources, 260 (2014), 243-250	International Journal Papers with impact factor >2.5	2014-15	Outside this college

11	P.K.Jithesh, T.Sundararajan, Sarit K.Das, The effect of non-uniform under-rib convection on reactant and liquid water distribution in PEM fuel cells, ASME Journal of Fuel Cell Science and Technology, 12 (2015), 041003-1-8	International Journal papers with impact factor 2-2.5	2014-15	Outside this college
12	P.K.Jithesh, A.S Bansode, T.Sundararajan, Sarit K.Das, The Effect of Flow Distributors on the Liquid Water Distribution and Performance of a PEM Fuel Cell, International Journal of Hydrogen Energy, 37 (2012), 17158-17171.	International Journal Papers with impact factor >2.5	2012-13	Outside this college
13	P.K.Jithesh, T.Sundararajan, Sarit K.Das, An Analytical and Numerical Study of Flow Distribution Using a Mixed Flow Distributor in Proton Exchange Membrane Fuel Cells, 5th International Conference on Fundamentals and Development of Fuel Cells, Karlsruhe, Germany, 16 – 18th April 2013.	International Conferences	2012-13	Outside this college
14	P.K.Jithesh, A.S.Bansode, T.Sundararajan, Sarit K.Das, Numerical Simulation of a PEM Fuel Cell Cathode with Mixed Flow Distributor, IIIrd International Conference on advances in Energy Research, IIT Bombay, Mumbai, India. 9 – 11th December 2011.	International Conferences	2010-11	Outside this college
15	P.K. Jithesh, S. Anil Lal, M.R. Rajkumar, Determination of Radiation View Factors Considering Shadow Effect, Proceedings of 5th International Symposium on Radiative Transfer, Volume 695016, Pages 2-4, 2007.	International Conferences	2007-08	Outside this college
16	P.K.Jithesh, M.R.Rajkumar, Numerical computations in radiation heat transfer considering shadow effect, 7th National Conference on Technological Trends, College of Engineering Trivandrum, Kerala, India, 17-18th November 2006.	National Conferences	2006-07	Outside this college

Programs Coordinated			
S.No	Description	Category	Academic Year
1	Coordinator - International Conference on Progressive Developments in Mechanical Engineering - PDME 2015, Government Engineering College Thrissur	Conference Co-ord	2015-16

Programs Attended				
S.No	Description	Category	Academic Year	Period
1	Optimization Using Natural Algorithms GEC Kozhikode GEC Kozhikode 20/01/2020 25/01/2020 6 Days	STTP	2019-2020	In this college
2	The Joy of Computing Using Python NPTEL-AICTE FDP MHRD, Government of India 29/07/2019 18/10/2019 12 Weeks	Other Programs	2019-2020	In this college
3	Solar Photovoltaics Fundamentals, Technology and Applications NPTEL-AICTE FDP MHRD, Government of India 29/07/2019 20/09/2019 8 Weeks	Other Programs	2019-2020	In this college
4	Advanced Tools in Engineering Optimization GEC Kozhikode APJ Abdul Kalam Technological University 22/07/2019 26/07/2019 5 Days	STTP	2018-19	In this college
5	Mathematical Methods in Engineering GEC Kozhikode TEQIP-II, GEC Kozhikode 11/02/2019 16/02/2019	STTP	2018-19	In this college
6	Induction Training Programme for Young Teachers Faculty and Staff Development Centre, GEC Thrissur DTE, Government of Kerala 21/11/2016 25/11/2016 5 Days	STTP	2016-17	Outside this college
7	Fabrication, Testing and System Integration of Solid Oxide Fuel Cells GIAN Course by IIT Madras and MHRD, Government of India TEQIP-II, GEC Thrissur 27/06/2016 02/07/2016 6 Days	STTP	2015-16	Outside this college
8	Preparation of Research Proposals to Funding Agencies Engineering Staff College of India, Hyderabad & GEC Thrissur TEQIP-II, GEC Thrissur 10/08/2015 13/08/2015 4 Days	STTP	2015-16	Outside this college
9	Faculty Development Programme Teaching Learning Centre, IIT Madras TEQIP-II, GEC Thrissur 23/02/2015 25/02/2015 3 Days	STTP	2014-15	Outside this college
10	Indo-German Workshop on Modeling and Measurement Techniques for Micro-scale Flows IIT Madras & DFG Germany TEQIP-II, GEC Thrissur 26/02/2015 28/02/2015 3 Days	Other Programs	2014-15	Outside this college
11	Control Valves and Actuators Fluid Control Research Institute, Palakkad TEQIP-II, GEC Thrissur 10/12/2014 12/12/2014 3 Days	STTP	2014-15	Outside this college
12	Faculty Development Program in Concepts Coaching ICT Academy of Kerala TEQIP-II, GEC Thrissur 03/12/2014 05/12/2014 3 Days	STTP	2014-15	Outside this college
13	Technology Enabled Teaching and Learning Indian Institute of Management Kozhikode TEQIP-II, GEC Thrissur 19/08/2014 23/08/2014 5 Days	STTP	2014-15	Outside this college

Research Activities					
S.No	Description	Academic Year	Is Funded	Funded Agency	Fund Amount
1	Dry air feed operation in PEM fuel cells	2014-15	Yes	TEQIP-Phase II, GEC Thrissur	200000

Projects Guided					
S.No	Description	Academic Year	Is Funded	Funded Agency	Fund Amount
1	Nirmal K Noble, 2020, Design and Development of a Solar Distillation Configuration for Domestic Applications	2019-2020	No		
2	Abdul Rahoof Pullathiyil, Adithyan T, Mohammed Faheem T, Vaisakh C P, 2020, CFD Analysis of Vertical Axis Wind Turbine	2019-2020	No		
3	Sachin S, Sreeraj V Sathian, Vyshnav PP, 2020, Experimental and Numerical Analysis on Stirling Engine	2019-2020	No		
4	T Ravi Kumar , 2019, Analysis of Solar-Hydrogen Fuel Cell Hybrid Systems	2018-19	No		
5	Abdul Jaleel V, Rohid Vinay C K, , Shone Jacob , Shyam Mohan K P, 2019, Numerical Analysis of Performance Degradation of PEM Fuel Cells	2018-19	No		
6	Sanjeer K, 2018, Numerical Study on the Performance Enhancement of a Stirling Engine	2017-18	No		
7	Abdul Rasheed P V, Ajay Babu, Arjun V Soonu, Rahul R, Ramanunni M, 2018, Numerical Simulation of Six Stroke Engine	2017-18	No		
8	N.R Manikandan, 2017, An experimental Investigation on Improving the Energy Efficiency of PEM Fuel Cells	2016-17	No		
9	Subin K, 2016, Experimental Investigation on Dry Air Fed Proton Exchange Membrane Fuel Cells	2015-16	No		
10	Rajiv G Nair, 2016, Numerical Investigation of Flow and Heat Transfer in a Manifold Microchannel Heat Sink	2015-16	No		
11	Sanjay NS, 2015, Effect of Cooling Plate Configurations on Temperature Distribution In PEM Fuel Cell Stack	2014-15	No		
12	Thushar P, 2015, The Effect of Flow Distributor Design on Performance of PEM Fuel Cells	2014-15	No		

Interactions with Outside World		
S.No	Description	Academic Year
1	Technical talk on the topic "Water and Thermal Management in PEM Fuel Cells" in the APJAKTU sponsored Faculty Development Program on Recent Advances in Fuel Cells during 8th to 12th July 2019 at St.Joseph's College of Engineering and Technology, Palai,	2018-19
2	Technical talk on the topic "Fuel cells- Power Source for the Future" in the DTE Kerala sponsored Faculty and Staff Development Training Program on Green Energy Technology For Natural Resource Management during 27th to 31st October 2014 at GEC Thrissur	2014-15

Research Interests	
S.No	Description
1	Renewable energy conversion systems
2	Thermal Management Systems
3	Micro Scale Transport Processes