

**Dr K MEENAKSHY**  
**ASSOCIATE PROFESSOR**



**Contact Details**

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### **Professional Qualifications**

B-Tech	Specialization	Electrical and Electronics
	Institute/University	College of Engineering, Trivandrum, Kerala University
	Year	1990
M-Tech	Specialization	Power System
	Institute/University	College of Engineering, Trivandrum, Kerala University
	Year	1995
PhD	Specialization	Biomedical Image Processing
	Institute/University	CUSAT
	Year	2011

### **Areas of Interest**

- Biomedical Image and Signal Processing, Digital Design, Embedded System Design

### **Professional Experience**

- Department Of Instrumentation CUSAT 1996-1999
- Department of Technical Education since 2000

### **Responsibilities/Position**

- IEEE SBC
- Convenor : Website/Networking/CCF/ Online Journals Committee
- Organising Secretary NET 2016
- Chairman BME Calicut University
- Member - Centre of Excellence Committee
- Research Guide- Calicut University

### Training Details (2014-15 Onwards)

Course Name	Conducted By	Sponsoring Agency	Period	No of days
Open Source Software for Engineers	GEC, Thrissur	TEQIP -II	17/02/2014 -19/02/2014	3
Hands on Training for FPGA Based Embedded System	GEC, Thrissur	QIP	17/03/2014-21/03/2014	5
Advanced MS Excel For Engineers	GEC, Thrissur	ISTE	24/06/2014-27/06/2014	4
Statistical Techniques and its Applications in Engineering Research	GEC, Thrissur	TEQIP -II	16/03/2015-20/03/2015	5
Wind Emulator	GEC, Thrissur	TEQIP -II	03/02/2016-05/02/2016	3
Hands on Training on System Design Using NI Labview	GEC, Thrissur	TEQIP -II	29/02/2016-04/03/2016	5
Open Source Tools for Computing	GEC, Thrissur	FSTDC	11/07/2016-15/07/2016	5
Research Areas in Biomedical Engg.	MEC, Thikkakara, Kochi	TEQIP -II	26/09/2016-30/09/2016	5

### Publications

- K. Meenakshy and R. Gopikakumari, "Feasibility study for categorizing renal stones," *In. Proceedings of the National Conference on Recent Innovations in Technology (NCRIT), RIT ,Kottayam, pp.1-4, March 2009.*
- K. Meenakshy and R. Gopikakumari, "Study on renal stones using grey level statistical texture features," *In. Proceedings of the Third National Conference on Intelligent and Efficient Electrical Systems, PSG College of Engineering, Coimbatore pp. 83-86, Aug. 2009.*

- K. Meenakshy, R. Gopikakumari, "Texture descriptors based on 1-D MRT," *International Journal of Recent Trends in Engineering*, vol. 2, No. 6, pp. 1-3, Nov. 2009.
- K. Meenakshy, R.C. Roy, V. Bhadrans and R. Gopikakumari, "Feasibility of texture analysis using 2-D MRT," *In. Proceedings of National Conference on Power Instrumentation Computing and Control (PICC 2010)*, Government Engineering College, Thrissur, March 2010.
- K. Meenakshy, R.C. Roy, V. Bhadrans and R. Gopikakumari, "2-D MRT features for texture classification," *In. Proceedings of Second International Conference on Computing, Communication and Networking (ICCCN 2010)* , Chettinad College of Engineering, Karur. 29-31 July 2010
- Preetha Philip, Dr. Meenakshy K," Modelling Of Brushless DC Motor Drive Using Sensored And Sensorless Control (Back Emf Zero Crossing Detection)," *In International Journal on Emerging Technology and Advanced Engineering (ISSN 2250-2459)*, Vol. 2, Issue 8, pp. August 2012.
- Preetha Philip, Dr Meenakshy K, "Modelling of Brushless DC Motor Drive Using Rotor Position Detection Algorithm," *In proceedings of National Conference on Advances in Manufacturing, Systems and Processes, NAIMSAP 2012*, Government Engineering College, Thrissur, pp. 374-377, 5-7 September 2012.
- Manju B, Dr Meenakshy K, Dr. R. Gopikakumari "Optimum Selection of 8x8 UMRT based Texture Descriptors using Genetic Algorithm," *In proceedings of National Conference on Recent Trends in Electrical and Electronics Engineering, NCRTEEE 2013*, Jerusalem College of Engineering, Chennai, May 2013, pp 111-114.
- S.P. Priya and Dr.K. Meenakshy "Power Quality Improvement of a Seven Level Inverter with Less Number of Switches using Intelligent System " *In proceedings of ICMF 2013*, Government Engineering College, Thrissur, 6-8 November 2013,pp 405
- D.K. Harisha and Dr.K. Meenakshy "Maximum Power Point Tracking for Solar PV using Intelligent Systems", *In Proceedings of ICMF 2013*, Government Engineering College, Thrissur, 6-8 November 2013,pp 470.
- Manju B, Jaya VL, Meenakshy K, Gopikakumari, 8 x 8 SMRT based Texture Descriptors, *Lecture notes on Software Engineering*, Vol 3(4), Nov. 2015 pp 295-298.

- Nayana KS, Meenakshy K, Stability Enhancement of Wind Power Integrated System Using PID Controlled SVC and Power System Stabiliser, International Journal of Scientific Engineering and Technology, Vol. 3(10), October 2014, pp 1250-54.
- Maya U.C., Meenakshy K, Brain Tumor Segmentation Using Asymmetry Based Histogram Thresholding and K- Means Clustering, International Journal of Research in Engineering and Technology, eISSN: 2319-1163, Dec 2014, pp 62-65.
- Manju B, Meenakshy K, Gopikakumari, Prostate Disease Diagnosis from CT images using GA optimized SMRT based Texture Features, (International Conference on Information and Communication Technologies (ICICT 2014),CUSAT, 3- 5, Dec 2014, pp 1692- 1699) Elsevier Procedia Computer Science 46 ( 2015 ) pp 1692 – 1699.
- Sreejil Raju, Meenakshy K, Power System Stability Improvement of Wind Farm Fed to a Multi Machine System by using STATCOM, International conference on Power, Instrumentation, Control and Computing (PICC), 9-11 Dec 2015, Thrissur, India, pp 1-7. Print ISBN 978-1-4673-8071-3
- Maya UC, Meenakshy K, Unified Model based Classification with FCM for Brain Tumor Segmentation, International conference on Power, Instrumentation, Control and Computing (PICC), 9-11 Dec 2015, Thrissur, India, pp 1-7. Print ISBN 978-1-4673-8071-3
- Shweta C, Meenakshy K, Combined NLM Weiner Filter based Denoising, International conference on Power, Instrumentation, Control and Computing (PICC), 9-11 Dec 2015, Thrissur, India, pp 1-7. Print ISBN 978-1-4673-8071-3
- Santhosh Raj, Meenakshy K, A unique grid power controller for DFIG based wind turbine generator system with or without battery storage device, IJRSET, Volume 5, Special Issue 5, April 2016
- Krishna Moorthy, Meenakshy K, Prediction of Fragmentation of Kidney stones: A Statistical Approach from NCCT images, CUAJ, Vol 10 , Issue 7-8, July-August 2016, pp E237-240
- R. George and K. Meenakshy, "Stress-recovery correlates of cardiac vagal modulation in women recruit undergoing basic combat police training," 2016 IEEE Annual India Conference (INDICON), Bangalore, 2016, pp. 1-5. doi: 10.1109/INDICON.2016.7838986

### **Achievements/Awards**

- Outstanding Student Branch Counsellor Of IEEE Kerala Section, 2013

### **Project/Consultancy**

- Guiding 5 Ph D students under Calicut University