PROFILE

1	N CE 1 N N					
1	Name of F		Meenak			
2	Designatio	n	Principa			
3	Departmen	ıt	Electrica	l & Elect	ronics Engineering	
4	Contact No).	0484 240	02490		
_	,			•	ny@gmail.com	
5	Email		meenaks	hy@gecto	cr.ac.in	
6	Academic	Qualifi	cations			
	Degree			Area of	Institution	
		Year		lization		
	B Tech	1990	Electrica		College of Engineering, Tr	rivandrum
			Electron			
	M Tech	1995	Power S	System	College of Engineering, Ti	rivandrum
	Ph D	2011	Image		Cochin University of Scien	nce & Technology,
			Processi	ing	Kochi	
7	Professional Period Serv		rience	Name of	finstitution De	signation
	1996 - 19	99		Department of		Lecturer(Contract
				Instrumentation, CUSAT)
	1999 - 200	00		SOE, CUSAT		Lecturer (Adhoc)
	2000 – 201	16		Govt. E	ngineering College,	Assistant
				Thrissur		Professor
	2016- June	2019		Govt. E	ngineering College,	Associate
				Kozhiko	ode	Professor
	June 2019	– Jun20	22	Govt. En	ngineering College,	Professor
	July 2022-	02 May	2023	Governi	ment Engineering College,	Professor and
						Head
	06 May 20	23- 02 J	une 2023	Governi	ment Engineering College,	Principal
				Wayana	nd	
	03 June 20)23- Till	date			Principal
8	Publication	ıs		1		
8	06 May 20 03 June 20	23- 02 J 023- Till	une 2023	Palakkad e 2023 Government Engineering College, Wayanad		Head Principal

	Journal	Nos. 17
	International Conference	Nos.14
	National Conference	Nos. 5
10	Membership in professional Bodies	ISTE Life member
		IEEE Senior Member
11	No. of PhD Scholars guiding	Awarded-5, Guiding -4
	/awarded	
12	Field of interest	Image Processing, Biomedical Applications,
		Embedded System Design

13	Additional Responsibilities	1. Faculty Advisor – 2001 pass out
		2. Faculty Advisor- 2004-2008 batch
		3. Faculty Advisor 2010-2014 batch
		4. Faculty in Charge- Resonance 2010
		5. IE Accreditation Coordinator -2011
		6. TEQIP Phase I – Involved in IDP -2012
		7. Faculty in charge - KITES 2013
		8. IEEE Student Branch Counsellor- GEC
		Thrissur 2012-2016
		9. IEEE Student Branch Counsellor- GEC
		Kozhikode 2016-2019
		10. E Journals – Faculty in charge 2016-2019
		11. CCF charge 2017
		12. NPTEL SPOC -2017to 2019
		13. Women Cell Coordinator – 2014 to 2016
		14. Dean Research, 2021 to 2022
		15. QIP Coordinator 2021 to 2022
		16. Chairman of Biomedical Engineering
		Branch of Calicut University from 2012 onwards
		17. Ladies Hostel Warden - 2018 to 2019
		18. IQAC Department Coordinator-
		2020,2021
		19. Nominated member, Faculty of
		Engineering, Calicut University, from
		2021.
		20. Vice Chair WIE, IEEE Kerala Section
		2019,2020
		21. Chair WIE, IEEE Kerala Section
		2021,2022
		22. BTech Project Coordinator – 2020,2021
		23. Chairman – End Semester External Lab
		Exam (S5) 2022
		24. Vice Chair, Kochi Subsection-2023
		25. IEEE Kerala Section Execom Member-
		2024
		26. Reviewer/ Chairing Sessions -
		Conferences

14 Awards/R	Lecognition	1. Outstanding Branch Counselor award
		IEEE Kerala Section for the year 2013.
		2. Active SPOC for NPTEL-SWAYAM
		for July- October 2018 Semester
		3. Active SPOC for NPTEL-SWAYAM
		for Jan-April 2019 Semester
		4. Organising Secretary – Best Professional event of the year of IEEE Kerala Section for 2022 - IEEE WIEILS 2022
		5- Award for outstanding volunteering and taking IEEE Kerala Section to greater heights in 2022
		6 Outstanding WIE Volunteer of Kerala Section award for the year 2023

LIST OF STTP'S ATTENDED (from 2012 onwards)

Course	Conducted	Sponsorin	Period	Duratio		
Name	by	g Agency	From To		n	
Computer Analysis of Power System	Dept of EEE, GEC, Thrissur	FSTDC	25.06.18	29.06.1 8	5 days	
Faculty Developme nt Program for Student Induction	RSET, Kochi	AICTE	08.06.18	10.06.1	3 days	
Research Proposals and patents	Dept. of CE, GEC, Thrissur	FSTDC	27.11.17	1.12.17	5 days	

Holistic Approache s for Leadership Empowerm ent	Dept. of CE, GEC, Thrissur	FSTDC	17.07.17	21.07.1 7	5 days
Open Source Tools for Computing	Dept. of CSE, GEC, Thrissur	FSTDC	11.07.16	15.07.1 6	5 days
Hands on Training on System Design using NI Labview	Dept. of EEE, GEC, Thrissur	FSTDC	29.02.16	04.03.1 6	5 days
Wind Emulator	Dept. of EEE, GEC, Thrissur	IIIC	03.02.16	05.02.1 6	3 days
Statistical Techniques and its application in Engineerin g Research	Dept of Economics, GEC, Thrissur	TEQIP Phase II	16.03.15	20.03.1	5 days
Advanced MS Excel For Engineers	GEC, Thrissur	ISTE	24/06/14	27/06/1 4	4 days

Hands on Training for FPGA Based Embedded System	GEC, Thrissur	QIP	17/03/14	21/03/1	5 days
Open Source Software for Engineers	GEC, Thrissur	TEQIP -II	17/02/14	19/02/1 4	3 days
Applications of Power Electronics	GEC Thrissur	TEQIP-II	07/10/13	11/10/1	5 days
Mathemati cal Modelling and Analysis of systems	GEC, Thrissur	TEQIP-II	10/06/13	15/06/1 3	6 days
Embedded System Design for Power Measurements	ESIC, Hyderabad	TEQIP-II	13/02/13	15/02/1	3 days
Academic Leadership	IIM Kozhikode	TEQIP	17/01/13	19/01/1	3 days

Embedded					
system design using Microcontr oller and FPGA	GEC, Thrissur	DTE	06/08/12	11/08/1 2	6 days

LIST OF STTP'S COORDINATED (2012 onwards)

Sl No	Name of Course	Period	No. of days	Name of institution
1	Mathematical Modelling and Analysis of systems	10.06.13 to 15.06.13	6 days	Govt. Engineering College,Thrissu r
2	Hands on Training on System Design using NI Labview	29.02.16 to 04.03.16	5 days	Govt. Engineering College,Thrissu r

LIST OF CONFERENCE ORGANISED

Sl No	Name of Course	Period	No. of days	Name of Institution
1	3rd International Conference on Materials for the Future – Innovative Materials, Processes, Products and Applications – 'ICMF 2013'	06.11.13 to 08.11.13	3 days	Government Engineering College, Thrissur

2	IEEE International Conference on	09.12.2015-	3	Government
	Power Instrumentation Control and	11.12.2015	days	Engineering
	Computing –PICC 2015			College,
				Thrissur
3	National Conference on Emerging	07.10.16-	2	Government
	Trends in Technology – NET 2016	08.10.16	days	Engineering
				College,
				Kozhikode
4	IEEE WIE International Leadership	29, 30 July	2	Hotel Uday
	Summit WIE ILS 2022	2022	days	Samudra,
			-	Trivandrum
5	9th IEEE WIECon-ECE-International	25,26 Nov	2	SCT College of
	WIE Conference on Electrical and	2023	days	Engineering,
	Computer Engineering 2023			Trivandrum

LIST OF STUDENT PROJECTS/STUDENT RESEARCH PROJECTS

Ph D Projects Guided

Sl No	Name of	Period	Brief Description	Name	of
	Project/research			Student	
	work				
1	Fusion Based	2014-2019	Segmentation of	Maya UC	
	Automatic		brain tumor from		
	Segmentation		MRI carried		
	of Brain		using using HAC		
	Tumour from		based classifier.		
	MRI Images		MSPTF based		
			features are used.		
			A refinement is		
			also carried out		
			to improve the		
			segmentation		
			result		

	T , C1	2015 2010	TD1 4 1	D
2	Impact of long-	2015-2019	The study was	•
	term physical		carried out using	George
	training on		objective	
	cardiac control		measures of	
	of autonomic		Heart Rate	
	nervous system		Variability(HRV	
	and stress-), Heart Rate	
	recovery		Recovery	
	characteristics		(HRR), Electro	
	using		Dermal Activity	
	physiological		(EDA) and	
	signals - Focus		subjective	
	on women		questionnaires.	
	police recruits			
	of Kerala			
3	An Automated	2014-2020	An algorithm is	Anilkumar K
	Algorithm To		developed to	R
	Extract		detect the	
	Features From		presence of	
	Retinal Fundus		diabetic	
	Images To		retinopathy and	
	Detect Diabetic		its severity level	
	Retinopathy		automatically	
	And Assess Its		from fundus	
	Severity Using		images. This	
	Deep Learning		effort will assist	
			in the early	
			diagnosis and	
			treatment of	
			diabetic	
			retinopathy.	
1	1	1	l	

1(Co midad)	Management of	The massemals	Javalaum an D
4(Co guided)	Management of	The research	Jayakumar P
	Phase	work considers	
	Unbalance in	the high neutral	
	Low Voltage	current	
	Distribution	contributed by	
	Network	the zero-	
	(LVDN) with	sequence	
	Distributed	components of	
	Generators and	phase unbalance	
	Diverse Load.	and harmonics as	
		one of the main	
		challenges in	
		LVDN and	
		suggests	
		sustainable	
		solution	
5(Co Guided)	Power	work proposes a	Needhu
3(Co Guidea)	Management of	rule based charge	
	Hybrid Energy	controller based	vargnese
		on ANFIS for	
	System using		
	Adaptive	the battery of a	
	Neuro-Fuzzy	standalone	
	Inference	photovoltaic	
	System	system. ANFIS	
		predicts the	
		maximum power	
		that can be	
		produced by the	
		PV system and	
		the panel voltage	
		at which	
		maximum power	
		can be tracked	
		from the	
		PV panel.	
		1 · Panen	1

M Tech Projects guided

Sl	Name of Project/research work	Period	Name of
No			Student

1	Modelling of Wind Turbine System and its Grid Performance Analysis	2010- 2011	Vivek Mohan
2	Sensored and Sensorless Control (Using Back EMF Zero Crossing Detection) for brushless DC Motor	2011- 2012	Preetha Philip
3	Power Quality Improvement of new seven level inverter with less number of switches using intelligent systems	2012- 2013	Priya S P
4	Maximum Power Point tracking using different Intelligent Systems	2012- 2013	Harisha D.K
5	Stability Enhancement of Wind power integrated system using PID controlled SVC and power system stabiliser	2013- 2014	Nayana K S
6	Modelling of Hybrid AC/DC Micro grid linked to electric vehicle charging station using battery energy storage systems	2014- 2015	Syam V S
7	Power System Stability Improvement wind farm fed to Multi machine system using STATCOM	2014- 2015	SreejilRaju
8	Analysis of power injection into the grid using a DFIG based wind energy conversion system	2015- 2016	Santosh Raj
9	Sensorless control of BLDC motor	2016- 2017	Chandini K P
10	EEG controlled robotic arm	2017- 2018	Anaswara P
11	Enhancement of Power Quality by using Trans ZSI DVR in Grid Connected PV System	2019- 2020	Sariga Kunnath
12	Analysis of Small signal stability of AC MTDC Power System	2019- 2020	Nabeel Aslam MT

13	Power Quality Control of the grid fed	2021-	Haripriya C
	solar PV system using Infinite Impulse	2022	
	response filter		

B Tech Projects guided

Sl No	Name of Project/research work	Period	Name of Student
1	Power Quality Classification using Discrete Wavelet transform	2012	Rakesh Krishnan Rakesh R Prabhu RakeshViswanadha n Ranjith R Rejith Jose
2	Fuzzy logic based relaying for power transformer protection	2013	Jiyad K Joe Joy Joseph Babu Keerthana Kennedy
3	Power generation from Speed Breaker	2015	Lalu K B Deepak K T Anoop K A Midhun T M
4	Campus Management system	2017	AthiraSahadevan Cliffiya Rose maria Deepti D S Drisya K

5	Women Safety Night Patrolling	2019	Athira Mohan
	Robot		DeeptiAloysias
			Sajna T
			FuadIbraham
6	Solar Powered Reverse Osmosis for	2020	Amal Babu
	Desalination of Water		Arsha
			Ashwindas P
			Jishnu PS
7	Analysis and control of	2021	Reshma Rajesh
	capacitive coupled grid connected Inverter		Reshma Rangan
			Sandrakrishna K.J
			Sreya Venu
8	EEG controlled smart prosthetic	2022	Fathima Shirin A S
	arm		Afeef T K
			Irshada P
9	Photovoltaic based Water	2023	Alana N
	Pumping System using Brushless DC Motor		Anees Mohammed
			Kiran K
			S Seethalakshmy

Publications

National Conference

- 1. **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.
- 2. **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.
- 3. **K.** Meenakshy, R.C. Roy, V. Bhadran 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.
- 4. **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.
- 5. **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.

International Conference

1. **K. Meenakshy, R.C. Roy, V. Bhadran 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

- 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
- 3. **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, 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
- 5. **SreejilRaju, 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
- 7. **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
- 8. **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

- 9. Anil Kumar K.R and Meenakshy K. Extraction of Blood Vessels in Retinal Images for Automatic Diagnosis of Diabetic Retinopathy"", IC-AMMN-2K16, DTE sponsored International Conference on Advances in Applied Mathematics, Materials Science and Nanotechnology Engineering and Industrial Applications organized by Federal Institute of Science and Technology, Hormis Nagar, Angamaly, Kerala during 07-01-2016 to 09-01-2016.
- 10. Sunny T.D., Roshita Raj P, Meenakshy K, Classification of Motor Imagery Signals using ANFIS to control a robotic system, IEEE International Conference on Power, Instrumentation, Control and Computing, 19-21 Dec 2020, GEC, Thrissur
- 11. Navya V.N., Meenakshy K, Application of Signal Processing to detect Urinary Dysfunction: A Review on different techniques, IEEE International Conference on Power, Instrumentation, Control and Computing, 19-21 Dec2020, GEC, Thrissur.
- 12. **DadiRamu, Meenakshy K, Suresh K Damodar**, A modified droop control method for DC Microgrid with improved voltage regulation and current sharing, , IEEE International Coference on Power, Instrumentation, Control and Computing, 19-21 Dec 2020, GEC, Thrissur.
- 13. **Haripriya** C, **Meenakshy** K, International Conference on Circuit control and Energy, ICCCE, 7-9 July 2021, Christ College of Engineering, Irinjalakuda
- 14. **DadiRamu, Meenakshy K, Suresh K Damodar**, An adaptive PI based distributed control method to maintain accurate power sharing and voltage regulation in DC Microgrids, INDICON 2022, 24-26 November, CUSAT, Kochi
- 15. Navya VN, Meenakshy K, Manju B, Swarun Raj RS, Wavelet Thresholding for GWO Optimisation for EEG Denoising ICTEST 2024 technically sponsored by IEEE April 11-13 2024, Govt Model Engg College, Kochi

Journal

- 1. **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.
- 2. **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.

- 3. **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.
- 4. **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.
 - 5. **Maya UC, Meenakshy K**, Brain TumorSegmentationUsing Asymmetry Based Histogram Thresholding and K- Means Clustering, International Journal of Research in Engineering and Technology, eISSN: 2319-1163, Dec 2014, pp 62-65.
- 6. Santhosh Raj, Meenakshy K, A unique grid power controller for DFIG based wind turbine generator system with or without battery storage device, IJIRSET, Volume 5, Special Issue 5, April 2016
- 7. **Krishna Moorthy, Meenakshy K**, Prediction of Fragmentation of Kidney stones: A Statistical Approach from NCCT images, CUAJ,Vol10, Issue 7-8, July-August 2016,pp E237-240.
- 8. **Maya UC, Meenakshy K**, "Hierarchical Agglomerative Clustering Based Combined Feature Selection and Multi-Class Support Vector Machine for Brain Tumour Classification", Journal of Medical Imaging and Health Informatics, Volume 7, No 8, December 2017,pp.1714-1722(9).**DOI:**https://doi.org/10.1166/jmihi.2017.2271
- 9. Remya George, ²Biju Bahuleyan, ³K. Meenakshy" Cardiovascular response to simulated real and non-real life stressors A comparative case study using heart rate variability and personality traits in a physically trained group " In International Journal of Pure and Applied Mathematics Volume 119 No. 16, 2018, 2647-2664 ISSN: 1314-3395., Academic Publishers.

- 10. ¹Remya George, ²Biju Bahuleyan, ³K. Meenakshy, "Assessing the Effect of Long Term Physical Training and Classification of Training Status using HRV and HRR of Female Police Recruits" In International Conference on Digital Imaging and Biomedical Informatics- Sapience 2018, at SNGCE, Kochi, and Published in International Journal of Simulation: Systems, Science and Technology, ISSN: 1473-804x online, UK Simulation Society.
- 11. 'Remya George, 'Biju Bahuleyan, 'K. Meenakshy, "Heart Rate Variability Dynamics in Stroop's Color Word Test- A Case Study Addressing the Psycho Physiological Fatigue Status in an Aerobically Conditioned Group", In Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 15-Special Issue, 2018
- 12. **NoushiraK.I,Anil Kumar K.R, Meenakshy K.**" A Survey on FeatureExtraction Methods in Retinal Fundus Images for Diabetic Retinopathy", International Journal of Computer Sciences and Engineering, Vol.7, Issue 4, April 2019 pp 77-87.
- 13. **Anil Kumar K.R, Meenakshy K** "Retinal Vasculature Extraction using Non-subsampled Contourlet Transform and Multi-structure Element Morphology by Reconstruction" International Journal of Recent Technology and Engineering, ISSN 2277-3878, Volume -8, Issue 2, July 2019.
- 14. **Anil Kumar K.R.,Noushira K.I., Meenakshy K.**," Classification of Diabetic Retinopathy Features using Bag of Feature Model", International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Vol-9, Issue-1, Nov 2019, pp: 381-385.
- 15. Anil Kumar K.R., Megha P.M., and Meenakshy K.,"Diabetic Retinopathy Detection & Classification Techniques: A Review", International Journal of Scientific & Technology Research, ISSN: 2277-8616, Vol-9, Issue-3, March 2020,pp:1621-1628.
- 16. R Dadi, K Meenakshy, S K Damodaran, "A Review of Secondary Control Methods in Microgrid", Journal of Operation and Automation in Power Engineering, Vol 11, No 2, pp 105-112, 10.22098/JOAPE.2022.9157.1636, Feb 2022

17. **George Remya, Jose Reshma, Meenakshy K, Jarin T, Senthil Kumar S**, "Effect of long term exercise training on physiological signals and personality traits in women in law enforcement", Journal of Intelligent and Fuzzy Systems ,pp 1-13, October 2022 DOI: 10.3233/JIFS-221588, vol , pp 1-13, 2022

EXPERT TALKS GIVEN.

- 1. Expert Talk on Texture Modeling in the ISTE STTP 'Modeling and Optimization Techniques in Engineering', MOTE 2010, organized by Division of Electronics Engineering School of Engineering Cochin University of Science and Technology, Kochi-22 from 18 to 30 October 2010.
- 2. Expert Talk on Biomedical Instrumentation an Overview on 27 September 2011 at Workshop organized by Rajagiri Institute of Science and Technology, Kochi
- 3. Expert Talk on Tools for processing of Biomedical Images at ISTE-SRM STTP on Image Processing on 07.06.2013 at IHRD College of Engineering, Attingal
- 4. Expert Talk on Biomedical Processing at AICTE Sponsored Faculty Development Programme conducted by Albertan Institute of Science and Technology on 09.05.2013 at AISAT, Kochi
- 5. Expert Talk on Processing of Biomedical Images at AICTE Sponsored STTP on Frontiers in Biomedical Engineering on 29 April 2013 at Model Engineering College, Thrikkakara.
- 6. Expert Talk on FPGA based digital system design using VHDL at Sahrdaya College of Engineering & Technology, Kodakara on 4th September 2014
- 7. Expert Talk on Basics on VHDL at TEQIP sponsored workshop FPGA Based System Design organized by GEC, Thrissur on March 17, 2014
- 8. Expert Talk on Biomedical Processing at FSTDC Sponsored STTP conducted by Dept of Computer Science, GEC Thrissur on January 6 2015.
- 9. Expert Talk on Transforms for Biomedical Image Processing at TEQIP Sponsored STTP on Applications of Various Transforms in Engineering from 9 Jan to 13 Jan on 11.01.2017 at IHRD Kalloppara Engineering College, Thiruvalla

- 10. Expert Talk on Fundamentals of Matlab at TEQIP sponsored STTP of Matlab applications organized by Department of Chemical Engineering, Government Engieering College, Kozhikode on Feb 2017
- 11. Expert Talk on Computational Methods for Image Processing, at AICTE sponsored FDP on Computational Method as on Fluid and Structural Mechanics from 1 July to 12July 2019 at RSET, Kochi on 05.07.2019
- 12. A session on Image Processing in Biomedical Applications in KTU sponsored FDP on Advancements in Image Processing Applications organised by Department of Computer Science and Engineering, SCMS School of Engineering and Technology, Karukutty from 29th August to 2nd September 2022
- 13. Keynote address for CoreEL Edu Summit on 9th November 2023 at Kochi