

PROFILE

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|---|-------------------------|--|-------------------------------|--|
| 1 | Name of Faculty | Meenakshy K | | |
| 2 | Designation | Principal | | |
| 3 | Department | Electrical & Electronics Engineering | | |
| 4 | Contact No. | 0466 2260565 | | |
| 5 | Email | principal@gecskp.ac.in | | |
| 6 | Academic Qualifications | | | |
| | Degree | Year | Branch/Area of Specialization | Institution |
| | B Tech | 1990 | Electrical & Electronics | College of Engineering, Trivandrum |
| | M Tech | 1995 | Power System | College of Engineering, Trivandrum |
| | Ph D | 2011 | Image Processing | Cochin University of Science & Technology, Kochi |
| 7 | Professional Experience | | | |
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| | Period Served | Name of institution | | Designation |
| | 1996 - 1999 | Department of Instrumentation,CUSAT | | Lecturer(Contract) |
| | 1999 - 2000 | SOE, CUSAT | | Lecturer (Adhoc) |
| | 2000 – 2016 | Govt. Engineering College, Thrissur | | Assistant Professor |
| | 2016- June 2019 | Govt. Engineering College, Kozhikode | | Associate Professor |
| | June 2019 – Jun2022 | Govt. Engineering College, Thrissur | | Professor |
| | July 2022- 02 May 2023 | Government Engineering College, Palakkad | | Professor and Head |

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| | 06 May 2023- 02 June 2023 | Government Engineering College, Wayanad | Principal | |
| | 03 June 2023- Till date | Government Engineering College, Palakkad | Principal | |
| 8 | Publications | | | |
| | Journal | Nos. 17 | | |
| | International Conference | Nos.14 | | |
| | National Conference | Nos. 5 | | |
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| 10 | Membership in professional Bodies | ISTE Life member IEEE Senior Member | | |
| 11 | No. of PhD Scholars guiding /awarded | Awarded-5, Guiding -4 | | |
| 12 | Field of interest | Image Processing, Biomedical Applications, Embedded System Design | | |
| 13 | Additional Responsibilities | <ol style="list-style-type: none"> 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 Ceell Coordinator – 2014 to 2016 | | |

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| | | <ul style="list-style-type: none"> 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 |
| 14 | Awards/Recognition | <ul style="list-style-type: none"> 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 |

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| | | 5- Award for outstanding volunteering and taking IEEE Kerala Section to greater heights in 2022 |
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LIST OF STTP'S ATTENDED (from 2012 onwards)

| Course Name | Conducted by | Sponsoring Agency | Period | | Duration |
|---|----------------------------------|-------------------|----------|----------|----------|
| | | | From | To | |
| Computer Analysis of Power System | Dept of EEE, GEC, Thrissur | FSTDC | 25.06.18 | 29.06.18 | 5 days |
| Faculty Development Program for Student Induction | RSET, Kochi | AICTE | 08.06.18 | 10.06.18 | 3 days |
| Research Proposals and patents | Dept. of CE, GEC, Thrissur | FSTDC | 27.11.17 | 1.12.17 | 5 days |
| Holistic Approaches for Leadership | Dept. of CE, GEC, Thrissur | FSTDC | 17.07.17 | 21.07.17 | 5 days |

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| Empowerment | | | | | |
| Open Source Tools for Computing | Dept. of CSE, GEC, Thrissur | FSTDC | 11.07.16 | 15.07.16 | 5 days |
| Hands on Training on System Design using NI Labview | Dept. of EEE, GEC, Thrissur | FSTDC | 29.02.16 | 04.03.16 | 5 days |
| Wind Emulator | Dept. of EEE, GEC, Thrissur | IIC | 03.02.16 | 05.02.16 | 3 days |
| Statistical Techniques and its application in Engineering Research | Dept of Economics, GEC, Thrissur | TEQIP Phase II | 16.03.15 | 20.03.15 | 5 days |
| Advanced MS Excel | GEC, Thrissur | ISTE | 24/06/14 | 27/06/14 | 4 days |

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

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| Academic Leadership | IIM Kozhikode | TEQIP | 17/01/13 | 19/01/13 | 3 days |
| Embedded system design using Microcontroller and FPGA | GEC, Thrissur | DTE | 06/08/12 | 11/08/12 | 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, Thrissur |
| 2 | Hands on Training on System Design using NI Labview | 29.02.16 to 04.03.16 | 5 days | Govt. Engineering |

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| | | | | College, Thrissur |
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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 Power Instrumentation Control and Computing –PICC 2015 | 09.12.2015-11.12.2015 | 3 days | Government Engineering College, Thrissur |
| 3 | National Conference on Emerging Trends in Technology – NET 2016 | 07.10.16-08.10.16 | 2 days | Government Engineering College, Kozhikode |
| 4 | IEEE WIE International Leadership Summit WIE ILS 2022 | 29, 30 July 2022 | 2 days | Hotel Uday Samudra, Trivandrum |

LIST OF STUDENT PROJECTS/STUDENT RESEARCH PROJECTS

Ph D Projects Guided

| Sl No | Name of Project/research work | Period | Brief Description | Name of Student |
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| 1 | Fusion Based Automatic Segmentation of Brain Tumour from MRI Images | 2014-2019 | Segmentation of brain tumor from MRI carried using HAC based classifier. MSPTF based features are used. A refinement is also carried out to improve the segmentation result | Maya UC |
| 2 | Impact of long-term physical training on cardiac control of autonomic nervous system and stress-recovery characteristics using physiological signals - Focus on women police recruits of Kerala | 2015-2019 | The study was carried out using objective measures of Heart Rate Variability(HRV), Heart Rate Recovery (HRR), Electro Dermal Activity (EDA) and subjective questionnaires. | Remya George |
| 3 | An Automated Algorithm To Extract | 2014-2020 | An algorithm is developed to detect the | Anilkumar K R |

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|--------------|--|--|---|-------------|
| | Features From Retinal Fundus Images To Detect Diabetic Retinopathy And Assess Its Severity Using Deep Learning | | presence of diabetic retinopathy and its severity level automatically from fundus images. This effort will assist in the early diagnosis and treatment of diabetic retinopathy. | |
| 4(Co guided) | Management of Phase Unbalance in Low Voltage Distribution Network (LVDN) with Distributed Generators and Diverse Load. | | The research work considers the high neutral current contributed by the zero-sequence components of phase unbalance and harmonics as one of the main challenges in LVDN and suggests sustainable solution | Jayakumar P |

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| 5(Co Guided) | Power Management of Hybrid Energy System using Adaptive Neuro-Fuzzy Inference System | | work proposes a rule based charge controller based on ANFIS for the battery of a standalone photovoltaic 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. | Needhu Varghese |
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M Tech Projects guided

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

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| 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 |

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| 13 | Power Quality Control of the grid fed solar PV system using Infinite Impulse response filter | 2021-2022 | Haripriya C |
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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 Rakesh Viswanadhan 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 | Athira Sahadevan Cliffiya Rose maria |

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| | | | Deepti D S Drisya K |
| 5 | Women Safety Night Patrolling Robot | 2019 | Athira Mohan DeeptiAloysias Sajna T FuadIbraham |
| 6 | Solar Powered Reverse Osmosis for Desalination of Water | 2020 | Amal Babu Arsha Ashwindas P Jishnu PS |
| 7 | Analysis and control of capacitive coupled grid connected Inverter | 2021 | Reshma Rajesh Reshma Rangan Sandrakrishna K.J Sreya Venu |
| 8 | EEG controlled smart prosthetic arm | 2022 | Fathima Shirin A S Afeef T K Irshada P |
| 9 | Photovoltaic based Water Pumping System using Brushless DC Motor | 2023 | Alana N 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
2. **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.
4. **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.
6. **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 Conference 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

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 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.
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. **¹Remya George, ²Biju Bahuleyan, ³K. 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. **Noushira K.I., Anil Kumar K.R, Meenakshy K.** "A Survey on Feature Extraction 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' ,MOTTE 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 Engineering College, Kozhikode on Feb 2017
11. Expert Talk on Computational Methods for Image Processing, at AICTE sponsored FDP on Computational Methodas 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