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| Name: | <div>  </div> K.SUBHASHINI | | |
| Designation: | ASSISTANT PROFESSOR GRADE I | | |
| Qualification: | M.E (Doing Ph.D) | | |
| Area of specialization: | MEDICAL ELECTRONICS | | |
| Experience : (As On July 2022) | Industrial Experience | Teaching Experience | |
| | - | 19years | |
| Number of workshop / FDP attended: | Number of Workshops | Number of FDPs | |
| | 14 | 17 | |
| Publications: | Conference | | Journal |
| | National | International | National |
| | 7 | 9 | 5 |
| Patents: | National | | International |
| | 4 | | - |
| Professional Body Membership: | ISTE, IETE, IEEE | | |

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| Staff Achievements: | <p>Obtained 100% result in Computer Architecture in the academic year 2009-10</p> <p>Obtained 100% result in Advanced Digital Signal Processing in the academic year 2010-11</p> <p>Obtained 100% result in Computer Architecture and Organization in the academic year 2014-15</p> <p>Obtained 100% result in Advanced Digital Signal Processing in the academic year 2015-16</p> <p>Obtained 100% result in Advanced Digital Signal Processing in the academic year 2016-17</p> <p>Obtained 100% result in Medical Electronics in the academic year 2018-19</p> | | | |
| Workshop Details: | Sl. No. | Title | Venue | Month/Year |
| | 1 | Practical aspects & implementation of networking protocols | Velammal Engineering College, Chennai. | September 2006 |
| | 2 | Digital Image Processing | Sri Ramakrishna Engineering College, Coimbatore | February 2007 |
| | 3 | MATLAB & its Applications | SSN College of Engineering, Kalavakkam | May, 2007 |
| | 4 | Recent Trends in Wireless Information Networks and Systems | Sri Sairam Engineering College, Chennai | February 2008 |
| | 5 | Digital IC testing using automatic test equipment | Tessolve in association with ELCOT, Chennai | April 2009 |
| | 6 | High speed Digital design and testing | Madras Institute of Technology, Chennai | September 2009 |
| | 7 | Research Methodologies in next generation wireless network | Sri Sairam Engineering College | August 2010 |

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| | 8 | using OPNET Wireless Communication and Radiating Systems | Sri Sairam Engineering College | March 2011 |
| | 9 | Acquisition, Processing and Optimization of Real Time signals, Images and Videos | Easwari Engineering College, Chennai | May 2011 |
| | 10 | Introduction to LABView programming and Data Acquisition system | VIT Chennai | February 2014 |
| | 11 | Green Communication | St.Joseph's Institute of Technology, Chennai | September 2014 |
| | 12 | Python Programming | Sri Sairam Engineering College, Chennai | October 2017 |
| | 13 | Emerging Trends and Future Perspective in Image Processing and Computer Vision | Sri Sairam Engineering College, Chennai | January 2018 |
| | 14 | Wearable sensors And devices, artificial intelligence and wearables markets (WSAIM) | IEEE Sensors Council Italy Chapter | 18th-19th November 2020 |
| FDP Details: | Sl. No. | Title | Venue | Month/Year |

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|--|----|--------------------------------------------------------|--------------------------------------------------------|-----------------------|
| | 1 | Advanced Digital Signal Processing | College of Engineering Guindy, Anna University Chennai | May 2008 |
| | 2 | VHDL Programming | Sri Sairam Engineering College | March 2010 |
| | 3 | Recent Developments in Computing | Sri Sairam Engineering College, Chennai | April 2010 |
| | 4 | MATLAB Applications in Electrical Engineering | Sri Sairam Engineering College, Chennai | March 2012 |
| | 5 | World Class Higher Learning Institutions and Faculties | Sri Sairam Engineering College, Chennai | December 2012 |
| | 6 | Computer Networks | Sri Sairam Institute of Technology, Chennai | January 2016 |
| | 7 | Optical Communication and Networks | Sri Sairam Engineering College, Chennai | June 2017 |
| | 8 | Control Systems | NPTEL (12weeks) | Jan-April2018 |
| | 9 | Health Research Fundamentals | NPTEL (8weeks) | August-September 2018 |
| | 10 | Goal Setting | Sri Sairam Engineering College, Chennai | December 2018 |

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| | 11 | Entrepreneurship Career Development Program | Sri Sairam Engineering College, Chennai | April 2019 |
| | 12 | Artificial Intelligence: Concepts and Applications- ATAL FDP | Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram | December 2019 |
| | 13 | Deep Learning Applications- STTP | Sri Venkateshwara College of Engineering | 19.10.20 to 23.10.20 |
| | 14 | Capacity Building- ATALFDP | Thapar Institute of Engineering and Technology, Punjab | 26.10.20 to 30.10.20 |
| | 15 | Data Science and Analytics using Python-ATAL FDP | Indian Institute of Information Technology, Nagpur | 30.11.20 to 4.12.20 |
| | 16 | SciLab Programming | NITTTR Chandigarh | 25.4.22 to 29.4.22 |
| | 17 | Deep Learning and its applications- FDP | Sri Sairam Engineering College | 11.7.22 to 15.7.22 |
| Conference Details: | Sl. No. | Title | Venue | Month/Year |

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| | 1 | Compression of Echocardiogram image sequence using H.264 | ETCCN'07 Rajalakshmi Engineering College, Chennai | April 2007 |
| | 2 | National Conference on Signals, Systems & Communication | College of Engineering Guindy, Anna University Chennai. | June 2007 |
| | 3 | National Conference on Biomedical Engineering & Bio-Informatics | Sri Sairam Engineering College, Chennai | February 2009 |
| | 4 | International Conference on "Innovative Computing, Information and Communication Technology | Sri Sairam Engineering Collge, Chennai | December 2009 |
| | 5 | Denoising of ECG signal and QRS peak detection using Empirical Mode Decomposition | Karpaga Vinayaga College of Engineering and Technology | 2012 |
| | 6 | Visual Fuzzy Controller for Gesture Language Recognition system to aid Physically impaired people | University College of Engineering, Panruti-IJERT | March 2013 |
| | 7 | National Conference on Advanced Communication & Computing Techniques | Sri Sairam Engineering College, Chennai | March 2013 |

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| | 8 | National Conference on Advanced Communication & Computing Techniques | Sri Sairam Engineering College, Chennai | April 2014 |
| | 9 | International Conference on Recent trends in Engineering Science and Management | Jawaharlal Nehru University, New Delhi | March 2015 |
| | 10 | International Conference on recent trends in Engineering & Technology | St. Joseph's Institute of Technology, Chennai | May 2017 |
| | 11 | International Conference on recent trends in Engineering & Technology | St. Joseph's Institute of Technology, Chennai | May 2018 |
| | 12 | International Conference on Advanced Scientific Innovation in Science, Engineering and Technology | Bharath Institute of Higher Education and Research | April 2018 |
| | 13 | International Conference on Information, Embedded and Communication Systems | St. Joseph College of Engineering | March 2019 |
| | 14 | Survey on Benefits of Pranayama on Respiratory health | IETE Zonal Seminal, Sri Sairam Engineering | September 2019 |

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| | 15 | using Pressure Sensor Shelf Traversing BOT for Commercial and Industrial Applications | College, Chennai IC3IOT 2020 Sri Sairam Engineering College | February 2020 |
| | 16 | Acquisition and Analysis of Respiratory signal | IC3IOT 2022 Sri Sairam Engineering College | March 2022 |

| Journal Details: | Sl. No. | Title | Journal Name | Volume/Date |
|------------------|---------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| | 1 | Epileptic seizure Detection using higher order moments on EEG signals | International journal of Biomedical Signal Processing, pg21-25, | volume 2, number 1, January-June 2011 |
| | 2 | A Survey on fetal ECG Denoising and QRS peak detection | Coimbatore Institute of Information Technology International Journals,pg 260-264 | Volume 4, No.6,2012 ISSN: 0974 – 9594 |
| | 3 | Using ANC and Wavelet Based Technique for De-Noising the ocular artifact and detection of epileptic in EEG signal | International journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, pg261-266 | Volume 3, Special Issue 3, April 2014.ISSN (Print):2320-3765 ISSN(Online):2278-8875. |
| | 4 | An Efficient algorithm for the removal of impulse | International Journal of Advanced Technology in Engineering and | Volume No.03, Special Issue No.01, |

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| | | noise in images using Blackfin Processor | Science, pg1284-1291 | March 2015 |
| | 5 | The new method for Blood vessel segmentation and optic disc detection | International Journal of Pure and Applied Mathematics | Volume No.119 NO.7 2018 1053-1059 |
| | 6 | Utilization of Aquaculture in Agriculture using Image Processing | International Journal of Scientific Research and Review, pg 955- 958 | Volume 8, Issue 3, 2019 ISSN No. 2279-543X |
| | 7 | An Approach For Als Patients To Control Home Appliances Using Beta Waves | TEST Engineering Management | <i>January - February 2020 ISSN: 0193 - 4120 Page No. 7729 - 7733</i> |
| | 8 | Survey on Benefits of Pranayama on Respiratory health using Pressure Sensor | Studies in Indian Place Names | Vol 40 issue 1 (s1) January 2020 ISSN: 2394-3114 |
| | 9 | Numerical analysis of hip bone replacement design parameters | Materials Today Proceedings | https://doi.org/10.1016/j.matpr.2021.03 . |
| | 10 | Acquisition and Analysis of Respiratory signal | IEEE Xplore | https://doi.org/10.1109/IC3IoT53935.2022.9767939 |
| | 11 | Mobile app for dental caries detection by deploying deep learning model | Neuro Quantology | DOI: 10.14704/nq.2022.20.13.NQ88175 |

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| | 12 | EOG Signals – A Biomarker for Neurodegenerative Diseases | International journal of science and innovative engineering & technology | ISBN 978-93-81288-22-1 |
| Patent Details: | Sl. No. | Title | Journal Name | Volume/Date |
| | 1 | Frequency Based Insect Repellant System for Safety Agricultural Field | Official Journal of the Patent office | 36/2020 4.9.20 |
| | 2 | Machine learning based personality prediction system and big 5 personality traits using python language | Official Journal of the Patent office | 16.11.21 |
| | 3 | An Electric Vehicle Charger | Official Journal of the Patent office | 25.2.2022 |
| | 4 | A wearable pregnancy monitoring apparatus to collect physiological parameters | Official Journal of the Patent office | 8.11.22 |

Additional Details:

- **Delivered a guest lecture on Advanced Digital Signal Processing for M.E Communication Systems (2013-2015 Batch) students on 7.12.2013 at Sri Venkateshwaraa College of Technology, Sriperumbudur, Chennai-105.**
- **Delivered a Short Course on Signal Segmentation in the International Conference (IC3IOT) on 16.2.18 at Sri Sairam Engineering College, Chennai-44.**
- **Co-ordinated ZENISTA '18 -21st National Level Technical Symposium conducted by the Department of ECE, Sri Sairam Engineering College, Chennai-44.**
- **Reviewed sample chapters of Control Systems of Oxford University Press.**
- **Organized Anna University sponsored FDTP on CS8082-Machine Learning Techniques during 2.6.21 to 7.6.21.**
- **Published a Book chapter titled “Design and experimental investigation of nanobots for cancer therapy” in the book Robotics And Automation, ESN Publications, pp 76-85, 2021.**
- **Published a Book chapter titled “Investigation of COVID-19 Chest X-ray Images using Texture Features – A Comprehensive Approach” in the Book Computational Modelling and Imaging for SARS-CoV-2 and COVID-19, CRC Press, 2021.**
- **Attended one week Industrial training at GH Induction India during 20.6.22 to 25.6.22.**

