



St. Joseph's Institute of Technology

St. Joseph's Group of Institutions

OMR, Chennai - 119

Department of Electronics and Communication Engineering

(Accredited by NBA)

FACULTY DETAILS

Staff Name	Dr.G.S.UTHAYAKUMAR
Designation	Associate Professor
Date of Birth	04.06.1969
Educational Qualification	B.E.M.E.Ph.D.,M.B.A.,M.S.W
Area of Interest	Biomedical Electronics, VLSI and Embedded Systems
Years of Experience	19 years 1month
Area of Research	Biomedical Optics
No. of Students Project Guided	80
Publications Details	<p>List of Journal Publications</p> <p>1.G.S.Uthayakumar, Bhaskar D, M.Vanitha, R.Suganthi, V.Savthiri, S.Kamatchi,"Design Criteria for enhanced energy constraint MAC protocol for WSN" Journal of Measurement of Sensors, Science Direct, Elsevier, Volume 25,2023,100642,ISSN2665-9174, https://doi.org/10.1016/j.measen.2022.100642, Impact factor:0.83</p> <p>2.G.S.Uthayakumar, Beulah Jackson, C.Ramesh Babu Durai A.Kalaimani, S.Sargunavathi, S.Kamatchi, "Systematically efficiency enabled energy usage method for an IOT based WSN environment "Journal of Measurement of Sensors, Science Direct, Elsevier, https://doi.org/10.1016/j.measen.2022.100615 Scopus Indexed with Impact Factor : 0.83</p> <p>3.G.S.Uthayakumar¹, Shankar Nayak Bhukya², Mohan M³, Neel Kamal⁴, N. R. Medikundu⁵, Penumuchi Bujji Babu⁶, Asiful Hansari Saikh⁷, Mohammad. A Islam⁸,</p>

	<p>Hana beyene Mamo⁹ “Cloud Computing architecture for Linear Thermal Effects of Photovoltaic Energy Systems” International Journal of Photoenergy, accepted for publication. Impact factor: 2.535</p> <p>4.V. Senthil Nayagam¹, G.S.Uthayakumar² , V. Devaraj³ , Vinjamuri Venkata Kamesh⁴ ,R. Vijaya Kumar Reddy⁵ , E.Abdul.Al.Ammar⁶ , A.S.Mohammed Metwally⁷ , M.Ataul Islam⁸ , Haiter Lenin Allasi⁹ “Hybrid Deep Learning Model for the Performance Enhancement of Super Solar Charging Batteries” International Journal of Photoenergy, accepted for publication. Impact factor: 2.535</p> <p>5.G.S.Uthayakumar, F. Albinus Sagay Tomson and R. Ashwin "Remote Detection for the Presence of NH₃, CO₂, CH₄, H₂S, CO and other Toxic Gases at Various Locations in a Sewer to Alert the User" International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) Volume 4, Issue 2, April 2021</p> <p>7.G.S.Uthayakumar "Light transport in a fibril film sheet" International Journal of Electronics and Communication Engineering (IJECE) ISSN(P): 2278-9901; ISSN(E): 2278-991X Vol. 9, Issue 5, Jul–Dec 2020; 33–42</p> <p>8.G.S.Uthayakumar "Novel bio-electrode for human body signal detection" International Journal of Electronics and Communication Engineering(IJECE) ISSN(P): 2278-9901; ISSN(E): 2278-991X Vol. 10, Issue 1, Jan–Jun 2021; 7–16</p> <p>9.G.S.Uthayakumar "Novel wheel chair for physically challenged using IoT" International Journal of Electronics and Communication Engineering (IJECE) ISSN(P): 2278-9901; ISSN(E): 2278-991X Vol. 10, Issue 1, Jan–Jun 2021; 17–26</p> <p>10.G.S.Uthayakumar "Li-Fi integrated to power-lines for smart illumination cum communication" International Journal of Electronics and Communication Engineering (IJECE) ISSN(P): 2278-9901; ISSN(E): 2278-991X Vol. 10, Issue 1, Jan–Jun 2021; 27-44</p> <p>11.G.S.Uthayakumar "EMG monitoring system" International Journal of Research in Engineering and Technology ISSN (P): 2347–4599; ISSN (E): 2321–8843 Vol. 9, Issue 5, May 2021, 27–44</p> <p>12.Shejolinvijai V. N., Santhosh Dharmaraj. A and G. S. Uthayakumar, "Health Support System for Diabetes Prevention Using IoT and Networked Health Monitoring Equipment", International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) Volume 4, Issue 2, April 2021,pp.10-39</p> <p>13.R. Sharine, J. Sharon and G. S. Uthayakumar “Early Stage Disease Diagnosis Using Human Nail In Image Processing” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) Volume 4, Issue 1, April 2021,</p> <p>14.G.S.Uthayakumar, A.Sivasubramanian “Characterization and parameterization of</p>
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Medicinal Drugs using Analytical techniques and Monitoring of human body tissues” Arabian Journal for Science and Engineering, Vol.39, pp.5861-5872, 2014 **Impact factor : 2.334**

15.G.S.Uthayakumar, S.Senthilkumar, S.Inbasekaran, A. Sivasubramanian, S. Justin Packia Jacob, “Nano-particle analysis for various medicinal drugs and human body saliva at macromolecular level” Appl Nanosci 5,563–568 (2015). <https://doi.org/10.1007/s13204-014-0350-1>

16.Pressia Shilpa Raj A, Vaishali T, Pugazh Germanus, G.S Uthayakumar "Invisible Sensors In Atmosphere" , International Journal of Industrial Electronics and Electrical Engineering (IJIEEE) , Volume-2, Issue-8 (Aug, 2014)

17.G.S.Uthayakumar, A Sivasubramanian "Biomedical optical analytical techniques to analyze the medicinal drugs and optical properties of tissues" International Journal of Biomedical Engineering and Technology, Vol.12, pp.36-59, 2013

18.G.S.Uthayakumar, J.Chanduru, A.Sivasubramanian, "Biomedical Optical spectroscopy techniques for Diagnosis of Human saliva sample” Asian Journal of Biomedical and Pharmaceutical Sciences 3 (24), 12-21, 2013

19.G.S.Uthayakumar, A.Sivasubramanian, S.Inbasekaran, S.Senthil, T.P.Sastry, "WAN enabled super system for Nano-biomaterials packages for bio-products and bio-materials Scientists” .International Journal of Biomedical and Advance Research 4 (9), 592-596, 2013

20.G.S.Uthayakumar, S Inbasekaran, R Senthil, S Sekar, B Santoshkumar, A Sivasubramanian, “Novel Design of Low Voltage DC Source for Bio Nano Diagnostic Applications” International Journal of Advanced Biomedical Engineering Research (IJABER) 1 (1), 2013

21.G.S.Uthayakumar, A.Sivasubramanian “Characterization and Quantization Of Medicinal Drugs Using Biomedical Optical Spectroscopy Methods” International Journal of Engineering Research & Technology 2 (2), pp.1-10, 2013

22.G.S Uthayakumar, A Sivasubramanian “A novel technique to monitor human body vital signs” International Journal of Biomedical and Advance Research 4 (9), pp. 642-651, 2013

23.G.S Uthayakumar, A Sivasubramanian “Fiber Optic Transillumination Imaging System and Human Body Relations” Open Access Scientific Reports 1 (7), 1-6

24.G.S.Uthayakumar, A Sivasubramanian “Characterization of Medicinal Drugs using biomedical optical techniques” International Journal of Biomedical Engineering and Consumer Health Informatics, ISSN: 0973-6727 (Vol.4 ,No.2 2012). Pages: 43-50.

25.R Seetharaman, GS Uthayakumar, N Kumaravel "Mobile phone antennas and its radiation patterns" IEEE Transactions on Electromagnetic Interference &

Compatibility, 2008. INCEMIC 2008, Page(s):355 - 360

26.R Seetharaman, **GS Uthayakumar**, N Kumaravel "Mobile phone usage and cancer" IEEE Transactions on Electromagnetic Interference & Compatibility, 2008. INCEMIC 2008, Page(s):627 – 632

27.G.Rajendran, T.T. Srinath, and **G.S.Uthayakumar** "A study on perceptions of entrepreneurial potential of PG Engineering students of Anna University" Published in SEDME (Small Enterprises Development, Management & Extension Journal) 2002 29:2, 1-18

Publications of IEEE Scopus Indexed Conference papers

1.S. Satya Sreedhar, R. Anitha, P. Rachel, S. Suganya, C. Ramesh Babu Durai and **G. S. Uthayakumar**, "Energy Conservation for Environment Monitoring System in an IoT based WSN," 2022 Smart Technologies, Communication and Robotics (STCR), Sathyamangalam, India, 2022, pp. 1-5, doi: 10.1109/STCR55312.2022.10009100.

2.**G. S. Uthayakumar**, B. Jackson, B. S. Kumar Reddy, P. Sharmila, M. R and K. J, "High Gain Dual Wide-Band Annular Ring Two-Port Antenna for Millimeter Wave Applications," 2023 4th International Conference on Smart Electronics and Communication (ICOSEC), Trichy, India, 2023, pp. 334-337, doi: 10.1109/ICOSEC58147.2023.10275808.

3.N. V. R. Guduri, S. Sethu, R. Shalinirajan, R. Reena, K. M and **G. S. Uthayakumar**, "Intelligent Caching Strategies for 5G Edge Networks using Machine Learning," 2023 4th International Conference on Smart Electronics and Communication (ICOSEC), Trichy, India, 2023, pp. 44-49, doi: 10.1109/ICOSEC58147.2023.10275847.

4.K. Naresh Kumar Thapa, G. Vishnupriya, G. Manisha, O. S. Saleh, T. Lakshmibai and **G. S. Uthayakumar**, "Block Chain Based Identity Authentication System for a Wireless Sensor Networks," 2023 International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India, 2023, pp. 1-6, doi: 10.1109/ICCCI56745.2023.10128299.

5.B. Yamini, A. Srinivasan, M. Selvi, S. Sumithra, T. Sathya and **G. S. Uthayakumar**, "HRC-CLSS: An Hybrid Resource Constrained Certificate-Less Signcryption Solution for Securing Crowdsourced IIoT Environments," 2023 5th International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, 2023, pp. 1345-1350, doi: 10.1109/ICIRCA57980.2023.10220832.

6.B. Yamini, A. M, S. G. Priya, S. Kathiresan, J. J. J and **G. S. Uthayakumar**, "Investigation of Environmental Monitoring Based on Three IoT Wireless Sensors," 2023 Second International Conference on Augmented Intelligence and Sustainable

Systems (ICAISS), Trichy, India, 2023, pp. 1574-1579, doi: 10.1109/ICAISS58487.2023.10250596.

7.A. Nithya, M. Raja, D. Latha, M. Preetha, M. Karthikeyan and **G. S. Uthayakumar**, "Artificial Intelligence on Mobile Multimedia Networks for Call Admission Control Systems," 2023 4th International Conference on Smart Electronics and Communication (ICOSEC), Trichy, India, 2023, pp. 1678-1683, doi: 10.1109/ICOSEC58147.2023.10275999.

8.B. Yamini, M. Jayaprakash, S. Logesswari, V. Ulagamuthalvi., R. Porselvi and **G. S. Uthayakumar**, "Enhanced Expectation-Maximization Algorithm for Smart Traffic IoT Systems using Deep Generative Adversarial Networks to Reduce waiting time," 2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, 2023, pp. 380-385, doi: 10.1109/ICESC57686.2023.10193089.

Presented a paper at National Level

1. "Reliability, specificity, sensitivity of caries detection using FOTI" at 2nd National conference on VLSI, Communication and Networks(VCAN2010) in Eswari Engineering College, Chennai-89 from 12.03.2010 to 13.03.2010
2. "Fiber optic Transillumination" at National conference on Recent Trends in communication at Annai Mathammal Sheela Engineering College, Namakkal-637013 from 11.02.2010 to 12.02.2010.
3. "FOTI imaging system for caries detection" at National conference on "Embedded, Microwave & Integrated Technologies" in Saveetha College of Engineering, Chennai Sponsored by DOE, Board of Research in Nuclear Sciences on 12.03.2010.
4. **G.S.Uthayakumar**, R.Niranjana, P.Nithya, "Human body vital signs monitoring using a wearable device" National Conference Emerging Trends in Information and Communication Engineering(NCETICE'22) organized by Department of Electronics and Communication Engineering in association with IEEE Student chapter at CARE College of Engineering during 6,7 May, 2022.
5. **G.S.Uthayakumar**, Akshya Raghu, Gayathri.R, "A remote raw water monitoring and control system", ISTE sponsored National level conference on Emerging trends in Engineering design and Manufacturing (ETEDM'22) on 15th and 16th June 2022

Presented a paper at international conference

1. "Mobile phone antenna and its radiation pattern" at 10th International conference on Electromagnetic interference and compatibility (INCEMIC-using FOTI systems", Bangalore., 10th International conference held from 26.11.2008 to 27.11.2008, pp.355-

360

2.“Mobile usage and its cancer” at INCEMIC, NIMPHAN convention centre, Bangalore.,pp.627-632

3.“Early cancer detection using human body waste(Nails)” 3rd International conference on Recycling and Reuse of Materials-ICRM-2014,11-13 April 2014.

4.“Monitoring of drugs at molecular level using FTIR” 3rd World congress Biotechnology,13-15 Sep.2012 Hyderabad International convention Centre.

5.Attended a DAE-BRNS sponsored National Laser Symposium(NLS-20) at Crystal growth centre, Anna University, Chennai from 09.01.2012 to 12.01.2012

6.“Monitoring of human body tissues at molecular level using FOTI systems” 8th International symposium on Bioinformatics Research and applications,21-23 May 2012, University of Texas at Dallas, Texas,pp.133-147

7.“Invisible sensors” International conference on Computer Science & Information Technology held at Chennai on 10th May 2014

8.G.S.Uthayakumar, ”Early detection of cancer using human body waste(Nails)” at 3rd International conference on Recycling and Reuse(ICRM-2014), organized by M.G.University, Kottayam, Kerala and Wroclaw University of Technology, Faculty of Electrical Engineering, Poland from 11.04.2014 to 13.04.2014.

9.Attended SPICON 2016 at SPIN Chennai on the theme “Energizing delivery paradigm in a digital world” held from 18.11.2016 to 19.11.2016.

10.**G.S.Uthayakumar**,”IoT for monitoring Chiropractors” at 7th Euro-India International conference on Holistic Medicine 2017,15.09.2017 to 17.09.2017 at Institute of Holistic Medical Sciences, Kottayam, Kerala and Ayurveda-Und Venen – Klink, Austria

11.**G.S.Uthayakumar**, ”Natural Plants as Modulators of Apoptosis” ,10-12.11.2017 at Euro-India International Conference on Experimental and Clinical Medicine at Mahatma Gandhi University, Kottayam, Kerala, India and Bioagile Therapeutics Pvt.Ltd., Bangalore from 10.11.2017 to 12.11.2017

12.**G.S.Uthayakumar**, K.Deepasaravani “Smart Sensors Based Human Emotion Recognition” in VI INSTITUTE OF TECHNOLOGY and **Won First Prize**.

13.**G.S.Uthayakumar**, K.Deepasaravani “Real Time Human Emotion Recognition by Smart Sensors” in Thanthaiperiyar Government Institute of technology and **Won First Prize**.

14.**G.S.Uthayakumar**, K.Deepasaravani “Automatic Human Emotion Recognition using smart sensors” in Sri Lakshmi Ammal Engineering College and Chendu college of engineering and technology.

15.**G.S.Uthayakumar**, K.Deepasaravani “Automatic Recognition of Human Emotions

	<p>using ECG signals” in International conference organization of science and innovative engineering and Technology conducted by OSIET & SRI RAMANUJAR ENGINEERING COLLEGE, Chennai.</p> <p>16.G.S.Uthayakumar, Irene Nisha, “Implementation of Home Monitoring System Using IoT” International conference at Jeppiaar Engineering College, ICONSTEM 2017, 23-24th March 2017,Chennai</p> <p>17.G.S.Uthayakumar, Santosh D and Shijolin V “Health support system for diabetic prevention using IOT and networked health monitoring equipment” International conference on Research in Electronics and Communication Techniques (ICREACT 2021) at SRM Institute of Science and Technology, Vadapalani, Chennai held on 3rd and 4th May 2021.</p> <p>18.R. Sharine, J. Sharon and Dr. G. S. Uthayakumar, Early-Stage Disease Diagnosis Using Human Nail in Image Processing, International conference on Research in Electronics and Communication Techniques (ICREACT 2021) at SRM Institute of Science and Technology, Vadapalani, Chennai held on 3rd and 4th May 2021.</p> <p>19.G.S.Uthayakumar,Reena Sherin D, Pavithradevy I, ”Wearable microstrip patch Antenna for IoT Applications” First International conference on Management, Entrepreneurship, Science and Engineering(ICAMESE 2022) organized by I Business Institute Greater Noida,UP, India on 28th and 29th May 2022.</p> <p>20.G.S.Uthayakumar,Ms.Veronica Nimesa, Ms.Ruby, ”Electronic Voting Machine using Finger print” presented at International conference on Automation, Intelligent computing and Communication organized by Rohini College of Engineering and Technology, Kanyakumari.</p> <p>21.G.S.Uthayakumar,Mr.Noble Rosario, Mr.Porselvan,” Fault Mitigation Management System” presented at International conference on Automation, Intelligent computing and Communication organized by Rohini College of Engineering and Technology, Kanyakumari.</p> <p>22.G.S.Uthayakumar,Ms.Swetha M and Ms.Praveena V, ”Encryption Algorithm for Autonomous vehicle Surveillance system” presented at International conference on Automation, Intelligent computing and Communication organized by Rohini College of Engineering and Technology, Kanyakumari.</p> <p>23.G.S.Uthayakumar,Mr.Karthik K,Mr.Kishore S, ”Fault Mitigation in unmanned Aerial Vehicle FSM” presented at International conference on Automation, Intelligent computing and Communication organized by Rohini College of Engineering and Technology, Kanyakumari.</p> <p>No. of International Journal publications: 26</p> <p>No. of National Level Conference publications 05</p>
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	No. of Scopus Indexed IEEE Conference Publications :08 No. of International Conference paper publications :27 No of Faculty Development program (FDP) attended :21 No. of National level workshop attended :27 No. of webinar series attended during Lockdown: :22 No. of Books published :04
FDP & Workshop Attended Details	<p>Attended International workshop</p> <ol style="list-style-type: none"> 1. Attended International workshop on Biomedical Sciences and Technologies during 2-4th March 2011” (IWBMIT-2011) at Anna University, Chennai-25 2. Attended International workshop on “Opto electronics Sensors and its applications at Fomra Institute of Technology, Chennai-103 held on 25.03.2010 3. International conference and Workshop on “Hepatocellular Carcinoma” held at Madras Medical College & RGGGH on 24th August 2013 conducted by Dept. of Medical & Surgical Gastroenterology, Madras Medical College, Chennai 4. Attended one day conference on the theme FICCI E-Commerce Summit 2017 on 01.12.2017 5. Attended 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society from 20.07.2020 to 24.07.2020 EMBS Virtual Academy <p>Attended National workshop</p> <ol style="list-style-type: none"> 1. Attended a MHRD sponsored National workshop on “MAT lab and its applications” at NITTR, Chennai from 01.12.2007 to 02.12.2007 2. Attended Quality Improvement programme MHRD/AICTE sponsored summer school on “Biomedical Electronics” from 04.08.2008 to 09.08.2008 at NITTTR, Chennai 3. Pre-conference workshop on “FPGA based Embedded processor overview NIOS-II” at Anna university, Chennai-25 on 07.05.2008 4. Attended one day workshop on “SPSS package for Research Analysis” sponsored by TEQIP-CEG, Anna University, Chennai-25 on 08.12.2006 5. Attended Mission 10X workshop on “High Impact Teaching Skills” from 06.04.2009 to 07.04.2009 at SSN College of Engineering, Chennai. 6. National Video workshop on common “Gastrointestinal surgeries” at Madras Medical College, Chennai from 10.03.2012 to 11.03.2012 7. Attended CSIR Sponsored National workshop on “Healthcare Technology and Recent trends in E-Health and M-Health from 01.11.2012 to 02.11.2012 at Prathyusha Institute of Technology and Management. 8. Attended 2-day workshop on “Simulation and Modeling of Nano-electronic

	<p>Devices” held from 07.03.2013 to 08.03.2013 organized by SRM University, Kattankulathur, Chennai</p> <p>9. Attended a technical workshop titled “Concepts and design of PWM controller and data logger using Embedded System” organized by IEEE RAS Madras chapter at IEEE Madras section on 30.10.2014</p> <p>10. Five Days workshop on “High Performance VLSI Architectures for Digital Signal Processing”, 30.04.2018 to 04.05.2018 at IIITDM, Kanchipuram</p> <p>11. Completed Industrial visit on “Automation & Robotics” conducted by AGIIT-Chennai in association with Panimalar Engineering College on 14.11.2019.</p> <p>12. Attended India Technology Week program from 13th May 2020 to 15th May 2020 organized by EFY Group.</p> <p>13. Attended one-week online workshop on “Importance of Routing & Switching in Data Communication and Networking –A closer Look” from 15.06.2020 to 20.06.2020 organized by IEEE Communication Society, SNIST Cisco Networking Academy, SIST, Hyderabad, India</p> <p>14. Attended Virtual National workshop on “Research Scopes in Remote Sensing” from 24.06.2020 to 26.06.2020 organized by St.Joseph’s College of Engineering, Chennai</p> <p>15. Attended Three days International Tech Summit titled “Next Generation Smart Machines(NGSM v1.0)” from 27.07.2020 to 29.07.2020 organized by Karunya Institute of Technology and Sciences, Coimbatore.</p> <p>16. Attended three days Industry Boot Camp(Technology Demystified) from 15.07.2020 to 17.07.2020 organized by St.Joseph’s College of Engineering, Chennai</p> <p>17. Attended IEEE R10 POCO -2020 online workshop organized by IEEE Madras section 10.10.2020 to 11.10.2020</p> <p>18. Attended AICTE sponsored STTP on “Research and Development in wireless Communication Application using NetSim and MatLab” organized by Pondicherry Engineering College from 23.11.2020 to 28.11.2020</p> <p>19. Attended AICTE sponsored STTP on “EMI/EMC Compliances-Approaches & Techniques for product development” organized by S.A.Engineering College, Chennai through online from 25.11.2020 to 01.12.2020</p> <p>20. Attended AICTE sponsored STTP on “SciLab: an Effective Open Source Tool for Computer Vision and Machine Learning” organized by Vidya Jyothi Institute of Technology, Hyderabad through online from 14.12.2020 to 19.12.2020</p> <p>21. Attended AICTE sponsored STTP on “FPGA based Digital System Design with HDL(Phase I) from 25.01.2021 to 30.01.2021, at Vel Tech Multi Tech</p>
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	<p>Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai</p> <p>22. Attended AICTE sponsored STTP on “ FPGA based Digital System Design with HDL(Phase II) from 08.02.2021 to 13.02.2021,at Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai</p> <p>23.Attended AICTE sponsored STTP on “FPGA based Digital System Design with HDL(Phase III) from 22.02.2021 to 27.02.2021,at Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai</p> <p>24. Attended AICTE sponsored STTP on “Emerging trends and Research challenges in Next generation wireless Networks” organized by Kongumadu College of Engineering and Technology(Autonomous) through online from 29.03.2021 to 03.04.2021</p> <p>25. Attended AICTE sponsored STTP on “FPGA based Digital System Design with HDL(Phase IV) from 03.05.2021 to 08.05.2021 at Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai</p> <p>26. Attended AICTE-QIS six days STTP on “Artificial Intelligence and 5-G Communication Technology” organized by Department of Electronics and Communication Engineering,Poornima College of Engineering Jaipur held from 26.04.2021 to 01.05.2021</p> <p>27.Attended Innovation Ambassador training (Foundation Level) conducted by MoE’s-Innovation Cell & AICTE during the period 30th June 2021 to 30th July 2021 through online mode</p>
Professional Membership	<p>Membership of Professional bodies</p> <ol style="list-style-type: none"> 1. Life member of Biomedical Engineering Society of India from 2010 2. IEEE member from 2008 3. IEEE Senior Member from 2017 4. Professional for the following Technical Societies <ul style="list-style-type: none"> IEEE Antenna and Propagation Society IEEE Electron Devices Society IEEE Engineering in Medicine and Biology Society IEEE Industrial Electronics Society IEEE Signal Processing Society IEEE Broadcast Technology Society IEEE Robotics and Automation Society <p>Faculty Advisor for the following Societies</p> <ul style="list-style-type: none"> ➤ Electron Devices ➤ Antenna and Propagation Society

	<p>➤ Engineering in Medicine and Biology Society</p> <p>5. IEEE Technical council members for the following</p> <ul style="list-style-type: none"> ➤ Nanotechnology council ➤ Sensor council ➤ Biometrics council ➤ Young Professional ➤ Potentials ➤ Superconductivity
Other Achievements	<p>1. Chaired a session at International Conference on Technological convergence for information, health, food, Energy 2015, CLRI, Chennai on 2nd May 2015</p> <p>2. Chaired a session at 3rd International conference on Recycling and Reuse (ICRM-2014), M.G.University, Kottayam, Kerala from 11.04.2014 to 13.04.2014.</p> <p>3. Chaired a session at 7th Euro-India International conference on Holistic Medicine 2017, from 15.09.2017 to 17.09.2017 at Institute of Holistic Medical Sciences, Kottayam, Kerala</p> <p>4. Chaired a session at Euro-India International conference on Experimental and Clinical Medicine at M.G.University, Kerala during 10.11.2017 to 12.11.2017</p> <p>5. Received appreciation certificate from IEEE Madras Section for Professional achievement award for the year 2016.</p> <p>6. Delivered an invited lecture on 25.11.2014, Short term training course on "Prospects and challenges in Fermentation and downstream processing" sponsored by Department of Biotechnology, India at St. Joseph's College of Engineering</p> <p>7. Delivered an invited lecture at Anna University sponsored 6-days FDP on Transmission Lines and RF Systems on the topic "Power and Impedance Measurement on Lossless transmission line on 19.11.2019.</p> <p>8. Delivered an invited lecture at Anna University sponsored 7-days FDP on "Embedded and Real Time systems" held at St. Joseph's Institute of Technology on 22.05.2017.</p> <p>9. Reviewer in the IEEE Seventh International conference on "Bio signals, Images and Instrumentation" organized by SSN College of Engineering held on March 25-27, 2021</p> <p>10. Delivered an invited FDP Session on the topic "AI in Healthcare" at Jerusalem College of Engineering, Chennai</p>