

# SYED AMMAL ENGINEERING COLLEGE

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Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### FACULTY PROFILE

Name	: <b>Dr. G. MAHENDRAN</b>	
Designation	: PROFESSOR & HEAD	
Contact Address	: Department of ECE, Syed Ammal Engineering College, Ramanathapuram – 623 502.	
Contact Mobile No.	: 9994205270, 9842072052	
Email id	: ecehod@syedengg.ac.in, gmahendran236@gmail.com	
Areas of Interest	: Digital Signal/Image Processing, Wireless Communication, Embedded Systems	

### Qualification

- B.E. (Electronics and Communication Engineering) – April 1997 – MK University, Madurai
- M.E. (Applied Electronics) – December 2002 – MK University, Madurai
- Ph.D. (Information and Communication Engineering) – December 2015 – Area of Research: Medical Image Processing – Anna University, Chennai

### Experience

- 25.06.1999 to 30.06.2004 : Lecturer –Syed Ammal Engineering College
- 01.07.2004 to 30.06.2012 : Assistant Professor– Syed Ammal Engineering College
- 01.07.2012 to 04-12-2015: Associate Professor – Syed Ammal Engineering College
- 05-12-2015 to Till date : Professor – Syed Ammal Engineering College

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## Subjects handled:

1. **Electronic Devices and Circuits**
2. **Communication Theory**
3. **Digital Circuit Theory**
4. **Signal and Systems**
5. **Digital Signal Processing**
6. **Microprocessors and Microcontrollers**
7. **Linear Integrated Circuits**
8. **Satellite Communication**
9. **Mechatronics**
10. **Discrete Time Signal Processing**
11. **Digital Image Processing**
12. **Wireless Communication**
13. **Mobile and Wireless Communication**
14. **Industrial Safety**

## Publications in Conferences:

1. **G. Mahendran** and R. Dhanasekaran, "Diagnosis of Diabetic Retinopathy Using Morphological Process and SVM Classifier", 2<sup>nd</sup> IEEE International conference on Communication and Signal Processing, Melmaruvathur, India, pp. 873–877, April 2013.
2. **G. Mahendran**, R. Dhanasekaran and K.N.N. Devi, "Identification of exudates for diabetic retinopathy based on morphological process and PNN classifier," 3<sup>rd</sup> IEEE International conference on Communication and Signal Processing, Melmaruvathur, India, pp. 1220–1224, April 2014.
3. **G. Mahendran** and R. Dhanasekaran, "Neighbourhood approach based detection of exudates for diabetic retinopathy", International Conference on Next generation Computing and Communication Technologies, Dubai, UAE, pp. 53–58, April 2014.
4. **G. Mahendran**, R. Dhanasekaran and K.N.N. Devi, "Morphological process based segmentation for the detection of Exudates from the retinal images of diabetic patients," IEEE International Conference on Advanced Communication Control and Computing Technologies, Ramanathapuram, India, pp. 1466–1470, May 2014.
5. Geetha P., **Mahendran G.**, "A VLSI Implementation of Low Power Adaptive Filter In Decision Feedback Equalization", International Conference On Emerging Trends In Engineering And Technology, March 2015.
6. Narmadha Devi K.N., **Mahendran G.**, "A Novel Food Recognition And Dietary Assessment System For Diabetic Patients", International Conference On Emerging Trends In Engineering And Technology, March 2015.
7. **G. Mahendran** & R. Dhanasekaran, "Investigation of Severity of Diabetic Retinopathy by detecting Exudates with respect to Macula", 4th IEEE International Conference on Communication and Signal Processing (ICCSP'15), Melmaruvathur, Tamilnadu, India, pp. 724–729, April 2015.

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8. R. Dhanasekaran, **G. Mahendran**, S. Murugeswari and S. MofiaFargana, "Investigation of Diabetic Retinopathy using GMM classifier", IEEE International Conference on Advanced Communication Control and Computing Technologies, ICACCCT' 16, Ramanathapuram, India, pp. 184 – 187, May 2016.
9. S. Aiswarya and **G. Mahendran**, "Multiple Bit Upset correction in SRAM based FPGA using Mutation and Erasure codes", IEEE International Conference on Advanced Communication Control and Computing Technologies, ICACCCT'16, Ramanathapuram, India, pp. 202-206, May 2016.
10. P. Shenbagapriya, **Dr. G. Mahendran**, "An Optimized Montgomery Modular Multiplication Algorithm For Cryptography", International Conference on Emerging Trends in Engineering, Science and Sustainable Technology, TCETSST-2017, Perundurai, India, pp. 43-48, February 2017.
11. P. Shenbagapriya, **Dr. G. Mahendran**, "An RNS based Montgomery Modular Multiplication Algorithm For Cryptography", International Conference on Engineering Humanities & Science, ICEHS-2017, Coimbatore, India, May 2017.
12. S. Ananthi and **Dr.G. Mahendran**, "Design of Efficient Sorting Unit by using Null Convention Logic (NCL)", 5<sup>th</sup> International Conference on Emerging Trends in Engineering & Technology, 18 (ICETE'18), Sivagangai, India, Mar 2018.
13. S. Ananthi and **Dr.G. Mahendran**, "Design of Efficient Sorting Unit by Comparison Free Algorithm", International Conference on Recent Trends in Engineering, Computers, Information Technology and Applications (ICRTECITA-2018), Dindigul, India, Mar 2018.
14. M. Periyasamy, R. Dhansekar, and **G. Mahendran**, "A Review on Current Issues of Radio Frequency Identification Devices in Magnetic Resonance Imaging", IEEE International Conference on Communications and Signal Processing (ICCSP;18), Melmaruvathur, India, April 2018.
15. M. Periyasamy, R. Dhansekar, and **G. Mahendran**, "Selected Studies of Electromagnetic Exposure Levels in the Countries of Asia – A Review", IEEE International Conference on Communications and Signal Processing (ICCSP), Melmaruvathur, India, April 2018.
16. Dr. M. Periyasamy, **Dr. G. Mahendran**, Dr. R. Dhansekar & Dr. M. Senthilkumar, "Selected Studies of Sediment Tracking in Mixed and Gravel Beaches Using RFID Technology – A Review", IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE), Bhubaneswar, India, July 2018.
17. S. SriramSundar, **Dr. G. Mahendran** & Dr. R. Dhanasekar, "Comparative Study of Low-Power and High Performance Flip-Flops", IEEE 8<sup>th</sup> International Conference on Information, Communication and Embedded Systems, Chennai, India, pp. 201-205, March 2019.
18. J.C. Daisy Roselin, **Dr. G. Mahendran** & Dr. S. Murugeswari, "Stack Based Configurable Logic Gates Technology for IP Cores", IEEE 8<sup>th</sup> International Conference on Information, Communication and Embedded Systems, Chennai, India, pp. 191-194, March 2019.
19. V. VeeraThipeekaSwani, **G. Mahendran** & M. Periyasamy, VLSI Implementation of low noise amplifier and Efficient Spectrum Sensing Method for CR VANET, International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN2K19), Ramanathapuram, India, Nov, 2019.

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20. N. Mahalakshmi, **G. Mahendran**, M. Periyasamy & S. Praveen Samuel Washburn, A Memorization Based Runtime Relocation System for Heterogeneous Circuits, International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN2K19), Ramanathapuram, India, Nov, 2019.
21. K Kalaimurugan, S. Karthikeyan, M. Periyasamy, **G Mahendran** & T. Dharmaprabhakaran, "Combustion Analysis of CuO<sub>2</sub> Nanoparticles Addition with Neochloris Oleoabundans Algae Biodiesel on CI Engine", Proceedings of the AICTE sponsored International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN2K19), Ramanathapuram, India, Dec 12-14, 2019.
22. K Kalaimurugan, S Karthikeyan, M. Periyasamy, **G Mahendran** & T. Dharmaprabhakaran, "Emission Analysis of CuO<sub>2</sub> Nanoparticles Addition with Neochloris Oleoabundans Algae Biodiesel on CI Engine", Proceedings of the AICTE sponsored International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN2K19), Ramanathapuram, India, Dec 12-14, 2019.
23. T. Dharmaprabhakaran, S. Karthikeyan, M. Periyasamy, **G Mahendran** & K Kalaimurugan, "Algae Biodiesel-Promising Source To Power CI Engine", Proceedings of the AICTE sponsored International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN2K19), Ramanathapuram, India, Dec 12-14, 2019.
24. T. Dharmaprabhakaran, S Karthikeyan, M. Periyasamy, **G Mahendran** & K Kalaimurugan, "Emission Analysis of CuO<sub>2</sub> Nanoparticle Addition with Blend of Botry Ocococcus Braunii Algae Biodiesel on CI Engine", Proceedings of the AICTE sponsored International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN2K19), Ramanathapuram, India, Dec 12-14, 2019.
25. S.Praveen Samuel Washburn & **G. Mahendran**, "Identification of Exudates to Diagnose Diabetic Retinopathy Using Embedded Processor", International E-Conference on Recent Advances in Computation, Communication, Internet, of Things and Artificial Intelligence (ICRACIA 2021), Karur, India, April 2021.
26. Hemalatha, Sakubar Sadiq, **Mahendran**, Arunmani and Mohamed Faisal, "Extraction of Fetal ECG: A Semi-Blind Source Separation Algorithm Combined with Sum Based Three Operand Kalman Filter", International Conference on Innovative Research in Applied Engineering and Computing Methodologies, Ramanathapuram, India, 13-14, August 2021.
27. Safana Begam, **Mahendran G**, Praveen Samuel Washburn, Karthika Devi, Bharathi G and Sanmathi M, "Automatic Covid19 Lung Infection Segmentation using SEGNET in CT Images", International Conference on Innovative Research in Applied Engineering and Computing Methodologies, Ramanathapuram, India, 13-14, August 2021.
28. Susmitha M.I, **Mahendran G**, Periyasamy M, Murugeswari S, Saravanan B and Jeyasudha K, "Design of an Efficient Code Converter using Quantum dot Cellular Automata", International Conference on Innovative Research in Applied Engineering and Computing Methodologies, Ramanathapuram, India, 13-14, August 2021.
29. Ramya M, Arunmani G, **Mahendran G**, Periyasamy M, Ravivarma P and Murali Manogar Joshi, "Design and Implementaion of Karatsuba based IIR filters for Biological Signal Processing", International Conference on Innovative Research in Applied Engineering and

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Computing Methodologies, Ramanathapuram, India, 13-14, August 2021.

30. **Mahendran G**, Kavitha K, Akshaya Valentine K, Dhanalakshmi G, “A Smart Wrist Band For Women Safety, Plucky Armour”, International Conference on Innovative Research in Applied Engineering and Computing Methodologies, Ramanathapuram, India, 13-14, August 2021.
31. **Mahendran G**, Edberg Vasana D, Ejaz Ahamed, Praveen Balaji K.V.A, Raisul Aslam M, “Embedded System Based Diagnosis of Diabetic Retinopathy by detecting Microaneurysms”, International Conference on Innovative Research in Applied Engineering and Computing Methodologies, Ramanathapuram, India, 13-14, August 2021.
32. **Mahendran G**, Affrin Afsana S.D, Periyasamy M, Murugeswari S, Praveen Samuel Washburn, “IoT Based Landslide Detection and Prevention System”, International Conference on Innovative Research in Applied Engineering and Computing Methodologies”, Ramanathapuram, India, 13-14, August 2021.
33. Praveen Samuel Washburn S, **Mahendran G**, “Hardware Based classification of Exudates using cuML SVM classifier”, International Conference on Innovative Research in Applied Engineering and Computing Methodologies”, Ramanathapuram, India, 13-14, August 2021.
34. Affrin Afsana A and **Mahendran G**, “QCA Design of Reversible Comparator using Modified C-NOT GATE”, International Conference on Emerging Trends in Engineering and Technology (ICETET'22), Sivagangai, India, April 2022.
35. Jayaprakasam K, **Mahendran G**, “Brain Tumour Classification using Deep Learning Techniques”, National Level Virtual Conference on Emerging Trends in Electrical, Computing and Communication Technologies (NCETECCT'22), Madurai, India, 23<sup>rd</sup> April 23, 2022.
36. Affrin Afsana S.D., **Mahendran G.**, Murugeswari S. and Praveen Samuel Washburn, “QCA Design of Comparator using R-CNOT Reversible GATE”, International Conference on Emerging Trends in Information and Communication Technologies, Kariapatti, India, 28-29, May 2022.
37. Nazreen Roja R., **Mahendran G.**, Murugeswari S., Praveen Samuel Washburn, “QCA Design of Fault Tolerant Voter Circuit for Triple Modular Redundant System”, 2<sup>nd</sup> International Conference on Emerging Trends in Communication, VLSI and Signal Processing, Trichy, India, March 2023.
38. Thenmozhi N., Murugeswari S., **Mahendran G.**, Praveen Samuel Washburn, “A Low Cost VLSI architecture for IoT enabled Sensor network with optimized cluster head selection”, 2<sup>nd</sup> International Conference on Emerging Trends in Communication, VLSI and Signal Processing, Trichy, India, March 2023.
39. Venkatesan., Murugeswari S. and **Mahendran G.** “A smart Approach for Wireless Adhoc To detect various Attacks”, 2<sup>nd</sup> International Conference on Emerging Trends in Communication, VLSI and Signal Processing, Trichy, India, March 2023.

## Publications in Journals:

1. B. Ramasubramanian and **G. Mahendran**, “An Efficient Integrated Approach for the Detection of Exudates and Diabetic Maculopathy in Colour fundus Images” Advanced

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- Computing: An International Journal (ACIJ), Vol.3, No.5, pp. 83 -91, September 2012.
2. **G. Mahendran**, R. Dhanashekar and K.N.NarmadhaDevi. "Recognition of Exudates and their severity level using a special neural network," International Journal of Electronic Communications Engineering Advanced Research, Vol.2, SP-1, pp. 104-108, February 2014, ISSN: 2347-9329.
  3. **G. Mahendran** and Raj Priyanka, "Fuzzy Logic Based Multi modal Medical Image Fusion of MRI-PET Images" International Journal of Electronic Communications Engineering Advanced Research, Vol.2, SP-1, pp. 100-103, February 2014.
  4. S. Mofiyafargana and **G. Mahendran**, "Critical Path Analysis and Low Complexity Implementation of the LMS Adaptive Algorithm", International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE), ISSN: 0976-1353 Vol. 12 No. 4, pp. 110-114, February 2015.
  5. **G. Mahendran** and R. Dhanaekaran, "Detection and Localization of Retinal Exudates for Diabetic Retinopathy", Journal of Biological Systems, Vol. 23, No. 2, pp. 195–212, June 2015, ISSN: 0218-3390.
  6. **G. Mahendran** and R. Dhanasekaran, "Investigation of the severity level of diabetic retinopathy using supervised classifier algorithms", Computers and Electrical Engineering, Vol. 45, pp. 312–323, July 2015, ISSN: 0045-7906.
  7. **G. Mahendran** and R. Dhanasekaran "An Automatic Grading System of Severity Level For Diabetic Retinopathy Using CNN Classifier", ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 13, pp. 5631–5636, July 2015, ISSN: 1819-6608
  8. K. Senthurpandiyam & **G. Mahendran**, "An optimized Booth Recoder For Efficient Design of the Add-on Multiply Operator", International Journal of Applied Engineering Research, Vol. 10, No. 55, pp.953-956, Aug 2015, ISSN: 0973-4562.
  9. **G. Mahendran** and R. Dhanasekaran "Investigation of Abnormalities for Diabetic Retinopathy", International Journal of Applied Engineering Research, Vol. 10, No. 55, pp. 963–967, Aug 2015, ISSN: 0973-4562.
  10. Geetha P., **Mahendran G.**, "A Low Complexity LMS Adaptive Filter In Decision Feedback Equalization", International Journal Of Applied Engineering And Research, Vol. 10 , No. 55, pp . 342-345, Aug 2015.
  11. Narmadha Devi.K.N, **Mahendran Gandhi**, "A Novel Food Recognition and Dietary Assessment System for Diabetic Patients using Anfis Classifier", International Journal of Applied Engineering Research, Vol. 10 No.55, pp. 525 – 530, Aug 2015.
  12. K. Kalaimurugan, S. Karthikeyan, M. Periyasamy, **G. Mahendran** & T. Dharmaprabhakaran, "Performance, emission and combustion characteristics of RuO<sub>2</sub> nanoparticles addition with neochlorisoleo abundans algae biodiesel on CI engine", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, doi.org/10.1080/15567036.2019.1694102, Published online: 24 Nov 2019.(AU Annexure – I, SCI, Scopus)
  13. K. Kalaimurugan, S. Karthikeyan, M. Periyasamy, **G. Mahendran** & T. Dharmaprabhakaran, "Experimental studies on the influence of copper oxide nanoparticle on biodiesel-diesel fuel blend in CI engine", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, doi.org/10.1080/15567036.2019.1679290, Published online: 19 Oct 2019.(AU

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## Annexure – I, SCI, Scopus)

14. K. Kalaimurugan, S. Karthikeyan, M. Periyasamy, **G. Mahendran** & T. Dharmaprabhakaran, “Performance Analysis of CuO<sub>2</sub> Nanoparticles Addition with Neochloris Oleoabundans Algae Biodiesel on CI Engine”, Journal of Scientific & Industrial Research, Vol. 78 (11), pp. 802-805, November 2019(AU Annexure – I, SCI)
15. S. Praveen Samuel Washburn, **Mahendran**, Dhanasekaran, Periysamay, Murugeswari, “Investigation of Severity Level of Diabetic Retinopathy using Adaboost Classifier Algorithm”, Materials Today: Proceedings, Vol.33, pp. 3037-42, April 2020 DOI:10.1016/j.matpr.2020.03.199
16. K. Kalaimurugan, S. Karthikeyan, M. Periyasamy, & **G. Mahendran** (2020): Combustion studies on CI engine with cerium oxide nanoparticle added neochlorisoleoabundans biodiesel-diesel fuel blends. Elsevier – Materials Today: Proceedings. Vol.33, No.21, pp. 2886-89, March 2020. DOI: 10.1016/j.matpr.2020.02.779. (**Scopus Indexed Journal**).
17. K. Kalaimurugan, S. Karthikeyan, M. Periyasamy, & **G. Mahendran** (2020): Emission analysis of CI engine with CeO<sub>2</sub> nanoparticles added neochlorisoleoabundans biodiesel-diesel fuel blends. Elsevier – Materials Today: Proceedings. Vol.33, No.21, pp. 2877-81, March 2020. DOI: 10.1016/j.matpr.2020.02.777. (**Scopus Indexed Journal**).
18. K. Kalaimurugan, S. Karthikeyan, M. Periyasamy, & **G. Mahendran** (2020): Experimental investigations on the performance characteristics of CI engine fuelled with cerium oxide nanoparticle added biodiesel-diesel blends. Elsevier – Materials Today: Proceedings. Vol.33, No.21, pp. 2882-85, March 2020 DOI: 10.1016/j.matpr.2020.02.778. (**Scopus Indexed Journal**).
19. T. Dharmaprabhakaran, S. Karthikeyan, M. Periyasamy, **G. Mahendran** (2020). Emission analysis of CuO<sub>2</sub> nanoparticle addition with blend of Botryococcus braunii algae biodiesel on CI engine. Elsevier – Materials Today: Proceedings. Vol.33, No.21, pp. 2897-900, March 2020 <https://doi.org/10.1016/j.matpr.2020.02.781> (**Scopus Indexed Journal**).
20. T. Dharmaprabhakaran, S. Karthikeyan, M. Periyasamy, **G. Mahendran** (2020). Algal biodiesel-promising source to power CI engines. Elsevier – Materials Today: Proceedings. Vol.33, No.21, March 2020, pp. 2870-73, March 2020 <https://doi.org/10.1016/j.matpr.2020.02.775> (**Scopus Indexed Journal**).
21. T. Dharmaprabhakaran, S. Karthikeyan, M. Periyasamy, **G. Mahendran** (2020). Combustion analysis of CuO<sub>2</sub> nanoparticle addition with blend of botryococcus braunii algae biodiesel on CI engine. Elsevier – Materials Today: Proceedings. Vol.33, No.21, pp.2874-76, March 2020 <https://doi.org/10.1016/j.matpr.2020.02.776> (**Scopus Indexed Journal**).
22. M. Periyasamy, **Mahendran Gandhi**, B. Sakthivel, S. Murugeswari, “A Novel Fault Tolerant Multiplier using Single Digit Conversion based Self checking Scheme”, Materials Today: Proceedings, Vol.33, No.4, pp. 3043-45, April 2020. DOI: 10.1016/j.matpr.2020.03.204
23. **G. Mahendran**, M. Periyasamy, S. Murugeswari, N. Karthika Devi, “Analysis on Retinal Diseases using Machine Learning Algorithms”, Materials Today: Proceedings, Vol.33, No.2, pp. 3102-107, April 2020. DOI: 10.1016/j.matpr.2020.03.691
24. S. Karthikeyan, A. Prathima, M. Periyasamy, **G. Mahendran** (2020). Analysis of steel ST 75 using tribotester pin-on-disc. Elsevier – Materials Today: Proceedings. Vol.33, No.2, pp. 4285-

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- 88, Aug 2020 <https://doi.org/10.1016/j.matpr.2020.07.402> (Scopus Indexed Journal)
25. S Karthikeyan, A Prathima, M Periyasamy, **G Mahendran** (2020). Assessment of the use of Codium Decorticafum [Green seaweed] biodiesel and pyrolytic waste tires oil blends in CI engine. Elsevier – Materials Today: Proceedings. Vol.33, No.2, pp. 4224-27, Aug 2020 <https://doi.org/10.1016/j.matpr.2020.07.235> (Scopus Indexed Journal)
  26. S Karthikeyan, A Prathima, M Periyasamy, **G Mahendran** (2020). Performance analysis of Al<sub>2</sub>O<sub>3</sub> and C<sub>18</sub>H<sub>34</sub>O<sub>2</sub> with Kappaphycus Alvarezil-Brown algae biodiesel in CI engine. Elsevier – Materials Today: Proceedings. Vol.33, No.2, pp. 4180-84, Aug 2020 <https://doi.org/10.1016/j.matpr.2020.07.118> (Scopus Indexed Journal)
  27. S Karthikeyan, A Prathima, M Periyasamy, **G Mahendran** (2020). Impact of using single injection strategies and of Kappaphycus Alvarezil algae biodiesel on a diesel engine with common injection ramp. Elsevier – Materials Today: Proceedings. Vol.33, No.2, pp. 4621-25, Aug 2020 <https://doi.org/10.1016/j.matpr.2020.07.742> (Scopus Indexed Journal)
  28. S Karthikeyan, A Prathima, M Periyasamy, **G Mahendran** (2020). Emission assessment of Kappaphycus Alvarezil-Brown algae biodiesel Al<sub>2</sub>O<sub>3</sub> and C<sub>18</sub>H<sub>34</sub>O<sub>2</sub>. Elsevier – Materials Today: Proceedings. Vol.33, No.2, pp. 4192-97, Aug 2020 <https://doi.org/10.1016/j.matpr.2020.07.126> (Scopus Indexed Journal)
  29. S Karthikeyan, A Prathima, M Periyasamy, **G Mahendran** (2020). Emission analysis of the diesel engine using Stoechospermum Marginatum, brown marine algae with Al<sub>2</sub>O<sub>3</sub> nano fluid. Elsevier – Materials Today: Proceedings. Vol.33, No.6, pp. 4047-53, July 2020 <https://doi.org/10.1016/j.matpr.2020.06.480> (Scopus Indexed Journal)
  30. S Karthikeyan, A Prathima, M Periyasamy, **G Mahendran** (2020). Marine diesel engine using bio solar and gasoline. Elsevier – Materials Today: Proceedings. Vol.33, No.6, pp. 4132-35, July 2020 <https://doi.org/10.1016/j.matpr.2020.06.574> (Scopus Indexed Journal)
  31. S Karthikeyan, A Prathima, M Periyasamy, **G Mahendran** (2020). Assessment of engine performance using syngas. Elsevier – Materials Today: Proceedings. Vol.33, No.6, pp. 4142-44, July 2020 <https://doi.org/10.1016/j.matpr.2020.06.577> (Scopus Indexed Journal)
  32. S Karthikeyan, A Prathima, M Periyasamy, **G Mahendran** (2020). Empirical studies upon the performance of the CI working with Stoechospermum Marginatum, brown marine algae with nano fluid. Elsevier – Materials Today: Proceedings, 33(2020), 3993-3999. Vol.33, No.6, pp. 3993-99, July 2020 <https://doi.org/10.1016/j.matpr.2020.06.340> (Scopus Indexed Journal)
  33. **Mahendran Gandhi**, M. Periyasamy, S. Murugeswari, S. Praveen Samuel Washburn, “A VLSI Implementation of FIR Filter using self-tunable Addition and Multiplication”, Elsevier – Materials Today: Proceedings, Vol.33, No. 7 (2020), pp. 4318-4322. Aug 2020 <https://doi.org/10.1016/j.matpr.2020.07.441> (Scopus Indexed Journal)
  34. Karthikeyan, S., Prathima, A., Periyasamy, M., & **Mahendran, G.** (2020). Fuel properties assessment of Kappaphycus Alvarezil-Brown seaweed biodiesel new formula with Al<sub>2</sub>O<sub>3</sub> and C<sub>18</sub>H<sub>34</sub>O<sub>2</sub>. Materials Today: Proceedings. Vol. 33, No. 2, Aug 2020 DOI:10.1016/j.matpr.2020.07.121 (Scopus Indexed Journal)
  35. Periyasamy, M. Karthikeyan, S.; **Mahendran, G.** (2020). Selected studies of sediment tracking in mixed and gravel beaches using RFID technology A review. Materials Today: Proceedings, Vol. 33, No. 1-2, July 2020 doi:10.1016/j.matpr.2020.06.342 (Scopus Indexed



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Journal)

36. Kirubanandasarathy Nageswaran, Murugeswari Selvan & **Mahendran Gandhi** A Hybrid Transform for Reduction of Peak to Average Power Ratio in OFDM System, Wireless Personal Communications 118, pp. 3187–3197 (2021) 20.02.2021. **Ann-I Journal**
37. A. Shyamala, S. Murugeswari, **G. Mahendran** & R. Jothi Chitra, “Hybrid grey assisted whale optimization based machine learning for the COVID-19 prediction”, Computer Methods in Biomechanics and Biomedical Engineering (Taylor & Francis – SCI), December 2023. <https://doi.org/10.1080/10255842.2023.2292008>.
38. Sriram Sundar S and **Mahendran G**, “CMOS full adder cells based on modified full swing restored complementary pass transistor logic for energy efficient high speed arithmetic applications”, Integration (Elsevier), Volume 95, March 2024, 102132. <https://doi.org/10.1016/j.vlsi.2023.102132>.

## Books Published

- ‘Electronic Devices – An Understandable Course Material’, Dr. Selvaperumal, Dr. G. Mahendran & B. Ramasubramanian, Shanlax Publications, 2015, ISBN: 978-93-85399-96-1.
- ‘Electronics Communication: Basics of Advancements’, Dr. S. Murugeswari, Dr. G. Mahendran, S. Praveen Samuel Washburn and Dr. Chandra Kumar Dixit, Academic Guru Publishing House (AGPH) Books, 2022, ISBN: 978-93-94339-05-7.

## Book Chapters Published

- Dr. S. Murugeswari and Dr. G. Mahendran, ‘A Review on the Realistic Mobility Models for Vehicular AD-Hoc Networks’, in “A Handbook on Image Processing and Wireless Communication”, 2021, pp. 114-126.
- Dr. G. Mahendran and Dr. S. Murugeswari, ‘Security Attacks in Vehicular Networks and Survey on Recent Developments in Detection and Protection against Threats’, in “A Handbook on Image Processing and Wireless Communication”, 2021, pp. 127-138.

## Funds raised

- Received **Rs. 8,61,000/-** from AICTE through **MODROBS** to implement Advanced VLSI Lab. in 2018-19.

## FDP/STTP Organized

- One of the Resource Persons for 7 days FDP on “Digital Image Processing” conducted on 2<sup>nd</sup> – 8<sup>th</sup> December 2013.
- Resource person for six days FDP on Digital Image Processing during 9-14, May 2016.
- One of the Resource Persons for Two Days Faculty Orientation Programme on Teaching

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Methodologies for young faculty members conducted on 30.07.2016 & 05.08.2016

- Co-chair for 7 Days FDP on “Control Systems Engineering” conducted on 24<sup>th</sup> – 30<sup>th</sup> November 2016.
- Co-chair and one of the resource persons for 7 Days FDTP on “Signals and Systems” conducted on 7<sup>th</sup> – 13<sup>th</sup> June 2017.
- Coordinator for Six-days FDTP on “Control Systems Engineering” during 20-25.05.2019
- Convener for the AICTE sponsored Two Weeks Faculty Development Programme on ‘Verification & Testing of VLSI Circuits using EDA Tools’ (VTEC’19) during 01-14, Nov 2019.
- Coordinator for Six Days AICTE sponsored STTP on Soft Computing Techniques in Engineering Applications (20.07.2020 – 25.07.2020 Phase I)
- Coordinator for Six Days AICTE sponsored STTP on Soft Computing Techniques in Engineering Applications (10.08.2020 – 16.08.2020 Phase II)
- Coordinator for Six Days AICTE sponsored STTP on Potential Benefits of RFID in Industrial, Medical and Domestic Sectors (23.11.2020 – 28.11.2020 Phase I)
- Coordinator for Six Days AICTE sponsored STTP on Potential Benefits of RFID in Industrial, Medical and Domestic Sectors (21.12.2020 – 27.12.2020 Phase II)
- Resource Person for FDP on “Outcome Based Education” conducted by Syed Ammal Engineering College on 31.08.2023

## Details of Training Programmes/ workshops organized

- Organized two days workshop on “PCB Design and Fabrication” by R.R. Circuit solutions on 28<sup>th</sup> – 29<sup>th</sup> August 2013
- Organized one day workshop on “Machine Learning” by Mr. M. Arunkumar, Research Scientist, Philips Asia, Bangalore on 16.09.2013.
- Coordinator for two days workshop on “CADENCE Tool” by Vi-Microsystems Pvt. Ltd. on 11<sup>th</sup> – 12<sup>th</sup> November 2013.
- Organized two days workshop on “PCB Design and Fabrication” on 2<sup>nd</sup> – 3<sup>rd</sup> March 2015 by i-green technology
- Organized two days workshop on “PCB Design and Fabrication” on 9<sup>th</sup> – 10<sup>th</sup> March 2015 by i-green technology.
- Convener for Three Days workshop on “Project Design and Development” for IV ECE Students on 18<sup>th</sup> – 20<sup>th</sup> February 2016.
- Organized a motivation programme on “How to prepare for Civil Service Examinations” by Mr. B. Senthil Velavan, IRS on 09.07.2016 for IV year students.
- Organised Two Days National Level Workshop On Importance of Switching and Routing In Computer Networks Using Cisco Packet Tracer on 17<sup>th</sup> – 18<sup>th</sup> February 2017.
- Organised One Day Workshop On Advanced Switching Circuits Design using Cadence Tool on 3rd Mar 2017
- Organised One Day National Level Workshop on “Importance of Multirate Signal Processing

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for Digital Communication”, 9<sup>th</sup> Sep 2017.

- Organised One Day National Level Workshop on “Recent Trends and Challenges in Communication and Networking Using Cisco Packet Tracer”, 17<sup>th</sup> February 2018.
- One day National Level Workshop on “Importance of codes and standards and concepts involved in Data communication Networking”, 24.12.2018
- Two days hands on training With Arduino Microcontroller during 03-04.01.2019
- Two days Workshop on PCB Design and PCB Assembling Process using Digital Technology on 18-19.01.2019
- Convener for ISTE Sponsored Hands-On Training with Arduino Microcontroller on 15.03.2021 – Resource Persons: Dr. A. Valanarasi, ASP/ECE, Mr. S. Praveen Samuel Washburn, AP/ECE
- Convener of Alumni Technical Convention on 23-24.08.2019
- Convener of Alumni Technical Convention on 19-20.03.2020
- Convener of Alumni Technical Convention on 25.09.2021
- Convener for Valued Added Course for IV ECE (35 Students) – Dec 2021 – Resource Person: Mr. John Samuel, AP/CSE.
- Convener for Two Days Workshop on ‘PCB Fabrication and Assembling’ during 25-26, April 2022 – Resource Person: Mr. K. Senthil Kumar, Project Director, Nichitronics, Chennai
- Organised One Day Hands-On Training with Arduino Microcontroller on 04.05.2022 – Resource Persons: Dr. A. Valanarasi, ASP/ECE, Mr. S. Praveen Samuel Washburn, AP/ECE
- Convener for Workshop on Design thinking, Critical thinking and Innovation Design: Resource Person- Dr. Meikanda Ganeshkumar, HOD, MBA, Syed Ammal Engineering College on 22.02.2023
- Convener of Alumni Technical Convention on 08.04.23
- Convener for Two Days Workshop on ‘PCB Design and Fault Analysis’ during 08-09, May 2023 – Resource Person: Mr. K. Senthil Kumar, Senior Engineer, L & T Technologies, Chennai
- In-plant training Inaugural function and seminar on “Basics of Telecom and Types of Network”: Resource Person- Mr. R. Jai Karthik (Alumnus 2006 Batch ECE), JTO, BSNL, Karaikudi, 10.07.2023
- Convener for Engineer’s Day Function on 15.09.2023: Events conducted – Speech competition, Quiz competition
- Convener for Two Days Workshop on ‘Embedded 3D Printing Technologies’ during 22-23, September 2023 – Resource Persons: Mr. M. Daniel, Senior Developer, Mr. A. Sheik Mohammed, Project Coordinator, Smart Makers Pvt. Ltd., Madurai.

## Details of Seminars/Conferences organized

- Reviewer and Session chair for ICACCCT’12, an IEEE International Conference on Advanced Communication, Control and Computing Technologies conducted on 23<sup>rd</sup> – 25<sup>th</sup> Aug 2012.
- Executive Committee member for ICACCCT’14, an IEEE International Conference on Advanced Communication, Control and Computing Technologies conducted on 8<sup>th</sup> – 10<sup>th</sup> May 2014.

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- Organizing co-chair and Session chair for ICAEET'15, an International Conference on Advances in Applied Engineering and Technology conducted on 14<sup>th</sup> – 16<sup>th</sup> May 2015.
- Executive Committee member and Session chair for ICACCCT'16, an IEEE International Conference on Advanced Communication, Control and Computing Technologies conducted on 25<sup>th</sup> – 27<sup>th</sup> May 2016.
- Convener for Guest Lecture on Long Term Evolution by Resource Person Dr. A. Sivanantha Raja, Associate Professor, AlagappaChettiar Govt. College of Engg. & Tech. on 04.03.2017.
- Convener for IETE Sponsored Technical events TechProbe'18 on 10.03.2018
- Convener of Engineer's Day Function on 14.09.2019
- Organized One day Technical Seminar on Voice Biomarkers for Clinical Applications in Association With IEEE PSES on 21.02.2020.
- Organizing Chair for 2<sup>nd</sup> International Conference on advances in Applied Engineering and Technology-2020, 16-18, September 2020.
- Convener and Resource Person for Covid Awareness Programme "Control Measures for Covid-19" to the IV ECE Students, Staff and Faculties, 9<sup>th</sup> Dec, 2020
- Convener for International Conference on Innovative Research in Applied Engineering and Computing Methodologies, 13-14, August 2021
- Convener for Webinar on "IEEE Explore – Overview" by Mr. T. Nandalal, Senior Training Manager- South India, EBSCO Information Services & IEEE Xplore Digital Library, 04.04.2023
- Convener for Seminar on "Job Opportunities in Communication and Networks" by Mr. Velladurai (Alumnus 2010 Batch ECE), Quality Automation Specialist, Nat West Bank, UK, 25.04.2023.
- Convener for Seminar on "Career in Telecom" by Mr. R. Balu (Alumnus 2003 Batch ECE), Senior Solution Architect, Ericsson, Finland, 14.07.2023
- Convener for Career Guidance Programme by Mr. J. Jebakumar (Alumnus 2015 Batch ECE), QA, Rocket Software, Chennai, 22.08.2023

## WEBINARS ORGANISED

S.No.	Acad. Year	Event	Venue	Date
1		Webinar on the topic HOW AI IS HELPING TO COMBAT COVID-19 – Mr. Levin Madhusudhan, DevOps Lead, Eureka AI, Bangalore.	SAEC ECE in Association with ECE Alumni	12.05.2020
2		Webinar on ELECTRONICS IN AUTOMOBILE - Mr. Aswath Selvaraj, Asst., Professor, VEL Tech,, Chennai	SAEC ECE in Association with ECE Alumni	16.05.2020
3		Webinar on FORENSIC COUNTER MEASURES TO TACKLE FAKE NEWS AND	SAEC ECE in Association with	19.05.2020

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		FAKE SPEECH USING AI – Dr. Thayabaran Kathiresan Research Scientist – CFPA, University of ZURICH, SWIZZ.	ECE Alumni	
4	2019-20	Webinar on WHAT'S AFTER YOUR ENGINEERING GRADUATION Mrs. Rajapriya Rajaraman, Asst., Manager, Indian Bank, Chennai.	SAEC ECE in Association with ECE Alumni	23.05.2020
5		Webinar on INTRODUCTION TO MACHINE LEARNING AND DATA SCIENCE Mr. S. Hariprakash, Date Warehouse Developer, Nielsen, USA.	SAEC ECE in Association with ECE Alumni	27.05.2020
6		Webinar on EFFECTIVE INTERVIEW TECHNIQUES AND RESSUME BULIDING Mrs. R.T. Priyadharashini, HR & Operation Manager, Transkart Logistics, Mumbai.	SAEC ECE in Association with ECE Alumni	30.05.2020
7		Online training of the IEEE Explore Digital Library	IEEE	02.06.2020
8		Webinar on MOBILE APPLICATION AUTOMATION USING APPIUM – Mr. M. Velladurai, Asst., Consultant, TCS, Chennai	SAEC ECE in Association with ECE Alumni	03.06.2020
9		Webinar on INTRODUCTION TO MACHINE LEARNING AND DATA SCIENCE – Mr. S. Hariprakash, Date Warehouse Developer, Nielsen, USA.	SAEC ECE in Association with ECE Alumni	27.05.2020
10		Webinar on EFFECTIVE INTERVIEW TECHNIQUES AND RESSUME BULIDING – Mrs. R.T. Priyadharashini, HR & Operation Manager, Transkart Logistics, Mumbai.	SAEC ECE in Association with ECE Alumni	30.05.2020
11		Online training of the IEEE Explore Digital Library	IEEE	02.06.2020
12		Webinar on MOBILE APPLICATION AUTOMATION USING APPIUM – Mr. M. Velladurai, Asst., Consultant, TCS, Chennai	SAEC ECE in Association with ECE Alumni	03.06.2020
13		Webinar on SOFTWARE DEFINED NETWORKING – SDN & NETWORK FUNCTION VIRTUALIZATION- NFW Mr. R. Kathiravan, Asst., Manager, TATA Communications Ltd., Chennai	SAEC ECE in Association with ECE Alumni	06.06.2020
14		Webinar on OPPORTUNITIES IN TAMIL FILIM INDUSTRY – Mr. S. Thilak, Artist & Co Director	SAEC ECE in Association with ECE Alumni	10.06.2020
15		Webinar on OIL AND GAS PROCESS AUTOMATION AND CARRER OPTIONS –	SAEC ECE in Association with	13.06.2020

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		Mr. RiyazHabeebRahman, Project Management Professional, Kuwait Oil Company	ECE Alumni	
16		Webinar on MEDICAL APPLICATIONS OF DIGITAL IMAGE PROCESSING TECHNIQUES – Dr. G. Mahendran, HOD/ECE	SAEC ECE in Association with ECE Alumni	17.06.2020
17		Webinar on INTRODUCTION TO AUTOMOTIVE INDUSTRY AND VEHICLE NETWORK – Mrs. R. Surya Prabha, Tech. Lead, HCL	SAEC ECE in Association with ECE Alumni	19.06.2020
18		Webinar on INTRODUCTION TO SOFTWARE TESTING- Mrs. Rasika Barveeskhan, Senior Quality Assurance Engineer-Cognizant	SAEC ECE in Association with ECE Alumni	23.06.2020
19		Webinar on TECHNOLOGY AND THE NEW WORLD AHEAD- Mr.G.K .Aditya Vignesh Ram, Digital Infrastructure & Cyber Price Waterhouse Coppers, Middle East Regions	SAEC ECE in Association with ECE Alumni	27.06.2020
20		Webinar on CLOUD TECHNOLOGIES AND CLOUD SECURITYD CLOUD SECURITY- Mr.Robinson Asokan, Information Security Analyst, Trimble Inc	SAEC ECE in Association with ECE Alumni	01.07.2020
21		Webinar on TECHNOLOGIES BEHIND SOCIAL MEDIA ADVERTISING - Mrs.K.Hemalatha Software Development Engineer in Test, Pinterest, San Francisco CA, USA	SAEC ECE in Association with ECE Alumni	04.07.2020
22		ISSUES AND CHALLENGES IN ADVANCED ELECTRONICS AND COMMUNICATION ENGINEERING AND TECHNOLOGY (Distinctive Webinar Series)	SAEC ECE in Association with ECE Alumni	06.07.2020 – 10.07.2020
23		Webinar on “JOBS IN GOVERNMENT SECTOR” Mr. Muhammed Imran Assistant Section Officer Tamilnadu Secretariat	SAEC ECE in Association with ECE Alumni	16.07.2020
24	2020-21	Webinar on “HOW TO PREPARE FOR CIVIL SERVICE EXAMS?” Mr. Senthil Velavan, IRS, Additional Commissioner, Office of the Principal Chief Commissioner of Tamilnadu and Pondicherry, Chennai	SAEC ECE in Association with ECE Alumni	01.08.2020
25		HOW ECE SUBJECTS LEAD ME TO BECOME A SCIENTIST? Dr.Sulthan Halifa Haroon Al Rashid	SAEC ECE in Association with ECE Alumni	05.08.2020

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		Research Fellow-RMIT University Melbourne, Australia		
26		FUNDAMENTAL STEPS IN DIGITAL IMAGE PROCESSING USING MATLAB Mrs. K. N. Narmadha Devi Alumni 2013 UG Batch, 2015 PG Batch	SAEC ECE in Association with ECE Alumni	22.05.2021
27		PREPARATION FOR INTERVIEW AND IMPORTANCE OF HIGHER EDUCATION Ms. M. I. Susmitha Alumni 2019 UG Batch, 2021 PG Batch	SAEC ECE in Association with ECE Alumni	29.05.2021
28		One day online training on “Value of IEEE Publications in Research and Career Development”	SAEC in association with IEEE	23.04.2021
29	2021-22	INTRODUCTION ON EMBEDDED SYSTEMS Mr. S. Praveen Samuel Washburn, ASP/ECE Syed Ammal Engineering College	ECE Department SAEC	20.08.2021
30		MOTIVATIONAL SPEECH Prof. Ibrahim, External Mentor for Students and faculties	ECE Department SAEC	21.08.2021
31		IMPORTANCE OF COMMUNICATION SKILLS IN ENGLISH Dr. G. Mahendran, Professor & Head, Department of ECE, SAEC	ECE Department SAEC	26.08.2021
32		IEEE - Enhancing Your Project Work and Research	IEEE & SAEC	27.10.2021
33	2022-23	Webinar on “How to access the journal papers from the Internet”	IEEE & SAEC	04.04.2023
34		A Technical Training Programme “Figma: Getting Started” through online. Resource Persons: Mr. S. Vallarasu, Lead software Engineer, Wellsfargo, Bangalore. Mr.J.Jebakumar, Software Engineer, Rocket Software, Chennai.	SAEC	04.10.2023
35	2023-24	Webinar on “Enhancing your Project work and Research”, Resource Person: Mr. Nanda Lal, Senior Training Manager - South India, EBSCO Information Services & IEEE Xplore Digital Library	IEEE & SAEC	14.11.2023

## PARTICIPATION

S. No.	Activity participated	Number of Activities participated
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1	FDP/STTP/Seminar/Workshop	39
2	FDP/STTP/Seminar/Workshop (Through Online)	40

NPTEL COURSES		
Month and Year of Exam	Name of the course	Grade Obtained
November 2019	Digital Image Processing	Elite Silver (One of the Toppers)
March 2023	Discrete Time Signal Processing	Elite (Topper)

## INVITED TALK

- Delivered guest Lecture on the topic of “Digital signal Processing” for III IT students, St. Michael College of Engg. & Tech., Kalayarkovil on 28.04.2011.
- Delivered guest Lecture on the topic of “Value of Teachers”, in Mohamed Sathak Dasthagir College of Education, Ramanathapuram, 17.04.2015.
- Acted as a member of Department Advisory Board meeting of ECE Department, Fathima Michael College of Engg. & Tech., Madurai, 23.07.2016
- Keynote Speaker and Session Chair for National Conference on Innovations in Electronics and Communication Engineering, Dhanalakshmi Srinivasan Engineering College, Perambalur, 13.03.2020.
- As a Resource Person, handled a session on 21.12.2020 for Six Days AICTE sponsored STTP on Potential Benefits of RFID in Industrial, Medical and Domestic Sectors (21.12.2020 – 27.12.2020 Phase II)
- Resource Person for “NAAC sponsored NAAC Awareness Seminar on Building Quality System in Higher Education Sector”, organized by Siddharth Institute of Engineering and Technology, Andhra Pradesh on 20.05.2022 and handled a session titled ‘Analysis for Identifying the Strengths and Weakness of the Institution with Gap Analysis for Remedial Actions’.
- Resource Person for FDP on “Outcome Based Education - An Awareness Programme Of Co & Po Attainment” organized by Syed Ammal Engineering College on 31.08.2023.



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## Patents Published:

S.No	Date	CBR.No/Application No/Dairy No	Patent Status with Date	Topic
1	14.01.2021	202141001745 A	Filed on 14.01.2021 Published on 22/01/2021	An Intelligent Fast Compost Generator Bin With Automatic Segregation of Waste
2	15.02.2021	202141006236	Filed on 15.02.2021 Published on 19/02/2021	An Intelligent Jewel Display System Using Laser Pen Integrated With Display Unit
3	23.02.2022	202241009503 A	Filed on 23.02.2022 Published on 04/03/2022	Detecting Face Mask and Dictating No Mask customers to wear it using Deep Learning Technique in Shopping Mall

## LIST OF Ph.D. SCHOLARS

		<b>Centre For Research</b> ANNA UNIVERSITY, CHENNAI						
NOTE :								
SCHOLAR DETAILS								
S.NO	REGNO	NAME	DEGREE	FACULTY	REG YEAR	REG SESS	SUPERVISOR	STATUS
1	18134797216	Sriram Sundar S	Ph.D.	Ice	2018	JUL	Supervisor	Confirmation completed
2	18143791215	Praveen Samuel Washburn S	Ph.D.	Elec	2018	JAN	Supervisor	Confirmation completed
3	21144791294	Arunmani G	Ph.D.	Ice	2021	JAN	Supervisor	
4	21234791537	Karthika Devi N	Ph.D.	Ice	2021	JAN	Supervisor	
5	21244791390	Archana Devi D	Ph.D.	Ice	2021	JAN	Supervisor	Confirmation completed
6	22124791272	Jayaprakasam K	Ph.D.	Ice	2022	JAN	Supervisor	Course Work
7	22144797252	Ramesh Kumar R	Ph.D.	Ice	2022	JUL	Supervisor	Confirmation completed

## Acted as a reviewer in the following international journals and conferences

- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '12)

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- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '14)
- International Conference on Advances in Applied Engineering and Technology (ICAAET'15)
- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '16)
- Applied Soft Computing (Elsevier Journal)
- International Journal of Ophthalmology & Clinical Research
- IETE Journal of Research
- International journal of Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization
- Elsevier – Materials Today: Proceedings
- 6th International Conference on Recent Trends In Advanced Computing (ICRTAC'23) (IEEE Record Number - 59277) December 14th - 15th, 2023, organised by School Of Computer Science and Engineering In Collaboration with VIT Business School, Vellore Institute of Technology, Chennai Campus, India

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