

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH


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

Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PROFILE

| | | |
|-------------------------------------|--|---|
| Name | : Dr. S. MURUGESWARI |  |
| Designation | : ASSOCIATE PROFESSOR & HEAD | |
| Contact Address | : Department of BME, Syed Ammal Engineering College, Ramanathapuram – 623 502. | |
| Contact Mobile No. | : 9942042076, 9047931137 | |
| Email id | : murugeskabilan@syedengg.ac.in, murugeskabilan@gmail.com | |
| Areas of Interest Communications | : Medical Image processing, RF and Microwave, VLSI, | |

Qualification

- B.E. (Electronics and Communication Engineering)- April 1998 – MK University
- M.E. (Applied Electronics)- April 2004 – Anna University
- Ph.D (Information and Communication Engineering) – February 2018 – Area of Research: Medical Image Processing – Anna University, Chennai

Experience

- 25.06.199 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 15.09.2023 : Associate Professor -- Syed Ammal Engineering College
- 16.09.2023 to Till date : Associate Professor/HOD -- Syed Ammal Engineering College

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Subjects handled:

- 1. Electronic Devices**
- 2. Electronic Devices and Circuits**
- 3. Solid state circuits**
- 4. Electronic circuits I**
- 5. Electronic circuits II**
- 6. Linear Integrated Circuits**
- 7. Digital Electronics**
- 8. Digital Circuits and system design,**
- 9. Communication Engineering**
- 10. Information theory and coding**
- 11. Display devices and systems**
- 12. Antennas and wave propagation**
- 13. Optical Communication**
- 14. Satellite communication**
- 15. Digital Image Processing**
- 16. Analog and Digital Communication**
- 17. Analysis and Design of Analog Integrated Circuits**
- 18. RF and Microwave Engineering**
- 19. Mobile Communication,**
- 20. Wireless Communication**

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21. Measurements and Instrumentation

22. Microwave Engineering

Publications in Conferences:

1. Nithya and **S.Murugeswari** “An Optimized Hybrid Method Based on Ant colony for Macula”, Internatinal conference on VLSI Computer Networks, Drives, System Design, March 2014.
2. S. Murugeswari “Severity Assessment of Diabetic Macular Edema for Clinical Investigations GMM classifier”, IEEE International Conference on Advanced Communication Control and Computing Technologies, ICACCCT’ 16, Ramanathapuram, India, pp. 204 – 212, May 2015.
3. R. Dhanasekaran, G. Mahendran, S. Murugeswari and S. Mofia Fargana, “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.
4. P.Pandeeswari and S. Murugeswari and “A Partition Based Bloom Filter for Fastest Data Search”, IEEE International Conference on Advanced Communication Control and Computing Technologies, ICACCCT’ 16, Ramanathapuram, India, pp. 184 – 187, May 2016
5. B.Akilandaeswari and **S.Murugeswari** “An Efficient Perforation Based Neuron Model for Digital Application” International Conference on Emerging Trends in Engineering, Science and Sustainable Technolgy, 1-8, March 2017.
6. J.C.Daisy Roselin, Dr. G.Mahendran & Dr. S.Murugeswari, “ Stack Based Configurable Logic GATES Technology for IP Cores”, IEEE 8 th International Conference on Information Communication and Embedded Systems , Chennai, India, March 2019.
7. Dr.S.Murugeswari, K.shruti “Self tunable approximate computing for FIR Filter Design” International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN2K19), Ramanathapuram, India, Nov, 2019
8. M.Susmitha, G. Mahendran, M. Periyasamy, S. Murugeswari, B.Saravanan and K.Jejasudha “Design of efficient code convertor using Quantum dot cellular automata ‘International Conference on Innovative Research in Applied Engineering and Computing 2021.
9. Mahendran G, Afrin 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.
10. Kamila, S.Murugeswari “Realization of security aware low power sensor node deployment using Fuzzy LOA optimization” International Conference on Innovative Research in Applied Engineering and Computing 2021.

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11. 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.
12. Nazreen Roja R., Mahendran G., Murugeswari S., Praveen Samuel Washburn, "QCA Design of Fault Tolerant Voter Circuit for Triple Modular Redundant System", 2nd International Conference on Emerging Trends in Communication, VLSI and Signal Processing, Trichy, India, March 2023.
13. Thenmozhi N., Murugeswari S., Mahendran G., Praveen Samuel Washburn, "A Low Cost VLSI architecture for IoT enabled Sensor network with optimized cluster head selection", 2nd International Conference on Emerging Trends in Communication, VLSI and Signal Processing, Trichy, India, March 2023.
14. Venkatesan., Murugeswari S. and Mahendran G. "A smart Approach for Wireless Adhoc To detect various Attacks", 2nd International Conference on Emerging Trends in Communication, VLSI and Signal Processing, Trichy, India, March 2023.

Publications in Journals:

1. S.Murugeswari and R.Sukanesh, "Impulsive Taxation of Diabetic Maculopathy from Tint Retinal Metaphors" International Journal of Computer Applications Volume 82 – No 11, pp.12-16 ,ISSN: 0975 – 8887, November 2013.
2. S.Murugeswari and R.Sukanesh, "Detection of diabetic maculopathy Using KNN algorithm" Applied Mechanics and Materials Vol. 573 ,pp 791-796, June 2014.
3. S.Murugeswari and R.Sukanesh, " Investigations On Diabetic Macular Edema Using Motion Pattern Estimation to Prevent Vision Loss " ARPN Journal of Engineering and Applied Sciences, VOL. 10, NO. 7, pp. 2940-2947, ISSN: 1819-6608, July 2015.
4. S.Murugeswari and R.Sukanesh, "Severity Assessment of Diabetic Macular Oedema for clinical investigations" International Journal of Applied Engineering Research ,10, pp.753-757, ISSN: 0973-4562, Aug 2015 .
5. S.Murugeswari and G.Kavitha, "Performance analysis of Bit Error Rate for Fast fading channels" International Journal of Applied Engineering Research ,10, 174-178, ISSN: 0973-4562 Aug 2015 .
6. S.Murugeswari and R.Sukanesh, " Assessment of Severity Level for Diabetic Macular Oedema Using Machine Learning Algorithms" Circuits and Systems, vol.7, pp. 1098-1105, ISSN: 2153-1285, May 2016.
7. S.Murugeswari and R.Sukanesh " Examinations on Diffuse Diabetic Macular Oedema using Neural Networks" Journal of Medical Imaging and Health Informatics ,Vol. 6, 1–5, 2016. doi:10.1166/jmihi.2016.1967, December 2016.

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8. Murugeswari, S & Sukanesh, R, 2017, 'Investigations of severity level measurements for diabetic macular oedema using machine learning algorithms', Irish Journal of Medical Science, Vol. 186, No. 4, pp. 929-938. May 2017. DOI: 10.1007/s11845-017-1598-8, ISSN : 0021-1265, (Annexure D)
9. S.Praveen Samuel Washburn, Mahendran, Dhanasekaran, Periysamay, Murugeswari, "Investigation of Severity Level of Diabetic Retinopathy using Adaboost Classifier Algorithm", Materials Today:Proceedings, DOI: 10.1016/j.matpr.2020.03.199. Vol.33, Part 7, pp. 3037-42, April 2020
10. M. Periyasamy, Mahendran Gandhi, B. Sakthivel, S. Murugeswari, "A Novel Fault Tolerant Multiplier using Single Digit Conversion based Self checking Scheme", Materials Today:Proceedings, DOI: 10.1016/j.matpr.2020.03.204
11. G. Mahendran, M. Periysamy, S. Murugeswari, N. Karthika Devi, "Analysis on Retinal Diseases using Machine Learning Algorithms", Materials Today:Proceedings,DOI: 10.1016/j.matpr.2020.03.691
12. G. Mahendran, M. Periysamy, S. Murugeswari, S. Praveen Samuel Washburn "A VLSI implementation of FIR filter using self tunable addition and multiplication" Materials Today: Proceedings 33 (2020) 4318–4322.
13. Praveen Samuel Washburn, Mahendran, Periyasamy, Murugeswari, Karthika Devi, Divya, Jeya Sudha & Raga Rakshanya, Hardware Based Identification of Bright Lesions to Diagnose Diabetic Retinopathy, Materials Today: Proceedings, April 2021
<https://doi.org/10.1016/j.matpr.2021.03.335>.
14. Kirubanandasarathy Nageswaran, Murugeswari Selvan & Mahendran Gandhi 'A Hybrid Transform for Reduction of Peak to Average Power Ratio in OFDM System' Wireless Personal Communications (2021)20.02.2021.
15. A.Shyamala,S.Murugeswari,G.Mahendran&R.Jothi Chitra "Hybrid grey assisted whale optimization based machine for the COVID-19 prediction, Computer Methods in Biomechanicsand Biomedical Engineering, <https://doi.org/10.1080/10255842.2023.2292008.19> Dec 2023.

Books Published

- '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, ISBN: 978-93-94339-05-7.

Book Chapters Published

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- 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.

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 |

Details of Training Programme/ workshops organized

- Convener for Mini project competition organized by ISTE, SAEC, Ramanathapuram on March 17, 2012.
- Convener for Mini project competition organized by ISTE, SAEC, Ramanathapuram on March 16, 2013.
- Convener for Mini project competition organized by ISTE, SAEC, Ramanathapuram on March 18, 2014.
- Convener for Mini project competition organized by ISTE, SAEC, Ramanathapuram on March 14, 2015.
- Convener for Mini project competition organized by ISTE, SAEC, Ramanathapuram on March 19, 2016.
- Organized Guest Lecture on Long Term Evolution by Resource Person Dr. A. Sivanantha Raja, Associate Professor, Alagappa Chettiar Govt. College of Engg. & Tech. on 04.03.2017.
- Coordinated Guest lecture on Long Term Evolution, March 4, 2017, Syed Ammal Engineering College

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- Convener for Mini project competition organized by ISTE, SAEC, Ramanathapuram on March 11, 2017.
- Coordinated Guest lecture on Long Term Evolution, March 4,2017, Syed Ammal Engineering College
- Convener for Mini project competition organized by ISTE, SAEC, Ramanathapuram on March 17, 2018.
- Coordinated Two days Workshop on PCB Design and PCB Assembling Process using Digital Technology, 18.01.2019 – 19.01.2019,Syed Ammal Engineering College
- Convener for Mini project competition organized by ISTE, SAEC, Ramanathapuram on Feb 23, 2019.
- Two days Workshop on PCB Design and PCB Assembling Process using Digital Technology, 18.01.2019 – 19.01.2019,Syed Ammal Engineering College
- Coordinated Webinar on introduction to Automotive Industry and Vehicle Network,20.06.2020,Syed Ammal Engineering College
- Convener for ISTE Technical Webinar 24.09.2021
- Coordinator for of Alumni Technical Convention on 25.09.2021
- Coordinator 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 Mini project competition organized by ISTE, SAEC, Ramanathapuram on May 14, 2022.
- Coordinator 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
- 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 for ICACCCT'12, an IEEE International Conference on Advanced Communication, Control and Computing Technologies.
- Session chair for ICACCCT'12, an IEEE International Conference on Advanced Communication, Control and Computing Technologies
- Reviewer for ICACCCT'14, an IEEE International Conference on Advanced Communication, Control and Computing Technologies
- Session chair for ICACCCT'14, an IEEE International Conference on Advanced Communication, Control and Computing Technologies
- Reviewer for ICACCCT'16, an IEEE International Conference on Advanced Communication, Control and Computing Technologies

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- Coordinator 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.
- Coordinator for IETE Sponsored Technical events TechProbe'18 on 10.03.2018
- Coordinator for Alumni Technical Convention on 23-24.08.2019
- Coordinator for Alumni Technical Convention on 19-20.03.2020
- National Level Students Technical Symposium 'INNOWAVE-2020,31.01.2020
- Coordinator for Alumni Technical Convention on 25.09.2021
- ISTE Technical Webinar 24.09.2021

WEBINARS ORGANISED

| S.No. | Acad. Year | Event | Venue | Date |
|-------|------------|---|---|------------|
| | 2019-20 | Coordinator for 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 |
| | 2019-20 | Coordinator for Webinar on MOBILE APPLICATION AUTOMATION USING APPIUM – Mr. M. Velladurai, Asst., Consultant, TCS, Chennai | SAEC ECE in Association with ECE Alumni | 03.06.2020 |
| 1 | 2019-20 | Coordinator for Webinar on MEDICAL APPLICATIONS OF DIGITAL IMAGE PROCESSING TECHNIQUES – Dr. G. Mahendran, HOD/ECE | SAEC ECE in Association with ECE Alumni | 17.06.2020 |
| | 2019-20 | Coordinator for 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 |
| | 2021-2022 | Convener for ISTE Technical Webinar | ISTE in Association with SAEC Alumni | 24.09.2021 |

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PARTICIPATION

| S. No. | Activity participated | Number of Activities participated |
|--------|--|-----------------------------------|
| 1 | FDP/STTP/Seminar/Workshop | 28 |
| 2 | FDP/STTP/Seminar/Workshop (Through Online) | 64 |

NPTEL COURSES

| Month and Year of Exam | Name of the course | Grade Obtained |
|------------------------|--------------------------|----------------|
| November 2019 | Digital Image Processing | Elite Silver |

LIST OF Ph.D. SCHOLARS

The screenshot shows the 'Scholar Details' page of the Centre For Research at Anna University, Chennai. The page features a navigation menu with 'HOME', 'PROFILE', 'SCHOLAR DETAIL', 'CHANGE PASSWORD', and 'LOGOUT'. Below the navigation is the Centre For Research logo and a 'NOTE' section. The main content is a table titled 'SCHOLAR DETAILS' with the following columns: S.NO, REGNO, NAME, DEGREE, FACULTY, REG YEAR, REG SESS, SUPERVISOR, and STATUS. The table lists two scholars:

| S.NO | REGNO | NAME | DEGREE | FACULTY | REG YEAR | REG SESS | SUPERVISOR | STATUS |
|------|-------------|----------------|--------|---------|----------|----------|------------------|-------------|
| 1 | 22244797219 | Minarva Devi K | Ph.D. | Ice | 2022 | JUL | Supervisor | Course Work |
| 2 | 18134791571 | Ravivarma P | Ph.D. | Ice | 2018 | JAN | Joint Supervisor | |

At the bottom of the page, there is a footer: '2020 © Centre for Research | All Rights Reserved.' and a 'Home' link.

The screenshot shows the Windows taskbar at the bottom of the browser window. The taskbar includes the search bar, task view button, and several application icons. The system tray on the right shows the time as 10:00 PM and the date as 12/7/2022.

Acted as a reviewer in the following international journals and conferences

- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '12)
- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '14)

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- International Conference on Advances in Applied Engineering and Technology (ICAAET'15)
- Reviewer for ETRI (Electronics and Telecommunications Research Institute) Journal
- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '16)
- Reviewer for JERR(Journal of Engineering Research and Reports)

Membership/Fellowship in Professional bodies

- Life member – ISTE
- Life member – IETE
- Annual member – IEEE

AREAS OF INTEREST

- Digital Signal/Image Processing
- Wireless Communication
- VLSI Design
- RF and Microwave Engineering
- Analysis and Design of Analog Integrated Circuits
-

Details for acting as a Doctoral Committee member for Ph.D Students

| Name of the Students | Register Number | Title of their Ph.D Work |
|----------------------|-----------------|---|
| Mrs. N. KartikaDevi | 21234791537 | Investigations on Diabetic Maculopathy |
| Mr. K.Jayaprakasam | 22124791272 | Brain tumor detection using deep learning algorithm |

List of additional responsibility handled

Redresses committee Convener (2002-2005)

Auditor for ISO

ISTE convener

Hostel Convener

Session chair

Judge for various events conducted in inside the campus and other college.

Library Committee Member

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Class In- charge

Counselor

Chair Person

Faculty coordinator

PTA Convener

LFA Coordinator

HOD for BME