

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 : Mr. S. PRAVEEN SAMUEL WASHBURN
Designation : ASSISTANT PROFESSOR
Contact Address : Department of ECE,
Syed Ammal Engineering College,
Ramanathapuram – 623 502.
Contact Mobile No. : 9566311471
Email id : praveensamuel@syedengg.ac.in
Areas of Interest : Embedded Systems



Qualification

- B.E. (Electronics and Communication Engineering)
- M.E. (Embedded System Technologies)
- Ph.D. Pursing (Electrical Engineering) – Area of Research: Embedded Systems

Experience

- 07.12.2010 to 30.06.2012 : Lecturer – Syed Ammal Engineering College
- 01.07.2012 to Till date : Assistant Professor– Syed Ammal Engineering College

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Publications in Conferences:

1. P. Bharathi & **S. Praveen Samuel Washburn** , A Novel Cordic Architecture Using Optimized Angle of Rotation , National conference on System Design and Information Processing, Dindigul, India, March. 2014.
2. 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.
3. N. Mahalakshmi, G. Mahendran, S.Murugeswari & **S. Praveen Samuel Washburn**, “Location Based Reconfigurable FPGA Using LUT Merging Optimization”, International Conference on Advances in Applied Engineering and Technology (ICAAET-2020),Ramanathapuram, India, May, 2020
4. **S.Praveen Samuel Washburn** & G. Mahendran, “Hardware Based Identification of Bright Lesions to Diagnose Dibaetic Retinopathy”, online International Conference on "Emerging Trends in Materials Science, Technology and Engineering (ICMSTE2K21), Ramanathapuram, India, March 2021.
5. **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.
6. 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.
7. 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.
8. 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.
9. 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.

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Publications in Journals:

1. P. Bharathi and **S. Praveen Samuel Washburn**, “Way Tagged L2 Cache Architecture Under Write Through Policy,” Journal of Electronic Communications Engineering Advanced Research, Vol. 02, No 12, pp. 86–89, Feb. 2014.
2. **S. Praveen Samuel Washburn** and S. Sivasangari, “High Performance Network On Chip Router Design Parallel Crossbar Architecture,” Journal of Applied Engineering Research, Vol 10, No 55, pp. 149–154, May. 2015.
3. **S. Praveen Samuel Washburn**, Mahendran, Dhanasekaran, Periyasamy, Murugeswari, “Investigation of Severity Level of Diabetic Retinopathy using Adaboost Classifier Algorithm”, Materials Today:Proceedings, DOI: 10.1016/j.matpr.2020.03.199. 33(2020), pp. 4318-4322.
4. Mahendran Gandhi, M.Periyasamy, S.Murugeswari, **S. Praveen Samuel Washburn**, “A VLSI Implementation of FIR Filter Using Self Tunable Addition And Multiplication”, Materials Today:Proceedings, DOI: 10.1016/j.matpr.2020.07.441. 33(2020), pp. 3037-3042.
5. G. Mahendran, M. Periyasamy, S. Murugeswari, **S. Praveen Samuel Washburn**, M.I. Susmitha & M. Kavitha, Design and execution of programmable logic device using quantum dot cellular automata, Materials Today: Proceedings, March 2021 <https://doi.org/10.1016/j.matpr.2021.01.921>
6. Nageswaran Kirubanandasathy, J.Sakubar Sadiq, C.Priya, S.Praveen Samuel Washburn, B.Monisha, M.Muneeswaran, An Effective Low Power Halftoning Based Authentication And Self-Recovery of Tampered Images, Materials Today: Proceedings, March 2021 <https://doi.org/10.1016/j.matpr.2021.01.818>
7. **G. Mahendran**, M. Periyasamy, S. Murugeswari, S. Praveen Samuel Washburn, M.I. Susmitha & M. Kavitha, Design and execution of programmable logic device using quantum dot cellular automata, Materials Today: Proceedings, March 2021 <https://doi.org/10.1016/j.matpr.2021.01.921> (Scopus Indexed Journal)
8. **Praveen Samuel Washburn**, Mahendran, Periyasamy, Murugeswari, Karthika Devi, Divya, JeyaSudha & 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>
8. N. Karthika Devi, G. Mahendran, M. Periyasamy, S. Murugeswari, **S. Praveen Samuel Washburn**, D. Archana Devi, B. Saravanan G. Bharathi, & N. MinhajBegam A New Lossless Compression Method Using Direction Adaptive-Discrete Wavelet Transform and Modified SPIHT Coding, Materials Today: Proceedings, April 2021 <https://doi.org/10.1016/j.matpr.2021.03.387>

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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, 2022, ISBN: 978-93-94339-05-7.

Funds raised

NIL

FDP/STTP Organized

- Co-Coordinator for Six Days AICTE sponsored STTP on Soft Computing Techniques in Engineering Applications (20.07.2020 – 25.07.2020 Phase I).
- Co-Coordinator for Six Days AICTE sponsored STTP on Soft Computing Techniques in Engineering Applications (10.08.2020 – 16.08.2020 Phase II).
- Co-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).
- Coordinator for Alumni Technical Convention on 08.04.2023.

Details of Training Programme/ Workshops/Conference organized

- Organized Two Days National Level Workshop On Importance of Switching and Routing In Computer Networks Using Cisco Packet Tracer on 17th – 18th February 2017.
- Organized One Day National Level Workshop on "Recent Trends and Challenges in Communication and Networking Using Cisco Packet Tracer", on 17th February 2018.
- Organized One day National Level Workshop on "Importance of codes and standards and standards and concepts involved in Data communication Networking", on 24.12.2018.
- Organized One day Webinar on "INTRODUCTION TO AUTOMOTIVE INDUSTRY AND VEHICLE NETWORK", on 19.06.2020.
- Organized One day Webinar on "INTRODUCTION TO SOFTWARE TESTING", on 23.06.2020.
- Organized One day Webinar on "TECHNOLOGY AND THE NEW WORLD AHEAD", on 27.06.2020.
- Organized One day Webinar on "CLOUD TECHNOLOGIES AND CLOUD SECURITY", on 01.07.2020.
- Organized One day Webinar on "TECHNOLOGIES BEHIND SOCIAL MEDIA ADVERTISING", on 04.07.2020.

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- Organized Five days Distinctive Webinar series on “ISSUES AND CHALLENGES IN ADVANCED ELECTRONICS AND COMMUNICATION ENGINEERING AND TECHNOLOGY”, on 06.10.2020 – 10.10.2020.
- Organized One day Webinar on “TECHNOLOGIES BEHIND SOCIAL MEDIA ADVERTISING”, on 04.07.2020.
- Organized One day Webinar on “JOBS IN GOVERNMENT SECTOR”, on 16.07.2020.
- Organized One day Webinar on “HOW TO PREPARE FOR CIVIL SERVICE EXAMS?” on 01.08.2020.
- Organized One day Webinar on “HOW ECE SUBJECTS LEAD ME TO BECOME A SCIENTIST” on 05.08.2020.
- Organized Two Days Workshop on “PCB FABRICATION AND ASSEMBLING” on 25.02.2022 – 26.02.2022.
- Organized One day Workshop on “DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN” on 22.02.2023.
- Organized Two Days Workshop on ‘PCB DESIGN AND FAULT ANALYSIS” on 08.05.2023 - 09.05.2023.
- Organized One day Seminar on “CAREER IN TELECOM” on 14.07.2023.
- Coordinator for One day “CAREER GUIDANCE PROGRAMME “on 22.08.2023.
- Coordinator for ENGINEER’D DAY FUNCTION” on 15.09.2023.
- Coordinator for Two Days Workshop on ‘EMBEDDED 3D PRINTING TECHNOLOGIES” on 22.09.2023-23.09.2023.

FDP AND WEBINAR PARTICIPATED:

S.No	Title of the Program	Venue	Date
1	FDP on “Essential Of Language”	Syed Ammal Engineering College, Ramanathapuram	23.08.2011 - 24.08.2011
2	One day workshop on “Research Methodologies”	Syed Ammal Engineering College, Ramanathapuram	28.08.2011
3	Three days Training programme on” Train The Trainer/HRP/PO Competence Enhancement”	RIPE-Chennai	10.11.2011 - 12.11.2011
4	One Day National Seminar on “How to succeed in your PhD – an international perspective”	Syed Ammal Engineering College, Ramanathapuram.	13.01.2012
5	Two days Training programme on “Cadence Tool”	Syed Ammal Engineering College, Ramanathapuram.	11.11.2013 - 12.11.2013
6	5 days ICT sponsored FDP on “JSE Programming”	Syed Ammal Engineering College, Ramanathapuram	19.01.2016 - 23.01.2016
7	One Day FDP on “How to be an	Syed Ammal Engineering	20.08.2016

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	Interesting and Inspiring Teaching Profession??"	College, Ramanathapuram	
8	Two Days National Seminar on "Recent Trends in RF, Antennas and MIC" Sponsored by IEEE-MADRAS SECTION	K.L.N College of Engineering, Pottapalayam	01.12.2016-02.12.2016
9	One Day FDP on "Modern Tool Usage in Teaching"	Syed Ammal Engineering College, Ramanathapuram	13.12.2016
10	7 days Anna University sponsored FDP on "EC 6303-Signals and Systems"	Syed Ammal Engineering College, Ramanathapuram	07.06.2017-13.12.2017
11	Two Days FDP on "Teaching Methodologies and Interpersonal Skills"	Syed Ammal Engineering College, Ramanathapuram	29.06.2018 - 30.06.2018
12	One Day National Level Workshop on "How to Write Good Scientific Project Proposals"	Syed Ammal Engineering College, Ramanathapuram	04.08.2018
13	One day IEEE/EBSCO Training Program on "IEEE Xplore Digital Library for Technical Research"	Syed Ammal Engineering College, Ramanathapuram	10.09.2018
14	One day Hands on Training on "Lab View & VLab/VTU Lab"	Fatima Michael College of Engineering and Technology, Madurai	01.03.2019
15	One day training on "Techniques for Effective Research with IEEE Xplore"	Syed Ammal Engineering College, Ramanathapuram	13.03.2019
16	One day Capacity Building Workshop for Professors on Personality, Profession and Passion"	Syed Ammal Engineering College, Ramanathapuram	25.06..2019
17	Two day Hands on Training workshop on "EC6711-Embedded Systems Lab"	K.L.N College of Engineering, Pottapalayam	27.06.20.19-28.06.2019
18	Two day Hands on Training workshop on "How to Write Good Quality Research Articles and LaTeX"	K.L.N College of Engineering, Pottapalayam	25.07.20.19-26.07.2019
19	AICTE Sponsored Two Weeks FDP on "Verification & Testing of VLSI Circuits using EDA Tools"	Syed Ammal Engineering College, Ramanathapuram	01.11.20.19-14.11.2019
20	One day FDP on "Soft Skills and Understanding the Psychology of Current Generation Students"	Syed Ammal Engineering College, Ramanathapuram	09.12.2019
21	Five days Webinar on "Season 3 of Skycampus-The future is Here now"	ICT Academy	27.04.2020-01.05.2020
22	One day webinar on "The Power of a Teacher"	ICT Academy	04.05.2020

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23	Five days Webinar on “Season 4 of Skycampus-The future of Education, Employment & Entrepreneurship”	ICT Academy	04.05.2020-08.05.2020
24	Five days OFDP on “PYTHON”	VIT	05.05.2020-09.05.2020
25	Five days Webinar on “Season 7 of Skycampus-Accelerating Industry 4.0- A Post Covid Paradigm”	ICT Academy	25.05.2020-29.05.2020
26	One day online Training on “ IEEE Xplore Digital Library”	Syed Ammal Engineering College, Ramanathapuram	02.06.2020
27	One day webinar on "Semicustom IC Design flow using cadence"	Saveetha Engineering College, Chennai	08.06.2020
28	One day webinar on “Recent Trends In Artificial Intelligence”	Sri Ramakrishna Institute of Technology, Coimbatore	16.06.2020
29	online live Webinar on “Medical Application Of Digital Image Processing Techniques”	Syed Ammal Engineering College, Ramanathapuram	17.06.2020
30	One day webinar on “Launching a Nanosatellite”	GMR Institute of Technology, Rajam, AP	18.06.2020
31	One day webinar on “Calculus: Orgin, Basic Concepts and Applications in Real Life”	Chennai Institute of Technology, Chennai	19.06.2020
32	Insightful Fridays of Skycampus Digital Knowledge Webinar Series	ICT Academy	19.06.2020
33	Online Training Program on “Recent Trends in Mobile Communication And future Opportunities”	Mohamed Sathak Engineeing College, Kilakarai	20.06.2020
34	One day Webinar on “Getting Started with Docker and Amazon Web Services Hands on Training”	Pallavi Engineering College, Nagole, Hyderabad	20.06.2020
35	Two day Webinar on “Tips to formulate Research Project Proposals and write Technical papers”	GMR Institute of Technology, Rajam, AP	21.06.2020 – 22.06.2020
36	One day webinar on “Recent Advancement in Manufacturing and Industry 4.0”	Meenakshi Sundararajan Engineering College, Chennai	22.06.2020
37	One Day Webinar on ”Cyber Security ”	Sri Venkateswara College of Engineering and Technology, Srikakulam	24.06.2020
38	IEEE Sponsored One day webinar on “Electronic Wastes- Emerging Threat to the Environment”	IEEE	26.06.2020

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39	Five Days Workshop on “The Growing Role of IOT in Latest Technological Trends”	School Of Information Technology , Vishwavidyalaya.	22.06.2020- 26.06.2020
40	Six Day Faculty Development Program on “Disruptive Technologies in Electronics & Communications”	Vidya Jyothi Institute of Technology ,Hyderabad	22.06.2020- 27.06.2020
41	One Week FDP on "Let's play Machine Learning with TensorFlow”	Kalasalingam University,Krishnankoil.	25.06.2020- 01.07.2020
42	IEEE Sponsored One day webinar on “Current Wireless Technology And An Awareness On Adverse Effects	Indra Ganesan College of Engineering, Trichirappalli	1.07.2020
43	One day National Webinar on “INDUSTRIAL IoT-4.0 and Advanced Technologies”	Sanketika Vidya Parishad Engineering College,Visakhapatnam	04.07.2020
44	One day International Webinar on “Signals And Measurements in Communications”	Easwari Engineering College,Chennai	04.07.2020
45	One day webinar on “Technologies Behind Social Media Advertising”	Syed Ammal Engineering College, Ramanathapuram	04.07.2020
46	Five days international online FDP on “Advancement In Communication Engineering Technologies With Simulation Tools”	Vishnu Institute of Technology , Bhimavarm , Andhra Pradesh	01.07.2020 – 05.07.2020
47	AICTE Sponsored Six Days Online Short Term Training Programme on “Digital Controllers for Power Electronics Applications”	Syed Ammal Engineering College, Ramanathapuram	13.07.2020 - 18.0.2020
48	One day International Webinar on “Convolutional Neural Network In Deep Learning”	Dhanalakshmi Srinivasan Engineering College, Perambalur	15.07.2020
49	One Day Webinar on “Demystifying 5G New Radio”	KPR Institute of Engineering and Technology, Coimbatore	15.07.2020
50	AICTE Sponsored Six Days Short Term Training Programme on “Soft Computing Techniques in Engineering Applications”	Syed Ammal Engineering College, Ramanathapuram	20.07.2020 – 25.07.2020
51	One Day Webinar on “Arduino Hardware And Programming”	Sethu Institute of Technology, Kariapatti	30.07.2020
52	One Week International Student Development Program on “ Learn	GMR Institute of Technology,Rajam, AP	07.09.2020- 15.09.2020

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	Python for a Bright Career”		
53	Online Webinar on titled “Recent Trends in Energy Storage”	SNS College of Technology, Coimbatore	18.11.2020
54	AICTE Sponsored Six Days Short Term Training Programme on “Potential Benefits of RFID in Industrial, Medical and Domestic Sectors” (phase- I)	Syed Ammal Engineering College, Ramanathapuram	23.11.2020 - 28.11.2020.
55	AICTE Sponsored Phase III Six Days Short Term Training Programme on “Machine Learning Approaches for Advanced Industrial Automation”	Hindustan Institute of Technolgy and Science - Chennai	04.01.2021- 09.01.2021
55	One day Webinar on “Awareness on NBA”	Syed Ammal Engineering College, Ramanathapuram	17.04.2021
56	One day online training on “Value of IEEE Publications in Research and Career Development”	Syed Ammal Engineering College, Ramanathapuram	23.04.2021
57	One day Webinar on “Applications of MATLAB”	Mohamed Sathak Engineering College, Kilakarai	27.04.2021
58	OnlineWebinar on “IEEE Xplore”	Syed Ammal Engineering College, Ramanathapuram	28.10.2021
59	Online Six-Days STTP on “Iot Technologies and Analytics”	College of Engineering, Anna University, Chennai	18.01.2022 – 24.01.2022
60	CSIR Sponsored Two-Day National Level Seminar on “Modern Techniues In Biosensors for Environmental and Clinical Analysis”	Siddharth Institute Of Engineering and Technology – Chittor District, A.P	18.02.2022 – 19.02.2022
61	CSIR Sponsored Five-Day National Level Workshop on “Revolutionizing Industrial Digital Transformation Through Connected Technologies”	Siddharth Institute Of Engineering and Technology – Chittor District, A.P	28.02.2022 – 04.03.2022
62	Naan Muthulvan Sponsored Five Days FDP program on “ Powering IoT using Arduino /Raspberry PI”	Thiyagarajar College of Engineering, Madurai	19.09.2022- 23.09.2022
63	Naan Muthulvan Sponsored One Day FDP program on “Cyber Security”	Infosys Campus, Chengalpatu	12.10.2022
64	Naan Muthulvan Sponsored Two Days FDP program on “Robotics Process Development”	Thiyagarajar College of Engineering, Madurai	11.02.2023- 12.02.2023
65	Webinar on “IEEE Explore – Overview”	Syed Ammal Engineering College, Ramanathapuram	04.04.2023

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66	Naan Muthulvan Sponsored Five Days FDP program on "Blockchain"	Thiyagarajar College of Engineering, Madurai	31.08.2023-04.08.2023
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Details of Seminars/Conferences organized.

- Coordinator of ISTE Mini-project TecExpo'13 on 16.03.2013
- Coordinator of ISTE Mini-project TecExpo'14 on 15.03.2014
- Coordinator of ISTE Mini-project TecExpo'15 on 14.03.2015
- Coordinator of ISTE Mini-project TecExpo'16 on 19.03.2016
- Coordinator of ISTE Mini-project TecExpo'17 on 11.03.2017
- Coordinator of ISTE Mini-project TecExpo'18 on 17.03.2018
- Coordinator of ISTE Mini-project TecExpo'19 on 23.03.2019
- Coordinator for "International Conference on Advances in Applied Engineering and Technology- ICAAET" on 14th – 16th May2020

INVITED TALK

1. Resource Person, handled a session on 15.03.2021 for One Day ISTE sponsored Hands On Training with Arduino Microcontroller.
2. Resource Person, handled a session on 20.08.2021 for One Day Webinar on Introduction on Embedded Systems.
3. Resource Person, handled a session on 04.05.2022 for One Day Hands On Training with Arduino Microcontroller.
4. Resource Person for Orientation Program on "NPTEL" on 07.09.2023 for I year MBA Students.
5. Resource Person for Orientation Program on "NPTEL" for I year MBA Students(16.09.2023-21.09.2022).

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Acted as a reviewer in the following international journals and conferences

1. Journal of Ambient Intelligence & Humanized Computing (Springer)

Patent 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	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

Membership/Fellowship in Professional bodies

Annual member – **IEEE**