

BIO DATA



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1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	ECE	S.Veerassamy Chettiar College of Engineering and Technology / Anna University, Chennai	2007
M.E	VLSI Design	Government College of Technology, Coimbatore / Anna University	2011
Ph.D	VLSI Design	Anna University, Chennai	2020

2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Associate Professor / ECE	Ramco Institute of Technology, Rajapalayam	10.08.2021	Till Now
2	Assistant Professor (SG) / ECE	Ramco Institute of Technology	01.06.2018	09.08.2021
3	Assistant Professor / ECE	Ramco Institute of Technology	03.12.2014	31.05.2018
4	Assistant Professor / ECE	S.Veerassamy Chettiar College of Engineering and Technology	15.9.2014	19.11.2014
5	Assistant Professor / ECE	Kalasalingam University	01.07.2011	05.11.2012

6	Teaching Fellow & Research Scholar	Government College of Technology	07.01.2013	12.9.2014
7	Lecturer / ECE	Lakshmi Ammal Polytechnic College	02.05.2008	04.05.2009
8	System Analyst	M.S Graphics and Designing	01.06.2007	30.04.2008

3. Research Interest: VLSI, Image Processing, Embedded System, Machine Learning

SI.NO.	Name of the Faculty member	Supervisor Number	University
1	Dr.A.Azhagu Jaisudhan Pazhani	4040056	Anna University, Chennai

4 Publications

4.1 JOURNAL PUBLICATIONS

(Scopus id: Scopus ID: 56971481500; SCIE / SCI / WOS: 13 SCOPUS: 18)

1. Rameshbabu A, A. Azhagu Jaisudhan Pazhani "Integrating Genetic Algorithm and Leverage the Slap Swarm Algorithm to Optimize the LSTM Model to Predict Cardiovascular Disease.", The Bioscan, Vol. 19, Issue No. 1, November 2024, (**Web of Science**)
2. Gunasekaran Perumalsamy, A. Azhagu Jaisudhan Pazhani, "Modified Artificial Bee Colony Optimization with SVM for Optimize the Selection and Classification of Heart Disease", The Bioscan, Vol. 19, Issue No. s.1.(1), December 2024, (**Web of Science**)
3. A. Azhagu Jaisudhan Pazhani, Efficient Computing System for Satellite Image Processing Processor, Informatica, Vol 49 No 15, March 2025(**Scopus - Journal**)
4. Azhagu Jaisudhan Pazhani, Gunasekaran Perumalsamy, A. Rameshbabu, Improved Memory Efficient Computing Unit DWT Architecture For Satellite Images, Informatica, Vol 49 No 14, March 2025(**Scopus - Journal**)
5. Manjula Devarakonda Venkata, Prashanth Donda, N Bindu Madhavi, Pavitar Parkash Singh, **A Azhagu Jaisudhan Pazhani**, Shaik Rehana Banu, "Personalized recognition system in online shopping by using deep learning", EAI Endorsed Transactions on Internet of Things" (**Scopus - Journal**)
6. A.Azhagu Jaisudhan Pazhani, "Investigation of post quantum cryptography to secure the functionality of vehicle hardware architecture", Lecture Notes in Networks and systems (**Scopus – Springer – Published online**)
7. Ravisankar A.; Singh R.; Sree Hari Raju S.; **Azhagu Jaisudhan Pazhani A.** AIML: The Approach of Optimization to Support the Company Organizing the Automated Business Technique, 2023 International Conference on New Frontiers in

Communication, Automation, Management and Security, ICCAMS 2023. (**Scopus - 27-28 October 2023**)

8. Rajakumar S.; William P.; Mabel Rose R.A.; Rajaretnam S.; **A Azhagu Jaisudhan Pazhani.**; Ahilan A, “An Effective Technique to Detect WIFI Unauthorized Access using Deep Belief Network” International Journal of Electrical and Computer Engineering Systems. (Scopus - 2024-02-23)
9. R. Narmadha, Pradeep Kumar Rangi, A. Azhagu Jaisudhan Pazhani, V. Prajval, “Analysis of the digital trends and IoT procedural scheme on traditional banking system” AIP Conf. Proc. 2821, 040031 (2023). (Scopus)
10. Srinivas Kolli, M Hasan, Bramah Hazela and A.Azhagu Jaisudhan Pazhani, “Secure the smart grid by machine learning”, International Conference on Computer Communication and Informatics (ICCCI), IEEE XPLORE (Scopus), 2023
11. KDV.Prasad, D.Pallanikumar, Dankan Gowda, Nazziya Hussain, **A.Azhagu Jaisudhan Pazhani** and Anil Kumar, “A Novel Method of Enhancing Security Solution and Energy Efficiency of IOT Protocols, International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169 Volume: 11 Issue: 4.2023 (**Scopus**)
12. A.Sharma, K.D.V.Prasad, Chakrasali, Chaturvedi.A. **A.Azhagu Jaisudhan Pazhani,**” Computer Vision based healthcare system for identification of diabetes & its types using AI”, Elsevier Measurement: Sensors, 2023, 27 100751. (**Scopus**)
13. **Azhagu Jaisudhan Pazhani.A** , P. Gunasekaran , Vimal Shanmuganathan , Sangsoon Lim, Kaliappan Madasamy, Rajesh Manoharan and Amit Verma , “Peer–Peer Communication Using Novel Slice Handover Algorithm for 5GWireless Network, “Journal of Sensor and Actuator Networks, 2022/11. (**ESCI –Web of Science**)
14. P.Gunasekarn, **A.Azhagu Jaisudhan Pazhani** and T.Ajith Bosco Raj, “ A Novel Method for Multiple Object Detection on Road Using Improved YOLOv2 Model”, Informatica (Slovenia), December 2022, 46(4), pp. 567-574 (**Scopus**)
15. Nallamilli P.G. Bhavani , Ganapathy Senthilkumar , Shahnazeer Chembalakkat Kunjumohamad , **Azhagu Jaisudhan Pazhani** , Ravi Kumar, Abolfazl Mehbodniya , Julian L. Webber “Real-Time Inspection in Detection Magnetic Flux Leakage by Deep Learning Integrated with Concentrating Non-Destructive Principle and Electromagnetic Induction”, **IEEE Instrumentation & Measurement Magazine** (Volume: 25, Issue: 7, October 2022)
16. Dankan Gowda VAvinash SharmaRajesh LMirzanur RahmanGhazaala YasminParismita SarmaA. **Azhagu Jaisudhan Pazhani,** “ A novel method of data compression using ROI for biomedical 2D images”, Elsevier Measurement: Sensors, September 2022. (**Scopus**)

17. M. Jamuna Rani and **A. Azhagu Jaisudhan Pazhani** “Computational efficient compression scheme for satellite images”, **Earth Science Informatics**, **September 2022. (SCIE)**.
18. Gurpreet Singh, Jothi Prabha Appadurai, Varatharaju Perumal, Kavitha K, Anil Kumar T. Ch., DVSSSV Prasad, **Azhagu Jaisudhan Pazhani A**, Umamaheswari Kandasamy, “Machine learning based modelling and predictive maintenance of turning operation under cooling / lubrication for manufacturing systems”, *Advances in Materials Science and Engineering*, August 2022. **(SCIE)**.
19. **A. Azhagu Jaisudhan Pazhani**, “Computation unit architecture for satellite image processing systems”, *Earth Science Informatics*, Volume 15, issue 1, March 2022 Page Number:185–195. **(SCIE)**.
20. **A.Azhagu Jaisudhan Pazhani & T.S.Arun samuel**, “High Speed and Area Efficient Modified Binary Divider” *Circuits, Systems and Signal Processing*, Volume 41, issue 6, June 2022 Page Number: 3350 –3371. **(SCIE)**.
21. **A. Azhagu Jaisudhan Pazhani & S. Periyanyagi**, “A novel haze removal computing architecture for remote sensing images using multi scale retinex technique” *Earth Science Informatics*, Volume 15, issue 2, June 2022 Page Number:1147 –1154. **(SCIE)**.
22. **A.Azhagu Jaisudhan Pazhani & Dr.C.Vasanthanayaki**, “Object detection in satellite images by faster R-CNN incorporated with enhanced ROI pooling (FrRNet-ERoI) framework” *Earth Science Informatics*, Volume 15, issue 1, March 2022 Page Number:185–195. **(SCIE)**.
23. Osamah Ibrahim Khalaf, Carlos Andres Tavera Romero, **A Azhagu Jaisudhan Pazhani** and G.Vinuja “VLSI Implementation of a High Performance Nonlinear Image Scaling Algorithm”, *Journal of Healthcare Engineering*, June Issue, Volume 2021, Article ID 6297856. **(SCIE). (International Collaboration Article)**
24. KS Dhanalakshmi, G Kumar Sai Reddy, M Vineesh Reddy, NB Sahul, K Sreenath, **A Azhagu Jaisudhan Pazhani**, “Development of Smart Stick for Visually Challenged People” *Annals of the Romanian Society for Cell Biology*, 2021. **(Scopus Indexed)**
25. Dr.S.Periyanyagi, **A.Azhagu jaisudhan Pazhani**, Dr.V.Sumathy, Enhanced humanoid assisted human interaction model based on linear structural modelling for knowledge representation, *Journal of Ambient Intelligence and Humanized Computing*, 11 (2020) 1868-5137. Impact Factor: 1.91, Publisher: **Springer**. 2020. **(SCIE)**.
26. G Nirmala, S Prabu, **A Azhagu Jaisudhan Pazhani & S Vairaprakash**, "Dimensionality Reduction Using Principal Component Analysis in Supervised Machine Learning Techniques", *Bioscience Biotechnology Research Communications* Volume 13, 2020 PP. 326-331. **(Web of Science)**
27. **A.Azhagu Jaisudhan Pazhani**, Mr.B.Kannan, Mr.P.Gunasekaran, Ms.J.Gayathri, Mr.R.ManjuPriya, “Smart Wearable Device for Employee Monitoring System using Green IOT”, *Journal of Green Engineering*, Alpha Publisher, ISSN No: 2245-4586, 10(9), Page No: 2245-4586,October 2020. **(Scopus)**
28. **Azhagu Jaisudhan Pazhani A**, Vasanthanayaki C, ”FPGA Implementation of Error Tolerant and Energy Efficient Convolutional Neural Network with Modified Flagged Binary Adder” *Tierarztliche Praxis*, ISSN: 0303-6286Vol 40, December 2020, Page No : 2350 – 2359.
29. K.S. Dhanalakshmi, **A.Azhagu Jaisudhan Pazhani** and R. Anusha Padmavathy, “Thermic Epidermic Tissue Surgical Generator Using Bipolar Electrode” in *ICT based Framework for Data Science and Machine Learning Applications*, *Innovations*

in Information and Communication Technology Series Page :068-073,Print ISBN:978-81-950008-6-9. (https://doi.org/10.46532/978-81-950008-7-6_006, Book Chapter)

30. **Azhagu Jaisudhan Pazhani A**, Vasanthanayaki C (2019), “Design and Implementation of Computationally Efficient Arithmetic Unit”, Journal of Electrical Engineering, Vol.No.19 PP-228-237. (**Scopus Indexed**)
31. **Azhagu Jaisudhan Pazhani A**, Vasanthanayaki C (2014),” Design of Multi Output Binary Adder using Modified Parallel Prefix Addition”, Advances in Natural and Applied Sciences, Vol.No.8, PP 10-16. (Scopus Indexed)
32. **Azhagu Jaisudhan Pazhani A**, Vasanthanayaki C (2015),” FPGA Implementation of Computationally Efficient Modified Parallel Prefix Adder”, Advances in Natural and Applied Sciences, Vol.No.10, PP 367-371. (**Scopus Indexed**)
33. **Azhagu Jaisudhan Pazhani A**, Renisha.V, Veeralakshmi.R, Vinitha.R, 2017, “FPGA Implementation of Fast Multiplier using Interlaced Partition Concept” SSRG International Journal of Electronics and Communication Engineering.
34. **Azhagu Jaisudhan Pazhani A**, Abirami A, Iashikha S V, Taj din Irfana J, 2017, “FPGA Implementation of Reconfigurable Error Tolerant Carry Look Ahead Adder (RET-CLA)”, SSRG International Journal of Electronics and Communication Engineering.
35. C. Vasanthanayaki, **A. Azhagu Jaisudhan Pazhani**, Jincy Johnson, “ VLSI Implementation of Low Power Multiple Single Input Change (MSIC) Test Pattern Generation for BIST Scheme”, 2014 Fifth International Symposium on Electronic System Design, IEEE XPLORE ,2015 (**Scopus Indexed**)

4.2 CONFERENCE PUBLICATIONS

1. Shakthi Sree MA, Rajalakshmi R , Dr.Azhagu Jaisudhan Pazhani, “ Intelligent Street Light System for Energy Saving ” International Conference on Science and Innovation Engineering, 2024.
2. Dr.A.Azhagu Jaisudhan Pazhani, “Design and Implementation of an Intelligent Street Light System for energy saving and security”, National conference on Emerging Trends in Engineering and Technology, Mangayarkarasi College of Engineering, Madurai. (26.04.2024)
3. Dr.Azhagu Jaisudhan Pazhani, Muges M , Namasivayam T ,“ Design of Efficient 4:2 Compressor Using Approximation Logic ” International Conference on Latest Trends in Science , Engineering and Technology(ICLTSET’23) , 2023.
4. Dr.A. Azhagu Jaisudhan Pazhani, Divya Shree R, Harini U (2023), ‘High Precision Multi-Bit Approximate Adders Using QCA’ 5th International Conference on “Emerging Trends In Engineering and Technology (ICETET-2023)”
5. Dr.A.Azhagu Jaisudhan Pazhani, “Implementation of FIR filter using configurable booth multiplier”, 2nd National Conference on Recent Trends in Engineering Science and Management, Kurinji College of Engineering and Technology. (09.06.2022)
6. A.Azhagu Jaisudhan Pazhani, R.Anitha Ram and N. Kohila Priya, “ Ground Water Level Identification and Its Impact on Rural Locations” Internation Conference on

Advancements on Management, Entrepreneurship, Sciences and Engineering, Coimbatore, 28th and 29th May 2022.

7. A.Azhagu Jaisudhan Pazhani, K.Mounica, S.SelvaDharshini presented a paper titled “Design of LoRAWAN based Smart Energy Meter” in the National e-Conference on “Recent Trends in Electronics, VLSI, Embedded System, Communication and Networking”, Dr.Sivanthi Adhitanar College of Engineering and Technology, 8th April 2021.
8. A.AzhaguJaisudhanPazhani, "Face Emotion Recognition using CNN”, National Conference on Signal Processing, Communication and Networking (NCSPCN-2020), Bannari Amman Institute of Technology, Coimbatore, 13th March 2020.
9. A.Azhagu Jaisudhan Pazhani, Ms.R.ManjuPriya, Ms.J.Gayathri and Ms.K.Sahithya presented a paper on “Smart Wearable devices for Employee Location Tracking and Attendance Monitoring System using IOT” in the International Conference on Smart Engineering Technologies (IWCSET-2020) organized by RIT on 26 June, 2020.
10. Azhagu Jaisudhan Pazhani.A, Akshaya Gomathi C, Joanna Karen W, Karpagavalli M and Meena L (2019), “Design of Low power and Area Efficient Computation Unit using Memorization Concept”, National Conference on Computer Science and Applications (NCCSA 2019), Ramco Institute of Technology, Rajapalayam.
11. Azhagu Jaisudhan Pazhani.A, Gyathri.N, Muthu Janani M G, and Naveena B, “Design of Area Efficient Approximate ACT Architecture for Image Compression”, National Conference on Computer Science and Applications (NCCSA 2019), Ramco Institute of Technology, Rajapalayam.
12. Azhagu Jaisudhan Pazhani.A, Logeswari.M, Mahalakshmi.P and Muthumeena.B (2019), “An Area Efficient VLSI Architecture for Binary Division”, National Conference on Innovations in Communication Technology for Social Development (ICTSD 2018), Ramco Institute of Technology, Rajapalayam.
13. Azhagu Jaisudhan Pazhani.A, Pushpavalli S, Rasmica T S, Sivaranjani S (2018), “VLSI Computational Architectures for the Arithmetic Cosine Transform”, National Conference on Innovations in Communication Technology for Social Development (ICTSD 2018), Ramco Institute of Technology, Rajapalayam.
14. Azhagu Jaisudhan Pazhani.A, Sangeetha.M, Sashi Sri Jeyam R and Suruthi K (2018), “High speed Error Tolerant Multiplier using Rounding Based Approximation”, International Conference on Engineering and Advancement in Technology, Sri Krishna College of Technology, Coimbatore.
15. Azhagu Jaisudhan Pazhani.A, “ Low Power Multiplier And Accumulator Using Radix 2 Booth Alorithm” in International Conference in Shri Sakthi Institute of Engineering and Technology, Coimbatore.
16. Azhagu Jaisudhan Pazhani.A “Area Efficient Adder With New Carry Generation Logic” in National Conference in National Engineering College, Kovilpatti.

4.3 Book/Book chapter publications

1. Kannan B, Azhagu Jaisudhan Pazhani A, Gunasekaran P and Rameshbabu A, “Smart Sensor System”, SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Accepted for publication.
2. Rameshbabu A, Azhagu Jaisudhan Pazhani A , Gunasekaran P and Kannan B, “ Design Of Portable Health Care Monitoring System Using Iot” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Accepted for publication

3. Gunasekaran P, Azhagu Jaisudhan Pazhani A, Rameshbabu A, Kannan B, “Role of wavelength Division Multiplexing in Optical Communication”, MOOCN, Scrivener Publishing – Accepted for publication.
4. Vijayakumar S, Azhagu Jaisudhan Pazhani, “Energy Harvesting Forms In Self-Powered Sensors And Energy Harvesting Solutions for Iot Devices” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Accepted for publication.
5. Sivakumar G, Azhagu Jaisudhan Pazhani and Marichamy P “Trends in Distributed Computing” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Accepted for publication.
6. Azhagu Jaisudhan Pazhani and Vinodh Kumar A, “AI-based ULP Microprocessors and Microcontrollers” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Accepted for publication.

5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1	Low Power and area efficient DCT algorithm for image processing application (2018)	FAER – McAfee Scholar Programme	6 Months	5000	Completed
2	Low Power and area efficient DCT algorithm for image processing application (2019)	FAER – McAfee Scholar Programme	6 Months	5000	Completed
3	Ground Water Level Identification and Its Impact on Rural Locations	TNSCST	6 Months	7500	Completed
4	Ground Water Level Identification and Its Impact on Rural Locations	TNSCST	6 Months	7500	Completed
5	IEEE Sponsored FDP on Advancements in photonics and optical Networks	IEEE Photonics Society	5 Days	1,00,000	Completed

6 Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status
1	P.Gunasekaran	Anna University	Physical Layer Algorithm For Improving Reliability And Spectral Efficiency In Wireless Communication	In progress

2	Thilagan S V	Anna University	Approximate Arithmetic Computing For Low Power Image Processing Architecture In Intelligent Satellites	In progress
3	Sheebha S N	Anna University	Ai- Based Parkinsons Disease Detection In Deep Learning Using Cnn Models	In progress
4	Ramalakshmi S	Anna University	Integration Of Hyperspectral Imaging And Machine Learning For Real - Time Plant Disease Detection And Precision Fertilization In Sustainable Agriculture	In progress

7 Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No.	Name of Programme/event	Duration		Total number of days
		From	To	
FDP				
1.	Introspection of Teaching Learning Process	23.12.2014 & 30.12.2014	-	1 day
2.	FDTP on Principles of Digital Signal Processing	03.06.2015	10.06.2015	7 days
3.	NI Lab View Software and Hardware	15.06.2015	19.06.2015	5 days
4.	FDP on Training the trainers	22.06.2015	23.06.2015	2 days
5.	Faculty development training program on VLSI Design	01.12.2015	08.12.2015	7 days
6.	FDP on Research Methodologies	18.11.2016	19.11.2016	2 days

7.	FDP on RF and Microwave Engineering	12.06.2017	16.06.2017	5 days
8.	AICTE sponsored FDP on Human Values and Professional Ethics	30.10.2017	12.11.2017	14 days
9.	Train the Trainers	28.05.2018	01.06.2018	5 days
10.	Electronic System Design and Manufacturing & Testing Using CADENCE OrCAD & OrCAD PCB & MITS PCB Prototyping Solutions	02.06.2018	07.06.2018	5 days
11.	Faculty Development Program on Signals and Systems	13.06.2018	18.06.2018	7 days
12.	Low Power VLSI Design	20.04.2020	24.04.2020	7 days
13.	Image and Embedded Processing	27.04.2020	01.05.2020	7 days
14.	STC on Neural Networks and CNN	14.04.2020	18.04.2020	7 days
15.	STC on Academic Leadership Enhancement in Technical Institutions	04.05.2020	08.05.2020	7 days
16.	ATAL FDP ON Electric Vehicles	02.11.2020	06.11.2020	5 days
17.	ATAL FDP on Wearable Devices	16.11.2020	20.11.2020	5 days
18.	C Programming course	06.01.2021	12.02.2021	1 Month
19.	ASIC Design For Driving Digital Innovations In Next Gen Platform	23.08.21	27.08.21	5 days
20.	Recent Trends in 5G Networks	26.12.2022	30.12.2022	5 days
21.	Analog and Digital Design Flow for SoC Design and Application	27.11.23	02.12.23	5 days
22.	Advancements in Photonics and Optical networks	19.02.24	23.02.24	5 days
23.	Faculty Development Program on Cutting-Edge AI for Autonomous Vehicles: Advanced Research and Innovations	09.12.2024	14.12.2024	5 days
24.	Essential Skills For Professional Development In Higher Education	1.07.2024	07.07.2024	7 days

25.	Recent Trends in VLSI Design Using Nanotechnology	25.11.2024	30.11.2024	5 days
Webinar				
26.	Tenth National Seminar on Research Issues in Digital Image Processing	18.03.2017	-	1 day
27.	Effective use of Learning Management system	09.05.2020		1 Day
28.	Emerging Trends and Solutions for Low Power VLSI Circuits	10.06.2020	-	1 hour
29.	Webinar on Digital Learning – Adopted by chance , Lets adopt by choice	09.05.2020	16.05.2020	1 hour
30.	Webinar on Introduction to Image quality measures	13.05.2020	-	1 hour
31.	Webinar on “Awareness on Pandemic Covid 19”	12.05.2020	-	1 hour
32.	What the Best College Teachers Do	29.05.2020	-	1 hour
33.	Emerging Trends and Solutions for Low Power VLSI Circuits	10.06.2020	-	1 hour
34.	Quality, Reliability and safety- An Overview	01.07.2020	-	1 hour
35.	Challenges in Image Quality Assessment Techniques	02.07.2020	-	1 hour
36.	Newage Job Opportunities in Core Companies and Building your Expertise	02.07.2020	-	1 hour
37.	Quit Your Comfort Zone and Hit your Target	08.07.2020	-	1 hour
38.	Contemporary Trends in Literature and Culture	14.07.2020	-	1 hour
39.	An Insight into Mobility	17.07.2020	-	1 hour
40.	Technological breakthrough in Measuring Human Pain using Pain Inducer	20.07.2020	-	1 hour
41.	Adapting yourselves in IT and Surviving with the Technology updates	21.07.2020	-	1 hour
42.	A Session on Accessing T & F Journals & Open Access Features	19.08.2020	-	1 hour
43.	From article to art: Creating visual abstracts	12.12.2022	-	1 hour 30 minutes

44.	Guide to reference managers: How to effectively manage your references	12.12.2022	-	1 hours
45.	How to enhance your chances of serendipitous research discovery	12.12.2022	-	10 Minutes
46.	Webinar on An Art of Writing Research Proposals for Various Funding Agencies	02.08.2024	-	1 Day
47.	Webinar on principles of outcome based education	04.01.2025	-	1 Day
Workshop				
48.	Arduino Workshop	04.12.2014	08.12.2014	5 days
49.	Awareness & Internal Auditor Training on ISO 9001:2015	18.12.2015	19.12.2015	2 day
50.	Workshop on Embedded Systems and its Applications	21.12.2015	22.12.2015	2 days
51.	Value added course on VLSI Design and Simulation	14.12.2015	18.12.2015	5 days
52.	One day Workshop on “Highly Effective Teaching & Learning Methodologies”	04.06.2016	-	1 day
53.	Workshop on “ Internet of Things”	20.08.2016	-	1 day
54.	Value added course on Project Based Learning using Arduino	09.12.2016	13.12.2016	5 days
55.	ISO Orientation Program	05.06.2017	06.06.2017	2 days
56.	Workshop on Recent trends in Biomedical Instrumentation and Assistive Technology	26.05.2021	28.05.2021	3 days
57.	From article to art: Creating visual abstracts	12.12.2022	-	1 hour 30 minutes
58.	Guide to reference managers: How to effectively manage your references	12.12.2022	-	1 hours
59.	How to enhance your chances of serendipitous research discovery	12.12.2022	-	10 Minutes
60.	Webinar on An Art of Writing Research Proposals for Various Funding Agencies	02.08.2024	-	1 Day
61.	Webinar on principles of outcome based education	04.01.2025	-	1 Day

7. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No.	Name of Programme/event	Duration		Total number of days
		From	To	
1.	Tech yuga – Paper Presentation	28.08.2015	29.08.2015	2 days
2.	Value added course on MATLAB	26.05.2015	30.05.2015	5 days
3.	Value added course on VLSI Design	14.12.2015	19.12.2015	5 days
4.	Tech yuga – Paper Presentation	28.08.2016	29.08.2016	1 day
5.	National Science day – Technical Quiz	28.02.2016	-	1 day
6.	Value added course on VLSI Design	14.12.2015	14.12.2015	5 days
7.	Guest Lecture on Internet of things	20.04.2016	-	1 day
8.	Tech yuga – Report Preparation and feedback Committee	19.08.2016	20.08.2016	2 days
9.	National Conference on Innovations in Engineering, Science and Technology- Session Incharge	24.03.2017	25.03.2017	2 days
10.	National Science day – Mini project Coordinator	28.02.2018	-	1 day
11.	Value added course on VLSI Design using Cadence Tool	2017-2018		1 day
12.	Value Added course on MATLAB	16.11.2018	20.11.2018	5 days
13.	National Conference on “Innovation in Communication Technology for social Development” - Session Incharge	23.03.2018	-	1 day
14.	National Science Day - Project Exhibition	28.02.2019	-	1 day
15.	Tech Yuga- TECH TALK (Paper Presentation)	31.08.2019	-	1 day
16.	Second National Conference on Innovations in Communication Technology for Social Development– “ICTSD-2018” Program Committee (Hall Arrangement & MOC)	23.03.2019	-	1 day
17.	Skill Development Programme	06.12.2020	-	1 day
18.	IOT with Arduino	14.05.2020	16.05.2020	3 days
19.	Quad-Copter	12.02.2020		2 days
20.	LabVIEW for Real Time applications	06.09.2019	07.09.2019	2 days
21.	TECHYUGA 19	31.08.2019	-	1 day
22.	National Science Day Celebration	28.02.2020	-	1 day

23.	2 nd Fide Rated Open Chess Tournament	30.11.2019	03.12.2019	2 days
24.	Webinar on Vippanan- case study	One day	-	1 day
25.	Workshop on Journal Paper Writing	10.02.2023	-	1 day
26.	Workshop on Role of NAAC in Enhancing Quality in Higher Education Institutions	16.12.2022	-	1 day
27.	Student Induction Program	10 days	-	10 Days
28.	EC8701 Antenna and microwave Engineering	20.06.22 to 25.06.22	-	6 Days
29.	Fresher's Day	26.11.2022	-	1 Day
30.	Graduation Day	22.10.2022	-	1 Day
31.	Placement Training	13.02.2023	17.02.2023	5 Days
32.	Faculty Orientation Program	30.04.2024	-	1 Day
33.	How I Landed A Succesfull Career	20.12.2025	-	1 Day
34.	ICSTEPS 2025	03.04.2025	04.04.2025	2 Days
35.	Three Days National Workshop on Printed Circuit Board Design & Analysis: from an Idea to Product	28.02.2025	-	1 Day

8. Online Courses

S. No.	Name of the Course	University	Academic year	Status
1.	MITx: 6.002.1x Circuits and Electronics 1: Basic Circuit Analysis	Massachusetts Institute of Technology, USA	2015-16 Even Semester	Completed
2.	MITx: 3.15.1x Electronic Materials and devices	Massachusetts Institute of Technology, USA	2016-17 Odd Semester	Completed
3.	MITx: 6.002.2x Circuits and Electronics 2: Amplification, Speed and Delay	Massachusetts Institute of Technology, USA	2016-17 Even Semester	Completed
4.	MITx – 18.01.1x Calculus 1A: Differentiation	Massachusetts Institute of Technology, USA	2017-18 Odd Semester	Completed
5.	MITx – 18.01.1x Calculus 1B: Integration	Massachusetts Institute of Technology, USA	2017-18 Even Semester	Completed
6.	MIT course on - 6.002.2x: Circuits and Electronics 3	Massachusetts Institute of Technology, USA	2018-19 Even Semester	Completed
7.	MITx - 18.031x - Introduction to Differential Equations	Massachusetts Institute of Technology, USA	2019-20 Odd Semester	Completed
8.	Coursera - Introduction to the Internet of Things and Embedded Systems	University of California, Irvine	2019-20 Even Semester	Completed
9.	Coursera -Vector	The Hong Kong	2019-20	Completed

	Calculus for Engineers	University of Science and Technology	Even Semester	
10.	Coursera -Introduction to Electronics	Georgia Institute of Technology	2019-20 Even Semester	Completed
11.	Introduction to IoT	Cisco Networking Academy	2022-2023 Odd Semester	Completed
12.	AI in Healthcare	Great Learning	2022-2023 Even Semester	Completed
13	Differential Equations Part I Basic Theory	Coursera	2023-2024 Even Semester	Completed
14	IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies	Coursera	2023-2024 Even Semester	Completed
15	Supporting IBM in Experimental project based Learning (Internet of Things, Applied Data Science, Data Analytics, Artificial Intelligence)	IBM	2024-2025 Even Semester	Completed
16	Introduction to cyber security	CISCO	2024-2025 Odd Semester	Completed

10. Patents filed/awarded: 3 Patent Filed and Published in Journal

11. Membership in Professional societies: ISTE, IAENG, IEEE, ACM

12. Awards, Recognition & Achievements

- Internal ISO 9001:2015 audit.
- Achieved 100% results in university examination
- Got Certificate of Merit in FAER McAfee Scholar Program 2018.
- Editorial Board Member in Springer SCIE Journal
- Reviewer in 40 SCIE and Scopus Journals

Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)

Sl.No.	Position held	Period	Activities carried out
1	Department Placement Coordinator	2015 – Till now	<ul style="list-style-type: none"> • Prepare, maintaining and updating the students data regarding placement, Made the necessary arrangement and also accompanied with the students for attending online aptitude test, helping the students for registered in particular websites and online courses, guiding and motivating the students for preparation in Quantitative aptitude, puzzles and technical aptitude . • Addressing the student about the company profile
2	E-Cell Coordinator	2016 – 2019	<ul style="list-style-type: none"> • Guiding and motivating the students to attend the workshop/ seminar regarding entrepreneurship development
3	VLSI Design Lab Incharge	2015 –Till now	<ul style="list-style-type: none"> • Laboratory Time Table preparation, Laboratory Manual Preparation, updating and

			maintaining the laboratory stock registers, monitoring laboratory cleanliness, purchase order preparation
4	Tessolve Semiconductor IC Testing Trainer	2019-2020	<ul style="list-style-type: none"> Provide industry related training to students during evening time and making the students to get opportunity in TESSOLVE SEMICODUCTOR
5	NBA - Criteria 3	2019 - 2020	<ul style="list-style-type: none"> Department Coordinator – Collecting all the data related to Criteria 3
6	ISO Internal Auditor	2019-2022	<ul style="list-style-type: none"> Auditing various departments at regular intervals
7	Value Added Course Incharge For IC Testing	2019- 2020	<ul style="list-style-type: none"> Preparing syllabus, time table and providing laboratory training to the students.
8	NAAC – Criteria 2 Department Incharge	2019 -2020	<ul style="list-style-type: none"> Collecting Department Data’s for NAAC Criteria 2
9	Class Committee Chairperson	2019-2020	<ul style="list-style-type: none"> Committee meetings were conducted at regular intervals and monitoring the students’ progress, performance and discipline
10	Academic Coordinator	From 01.10.2022	<ul style="list-style-type: none"> All Academic Process related activities of Ramco Institute of Technology

International Journal Reviewer Details:

- Reviewed more than 500 research papers as on 06.04.2026

Sl.No	Name of the Journal
1.	Springer – Circuits, Systems and Signal Processing (SCIE)
2.	Springer – Earth Science Informatics (SCIE)
3.	Analog Integrated Circuits and Signal Processing(SCIE)
4.	Journal of Neural Computing and Applications(SCIE)
5.	Blatic journal of modern computing(SCIE)
6.	Springer – Journal of Real Time Image Processing(SCIE)
7.	Springer – Sustainable Computing and Informatics(SCIE)
8.	International Journal of Communication Systems (SCIE)
9.	Estonian Journal of Earth Sciences (SCIE)
10.	Springer –Journal of Electrical Engineering and Technology (SCIE)
11.	Springer – Journal of Super Computing (SCIE)
12.	Springer – International Journal of Speech Technology (SCIE)
13.	Springer – Intelligent Service Robotics(SCIE)
14.	ELSEVIER – Bio Medical Signal Processing and Control(SCIE)
15.	Journal of Circuits, System and computers (SCIE)
16.	IET – Image Processing(SCIE)
17.	IET – Electronics Letters(SCIE)
18.	Springer – Wireless Networks(SCIE)
19.	Springer – EUROSHIP journal of signal processing(SCIE)
20.	IET – Circuit, Devices and Systems(SCIE)
21.	ELSEVIER – Informatics in Medicine Unlocked (SCOPUS)
22.	International Journal of Circuits, Systems and Signal Processing(SCOPUS)
23.	International Journal for Quality Research(SCOPUS)
24.	Advances in Science, Technology and Engineering Systems Journal (SCOPUS)
25.	International journal of Electrical and Computer Engineering System (SCOPUS)
26.	WSEAS Transactions (Scopus)

27.	Informatica (An International Journal of Computing and Informatics) (SCOPUS)
28.	International Association for Educators and Researchers (IAER) (SCOPUS)
29.	Advances in Distributed Computing and Artificial Intelligence Journal (SCOPUS)
30.	International journal of Electrical and Computer Engineering Systems(SCOPUS)

- Reviewed more than **150 Research Papers** in Springer **Journal Circuits, System and Signal Processing** (SCIE, Annexure I Journal)
- Reviewed **115 Research Papers** in **Bio Medical Signal Processing and Control**, Elsevier Journal(SCIE, Annexure I Journal)
- Reviewed **60 Research Papers** in **Wireless Networks**, Springer Journal (SCIE, Annexure I Journal)
- Reviewed **15 Research Papers** in **Intelligent Service Robotics**, Springer Journal (SCIE, Annexure I Journal)

International Editorial Board Member:

- Dr.A.Azhagu Jaisudhan Pazhani Selected Editorial Board Member in Earth Science Informatics, **Springer Journal**. (SCIE, Annexure I Journal)
- Dr.A.Azhagu Jaisudhan Pazhani Selected [Editorial Board](#) for Journal (s) of '[Lattice Science Publication \(LSP\)](#)' for the year 2021-22

International Program Committee Members:

1. Dr.A.Azhagu Jaisudhan Pazhani ASCP/ECE nominated as a **Program Committee Member** for the conference titled on 3rd International Conference on Signal Processing, VLSI Design & Communication Systems (SVC 2022), January 22-23, 2022, Zurich, **Switzerland**.
2. Dr.A.Azhagu Jaisudhan Pazhani ASCP/ECE nominated as a **Program Committee Member** for the conference titled on 8th International Conference on Signal and Image Processing (SIPRO 2022), to be held in March 26 ~ 27, 2022, Sydney, **Australia**. (Please check the below link: <https://ccsea2022.org/sipro/committee>)