

## CURRICULUM VITAE

**Dr.A.ADAIKALAM B.E.,M.E.,Ph.D.,**  
**Teaching Fellow**  
**Department of ECE**  
**UCE – BIT Campus, Tiruchirappalli 620 024**  
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➤ **Research Area:**

- Optical Network Communication
- Analog and Digital Communication
- Digital Image Processing

➤ **Educational Qualifications:**

<b>Qualification</b>	<b>College/University</b>	<b>Year of completion</b>	<b>Percent age</b>	<b>Class</b>
Ph.D. (Optical Network)	Anna University ,Chennai	December-2017	-	Highly Recommended
M.E(Communication Systems)	Anna University ,Chennai	June-2006	72%	First Class
B.E.,(ECE)	Madurai Kamaraj University	April-1998	52.80%	Second Class

**Experience:** (chronological order)

<b>Name of Company / Institutions</b>	<b>Designation of Post</b>	<b>From</b>	<b>To</b>	<b>Experience in Year</b>
University College of Engineering,(BIT campus),AU Tiruchirappalli.	Teaching Fellow	Sept 2010	Till Date	13 .0
ShanmugaNathan Engineering College,Pudukkottai.	Asst.Professor	July 2010	Sept 2010	0.3
Sudharsan Engineering College,Pudukkottai.	Asst.Professor	June 2008	June-2010	2.0
K.L.N.College of Information Technology, Madurai.	Sr.Lecturer	Dec 2006	June-2008	1.6

R.V.S College of Engg & Tech, Dindigul.	Lecturer	June 2006	Nov-2006	0.5
St.Michael College of Eng & Tech ,Sivagangai.	Lecturer	April 2004	May-2004	4.1
M/s. Integrity marine services pvt, ltd., Vashi, Navimumbai.	Technical Assistant	Feb 1999	March-2000	1.1

➤ **Awards / Honours Received:**

1. 100% Result in OIT552 Cloud Computing –Nov-Dec-2022
2. 100% Result in EC8094 Satellite Communication –April-May-2022
3. 100% Result in EC8071 Cognitive Radio-Nov-Dec-2021

➤ **Additional / Academic Responsibilities at University:**

1. TANCET- Department Member
2. NBA- Department Member
3. Government Examination –Department Member

➤ **Membership of Scientific and Professional Societies:**

**1.Life Time Member, *ISTE, INDIA***

➤ **Fellowships and Grants received:**

- Nil

➤ **Completed PG/UG Projects:**

- a. Number of PG Projects Completed: 2 Nos
- b. Number of UG Project Completed: 14 batches

➤ **Research Guidance (M.S/Ph.D.) (Completed):**

Sl. No	Name of the scholar	Title of the thesis	Year of registration	Date of viva voce
1.	Nil	Nil		

➤ **Research Guidance (M.S/Ph.D.) (Ongoing):**

Sl.	Name of the	Tentative Title of the thesis	Year of	Status
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No	scholar		registration	
1.	Nil			

➤ **Publications:**

**a. Books / book chapters:**

1. **C.Gomathi , A.Adaikalm and T.Kavitha** “Artificial Intelligence Based Garbage Monitoring System For Waste Management Using Integrated Sensors”, IOP Series in Next Generation Computing: **Human-Assisted Intelligent Computing Modeling, Simulations and Applications**, Version: 20230401, DOI 10.1088/978-0-7503-4801-0, April-2023. **(Scopus Index)**

2. T Kavitha, P Nagarajan, A Arulmary, A Adaikalam “Distributed Optical Fiber Sensing System for Leakage Detection in Underground Energy Storage Pipelines Using Machine-Learning Techniques: Materials for Sustainable Energy Storage at the Nanoscale, CRC Press,2023,pp.167-176

**b. International Journals:**

1. C.Gomathi and **A.Adaikalam** ‘Fuzzy Queue Based Switch Efficiency Measures for Optical Network`, Optical And Quantum Electronics, **Springer**-(ISSN 0306-8919), vol. 53, no.2, January-2021, pp. 74(1-19). **(Anna University : Annexure – I) and Impact Factor is 1.842.(Scopus Index)**
  
2. **A.Adaikalam**,S.Manikandan and V.Rajamani ‘Fuzzy Graph Based Shortest Path Ranking Method For Optical Network’, Optical And Quantum Electronics, **Springer**-(ISSN 0306-8919), vol. 49, no.9, September-2017, pp. 296(1-11). **(Anna University : Annexure – I) and Impact Factor is 1.055. (Scopus Index)**
  
3. **A.Adaikalam**,S.Manikandan and V.Rajamani‘A Comparative study of performance of fuzzy based PBMS with PBMS and vital scheduling Algorithm’, Optoelectronics And Advanced Materials – Rapid Communications (ISSN 1842-6573), vol. 10, no. 11-12, Nov.-Dec.2016, pp. 879-884.**(Anna University : Annexure – I) and Impact Factor is 0.412. (Scopus Index)**

4. R.Boopathirani and **A.Adaikalam**, ‘Novel Approach to mobile database dissemination for bandwidth and energy conservation’, “Engineering Today” vol.12, ISSN 0974-8377, pp.109-112, May 2010.

**c. National Journals:**

1. Nil

➤ **Patents:**

Nil

➤ **Sponsored Research Projects:**

Sl.No	Name of the project	Funding agency	Project value (Rs.)	Duration	Status
	<u>Nil</u>				

➤ **Consultancy Activities:**

Sl.No	Name of the work	Role (PI/Co PI)	Agency	Amount	Duration
	Nil				

➤ **List of Seminar / Short Term Course /FDP/ Workshop organized:**

- Worked as *Coordinator* of the *National Workshop on Analog and Digital Circuits Simulation using LABVIEW* organized by the Department of Electronics Communication Engineering, UCE, AU-(BIT CAMPUS), Triuchairappalli-620024, on 12th September, 2019.
- Worked as *Coordinator* of the First year UG 2020 Induction Programme On “EVERGREEN ECE” organized by the Department of Electronics Communication Engineering, UCE, AU-(BIT CAMPUS), Triuchairappalli-620024, from 11-11-2020 to 22-11-2020.

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended:**

1. Faculty Empowerment Programme on “Transmission Lines and RF Systems” at MIT Campus, Anna University, Chennai from 24-07-23 to 29-07-23.
2. Webinar on “Quantum Model for Consciousness and Neuro Realistic Intelligence” at Bharathi Vidpapeeth’s Institute of Computer Application and Management, (BVICAM),NewDelhi, on 02 July,2022.
3. Webinar on “ Artificial Intelligence (AI) and Media” at Bharathi Vidpapeeth’s Institute of Computer Application and Management, (BVICAM),NewDelhi, on 28 May,2022.
4. Webinar on “ e-Science & e-Research: Practices & potentials for Science & Research in Digital Age” at Bharathi Vidpapeeth’s Institute of Computer Application and Management, (BVICAM),NewDelhi, on 14 May,2022.
5. Webinar on “Applications of Specialty Optical Fibers” at Mount Zion College of Engineering and Technology,Pudukkottai, on 26<sup>th</sup> June,2020
6. Webinar on “Cellular Mobile Communication” at University College of Engineering (BIT Campus), Anna University, Tiruchirappalli, on 17<sup>th</sup> June, 2020.
7. Webinar on “Python Programming: A Practical Approach” at University College of Engineering (BIT Campus), Anna University, Tiruchirappalli, on 12<sup>th</sup> June, 2020.
8. Webinar on “ Opportunities in Medical Devices Development – Post Covid-19” at University College of Engineering, Anna University, Ariyalur , on 06<sup>th</sup> June, 2020.
9. MHRD Sponsored Two week workshop on “Comprehensive e-Learning to e-Training guide for Administrative Work” at Teaching Learning Centre, Ramanujan College,University of Delhi, From 25-05-2020 to 05-06-2020.

10. One Week Faculty Development Programming on “Python Programming with Industry Perspective” at Anna University, BIT Campus Tiruchirappalli- 620024, From 02-12-2019 to 06-12-2019.
11. Workshop on “Writing Science, Engineering and Technology in Tamil” at University College of Engineering (BIT Campus), Anna University, Tiruchirappalli, on 23<sup>rd</sup> October, 2019.
12. Workshop on “Analog Discovery Kit” at University College of Engineering (BIT Campus), Anna University, Tiruchirappalli, on 07<sup>th</sup> June, 2019.
13. TEQIP-II Sponsored Faculty Development Programme on “Recent Trends and Application of Mathematics in Computing” at Anna University, BIT Campus Tiruchirappalli-620024, From 08-06-2016 to 21-06-2016.
14. TEQIP-II Sponsored Faculty Development Programme on “Digital Communication (EC2301)” at Anna University, BIT Campus Tiruchirappalli- 620024, From 19-06-2015 to 25-06-2015.
15. TEQIP-II Sponsored Faculty Development Programme on “Paradigms of Computing (PC’13)” at Anna University, BIT Campus Tiruchirappalli- 620024, From 02-12-2013 to 08-12-2013.
16. AICTE Sponsored staff development programme on “Evolving Trends in optical communication Networks” at sudharsan Engineering College, Pudukkottai, from 08- 05-2013 to 21-05-2013.
17. Train The Trainers -2011 (TTT-2011) “Teaching methodologies” at Anna University of Technology, Tiruchirappalli, on 8<sup>th</sup> January-2011.
18. National level workshop on “Discrete Event Simulation For protocol Design in Wireless Networks at Anna University of Technology, Tiruchirappalli, on 22<sup>nd</sup> –December-2010.
19. Workshop on “Advanced Communication Skill” at Sudharsan Engineering College Pudukkottai, on May 14<sup>th</sup> to May 16 -2009.

20. STEP-1 Programme Empowerment Training & Staff at Sudharsan Engineering College, Pudukkottai, on 24<sup>th</sup> June - 2008.
21. National level seminar on Embedded System, at Dhanalakshmi Srinivasan Engineering College, Perambalur, on 01<sup>st</sup> March -2008.
22. Workshop on VLSI conducted by VI-MICROSYSTEMS PVT,Ltd., Chennai May 2007 at GRT regency, Madurai.
23. Microwave and optical communication EC434, at K.L.N College of Engineering Madurai, on 30<sup>th</sup> june & 01<sup>st</sup> july -2005.
24. Applications of DSP in wireless communication, at K.L.N. College of Engineering Madurai, on 10<sup>th</sup> & 11<sup>th</sup> February-2005.

➤ **National / International Conferences organized / Participated:**

1. **Presented** a paper in the **International Conference** on the title “A Massive MIMO Channel for OFDM Transceivers Using Window Technique”, 5<sup>th</sup> International Conference on Emerging Trends in Engineering and Technology (ICETET-2023) pp-147, 19-20-April,2023.
2. **Presented** a paper in the **National Conference** on the title “An Efficient method for vehicle plate identification and detection using optical character recognition”, **AICTE Sponsored National conference** on Innovations in computation and communication technologies, pp.192-195,2022.
2. **Presented** a paper in the **International conference** on the title “A comparative Performance of Different scheduling algorithms with FPBMS for optical network” International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Special Issue 1, Vol. 5,pp.30-38, January 2018.

3. **Presented** a paper in the **International Conference** on the title “A Modified Priority-Based Multi-scheduler (PBMS) for Optical Network” Artificial Intelligence and Evolutionary Algorithm in Engineering Systems 2014”, „Advances in Intelligent Systems and Computing 324, DOI 10.1007/978-81-322-2126-5\_70, vol.1,pp.657-665.© Springer India 2015. **(Scopus Index)**

4. **Presented** a paper in the **International Conference** on the title “Fuzzy and Assignment Method to support variable length of packet in Optical network using Priority based multi-Scheduling” Proceedings of International Conference on Recent Computing and Communication Technologies –2014” ISBN: 978-93-80657-27-1, vol.1,pp.821-827,November 2014. **(Scopus Index)**

5. **Presented** a paper in the **International Conference** on the title “Fuzzy and assignment method to support variable length of packet in priority based multi-scheduling for optical network”, IEEE Xplore Digital Library- IEEE CONFERENCE PUBLICATIONS-NOV 2014, Print ISBN:978-1-4799-7614,vol.1,pp.1-7,July 2014.

6. **Presented** a paper in the **International Conference** on the title “Novel approach to mobile database broadcast”IIST-2010(INTELLIGENT SCIENCE & TECHNOLOGY), vol.no.1, 18<sup>th</sup> & 19<sup>th</sup> March 2010.

7. **Presented** a paper in the **National Conference** on the title “Comparative analysis of indexing technologies of broadcast in mobile database broadcast”, National conference on advanced computing and networking, pp.93-98, 2010.

8. **Presented** a paper in the **National Conference** on the title “Throughput method for vector quantization in image compression”, National conference on recent trends in VLSI, signal processing, communication and embedded technology, 7<sup>th</sup> April 2007.

9. **Presented** a paper in the **National Conference** on the title “Wavelet transform based image compression implementation in FPGA”, National conference on Emerging trends in instrumentation and communication technologies,16<sup>th</sup> ,17<sup>th</sup> march 2006.

➤ **Professional recognitions:** (details like chairperson/member of a committee, reviewer, editor ...etc)

➤ **Reviewer:**

- International journal of electronics taylor & francis ltd England
- IET Signal Processing
- Journal of Optical Communications
- Optical and Quantum Electronics



**(A) Chairperson for conferences / Seminar / Technical symposia:**

1. Contribution as Judge for the event Paper Presentation on “ National level technical symposium-MICFA’19” organized by the Department of Electronics and Communication Engineering, UCE, AU-(BIT CAMPUS), Triuchairappalli-620024, on 26<sup>th</sup> and 27<sup>th</sup> September, 2019.

2. Contribution as Judge for the event Paper Presentation on “ TEQIP II Sponsored National Conference on Nascent Technologies in Signal Processing And Communications” organized by the Department of Electronics and Communication Engineering, UCE, AU-(BIT CAMPUS), Triuchairappalli-620024, on 01<sup>st</sup> and 02<sup>nd</sup> November, 2014.

**(B) Guest lectures delivered:**

1. Delivered lectures “Careers after Electronics & Communication Engineering”, in First Year Induction programme organized by the Department of Electronics and Communication Engineering, UCE, AU-(BIT CAMPUS), Triuchairappalli-620024, on 18, November, 2022.

2. Motivational lectures “Curriculum & Careers after Electronics & Communication Engineering”, in First Year Induction programme organized by the Department of Electronics and Communication Engineering, UCE, AU-(BIT CAMPUS), Triuchairappalli-620024, on 14, September, 2023.