Name	B. LATHA	
Department	ECE	
Qualification	B.E., M.E.,	
Area of Specialization	APPLIED ELECTRONICS	
Date of Joining (KSR IET)	01-06-2015	
Experience (as on 01.03.2023)	Teaching: 11Y 8M Industry: -	Others: -
Number of Papers Published	National Journals : - International Journals : 03	
Number of Papers Presented	National Conferences : 10 International Conferences : 04	
Books Published	National Publisher : - International publisher : -	
Contact Details	E Mail:blatha87@gmail.com Mobile: 9042369586	

PUBLICATIONS (International Journals)   - 3

1. "Border Alert System using Smart Boat to Safeguard the Fisherman", in International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRSCE), Vol. 4, Issue 4, 722-724, April, 2018.

2. "Active utilization of grey water in residential buildings using IOT", in International Journal of Creative Research Thoughts (IJCRT), Vol. 6, Issue 3, 131-138, April, 2018.

3. "Animal – Migration Algorithm to Solve Area Estimation in VLSI Floor Planning", in International Journal of Pure and Applied Mathematics – Special Edition, Vol. 118, Issue 24, 1-13, April, 2018.

PUBLICATIONS (National Journals)   **- NIL**

PUBLICATIONS (International Conferences) - 4

1. **"Wi-Fi Based Location Identification System", in Second International Conference on Advances in Management, Engineering and Technology, in RSP Conference Hub, Coimbatore, June 2022.**

2. **"Safe Rescue System for Borewell Accidents", International Conference on Challenges and Opportunities for Innovation in New Normal Scenario, organized by Department of ECE /K S R Institute for Engineering and Technology, 2021.**

3. **"Smart Automation of Fan and Light using Arduino Microcontroller", International Conference on Challenges and Opportunities for Innovation in New Normal Scenario, organized by Department of ECE /K S R Institute for Engineering and Technology, 2021.**

4. **"An ACO Approach to Maximize Lifetime of Heterogeneous WSN", International Conference on Emerging Trends in Engineering Technology, organized by Department of ECE /Nehru Institute of Engineering and Technology, 2015.**

PUBLICATIONS (National Conferences)   **- 10**

1. **"Smart Walking Stick for Visually Challenged People using Raspberry-Pi", National Conference on Challenges and Opportunities in Industry 4.0– COIN2020, organized by Department of ECE /K S R Institute for Engineering and Technology.**

2. **"Data and Voice Transmission Using Visible Light Communication", National Conference on Emerging Engineering and Technology 2019 (NCEET' 19), organized by Department of ECE /K S R Institute for Engineering and Technology.**

3. **"Digital Canary", National Conference on Recent Trends in Communication and Information Technology, organized by Department of ECE /Knowledge Institute of Technology.**

4. **"GSM Based Automatic Recharging for Welding Machine", National Conference on Advanced Signal Processing and Communication &Networking (NSPCN'17) organized by Department of ECE /PSNA College of Engineering & Technology.**

5. **"Automatic vehicle Accident Detection and Messaging system using GSM and GPS MODEM", National Conference on Recent Trends in Engineering and Technology,**

organized by Department of ECE /K S R Institute for Engineering and Technology.

6. "Image Compression Using Lossless Techniques", National Conference on Advanced Telecommunication Technologies, organized by Department of ECE, K.S.R. College of Engineering.

7. "Hop-by-Hop Adaptive Link State Optimal Routing Algorithm for Wireless Mesh Networks", National Conference on Frontiers in Communication and Signal Processing Systems, organized by Department of ECE, Adhiyamaan College of Engineering.

8. "Effective Image Enhancement in Medical Images using combination of DWT and SWT", National Conference on Electronics and Communication, organized by Department of ECE /Vivekanandha College of Technology for Women.

9. "Contour tracking and Extraction from Ultrasound images using Particle filtering", National Conference on Electronics and Communication, organized by Department of ECE /PSNA College of Engineering and Technology.

10. "Mobile theft control using RFID" National Conference on Electronics and Communication Engineering, organized by Department of ECE /Paavai College of Engineering.

PATENTS PUBLISHED:

S. No	Patent ID	Title of the Patent	Patent Level / National	Publication Date
1.	202211068063	Wearable Electronic Monitoring Devices for Baby Health	National	02nd December, 2022
2.	202241040512	IoT and UAV-based Environmental Monitoring System	National	22th July, 2022
3.	202041032225	A System and Method of Pesticides Detection in Fruits and Vegetables	National	21st August, 2020

FUNDED RESEARCH PROJECTS

S. No	Title of the Project	Name of the Funding Agency	Amount Sanctioned (Rs.)	Role
1.	STTP On "Internet Of Medical Things (Iomt) : Trends, Perspectives And Prospects Of Machine Learning For Biomedical Applications"	AICTE	Submitted	Co Coordinator
2.	FDTP on "EC6602 – Antenna And Wave Propagation"	ANNA UNIVERSITY	Sanctioned (Self – Supported)	Co Coordinator
3.	Smart Ideas using VSLI Architecture for Healthcare Applications under Resource Constrained Environment	ICMR	Submitted & Not Approved	Co Coordinator

ONLINE CERTIFICATION

S. No.	Course	Conducted by	Date	Grade
1.	Accreditation and Outcome Based Education	NPTEL & SWAYAM	JUL to OCT - 2022	Silver + Elite
2.	Digital Circuits	NPTEL & SWAYAM	JUL to OCT - 2021	Topper in 5% + Silver + Elite
3.	Deep Learning	NPTEL & SWAYAM	SEP to DEC – 2020	Elite Grade
3.	Digital Image Processing	NPTEL & SWAYAM	JULY to OCT – 2019	Topper in 2% + Silver + Elite
4.	Discrete Time Signal Processing	NPTEL & SWAYAM	JUL to OCT - 2018	Topper in 5% + Elite & Mentor Certificate

5.	Digital Speech Processing	NPTEL	JUL - OCT 2017	**Elite Grade**

PROGRAMMES ATTENDED (Seminar/ Workshop/ FDP / STTP others)

S. No	Name of the Programme	Place	Date
1.	FDP on "Applications of Computer Vision using Deep Learning"	SeshadriRao Gudlavalleru Engineering College	20.02.2023 – 25.02.2023
2.	Workshop on "Medical Signal Processing with Artificial Intelligence"	Thiagarajar College of Engineering	17.12.2022 – 18.12.2022
3.	FDP on "Recent Trends in Image Processing and its Applications"	Velammal Institute of Technology	21.09.2022 – 27.09.2022
4.	Workshop on "Designing and Modeling of IoT, AI & ML Systems"	All India Council for Technical Education(AICTE0, ATAL Academy	01.08.2022 – 05.08.2022
5.	FDP on "Research Opportunities in Emerging Areas of Electronics and Communication Engineering"	KPR College of Engineering and Technology	18.07.2022 – 22.07.2022
6.	FDP on "Recent Advancements and Applications in Data Science"	Paavai Engineering College	27.06.2022 – 02.07.2022
7.	FDP on "Microsoft Azure AI Engineer Associate"	Kongu Engineering College	23.05.2022 – 27.05.2022
8.	FDP on "Machine Learning for Signal Processing – A Practical Approach"	KGiSL Institute of Technology	21.02.2022 – 25.02.2022
9.	ATAL FDP on "Object Identification and Image Intelligence a Practical Approach"	Women's Polytechnic	25-10-2021 –29-10-2021
10.	ATAL FDP on "Speech, Audio and Image Processing using Deep Learning Techniques: Research issues, Innovation and Applications"	University College of Engineering	18-10-2021 –22-10-2021
11.	ATAL Online FDP on "Electrical and Computer Engineering"	Mahendra Engineering College Autonomous	22-02-2021 –26-02-2021
12.	A Hands-on Workshop on "Deep Learning Algorithms and its Framework"	Sona College of Technology	23-11-2020 –27-11-2020
13.	ATAL FDP on "Medical Image Processing and Deep Learning Technologies"	Panimalar Institute of Technology	21-09-2020 –25-09-2020
14.	PALS VIRTUAL LAB	PALS	14-09-2020 –18-09-2020
15.	Research Issues and Challenges in Deep Learning based Medical Image Analysis and Medical Diagnosis	Sri Ramakrishna Engineering College	17-08-2020 - 22-08-2020

16.	FDP on "Exploring the Nuances of Deep Learning for Research Applications - A Deeper Experience"	Karunya Deemed University	13-07-2020 –17-07-2020
17.	FDP on "Image Processing and Computer Vision"	Anil Neerukonda Institute of Technology & Sciences	29-05-2020 –31-05-2020
18.	FDP on "Machine Learning and Deep Learning"	SRM Institute of Science and Technology	27-05-2020 –31-05-2020
19.	Blooms Taxonomy - Higher Order Thinking Skills in ECE - "Digital Electronics"	Saveetha Engineering College	25-05-2020 –29-05-2020
20.	Automation in Cyber Security	Mahendra Engineering College	23-05-2020
21.	Sky Campus Digital Knowledge Series - Future Tech 2020	ICT Academy	18-05-2020 –22-05-2020
22.	Machine Learning	Guru Nanak College, Chennai	20-05-2020
23.	The Future of Skills - Education, Employment & Entrepreneurship	ICT Academy	11-05-2020 –15-05-2020
24.	Good Teacher to Great Teacher	ICT Academy	14-05-2020
25.	How to write a Research Proposal? How to convert a Project to Patent?	Excel Engineering College	04-05-2020 –05-05-2020
26.	Sky Campus Digital Knowledge Series – "The Future is Here Now"	ICT Academy	27-04-2020 –01-05-2020
27.	Instructional and Assessment Characteristics of OBE Framework and Hands on Practices for Designing and Mapping Outcomes	K S R Institute for Engineering and Technology	19-11-2019 –21-11-2019
28.	FDP on "Fostering Ethics, Moral and Human Values in Technical Education"	Nandha Engineering College	24-06-2019 –07-07-2019
29.	FDP on "Digital Signal Processing"	PSG Institute of Technology and Applied Research	07-06-2019 –08-06-2019
30.	MATLAB ONRAMP	Department of ECE, K S R Institute for Engineering and Technology	22-02-2019

31.	Problem Based Learning	NITTTR, Kolkata	11-02-2019 –15-02-2019
32.	One Day Seminar on "Cyber Security & Ethical Hacking"	K S R Institute for Engineering and Technology	05.01.2019
33.	One Day National Level Workshop on "Writing Successful Proposal to Funding Agencies"	K S R Institute for Engineering and Technology	31.08.2018
34.	Two days Faculty Development Program on "Emotional Intelligence"	K.S.Rangasamy College of Arts and Science	17.08.2017 & 18.08.2017
35.	Seminar on "Research Methodology"	K S R Institute for Engineering and Technology	05.08.2017
36.	Faculty Development Programme on "Medical Informatics Extraction Using Soft Computing Techniques"	IEEE Madras Section at Dept of ECE, KIOT	21.10.16 & 22.10.16
37.	One day Workshop On Medical Image Processing	Department of ECE/ Anna University Regional Centre	09.09.16
38.	Two Days Workshop on "Optimization Techniques for Engineering Applications"	Department of EEE, Kongu Engineering College	29.01.16 & 30.01.16
39.	Faculty Development Program on "Mobile Application Development"	Department of IT/ K S R Institute for Engineering & Technology	19.12.15
40.	Value Added Course on "Project Based Learning Using MATLAB"	ECE Dept./ K S R Institute for Engineering and Technology	03.07.15 to 07.07.15
41.	Three days Workshop on "MATLAB / SIMULINK for Communication Engineers"	Vivekanandha College of Technology for Women	27.01.2014 to 29.01.2014
42.	Two Days Workshop on "VLSI/ASIC Based Design Flow with EDA Tools"	Vivekanandha College of Engineering for Women	18.05.2012 & 19.05.2012
43.	Faculty Development Programme on "Academic Excellence"	Vivekanandha Institute for Engineering and Technology for Women	15.08.2011
44.	Two Days Workshop on "Research Challenges in Image Processing"	IEEE Students Forum, CIT & Industry Institute Partnership Cell	04.02.2011 & 05.02.2011

PROGRAMMES ORGANIZED (Seminar/Conference/Workshop/FDP/STTP/Other)

S. No.	Name of the Programme	Type of Programme	Date
1.	Internet of things using Raspberry Pi	Workshop	07.02.18 & 09.02.18
2.	Signal and Image Processing using MATLAB	Workshop	03.02.18
3.	Anna University sponsored FDTP on "EC6602 – Antenna and Wave Propagation"	Faculty Development Training Program	27.11.17 to 03.12.17
4.	EC6502 - Principles of Digital Signal Processing	Two Days Faculty Development Program	15.06.17 & 16.06.17
5.	Application of MATLAB for Signal Communication & Image Processing	Workshop	17.02.17

GUEST LECTURES DELIVERED

S. No	Title of the Programme	Place	Date
1	Faculty Development Training Programme on "EE6403 – Discrete Time Signal Processing"	Vivekanandha Institute for Engineering and Technology for Women	18.12.2014 to 24.12.2014

AWARDS WON

S. No	Name of the Award	Academic Year
1.	Dr.Radhakrishnan's Teacher Award	2022-2023
2.	Best Performance Award for producing 100% result in the Subject "VLSI Design".	2012-2013
3.	Best Performance Award for producing 100% result in the Subject "Principles of Communication".	2011-2012