

<b>Name</b>	<b>B. LATHA</b>		
<b>Department</b>	<b>ECE</b>		
<b>Qualification</b>	<b>B.E., M.E.,</b>		
<b>Area of Specialization</b>	<b>APPLIED ELECTRONICS</b>		
<b>Date of Joining (KSR IET)</b>	<b>01-06-2015</b>		
<b>Experience (as on 01.01.2018)</b>	<b>Teaching: 8Y 10M</b>	<b>Industry: -</b>	<b>Others: -</b>
<b>Number of Papers Published</b>	<b>National Journals : -</b>		<b>International Journals : 03</b>
<b>Number of Papers Presented</b>	<b>National Conferences : 09</b>		<b>International Conferences : 01</b>
<b>Books Published</b>	<b>National Publisher : -</b>		<b>International publisher : -</b>
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**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) - 1**

1. “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.

**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" - COIN-2020**, organized by 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 Dept of EEE / Vignana Bharathi Institute of 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.

### FUNDED RESEARCH PROJECTS

S. No	Title of the Project	Name of the Funding Agency	Amount Sanctioned (Rs.)	Role
1.	FDP on “Artificial Intelligence”	ATAL - AICTE	Submitted	Co Coordinator
2.	STTP On “Internet Of Medical Things (IoMT) : Trends, Perspectives And Prospects Of Machine Learning For Biomedical Applications”	AICTE	Submitted	Co Coordinator
3.	FDTP on “EC6602 – Antenna And Wave Propagation”	ANNA UNIVERSITY	Sanctioned (Self – Supported)	Co Coordinator
4.	Smart Ideas using VSLI Architecture for Healthcare Applications under Resource Constrained Environment	ICMR	Submitted	Co Coordinator

### ONLINE CERTIFICATION

S. No.	Course	Conducted by	Date	Grade
1.	Digital Image processing	NPTEL & SWAYAM	JUL to OCT -	<b>Topper in 2%</b>

			2019	<b>of this Course</b>
2.	Discrete Time Signal Processing	NPTEL & SWAYAM	JUL to OCT - 2018	<b>Topper in 5% of this Course &amp; Mentor Certificate</b>
3.	Digital Speech Processing	NPTEL	JUL - OCT 2017	<b>Elite Grade</b>

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

<b>S. No</b>	<b>Name of the Programme</b>	<b>Place</b>	<b>Date</b>
1.	Three days Online FDP on “Image Processing and Computer Vision”	Anil Neerukonda Institute of Technology and Sciences	29.05.20 – 31.05.20
2.	Online FDP on “Machine Learning and Deep Learning”	SRM Institute of Science and Technology	27.05.20 – 31.05.20
3.	Online STTP on BLOOM’S Taxonomy – Higher Order Thinking Skills – DIGITAL ELECTRONICS	Saveetha Engineering College	25.05.20 – 29.05.20
4.	Online STTP on BLOOM’S Taxonomy – Higher Order Thinking Skills – ELECTRONIC DEVICES	Saveetha Engineering College	18.05.20 – 22.05.20
5.	Workshop on “Instructional and Assessment Characteristics of OBE Framework and Hands on Practices for Designing and Mapping Outcomes”	K S R Institute for Engineering and Technology	19.11.19 – 21.11.19
6.	Seminar on “Publishing Articles in SCI-Indexed Journals and Filing IPR”	Research and Development Cell & Dept of Library, KSR Institute for Engineering and Technology	25.07.19 & 26.07.19
7.	2 weeks FDP on “Fostering Ethics, Moral and Human Values in Technical Education”	AICTE Sponsored, & Coordinated by Dept of MBA, Nandha Engineering College	24.06.19 to 07.07.19
8.	Two days FDP on “Digital Signal Processing”	Dept. of ECE, PSG Institute of Technology and Applied Research & STEPS Knowledge Services	07.06.19 & 08.06.19

9.	One Day Workshop on “Applications of MATLAB in Image Processing”	Department of ECE / K S R Institute for Engineering and Technology	22.02.2019
10.	STTP on “Problem Based Learning”	NITTTTR, Kolkata & Coordinated by K.S.R. College of Engineering	11.02.19 to 15.02.19
11.	One Day Seminar on “Cyber Security & Ethical Hacking”	K.S.R. Institute for Engineering and Technology	05.01.2019
12.	One Day National Level Workshop on “Writing Successful Proposal to Funding Agencies”	K.S.R. Institute for Engineering and Technology	31.08.2018
13.	Two days Faculty Development Program on “Emotional Intelligence”	K.S.Rangasamy College of Arts and Science	17.08.2017 & 18.08.2017
14.	Seminar on “Research Methodology”	K.S.R. Institute for Engineering and Technology	05.08.2017
15.	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
16.	One day Workshop On Medical Image Processing	Department of ECE/ Anna University Regional Centre, Coimbatore	09.09.16
17.	Two Days Workshop on “Optimization Techniques for Engineering Applications”	Department of EEE, Kongu Engineering College, Erode	29.01.16 & 30.01.16
18.	Faculty Development Program on “Mobile Application Development”	Department of IT/ K S R Institute for Engineering & Technology Tiruchengode	19.12.15
19.	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
20.	Three days Workshop on “MATLAB / SIMULINK for Communication Engineers”	Vivekanandha College of Technology for Women	27.01.2014 to 29.01.2014
21.	Two Days Workshop on “VLSI/ASIC Based Design Flow with EDA Tools”	Vivekanandha College of Engineering for Women	18.05.2012 & 19.05.2012
22.	Faculty Development Programme on “Academic Excellence”	Vivekanandha Institute for Engineering and Technology for Women	15.08.2011
23.	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.	MATLAB ONRAMP	Workshop	07.09.19
2.	Programming for Raspberry Pi Project using Python	Workshop	07.02.18 & 09.02.18
3.	Signal and Image Processing using MATLAB	Workshop	03.02.18
4.	Anna University sponsored FDTP on “EC6602 – Antenna and Wave Propagation”	Faculty Development Training Program	27.11.17 to 03.12.17
5.	EC6502 - Principles of Digital Signal Processing	Two Days Faculty Development Program	15.06.17 & 16.06.17
6.	Application of MATLAB for Signal Communication & Image Processing	Workshop	17.02.17

### AS RESOURCE PERSON

S. No	Title of the Programme	Place	Date
1.	Kaleidoscope - Academic Fair as Jury	Seshaas International Public School, Salem	17.08.2019
2.	Faculty Development Training Programme on “EE6403 – Discrete Time Signal Processing” as Resource person	Vivekanandha Institute for Engineering and Technology for Women	18.12.2014 to 24.12.2014

### MEMBERSHIP IN PROFESSIONAL BODIES

- MEMBER IEEE

### AWARDS WON

S. No	Name of the Award	Academic Year
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1.	Best Performance Award for producing 100% result in the Subject "VLSI Design".	2012-2013
2.	Best Performance Award for producing 100% result in the Subject "Principles of Communication".	2011-2012
3.	Best Outgoing Student of the School during Higher Secondary.	2004-2005
4.	Secured District Third in Biology during 10 <sup>th</sup> Standard Board Exam.	2002-2003