

## Faculty Profile

A1	Personal Details	
Dr. N. Santhiyakumari, BE, M.Tech.,Ph.D.,		
Professor & Head of ECE		
Department of Electronics and Communication Engineering		
Knowledge Institute of Technology, Salem - 637 504. India.		
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A2	Areas of Specialization	Bio Medical Image Processing
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A3	Subjects Taught	
	UG	PG
	Digital Image Processing	Neural Networks and its Applications
	Wireless Communication	High Performance Communication Networks
	Signals and Systems	Digital Image Processing
	Communication Theory	Data Communication and Networks
	Computer Networks	Digital Imaging
	High Speed Networks	Machine Learning Techniques
	Telecommunication Switching & Networks	
	Data Communication	
	Transducer Engineering	

A4	Academic Background			
Degree	Specialization	Name of the Institute	University	Month and Year of Passing
Ph.D.	Bio-Medical Image Processing	K.S.Ransamy College of Technology,Tiruchengode	Anna University	Dec, 2008
M.Tech	Advance Communication Systems	SASTRA, Thanjavore	SASTRA University	Dec, 2002

B.E.	Electronics & Communication Engg	Govt College of Engg, Salem	Madras University	May, 1997
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A5	Work Experience as on November 2020						
Name of the Institution		Position		From		To	
Knowledge Institute of Technology		Professor & Head		03.05.2010		Present	
K.S.Rangasamy College of Technology		Professor		01.07.2008		30.04.2010	
K.S.Rangasamy College of Technology		Assistant Professor		10.07.2004		30.06.2008	
K.S.Rangasamy College of Technology		Senior Lecturer		01.07.2003		30.06.2004	
K.S.Rangasamy College of Technology		Lecturer		02.06.1997		30.06.2003	
<b>Total Experience</b>		25 Years 2 Months		<b>Teaching</b>		25 Years 2 Months	
				<b>Research</b>		18 Years 2 Months	
				<b>Admini</b>		<b>stration</b>	
						12 Years 2 Months	

A6	Research Publications				
Total Number of Publications	International Journal	National Journal	International Conference	National Conference	Total
	46	01	50	50	147
Indexing Details					
	SCI/ SCIE	SCOPUS/ WoS	Google Scholar	H index	
	7	32	28	7	
<div>1. Google Scholar profile : <a href="https://scholar.google.co.in/citations?hl=en&amp;user=VU4kn0QAAAAJ&amp;scilu=&amp;scisig=AMD79ooAA AAAXHS-nEbpzxzAJVSGnlHGugFRKzB2viU&amp;gmla=AJsN F46r64xBwhE86aw PIB4_chYmuSi941d9Z7ncGMfqOC8RHRO_H_HIR7WKLt4MswavtbzU5Y7Jq4ByWEp0oLtG JozrHCIZcJC4XBld7u18x4B8ByNnKQ&amp;sciund=6659220710334542560">https://scholar.google.co.in/citations?hl=en&amp;user=VU4kn0QAAAAJ&amp;scilu=&amp;scisig=AMD79ooAA AAAXHS-nEbpzxzAJVSGnlHGugFRKzB2viU&amp;gmla=AJsN F46r64xBwhE86aw PIB4_chYmuSi941d9Z7ncGMfqOC8RHRO_H_HIR7WKLt4MswavtbzU5Y7Jq4ByWEp0oLtG JozrHCIZcJC4XBld7u18x4B8ByNnKQ&amp;sciund=6659220710334542560</a></div> <div>2. SSRN : <a href="https://hq.ssrn.com/Participant.cfm?rectype=edit&amp;partid=3391163&amp;perinf=y">https://hq.ssrn.com/Participant.cfm?rectype=edit&amp;partid=3391163&amp;perinf=y</a></div> <div>3. Research Gate Profile : <a href="https://www.researchgate.net/profile/Santhiya_Kumari2">https://www.researchgate.net/profile/Santhiya_Kumari2</a></div>					
Recent Publications (Conferences)					

SCOPUS	WOS	GOOGLE SCHOLAR
13	5	36

A7	Memberships in Professional Bodies
S.No.	Name of the Professional Body
1	Institute of Electrical and Electronics Engineers (IEEE) - <b>90550815</b>
2	Indian Society for Technical Education (ISTE) - <b>LM42849</b>
3	Institution of Electronics and Telecommunication Engineers (IETE)- <b>M-217687</b>
4	The Institution of Engineers (India) IE(I) - <b>F-1202762</b>

A8	Programs Organised
1	As a <b>Technical Club Coordinator</b> of ECE conducted <b>Various Events and Value added</b> courses for the students to enhance their knowledge in industry verticals from <b>May 2011 to till date</b>
2	As a <b>IEEE Student Branch Counsellor</b> of KIOT organised Various activities from <b>June 2011 to till date</b> , <b>IEEE CBE Hub Congress</b> Conducted @ KIOT
3	As a <b>Women Empowerment Cell</b> Coordinator of KIOT organised programs for lady community of KIOT from <b>2010 to till date</b>
4	As a <b>INTEC (Association) Coordinator</b> conducted Technical/Nontechnical programs for ECE students and National level Conferences and Symposium, MAP EXPO/FAA/Tech Talk etc., from the Inception of the department (2010)
5	As a <b>HRD Cell Coordinator</b> conducted programs from <b>2010 to 2018</b> for faculty of KIOT
6	As a <b>College Cultural Events coordinator</b> conducted different events for all annual days of KIOT

A9	Highlights of Major Contributions
1	Coordinated and organizing 5 Day <b>AICTE Sponsored ATAL FDP on “Data Analytics in Smart Healthcare”</b> in December 2021
2	As a coordinator going to organize <b>the AICTE Sponsored Faculty Development Program on “Internet of Things, Principles, Paradigms and applications”</b> in Feb 2021
3	Coordinated and organizing <b>the AICTE Sponsored STTP on “Application of Artificial Intelligence Techniques in overcoming the challenges of Healthcare Industry”</b> in 2020 -2021
4	As a <b>HOD and Supervisor</b> : Department of ECE is Recognized as an <b>Anna University research centre</b> in 2016

5	As a Supervisor for project title " <b>Hearing Aid through teeth Nerves</b> " Won II Prize in the <b>MSME &amp; ISTE National level Project Contest (2015)</b> and <b>Approved for MSME funding (2016)</b> of Rs.6.5 Lakhs from MSME, IISC COE, Bangalore
6	Acted as <b>NBA and NAAC</b> Coordinator from June 2009 to till Date
7	Coordinated and organized the <b>AICTE Sponsored Faculty Development Program</b> on " <b>Advances in Medical imaging using Computational Intelligence</b> " in <b>August 2013</b>
8	Coordinated and organized the <b>AICTE Sponsored Seminar on "Intellectual Key For Engineering Appliances Using Embedded Systems"</b> on ' <b>Advances in Medical imaging using Computational Intelligence</b> ' in <b>Oct 2013</b> .
9	Completed <b>AICTE sponsored Research Promotion Scheme</b> under the title of " <b>Implementation of Medical Decision Making System for Cardiovascular and Cerebrovascular Disease Analysis</b> " as a <b>Principal Investigator</b> from <b>May 2013 to May 2016</b>
10	As a <b>Board of Studies Member</b> for Faculty of Information and Communication Engineering, <b>Anna University, Chennai for Regulation 2013</b>
	As a <b>head for Knowledge Business Incubator : KIOT</b> is Recognized as <b>Business Incubator (BI) / Host institute (HI)</b> for implementation of the scheme " <b>Support for Entrepreneurial and Managerial Development of SMEs</b> " through Incubator in the year <b>2016</b> with an approval of <b>Rs.66.5 lakhs</b> for <b>10</b> ideas for the duration of <b>4 Years</b>

<b>A10</b>	<b>Training Programmes Attended</b>
1	Five day online workshop on Universal Human Value on the theme " <b>Inculcating Universal Human Values in Technical Education</b> "
2	Webinar on " <b>AICTE Exam Reforms</b> " Organized by Knowledge Institute of Technology,Salem from 14.05.2020 to 18.05.2020
3	ATAL Incubation Centre and Pondicherry Engineering college foundation organized online webinar on " <b>How to conduct online class to students</b> " on <b>08.04.20</b>
4	Webinar on " <b>Introduction to ML &amp; ML Pipeline Publication</b> " <b>April 2020</b>
5	Webinar on " <b>Virtual Interview on J.Sujith Kumar</b> " Organized by Knowledge Institute of Technology,Salem. April 2020
6	Webinar on " <b>Use of Technology in Education &amp; Content development</b> " Organized by Yogendra Paul. 11.04.2020
7	Webinar on " <b>Business Marketing and Branding</b> Organized by Sathish Krishnan Muthu. <b>25.04.2020</b>

8	Webinar on <b>“Sustainable development Goals”</b> on 18.04.2020
9	Webinar on <b>“Understand your Personality and make your Career Choice”</b> Babu Rangarajan Organized by Knowledge Institute of Technology,Salem. 10.04.2020
10	Webinar on <b>“Developing and Thinking Ability”</b> Dr.Babu Rangarajan Organized by Knowledge "Institute of Technology,Salem on 17.04.2020.
11	Webinar on <b>“A Brand New Lecture Series from NPTEL”</b> Organized by NPTEL on 13.04.2020.
12	Webinar <b>“Digital Personal Branding for MBA”</b> Organized by Knowledge Business School on 17.04.2020
13	Webinar on <b>“How to crack the Personal Interview”</b> Organized by FACE Pulse on 22.04.2020.
14	Webinar on <b>“Understanding your Children at 15-22 age”</b> Babu Rangarajan Organized by Knowledge Institute of Technology,Salem on 26.04.2020.
15	Webinar on <b>“Development Thinking Abilities Relevant for Engineering”</b> Organized by FACE Pulse on 28.04.2020.
16	Webinar on <b>“CONFIDENCE-A Complete Mental Health Program during Pandemic COVID-19”</b> Dr.Babu Rangarajan Organized by Knowledge Institute of Technology,Salem on 29.04.2020 & 30.04.2020.
17	Webinar on <b>“SIX SUTRAS TO BECOME MARKETING SUPER HERO”</b> Organized by Knowledge Institute of Technology,Salem on 02.05.2020
18	Webinar on <b>“Introduction to Machine Learning”</b> Organized by Amazon web Services (AWS) on 04.05.2020.
19	Webinar on <b>“Dos and Don'ts During Recruitment Process After Covid-19 ”</b> Organized by Knowledge Institute of Technology, Salem on 04.05.2020 .
20	Webinar on <b>“Design Thinking for Engineers-How do you teach these principles in your class for Engineers?”</b> Organized by Knowledge Institute of Technology,Salem on 08.05.2020
21	Webinar on <b>“Industry expectations and IT REVOLUTION after covid'19 ”</b> Organized by Knowledge Institute of Technology,Salem on 07.05.2020 .
22	Webinar on <b>“SEE YOU on TOP”</b> S.Mohan,Academy Excellence Organized by Knowledge Institute of Technology,Salem on 07.05.2020
23	Webinar on <b>“Future business &amp; Scope of engineering jobs”</b> Organized by Knowledge Institute of Technology,Salem on 08.05.2020
24	Webinar on <b>“Core Industry expectations after covid'19”</b> Organized by Knowledge Institute of Technology,Salem on 09.05.2020
25	Webinar on <b>“Basics of Business and finance of Core Industry”</b> Organized by Knowledge Institute of Technology,Salem on 11.05.2020

26	Webinar on “ <b>Exploring outcome based education and NBA Process</b> ” Organized by KIOT,Salem from 07.05.2020 to 13.05.2020
27	E-Sim Faculty workshop “ <b>IOT series</b> ” conducted by IIT-B in <b>September 2019</b>
28	Webinar on “ <b>From Caterpillar to Butterfly</b> ” Mr.C.K.Kumaravel Organized by Knowledge Institute of Technology,Salem from 21.05.2020
29	Webinar on “ <b>Agility as Leadership Competence of the Turbulent Times</b> ” Organized by Knowledge Institute of Technology,Salem from 23.05.2020
30	Webinar on “ <b>Knowledge Outreach 2020(Digital Marketing)</b> ” Organized by Knowledge Institute of Technology,Salem from 25.05.2020.
31	Webinar on “ <b>Come out Comfort Zone Hit the Target</b> ” Organized by Knowledge Institute of Technology,Salem from 25.05.2020.
32	Webinar on “ <b>Opportunities &amp; Challenges in the Disruptive World for the Budding Professional</b> ” Organized by Knowledge Institute of Technology, Salem from 27.05.2020.
33	Webinar on “ <b>E-Content Development Awareness Workshop</b> ” Organized by Knowledge Institute of Technology,Salem from 28.05.2020 to 31.05.2020.
34	Webinar on “ <b>Covid 19 Post Lock Down Safety &amp; Hygiene Measures</b> ” P.Rajamohan Organized by Knowledge Institute of Technology,Salem from 30.05.2020.
35	Webinar on “ <b>Happiness</b> ” Dr.Babu Rangarajan Organized by Knowledge Institute of Technology,Salem from 31.05.2020.
36	Webinar on “ <b>Restructing Engineering Education for Atmanirbhar Bharat</b> ” Prof.Anil Shasrabuddhe Organized by AICTE,New Delhi from 07.06.2020.
37	Webinar on “ <b>Material Preparation for Online Teaching and Online Delivery Strategies</b> ” Dr.S.Bhaskar Organized by Knowledge Institute of Technology,Salem from 16.06.2020 to 24.06.2020.
38	Webinar on “ <b>Let it Burn</b> ” Organized by Knowledge Institute of Technology-Women Empowerment Cell,Salem on 28.06.2020.
39	Webinar on “ <b>NIRF 2020-What does it take to Excel?</b> ” Organized by Knowledge Institute of Technology,Salem on 27.06.2020.
40	Webinar on “ <b>Campus to Coporate</b> ” Shasikanth Jayaraman Organized by Knowledge Institute of Technology,Salem on 29.06.2020.
41	Webinar on “ <b>ICT Academy-Virtual book launch Future of Education Nine Mega trends</b> ” Organized by Sri M Venkayanayudu on 30.06.2020.
42	Webinar “ <b>Learn to Design your own Solar Home System</b> ” Organized by Energy Swaraj Foundation on 25.06.2020.

43	Webinar <b>“Passion is the Difference between having a Job or having a Career – Emerging Trends and Engineering Job Opportunities”</b> S.Chellakumar Organized by Knowledge Institute of Technology,Salem on 03.07.2020
44	Webinar <b>“Everyone can do Quality Research-Instrumentation for Research in Thermal Engineering”</b> Organized by Knowledge Institute of Technology,Salem on 04.07.2020
45	Webinar <b>“Time to Protect Ourselves from COVID-19”</b> Organized by Knowledge Institute of Technology,Salem on 05.07.2020
46	Ui Path -Skill-A-Thon 2020 on <b>“Step into Robotic Process Automation”</b> ,GUVI Tech.
47	AICTE ISTE sponsored Refresher program on <b>global environmental issues and challenges monitoring using geo graphic information</b> 25 <sup>th</sup> June 2018 to 30 <sup>th</sup> June 2018
48	AICTE Sponsored FDP on <b>Adaption of Computational Intelligent in Wireless communication systems and Network security</b> 4 <sup>th</sup> Dec 2017 to 17 <sup>th</sup> Dec 2017
49	As a Workshop Coordinator for i) <b>Foundation Program in ICT for Education</b> 3 <sup>rd</sup> Aug 2017 to 19 <sup>th</sup> Sep 2017. <b>Pedagogy for Online and Blended Teaching-Learning Process</b> 14 <sup>th</sup> Sep 2017 to 8 <sup>th</sup> Oct 2017
50	FDP on <b>CMOS, Mixed Signal RF, VLSI Design</b> from 30 <sup>th</sup> Jan 2017 to 4 <sup>th</sup> Feb 2017
51	IEEE FDP <b>Medical informatics extraction using soft computing techniques</b> in 2016
52	Short Term Training Program on <b>Technical Communication</b> 8 <sup>th</sup> Oct 2015 to 5 <sup>th</sup> Dec 2015
53	FDP on <b>Signals and Systems</b> from 2nd Jan 2014 to 12th Jan 2014
54	Completed the <b>"Academic Leadership Workshop"</b> organized by Wipro Technologies, Bangalore in 2014
55	FDP on <b>Analog Electronics</b> 4 <sup>th</sup> Jun 2013 to 14 <sup>th</sup> Jun 2013
56	E-Sim Faculty workshop <b>“IOT series”</b> conducted by IIT-B
<b>A11</b>	<b>Role &amp; Responsibilities</b>
1	Department Administration & Academic Activities <ul style="list-style-type: none"> <li>• UG Programme</li> <li>• PG Programme M.E. [VLSI Design]</li> </ul>
2	Department Overall Coordinator for all Clubs and Forums

3	Research Proposals & Funding
4	College NAAC Coordinator & Department NBA Coordinator
5	Coordinator for <b>Industry Supported Laboratory</b> : Texas Instruments Innovation Lab, Automotive Electronics Lab, Ni Virtual Instrumentation
6	Women Empowerment Cell Coordinator of KIOT
7	IEEE Student Branch Counselor of KIOT

A12	Awards
1	Received certificate for <b>Exceptional Contribution as Expert in Smart India Hackathon 2022</b> , Grand Finale for SIH Senior Software edition.
2	Received <b>ISTE Periyar Best Teacher Award 2020</b> in recognition of outstanding contribution to academic community and students.
3	Received <b>Certificate of Appreciation</b> for the tremendous effort and contribution as the <b>Session Chair of Track: Biomedical Engineering and Bioinformatics</b> at the Full Virtual Conference <b>IEEE REGION 10 Symposium (TENSYP) 2020</b> held during <b>5t h -7t h June, 2020</b>
4	Received <b>Certificate of Appreciation</b> for outstanding Contribution, Coordination and Participation during the <b>“Global Student Solar Ambassadors”</b> Workshop organised globally on <b>OCT 2, 2019</b> to Commemorate the <b>150<sup>th</sup> Birth Anniversary of Mahatma Gandhi</b>
5	Received <b>Best IEEE Student Branch Counsellor</b> award <b>2016</b> and <b>2017</b> from <b>IEEE MAS, Chennai</b>
6	Received <b>Best Women Engineer Award 2016</b> from <b>IE(I), Salem Chapter</b>
7	Received <b>Maharashtra State National Award</b> for the <b>best research work done by Teachers of Engineering Colleges - 2015</b> and <b>Cash prize</b> in recognition of <b>outstanding work done in the area of Biomedical image Processing</b> organized by <b>ISTE at 45th annual national convention</b> of <b>ISTE</b> on 10th January 2016 at HVPM's college of Engineering and Technology, Amravati, Maharashtra
8	Received <b>Certificate of Appreciation</b> from <b>Texas Instruments</b> for the contribution in <b>TI design contest (2015)</b>
9	Won outstanding faculty award by <b>Venus International Faculty Award</b> organized by <b>Venus International</b> for the academic excellence in <b>2015</b>
10	Recognized as an <b>Anna University</b> research centre for the department of Electronics and Communication Engineering, <b>Knowledge Institute of Technology</b> , Salem in the year <b>2016</b> as a <b>HOD and Supervisor</b> .
11	Received <b>Certificate of appreciation</b> from <b>IEEE MAS</b> for conducting many activities for the consecutive <b>8 years (2011 - 2019)</b> as a <b>IEEE Student Branch Counsellor</b>
12	Every year one <b>Project proposal</b> have been selected as <b>one among top 8 proposals</b> from all over <b>Tamilnadu</b> and won <b>appreciation award with cash prize</b> from <b>IEEE MAS</b> from <b>2011 to 2018</b> as a supervisor of the project.



	Received Achiever award from KIOT (2014, 2015, 2016 , 2017 and 2018) for contribution towards the growth of students career
	Received <b>certificate of recognition</b> from <b>Neuroradiology journal (Springer)</b> as an expert peer reviewer in <b>2012</b>
13	<b>Awarded</b> as a <b>TOP 2% Student award</b> in <b>SASTRA University</b> in the year <b>2001(PG)</b>

<b>A13</b>	<b>Research Projects and Grants</b>
1	Received grant of <b>Rs. 10,63,650/-</b> from <b>AICTE MODROBS - RURAL</b> under the title of <b>“Modernization and Removal of Obsolescence in Embedded laboratory Using Internet of Things ”</b> as a <b>Coordinator</b> from Sep 2019 to May 2022
2	Received grant of <b>Rs. 12,93,210/-</b> from <b>AICTE sponsored Research Promotion Scheme</b> under the title of <b>“ Implementation of Medical Decision Making System for Cardiovascular and Cerebrovascular Disease Analysis”</b> as a <b>Principal Investigator</b> from May 2013 to May 2016.

<b>A14</b>	<b>Countries Visited</b>
	Visited Thailand in 2016

<b>A15</b>	<b>Professional Activities</b>
<b>Editor in Journal</b>	
1	i-manager’s Journal of Electronics Engineers
2	i-manager’s Journal of Pattern Recognition
<b>Reviewer in Journal</b>	
1	IEEE Journal of Biomedical and Health Information
2	Journal of Experimental and Theoretical Artificial Intelligence (Springer)
3	Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization (Springer)
4	Journal of Electronic Imaging (Springer)
5	Signal, Image and Video Processing (Springer)
6	IET journal of computer Vision
7	Journal of Medical Systems (Springer)
8	Journal of Electronics and Electronics Letters (Springer)
9	Journal of Neuroradiology (Springer)
10	i-manager’s Journal of Electronics Engineers

11	i-manager's Journal of Pattern Recognition
12	Journal of International Medical Research
<b>Reviewer in International Conferences</b>	
1	International Conference on Intelligent Innovations in Engineering and Technology (ICIET) 2022, hosted by PSG IEEE SB
2	IEEE REGION 10 Symposium (TENSYM) 2020 - Biomedical Engineering and Bioinformatics - the Full Virtual Conference - 2020
3	IEEE International WIE Conference on Electrical and Computer Engineering (IEEE WIECON-ECE) 2016
4	IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT)-2015