

RNS Institute of Technology, Channasandra, Bangalore-560098
ECE Dept | RESUME - Faculty

Name	Dr Suresh D		
Date of Birth	30/12/1962		
Address	Contact Address: Professor, Department of ECE, RNSIT, Bangalore-98 E-mail: sureshd1230@gmail.com		
Subject / Discipline/ Major	Electronics and Communication Engineering/ Signal Processing		
Educational Qualifications	Exam Passed	Institution University	Year
	Degree: BE(ECE)	JNN College of Engg. / Mysore University	1987
	PG: M.Tech (IE)	NITK (KREC Surathkal) / Mangalore University.	1995
	Higher: Ph.D	SK University, Andhra Pradesh	2016
Experience	Nature of Experience	No. of Years	
	Teaching	33 years	
	Industry/Research	(Involved in research work along with teaching. Publishing papers and filing patents.)	
	Total No. of years of Experience	33 years	
Experience Details	Designation	Institution/ Organization	Duration
	Professor	RNSIT / SET Jain University / APSCE	17 years
	Assistant professor	APSCE/ NMAMIT (Assistant Professor / Senior Lecturer / Lecturer	16 years
Professional bodies Membership details	<ul style="list-style-type: none"> • Member of IEEE • Member of Indian society for technical Education (MISTE) • Member of International Association of Computer Science and Information Technology (IACSIT) • Member of International Association of Engineers (IAENG) 		
Other Professional Experiences	<ul style="list-style-type: none"> • Certificate course in Entrepreneurship and Development by EDII, Ahmedabad. 		
Areas of Research Interest & Guidance	<ul style="list-style-type: none"> • Signal Processing, Embedded Systems. • Guiding Two PhD research scholars. 		
National/ International Work Shops/ Seminars / Conferences Attended	<ul style="list-style-type: none"> • Suresh.D and B.C. Premkumar, “Detection of Heart Abnormality Using Image Based Heart Sound Signal With Augmented Reality”, International Conference on Advanced Material Technologies (ELSEVIER - ICAMT)-2016, 27th and 28th December 2016 • Bimlendu Shahi, Divya Jha, Dr. Dushyanth N D, Dr. Suresh D, “Asynchronous Approach for Network Fault Management by Strongly Typed Genetic Programming”, 2nd IEEE International Conference On Recent Trends In Electronics Information Communication Technology, May 19-20, 2017, India. • B. C. Premkumar, Dr. P. Subbaiah, Suresh. D, “A Power regulation and Harmonic Current Elimination Approach for Parallel Multi-inverter Supplying IPT Systems”, National conference on Recent Advances in Electronics and Communication Engineering – 2017 (RAECE – 2017), ISBN:978-93-5291-608-5, pp 594-599, 2017 • Suresh. D, “A modified CAD system for Detection of Brain tumors”, 2nd National conference on Recent Advances in Electronics and Communication Engineering – 2017 (RAECE – 2K19) • Participated in IEEE sponsored 3 – Day workshop on “Computer Networks Laboratory using NS3, NCTUNS and C/C++” from 23/01/2018 to 25/01/2018, organized by Dept. of ECE, RNSIT. 		

- Attended Five days Online Webinar series April 2020, from 24/04/2020 to 29/04/2020 organized by Department of Information Technology, Excel Engineering College, Komarapalayam, Tamilnadu.
- Online Certification course on Intellectual Property Rights and Innovation from 30/04/200 to 02/05/2020, organized by KSCST and CIPAM.
- One week online FDP on “Recent Trends in Electronics Industry (RTEI – 2020)”, from 18/05/2020 to 23/05/2020, organized by Dept. of ECE, Annamacharya Institute of Technology and Sciences, Rajampet. Andhra Pradesh.
- Series of Webinars on “Quality Research and Entrepreneurial Activities (QREA – 2020)”, from 26/05/2020 to 28/05/2020, organized by Dept. of ECE, Annamacharya Institute of Technology and Sciences, Rajampet. Andhra Pradesh.
- Participated in Three day webinar on “Funding opportunities – Proposals and Research projects for Faculty”, from 18/06/2020 to 20/06/2020, at Cambridge Institute of Technology, Bengaluru, under the aegis of IIC and IQAC in association with NAFEMS.
- **Organized Three Day Webinars** on “R & D in Electronics Engineering for Academic Institutes in the current COVID 19 Scenario”, from 24/06/2020 to 26/06/2020. Dept. of ECE, RNS Institute of Technology.
- Participated in one week online FDP on “Advancements in Nano and Imaging Technologies (ANIT – 2020)”, from 03/08/2020 to 08/08/2020, organized by Dept. of ECE, in collaboration with IEEE student branch, Annamacharya Institute of Technology and Sciences, Rajampet. Andhra Pradesh.
- Participated in Webinars on “Challenges and opportunities for Engineers in Electric Vehicle Design and Development”, 07/08/2020, organized by Dept. of Robotics and Automation, Faculty of Engineering Technology, Jain University.
- Participated in **ISTE** Approved One week online short term training programme on “Entrepreneurship, Innovation and Incubation”. Organised by ISTE chapter (2134) in Association with Atal Incubation centre, Sri Krishnadevaraya University, Anantapura, A.P. Organised by NNRG group of Institutions, Hederabad.
- **Organized a online talk** on “How to live your life on your own terms and remarkable” under the banner of EDE Cell, Dept. of ECE, RNSIT in association with IEEE, Bangalore section on 14/10/2020.
- **Organized a online talk** on “Be the one rather than any one” under the banner of EDE Cell, Dept. of ECE, RNSIT in association with IEEE, Bangalore section on 16/10/2020.
- **Organized a talk** on “Entrepreneurial Journey” under the banner of EDE Cell, Dept. of ECE, RNSIT in association with IEEE, Bangalore section on 26/02/2021
- **Organized a talk** on “Introduction to Signal Analysis” under the banner of COE in Signal Processing, Dept. of ECE, RNSIT on 23/05/2021.
- Participated in AICTE sponsored one week STTP (Phase – I) on “VLSI Design and Verification”, from 22/03/2021 to 27/03/2021, organized by Dept. of ECE, Annamacharya Institute of Technology and Sciences, Rajampet, Kadapa, Andhra Pradesh.
- Participated in AICTE sponsored one week STTP (Phase – II) on “VLSI Design and Verification”, from 19/04/2021 to 24/04/2021, organized by Dept. of ECE, Annamacharya Institute of Technology and Sciences, Rajampet, Kadapa, Andhra Pradesh.
- Participated in AICTE sponsored one week STTP (Phase – III) on “VLSI Design and Verification”, from 14/06/2021 to 19/06/2021, organized by Dept. of ECE, Annamacharya Institute of Technology and Sciences, Rajampet, Kadapa, Andhra Pradesh.
- Session chair of Fourth National Conference (Online) on “Emerging Trends in Engineering , Science and Technology” held on 05/07/2021 organized by Dept. of ECE, RNSIT, in collaboration with IETE, Bangalore.
- Worked as coordinator to conduct ISTE workshop in “Database technology” jointly organized by A.P.S. college of Engg. in association with B.M.S.College of Engg.
- Organised and worked as Coordinator to conduct National level Project presentation
- Contest for two times in the year 2002, and 2003 at APS College of Engineering.
- Worked as Coordinator to conduct Two days National level workshop on “ Current trends in Signal Processing” held at School of Engineering and Tech., Jain University on 26th and 27th August 2011
- Attended three day National level workshop on “Signal and Image Processing with Applications (SIPA – 2013)” organized by RV College of Engineering from 1st to 3rd January 2013.
- Attended the seminar on “Matlab and Simulink for Engineering Education” organized by MathWorks India at Bangalore on 6th March 2012.
- Worked as Convenor to conduct National conference on Recent trends in Electrical, Electronics, Computing and Information Technology (NCRTEECIT – 16) held at Jain University on 24th September 2016.

- Attended Two weeks workshop on ‘National Faculty Development Programme – Entrepreneurship and Development’ at Alva Institute of Engineering and Technology, Moodubidire, Mangalore, sponsored by Department of Science and Technology in the month of July 2017.
- Worked as coordinator to conduct FDP on Python Programming and applications from 18th to 20th June 2018 at RNS Institute of Technology.

International conferences attended:

- Attended Seminar on “MATLAB and Simulink for Engineering Education” sponsored by IET Bangalore chapter, on Tuesday, 06/03/2012 held at The Gateway Hotel, Residency Road, Bangalore
- Attended seminar on ISA CXO Conclave conducted by IBM and IET at Hotel TajVisanta, MG Road Bangalore on 7/11/2012. Talk by Dr Gary Patton, VP, IBM Semiconductor research & Development center and Dr. David Harame, IBM Fellow, IBM Microelectronics
- Attended Second IET- Bangalore Local Network's Technology Leadership Talk in Bangalore on Tuesday, 20th November 2012.
- Attended The IET Pinkerton Lecture 2012 on the topic Connecting computers with the human brain by Professor Kevin Warwick, held at Infosys Convention Centre, Electronics City Hosur Road Bengaluru, on 23rd November 2012

Papers Presented /Books Published

- Sourabh Kumar Jain and **Suresh.D.**, Paper titled “A new JPEG Image scaling Algorithm Based on the Area Pixel Model”, “The International journal of Engineering and Sciences (IJES). Volume 2, Issue 5, Pages:46-56, 2013. ISSN#:2319-1813 ISSN(p): 2319-1805
- **Suresh. D**, Dr B Ramamurthy, S. Ravi, Dr P Thimmaiah, B C Premkumar, “Image Based Heart Murmur Classification Using Acoustic Wave Pattern”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 15 (2015) pp 35627-35633. (Scopus)
- **Suresh. D**, B Ramamurthy, S Ravi, B C Premkumar, “Image based heart murmur classification using hamming distance measure”, ARPN journal of Engineering and Applied sciences ISSN 1819-6608 VOL 10, NO.18, OCTOBER 2015.(Scopus)
- **Suresh. D**, Dr B Ramamurthy, Dr S Ravi, B C Premkumar, “Augmented Reality based heart murmur classification”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 15 (2015) pp 35791-35796. (Scopus)
- B. C. Premkumar, Dr. P. Subbaiah, Dr. S. Ravi and **Suresh. D**, Forked Embedded System Models for Automotive Airbag Control System International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 15 (2015) pp 31845-31854. (Scopus)
- B. C. Premkumar, Dr. P. Subbaiah, Dr. S. Ravi and **Suresh. D**, Performance Improvement In Nonlinear Control System Using RTOS, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 19 (2015) pp 40307-40314. (Scopus)
- Divya Jha, Bimlendu Shahi, **Dr. Suresh D**, Dr. Dushyanth N D, “ROLE OF EQUIPMENT MANAGEMENT IN OPTICAL TRANSPORT NETWORK”, International Journal of Research Granthaalayah, ISSN 2350-0530(O), ISSN 2394-3629(P), Volume 5, Issue 4, April 2017, pp 155-160.
- Bimlendu Shahi, Divya Jha, Dr. Dushyanth N D, **Dr. Suresh D**, “RECENT ADVANCES IN OPTICAL NETWORK TECHNOLOGIES AND ITS ROLE IN TELECOMMUNICATION INDUSTRY”, International Journal of Research Granthaalayah, ISSN 2350-0530(O), ISSN 2394-3629(P), Volume 5, Issue 4, April 2017, pp 15-22.
- Arjun B, **Dr Suresh D**, “IOT based multifunctional robot for military applications”, International journal of Electrical and Electronics Engineering, ISSN: 2456 – 6055, Volume 5, Issue 3, March 2019, pp 22-26.
- Kasthuri. R, **Dr Suresh D**, “Vision-Based Boat Height Prediction, Crash Avoidance and Condition Monitoring System”, International journal of Engineering science and computing, ISSN 2321 3361 © 2020 IJESC, Volume 10, Issue no. 3, March 2020, pp 25103 – 25106.
- **Dr. Suresh D**, Rohit Kumar K, Subin S, Sanket Shanbhag, Naveena N, “Face Expression Recognition of Images”, International research journal of Modernization in Engineering Technology and Science, e-ISSN: 2582 – 5208, Volume 2, Issue 4, April 2020, pp 868 – 871.
- Yashaswini. B, Madhusudhan, Nagmani, **Dr. Suresh. D**, “Automated Smart Sericulture Based on IoT and Image Processing Technique”, International journal of Engineering science and computing, ISSN 2321 3361 © 2020 IJESC, Volume 10, Issue 6, June 2020, pp 26201 – 26206.
- M.Ravikishore, **Dr Suresh D.**, “A review on Brain Tumor Diagnosis Using Image Processing”, Journal of Advanced Research in Dynamical and Control Systems,

- Dr Suresh D., “Analysis of heart murmur and its classification using Image Based Heart Sound Signal with Augmented Reality.”, Turkish Journal of Computer and Mathematics Education, Volume 12 No.6 (2021), pp 4311 – 4320

Patents

Patents filed and published / Granted:

- COMPUTER AUTOMATED METHOD FOR DETECTION OF BRAIN TUMOUR.
Date: 04/03/2019
Patent application number: [201941008330](#).
Publication Date: 15/03/2019.
- METHOD FOR ANALYZING THE WEATHER MONITORING AND NOTIFICATION SYSTEM.
Application number: [202041008891](#)
Date: 02/03/2020.
Publication Date: 06/03/2020.
- ATM Cash withdrawal with smart phone based authentication.
Application No.: [202041042568](#).
Date: 04/10/2020.
Publication Date: 09/10/2020.
- ATTENDANCE REGISTRATION WITH SMART PHONE IN CAMPUSES
Application No.: [202041044918](#)
Date: 15/10/2020.
Publication Date: 30/10/2020.
- **Australian Innovation patent – Patent Granted**
Invention title: Wild life intrusion detection system empowered with Artificial Intelligence.
IP RIGHT NUMBER: **2021100064**.
Date: 6/01/2021 – **Granted on 31/03/2021**
- Traffic Police Occupational Stress Model and Coping Strategies Thereof.
Application No.: **202141015753** Date: 02/04/2021.
- Australian Innovation Patent. **No. 2021103284** Title: Traffic Police Occupational Stress Model and coping strategies thereof. Date: 10/06/2021
- Title: Foot Operated Hand Sanitizer Dispenser Indian Application No. **202141032831** filed on 21 July 2021

Invited talks

- Delivered a talk on “Entrepreneurship and Development” on 31/01/2018 at Sri SAIRAM College of Engineering, Bengaluru.
- Delivered a talk on “Role of IOT in Mechanical Automation System & Allied Services” on 13/08/2020, at Dayananda Sagara Academy of Technical and Management, Bengaluru.
- Delivered a talk on “TRANSFORMATION TECHNIQUES IN ENGINEERING APPLICATIONS” on 31/12/2020 at Vidyavardhaka College of Engineering, Mysore.
- Delivered a talk on Machine Learning Algorithm for Human age detection on 21/06/2021 in International virtual conference on emerging trends on artificial intelligence in Industry 4.0 at Loyola Institute of Technology, Chennai.
- Delivered a talk “Entrepreneurial Idea Generation” on 07/08/2021 in two days EDP at HR Institute of Higher Education, Hassan.
- Delivered a talk on “Internet of Things” on 23/09/2017 at RNSIT in Three day EAC camp sponsored by EDII, Ahmedabad.
- Delivered a talk and conducted activity on “Idea lab” on 25/09/2017 at RNSIT in Three day EAC camp sponsored by EDII, Ahmedabad.
- Delivered a talk on “Internet of Things” on 31/10/2017 at RNSIT in Three day EAC camp sponsored by EDII, Ahmedabad.
- Delivered a talk and conducted an activity on “Idea lab” on 02/11/2017 at RNSIT in Three day EAC camp sponsored by EDII, Ahmedabad.
- Delivered a talk on “Eatery business Eco System” on 08/12/2018 at RNSIT in Three day EAC camp sponsored by EDII, Ahmedabad.
- Delivered a talk on “Entrepreneurship Development” for five days from 10/02/2020 and 14/02/2020, in an Induction Program, organized by RNSIT.
- Delivered a talk and conducted an activity on “Idea generation” on 28/01/2021 and 29/01/2021, organized by ECE dept., RNSIT.
- Delivered a talk on “Entrepreneurship Development” on 18/05/2021 and 25/05/2021, in Student Induction Program (May 17 – 29, 2021) organized by RNSIT.

Reviewer	<ul style="list-style-type: none"> • Reviewed IEEE International conference papers on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques – (ICEECCOT), December – 2016. • Reviewed papers of International Conference on Recent Trends in Electrical Sciences and Medical Engineering-(ICRTEESME), August 8-10, 2017. • Reviewed IEEE International conference papers on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques – (ICEECCOT-2017), 15th to 16th December – 2017.
Additional Information (if any)	<ul style="list-style-type: none"> • Chairman, BOE, VTU for the year 2019 – 2020, Member, BOE, VTU, year 2018 -2019 • Chairman BOE and BOS, Jain University from 2010 to 2016. • Received ‘Eminent Professor Award’ in the Global Eminence Summit held in the year 2020. • Work experience As Vice Principal and In – charge Principal for five years. • Created Two blogs for highlighting the activities of the department. <p>Details:</p> <p>i) https://coesprmsit.blogspot.com/ - <i>Center of Excellence in Signal Processing, ECE, RNSIT</i></p> <p>ii) https://edececell.blogspot.com/ - <i>Entrepreneurship Development Cell, ECE, RNSIT</i></p>