



Sri Ramakrishna Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC with "A" Grade & All UG Programmes are Accredited by NBA)
Pachapalayam, Perur Chettipalayam, Coimbatore – 641 010
www.srit.org :: Phone – 0422-2605577



Faculty Profile

R.GAYATHRI B.E.,M.E.,

Assistant Professor (Sr. Gr)

Electronics and Communication Engineering



Date of birth	:	04.04.1990	Gender	:	Female
Nationality	:	Indian	Marital status	:	Married
Address for correspondence	:	1/5 Oor Gounder Street, Maruthapuram, Navavoor, Bharathiar University (PO), Coimbatore - 641046	Permanent address	:	1/5 Oor Gounder Street, Maruthapuram, Navavoor, Bharathiar University (PO), Coimbatore - 641046
Mobile no	:	9677660783	e-mail (official)	:	gayathri.ece@srit.org
Landline	:	-	e-mail (personal)	:	visitgayathri@gmail.com
Date of joining this institution	:	03.06.2013	Post of joining	:	Assistant Professor
No of promotions since present D.O.J	:	01	Present post	:	Assistant Professor (Senior Grade)
Present pay scale	:	Rs.15,600 – Rs.39,100	Gross pay	:	42,364.00
Employer ID	:	TE167	Bank account No. (Salary credited)	:	500101010584083
P.F. No	:	TN/CBE/56764/592	Group Insurance No	:	-
PAN Number	:	BEBPG7845F	Aadhar Number	:	984048003825
AICTE ID	:	1-7383471499	AICTE Institution ID	:	1-7841521

Educational Qualification

Degree	Specialization	Year of Passing	Name of the College	Name of the University	Class Obtained
Ph.D	Faculty of Information and Communication Engineering	-	Anna University, Chennai	Anna University, Chennai	Pursuing
M.E.	Communication Systems	2013	SNS College of Technology, Coimbatore.	Anna University, Chennai	8.02 (CGPA) / First Class
B.E.	ECE	2011	SNS College of Technology, Coimbatore.	Anna University, Coimbatore	8.47(CGPA) / First Class
Higher Secondary	Biology/Maths	2007	Chavara Vidya Bhavan Matric Higher Secondary School, Coimbatore.	State board	83% / First Class
S. S. L.C	-	2005	Chavara Vidya Bhavan Matric Higher Secondary School, Coimbatore	State board	82% / First Class

Title of Ph.D. Thesis: Nil

Academic Experience

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Ramakrishna Institute of Technology, Coimbatore	Assistant Professor (Senior Grade)	03.06.2013	-	9	10	7
Total				9	10	7

Industrial Experience

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Nil							

Courses Handled

Academic Year	Semester	Course Name	Type of Course (T / L)	Pass Percentage
2013-2014	III	Principles of Communication	T	82
	IV	Microprocessor and Microcontroller	T	56
	IV	Microprocessor and Microcontroller Laboratory	L	100
2014-2015	III	Analog and Digital Communication Techniques	T	97
	III	Digital Communication Laboratory	L	100
	II	Electronic Devices and Circuits	T	87
	II	Electronic Devices and Circuits Laboratory	L	100
2015-2016	I	Advanced Digital Communication Techniques	T	67
	III	Digital Communication Laboratory	L	100
	II	Digital Principles and System Design	T	96
	II	Digital Laboratory	L	100
2016-2017	III	Electronics Laboratory	L	100
	II	Engineering Practices Laboratory	L	100
	VIII	Professional Ethics in Engineering	T	98
	II	Digital Laboratory	L	100
2017-2018	II	Advanced Fiber Optic Technologies	T	100
2018-2019	III	Analog and Digital Communication	T	85
	I	Advanced Digital Communication	T	100
	I	Engineering Workshop	L	100

	II	Basic Electrical and Electronics Engineering	T	79
	II	Advanced Fiber Optic Technologies	T	100
2019-2020	II	Digital System	T	93
	I	Electronics Engineers and Society	T	100
	VI	Principles of Satellite Communication	T	100
	IV	Project Phase - II	L	100
2020-2021	III	Digital System	T	88.9
	III	Principles of Communication	T	82.6
	I	Statistical Digital Signal Processing	T	100
	VI	Principles of Satellite Communication	T	100
	I	Advanced Fiber Optic Technologies	T	100
2021-2022	III	Digital Principles and System Design	T	100
	III	Digital Logic Circuits	T	100
	IV	Introduction to Embedded Systems	T	80.76
	VIII	Introduction to Embedded Systems	T	100
2022-23	III	Digital Principles and System Design	T	85.48
	III	Digital Electronics Laboratory	L	100
	IV	Microcontrollers and its Applications	T	-

Projects Guided

Academic Year	Semester	Project Title	UG / PG
2013-2014	VIII	Vehicle Monitoring and Controlling using Multi-Sensors.	UG
2014-2015	VIII	Analysis of Various Parameters in Agricultural Field using Sensors.	UG
2015-2016	VIII	Protection of Green House Environment using Solar System.	UG

2016-2017	VIII	An Automated System for Elephant Identification and to Reduce Human-Elephant Conflict.	UG
2017-2018	VIII	A Smart hand gesture recognition system for silent speakers.	UG
2018-2019	VIII	An Efficient Lossless ECG Signal Transmission for Telemedicine Application	UG
2019-2020	VIII	An Automized System for Accident Prevention While Driving.	UG
2020-2021	VIII	1. Wireless Communication using 433 MHz Trans-receiver 2. Compact Egg Incubator	UG
2021-2022	VIII	1. A Smart Chair for Office Employees 2. Speech Emotion Recognition using CNN	UG PG
2022-2023	VIII	1. Speech Emotion Recognition using CNN-LSTM 2. IoT based Exhaust Gas Emission Monitoring System	UG

Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	2	20
Conferences	Nil	3

Journal Publications (IEEE format)

1. Gayathri.R, Saranya.B, Binu,D, Lavanya.R, Devi.P, “An Optimized Equipment for Measurement of Soil Parameters and Conservation of Water in Agricultural Fields” International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, Issue 6, PP. 12450-12455, June 2016.
2. B.Abinayaa, G.Kiruthikamani, B.Saranya, Gayathri.R, “An Intelligent Monitoring Device for Asthmatics using Arduino”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 5, Issue 7, PP. 6269-6273, July 2016.
3. G.Kiruthikamani, B.Abinayaa, B.Saranya, P.Devi, Gayathri.R, “Smart Vehicle Safety System Using Arduino”, International Journal of Trend in Research and Development, Vol. 3, Issue 6, PP. 804-807, November 2016.
4. Ms.D.Binu, Dr.P.Malathi, Ms.Gayathri.R, Mr.K.Vijay Anand, “Secured Palmprint Recognition Using Radon Transform for Biometric Authentication” Journal of Environmental Science, Computer Science and Engineering & Technology, Vol. 5, Issue 4, PP. 1-13, February 2017.

5. Lavanya.R, Dr.K.Sheela Shobana Rani, Gayathri.R, Binu.D, "A Smart Information System for Public Transportation Using IoT", International Journal of Recent Trends in Engineering and Research, Vol. 3, Issue 4, PP. 222-230, April 2017.
6. Ms.D.Binu, Ms.Gayathri.R, Mr.K.Vijay Anand, Ms.Lavanya.R, Ms.Kanmani.R, "Thermoelectric Power Generation Using Solar Energy", International Journal for Scientific Research & Development, Vol. 5, Issue 3, PP. 222-230, May 2017.
7. Ms.Gayathri.R, Dr.K.Sheela Shobana Rani, Ms.Lavanya.R, "An Automatic Repelling System to Reduce Human Elephants Conflicts Using Sensors", International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol. 5, Issue 5, PP. 528-532, May 2017.
8. D.Binu, Mr.K.Vijay Anand, Gayathri.R, "Mobile Phone Based Secured Electronic Payment System Using RFID Communication", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol. 2, Issue 6, PP. 224-229, December 2017.
9. Dr.K.Sheela Shobana Rani, Lavanya.R, Gayathri.R, "Energy Efficient Packet Transmission for Wireless Sensor Networks", International Journal for Science and Advance Research in Technology, Vol. 3, Issue 12, December 2017.
10. Dr.K.Sheela Shobana Rani, Lavanya.R, Gayathri.R, "A Secured Patient Health Record Using Encryption Algorithm", International Journal of Engineering Development and Research, Vol. 6, Issue 1, January 2018.
11. Gayathri.R, Dr.K.Sheela Shobana Rani, "Different Encoding and Decoding Techniques of ECG Signal for Efficient Transmission - A Survey" International Research Journal of Engineering and Technology, Vol. 5, Issue 12, December 2018.
12. M.Nivetha, R.Priyanka, V.Sangavi, R.Gayathri, "Efficient ECG Signal Compression using Various Coding Techniques", International Journal of Research in Engineering, Science and Management Vol. 2, Issue 3, March 2019.
13. Ms.Gayathri.R, Dr.K.Sheela Shobana Rani, Ms.Lavanya.R, "Smart Finger Gesture Recognition System for Silent Speakers", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol. 5, Issue 4, August 2019.
14. Ms.Gayathri.R., Ms.Lavanya.R Dr.R.Jaikumar, "Vehicle Monitoring and Controlling Using Multi-Sensors in Ad-Hoc Networks", International Journal of Creative Research Thoughts, Vol. 8, Issue 6, June 2020.
15. K.Sheela Sobana Rani, M.Yuvaraju, V.Sathya, R.Lavanya, R.Gayathri, "A Modified Image Steganographic Method Based on Chaotic Text Encryption using Lifting Wavelet Transform", Electronic Government, International Journal, Inderscience. (Scopus)
16. R.Gayathri, N Riyaz, S Suriya Karthik, P Udhaya Kumar, "Compact Egg Incubator", International Research Journal of Modernization in Engineering Technology and Science, Volume:03, Issue:03, March 2021.

17. Guna T, Manojkumar S, Hamsa Krishna R, Nitesh S, Ms.R.Gayathri, "Wireless Communication using 433 MHz Trans-Receiver", International Research Journal of Modernization in Engineering Technology and Science, Volume:03, Issue:03, March-2021.
18. Ms.R.Gayathri, B. Pavithra, S.Prabhavathi, G.Sakthi, "Classification Of Environmental Sounds using Deep Learning", International Research Journal of Modernization in Engineering Technology and Science, Volume: 03, Issue:12, December 2021.
19. Chisnah C.J, Gayathri R, "Review on Classification of Speech Signal Using Traditional and Deep Learning Techniques", International Journal of Research and Analytical Reviews, Volume: 09, Issue: 02, April 2022.
20. R. Gayathri and K. Sheela Sobana Rani, "Implementation of Hybrid Deep Reinforcement Learning Technique for Speech Signal Classification", Computer Systems Science & Engineering, Volume: 46, Issue: 01, January 2023.
21. Gayathri R, Arun Kumar B, Inbanathan S, Karthick S, "Speech Emotion Recognition using CNN-LSTM", International Journal of Scientific Research in Engineering and Management (IJSREM), Volume: 07, Issue: 03, March 2023.
22. Gayathri R, Surya Raj M, Sadeesh P, Selvakumar K, "IoT Based Automatic Exhaust Gas Emission Monitoring System For Commercial Vehicles", International Journal of Scientific Research in Engineering and Management (IJSREM), Volume: 07, Issue: 03, March 2023.

Conference Publications (IEEE format)

1. Presented a Paper titled "Analysis of Various Parameters in Agricultural Field Using Sensors" in Fourth National Conference on Communication, Computation, Control and Automation (CCCA 2014) at Sri Ramakrishna Institute of Technology, Coimbatore during 28 and 29 March 2014.
2. Presented a Paper titled "Optimal Resource Allocation in Duplex Wireless-Powered Communication Networks" in National Conference on Organic Electronics, Green Communication and its Security Issues at Erode Segunthar Engineering College, Erode on 9th May 2014.
3. Participated in 3rd National Level Conference on "Intelligent Information and Computing Technologies (IICT 2017)" and presented the titled "An Automated System for Elephant Identification and to Reduce Human Elephant Conflicts" held at RVS College of Engineering and Technology, Coimbatore on 3rd March 2017.

Books / Book Chapters (IEEE format)

1. K.Sheela Sobana Rani, R. Gayathri, R.Lavanya, and K.Uthayasuriyan, "Design of Reliable Dense Wavelength Division Multiplexing System for Metropolitan Area Network", Springer Lecture Notes in Networks and Systems- Inventive Computation Technologies, Vol. 98, 2019. PP 782-793.

Research Guidance

Sl.No.	Scholar Name	University	Area of the Research	Research Status
Nil				

Sponsored Research

Project Title	Funding Agency	Amount Rs.	Duration
Nil			

Consultancy

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
Nil				

Workshops / Seminars attended

1. One day National workshop on “Advanced Trends in Communication Techniques” at Sri Ramakrishna Institute of Technology on 8th October 2013.
2. National Level Workshop on “Recent Trends in Nano Technology and Its Application to Energy Sector” at Nandha Engineering College, Erode on 18th & 19th October 2013.
3. Two-week ISTE Workshop on “Signals and Systems” conducted by IIT Kharagpur under National Mission on Education through ICT (MHRD) at Sri Ramakrishna Institute of Technology from 2nd to 12th January 2014.
4. Two-week ISTE Workshop on “Control Systems” conducted by IIT Kharagpur under National Mission on Education through ICT (MHRD) at Sri Ramakrishna Institute of Technology from 2nd to 12th December 2014.
5. Two day workshop on “e-Yantra Robotics” at Dr. G. R. Damodaran College of Science, Coimbatore during 24th and 25th February 2016.
6. Two days hands-on “TI MSP430 Embedded System Workshop” at Sri Ramakrishna Institute of Technology, Coimbatore during 21st and 22nd November 2016.
7. Two day workshop on “Advances in Artificial Intelligence” at Sri Ramakrishna Institute of Technology, Coimbatore during 22nd and 23rd December 2016.
8. One day workshop on “Research Methodology and Writing Funding Proposals” at Sri Ramakrishna Institute of Technology, Coimbatore on 22nd December 2017.
9. Attended LATEX training provided by Spoken Tutorial Project, IIT Bombay at St.Joseph's Institute of Technology, Chennai from 15th to 17th May 2020.

10. Attended a Workshop on “Intellectual Property Rights” organized by TNSCST and Mohamed Sathak College of Engineering, Chennai during 02nd and 3rd June 2020.

Faculty Development Program attended

1. Anna University, Chennai approved FDTP on “Antenna and Wave Propagation” from 7th to 13th December 2015 at Hindustan Institute of Technology, Coimbatore.
2. Three day FDP on “My Profession, My Commitment, My Life” from 16th to 18th November 2016 at Sri Ramakrishna Institute of Technology, Coimbatore.
3. Two-Week ISTE STTP on “CMOS, Mixed Signal and Radio Frequency VLSI Design” from 30th January 2017 to 4th February 2017 at Sri Ramakrishna Institute of Technology, Coimbatore.
4. AICTE recognized short term course on “Artificial Neural Network & Fuzzy Logic” from 24th to 28th April 2017 at Sri Ramakrishna Institute of Technology, Coimbatore.
5. FDP on “Signals and Systems” from 20th to 22nd January 2018 at Sri Ramakrishna Institute of Technology, Coimbatore.
6. National Institute of Technical Teachers Training & Research-ICT based Short Term Course titled “Optimization Techniques with Engineering Applications” from 10th to 14th December 2018 at Sri Ramakrishna Institute of Technology, Coimbatore.
7. Attended a FDP on “Recent Trends in Bio-Medical Engineering – Research Perspective” at Dr.N.G.P. Institute of Technology, Coimbatore in association with MHRD-IIC & IQAC from 26th to 30th April 2020.
8. Participated in FDP on “Antenna and Microwave Engineering” hosted by the Department of Electronics and Communication Engineering in association with IETE Chapter and Society of EMC Engineers of K. Ramakrishnan College of Technology, Trichy from 08th to 13th June 2020.
9. Attended an International FDP on “Future Advancements and Applications of Internet of Things” organized by Electronics & Telecommunication Department of Sandip Institute of Engineering & Management Nashik from 12th to 14th June 2020.
10. Attended an International FDP on “Cyber Physical systems and Future Robotics of Industry: Cobotics” organized by Electronics & Telecommunication Department, R.C Patel Institute of Technology, Shirpur during 11th and 12th July 2020.
11. Attended a FDP on “Research Aspects of Signal and Image Processing” hosted by the Department of Electronics and Communication Engineering at Mohamed Sathak A J College of Engineering, Chennai from 27th to 31st July 2020.
12. Attended a AICTE STTP on “Green Internet of Things” organized by Electronics & Telecommunication Department at Vivekanand Education Society’s Institute of Technology, Mumbai from 10th to 15th August 2020.
13. Attended a FDP on “Data Science: Hands on with Python, Keras and Tensorflow” at Vellore Institute of Technology, Chennai from 14th to 18th September 2020.

14. Attended a FDP on “Machine Learning and its Applications” hosted by the Department of Electronics and Communication Engineering at Sri Venkateswara College of Engineering, Sriperumbudur from 21st to 25th September 2020.
15. Participated in FDP on “Advances in Wireless Communication” hosted by the Department of Electronics and Communication Engineering from 12th to 16th October 2020 at NIT Andhra Pradesh, Tadepalligudem, Andhra Pradesh.
16. Participated in AICTE-AQIS sponsored STTP on “Integrative Internet of Things and Deep Learning for Smart Health Care” hosted by the Department of Electronics and Communication Engineering from 19th to 24th October 2020 at KPR Institute of Engineering and Technology, Coimbatore.
17. Participated in AICTE Training and Learning (ATAL) Academy Online FDP on “Neural Network and Deep Learning” from 2020-11-23 to 2020-11-27 at Guru Gobind Singh Indraprastha University.
18. Attended an FDP on “Optimization Techniques using ML for Engineering Discipline” organized by Electronics & ICT Academy, National Institute of Technology, Warrangal and Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad during 18th and 27th July 2022.

Events Organized

- Acted as one of the co-ordinator for organizing a Two Day workshop titled “Introduction to MATLAB” conducted by SRIT Engineering Division on 25th & 26th October 2018 at Sri Ramakrishna Institute of Technology, Coimbatore.
- Acted as one of the co-ordinator for organizing an ICMR Seminar titled “Awareness for rural students about balancing academic, personal and societal life to lead a stressless career” on 06th July 2018 at Government Higher Secondary School, Aalandurai.
- Acted as one of the co-ordinator for organizing a Project Expo titled “IEEE YESIST 12 – AGE OF INNOVATION” on 16th March 2019 at Sri Ramakrishna Institute of Technology, Coimbatore.
- Organized a Webinar on “Robotic Process Automation – The Future Workforce” on 29th May 2020.
- Organized a Webinar on “Recent Trends in Semiconductor and ASIC Verification” on 6th June 2020.
- Organized an FDP on “Research Challenges and Issues in Wireless Communication Networks” during 08.02.2021 to 21.02.2021.
- Organized a Webinar on “Direct Broadcasting Services” on 29th April 2021.

Online Courses attended

Sl. No.	Title	Platform
1	Basic Electronics	NPTEL
2	Digital Circuits	
3	Internet of Things	
4	Joy of computing using Python	
5	Accreditation and Outcome based Learning	

6	Qualitative Research Methods and Research writing	Coursera
7	Learning to Teach Online (5 Weeks)	
8	Computer Vision - Object Tracking with Open CV and Python (1 Week)	
9	Introduction to Internet of Things and Embedded Systems (4 Weeks)	
10	Programming for Everybody - Getting Started with Python (7 Weeks)	
11	Image Denoising using Autoencoders in Keras and Python (1 Week)	
12	Automatic Machine Learning with H2O AutoML and Python (1 Week)	
13	Convolutions for Text Classification with Keras (1 Week)	
14	Fundamentals of Network Communication	

Awards and Recognitions Secured

1. Won Gold Award in the International Invention and Innovation Exhibition (I-ENVEX) 2018 for the project, "Elephant Intrusion and Detection System" at University Malaysia Perlis held on 13.04.2018 and 14.04.2018.
2. Participated and presented the project titled "Automatic Intrusion Detection and Repellant System to avoid Human Elephant Conflict" in International Project Competition "IEEE SS12 Project Contest, Prelims 2018 held at Kongu Engineering College on 11.08.2018.
3. Completed the module titled "How to prepare Manuscript" in Researcher Academy.
4. Completed the module titled "Career Planning" in Researcher Academy.
5. Acted as one of the reviewer in INDERSCIENCE Submissions to review the article titled "Security Ontology for e-Government Data Centre".
6. Acted as one of the reviewer in INDERSCIENCE Submissions to review the article titled "Study of Various Authentication Methods in Cloud with Biometrics as a Blooming Technology".
7. Filed for Patent titled "Equipment for Measurement of Soil Parameters and Conservation of Water Using Sensors in Agricultural Fields" on 31.12.2015.
8. Filed for Patent titled "Automatic Elephant Intrusion Detection and Repellant System" on April 2018.
9. Successfully completed the "BEC course" and scored A2 level during September 2019.
10. Won Bronze Award in the International Invention Innovation Creativity and Technology Exhibition (i2CreaTE) 2021 for the project, "A Low Cost M2M Communication Transceiver at 433MHz Band" at University Malaysia Perlis held on 16.09.2021.

Signature