



E.G.S. PILLAY ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University,
Chennai)

NAGAPATTINAM - 611002

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



FACULTY PROFILE



Name : Dr. Rajasri S
Designation : Assistant Professor
Department : Electronics and
Communication
Engineering
Specialization : RF and Microwave
Qualification : B.Tech., M.Tech., Ph.D.,
Date of Birth : 23-07-1991
Date of Joining : 17-07-2023

CAREER OBJECTIVE:

To work in learning and challenging environment, utilizing my skills and knowledge to be the best of my abilities and contribute positively to my personal growth as well as growth of organization.

ACADEMIC PROFILE:

| Standard / Degree | School / College | Year of passing | Percentage of marks obtained |
|--|---|-----------------|------------------------------|
| Ph.D (Metamaterial antenna and FSS) | National Institute of Technology Puducherry | 2022 | 8.86 (cgpa) |
| M.Tech (Wireless communication) | Pondicherry Engineering college, Pondicherry. | 2015 | 8.81 (cgpa) |
| B. Tech (Electronics and Communication Engineering) | Perunthalaivar Kamarajar Institute of Engineering And Technology, Karaikal. | 2013 | 8.81 (cgpa) |
| HSE | Annai Theresa Govt. Girsl Hr. Sec School, Karaikal. | 2009 | 86.33% |
| SSLC | Kamalia High School, Neravy, Karaikal. | 2007 | 91.68% |

PATENT FILED

- Boopathi Rani and Rajasri S, “Multi-ring Swasthi-shaped Frequency Selective Structure for Multi-band operation and Design Thereof ” filed an Indian patent 30th June 2023 at National Institute of Technology Puducherry.

PUBLICATIONS

- Rajasri S and Boopathi Rani, R “CPW-fed octagonal-shaped metamaterial-inspired multiband antenna on frequency selective surface for gain enhancement” in *Applied Physics A*, 128(7), 1-10, June 2022., (SCIE, I.F 2.584)
- Rajasri S and Boopathi Rani R, “Design and analysis of Hexagonal loop inscribed square shaped unit cell for frequency selective surface”, *International Journal of Radio and Space Physics*, vol. 50, pp. 29-32, March 2021. (Scopus indexed, I.F. 0.1)
- Subbaiyan Rajasri and Rajasekar Boopathi Rani, "Design and Performance Analysis of Metamaterial-Inspired Decagon-Shaped Antenna for Vehicular Communications," *Progress In Electromagnetics Research Letters*, Vol. 105, 139-147, 2022.
- Rajasri S and Boopathi Rani R, “Miniaturized CPW-fed Metamaterial Inspired Antenna for RFID Applications” in *Microwave and Optical Technology Letters*, Wiley Periodicals. (SCI)
- Rajasri S and Boopathi Rani R, “Gain enhancement of CPW-fed Metamaterial inspired Multiband Antenna using Frequency Selective Surface” in *Applied Physics* (SCIE) – Accepted.
- Rajasri S and Boopathi Rani R, “Design and analysis of Reconfigurable Frequency Selective Surface unit cell for X- band and C- band applications” in *International Journal of Electronics and Telecommunication*. (Scopus indexed) – Under Review.
- Rajasri S and Boopathi Rani R, “Recent Printed Antennas for Vehicular Communications – A Review” in *IEEE Open Journal of Vehicular Technology*, IEEE. (ESCI) – Under Review.
- Rajasri S., Boopathi Rani R. “Analysis of Unit Cell with and Without Splits for Understanding Metamaterial Property,” *In: Sivasubramanian A., Shastry P.N., Hong P.C. (eds) Futuristic Communication and Network Technologies. Lecture Notes in Electrical Engineering*, vol 792. Springer, Singapore, October 2021.
- Rajasri S and Boopathi Rani R, “Design and analysis of dual band Reconfigurable Frequency Selective Surface unit cell using PIN Diodes”, *National Conference on Communication System*, National Institute of Technology Puducherry, Karaikal, 2021.
- Rajasri S and Boopathi Rani R, “Review on Microstrip Patch Antenna for Mobile Applications”, *Recent Advancements in Nanotechnology*, at National Institute of Technology Puducherry, 2018.
- Boopathi Rani R and Rajasri S, “A Compact CPW-fed Circular Patch Antenna with CSRR Loaded Ground Plane for WiMAX and WLAN Applications”, *International Conference on Antenna Test and Measurement Society*. Chennai, 2019.
- Rajasri S and Boopathi Rani R, “Design and Analysis of CPW fed CSRR Inspired Hexagonal Antenna for Multiband operation”, *National Conference on Communication System*, National Institute of Technology Puducherry, Karaikal, 2019.
- Rajasri, S., & Gandh, D. R. (2018, December). Rule Based Fuzzy Image Segmentation for the Detection of Breast Cancer from Ultrasound Image. In *2018 International Conference on Intelligent Computing and Communication for Smart World (I2C2SW)* (pp. 254-259). IEEE.
- Rajasri, S, Rahul Gandh D and Vijayalakshmi D, “Method of Analysing a Metamaterial Unit Cell with Square and Hexagonal Shaped Waveguide Setup for Accuracy” *IEEE Conference Global Conference for Advancement in Technology*, Bengaluru, 2022.
- S. Rajasri and B. R. R, "A CPW fed Metamaterial-Inspired Hexagonal Patch Antenna for Multiband Operation," *2022 IEEE 6th Conference on Information and Communication Technology (CICT)*, Gwalior, India, 2022.

- S. Senthilkumar, E. Saranya, M. Kavitha, A. Selvakumar, S. Rajasri and R. Ramiya, "A Novel and Smart Administrative Door Lock and Open System using Face Recognition," 2023 2nd International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India.
- Rajasri S, Thilaga V and Rahul Gandh D, "Design and analysis of reconfigurable frequency selective surfaces for X-band and C-band applications" Insight International Conference (IIRC2024), Insight Institute of Management Technology, Srilanka.

WORKING EXPERIENCE

- Assistant Professor from June 2015 to April 2018. (3 Years) at Perunthalaivar Kamarajar Institute of Engineering and Technology, Karaikal, Puducherry, INDIA as Guest Faculty on Contract.
- Assistant Professor from November 2022 to April 2023 at National Institute of Technology Puducherry INDIA as Guest Faculty on Contract.
- Now working as an Assistant Professor at EGS Pillay Engineering College, Nagapattinam.

AREAS OF INTEREST

- RF Metamaterial Antenna Design
- Frequency Selective Surface
- Electronic devices and Circuits
- Medical Image Processing

TECHNICAL SKILLS:

- Programming in C, C++.
- MATLAB
- GNU 8085 Simulator
- Microprocessor
- Digital Signal Processor
- HFSS

LABS HANDLED:

- Basic Electricals and Electronics Laboratory
- Electronics devices Laboratory
- Computer Communication Networks Laboratory
- Digital Signal Processing Laboratory
- Digital Communication Laboratory
- Digital Circuits Laboratory
- Microprocessor and Microcontroller Laboratory

INDUSTRIAL EXPOSURE:

- Undergone In-Plant Training at ALL INDIA RADIO in Karaikal
- Undergone In-Plant Training at BSNL in Karaikal.

INVITED TALK

- Presented a lecture on "**Introduction to ARM LPC2148 and its C programming**" organized by Department of Biomedical Engineering at Perunthalaivar Kamarajar Institute of Engineering and Technology, Karaikal on 4th April 2023.
- Presented a lecture on "**Introduction to ARM processor and Arduino Programming**" organized by Department of ECE, Women's Polytechnic College, Karaikal.

REVIEWER

- Acting as a reviewer on "**2023 International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication (IconSCEPT)**" organized by the Departments of ECE, EEE, and CSE at the National Institute of Technology Puducherry on 25th and 26th May 2023.

WORKSHOP CONDUCTED

- Conducted a workshop on “**How to write an affective patent and research article**” as an organizing committee member on 1/12/2023.

WORKSHOPS AND CONFERENCES:

- Attended Workshop on “**Image Processing**” at SSN in Chennai.
- Attended Workshop on “**Security Issues at Cloud Computing**” at PEC in collaboration with TATA Consultancy Services (TCS) in Pudhucherry.
- Attended Workshop on “**Digital Image Processing**” at PEC in Pudhucherry.
- Attended Workshop on “**Numerical Computational Techniques using MATLAB**” at PEC in Pudhucherry.
- Attended National level workshop on “**mm Wave Antenna Design for 5G – Research Frontiers**”, at K.Ramakrishna College of Engineering, Trichy on 7th and 8th September 2018.
- Attended National Conference on “**Recent Advancements in Nanotechnology**”, at National Institute of Technology Puducherry, Karaikal on 19th and 20th September 2018.
- Attended One Day Workshop on “**Plagiarism, Reference Management tools and Swayam**”, at Perunthalaivar Kamarajar Institute of Engineering and Technology, Karaikal on 13th October 2018.
- Attended International Conference on “**Intelligent Computing and Communication for Smart World**”, at Kongu Engineering College, Erode on 14th and 15th December 2018.
- Attended 6 days workshop on “**Metamaterial applications and Evolutionary Techniques**” organized by the E&ICT Academy, Department of Electronics and Communication Engineering, National Institute of Technology, Warangal from 22nd April 2019 to 27th April 2019.
- Attended one day workshop on “**Theory and Applications of Frequency Selective Surfaces (FSS)**”, organized by Department of Electronics and Communication Engineering, National Institute of Technology, Trichy on 6th July 2019.
- Attended a short term course on International Conference on “**Microwave Integrated Circuits, Photonics and Wireless Networks**” organized by Department of Electronics and Communication Engineering, National Institute of Technology, Trichy on 21st May 2019.
- Rajasri S, Research Scholar, Department of ECE, attended a “**One Week Technical Workshop on Frontiers in RF Communications and Circuit Design**” conducted by Cochin University of Science and Technology from 27th Feb to 4th March, 2020
- Rajasri S, Research Scholar, Department of ECE, attended a “**One week online Faculty Development Program on Antenna Design and Troubleshooting**” organized by Pillai College of Engineering, from 3rd June to 7th June, 2020
- Rajasri S, Research Scholar, Department of ECE, participated the Online Training Program on “**RF and Antenna Design using ANSYS HFSS**” conducted by Entuple Technologies from 4th May to 29th May 2020.
- Rajasri S, Research Scholar, Department of ECE, attended webinar on “**GHz to THz Antenna: Trends Techniques and Next generation requirements in wireless communication**”, Organized by, IEEE MTT and AP-S MUJ Student Branch Chapter, Manipal University, Jaipur on 10th June 2020.
- Rajasri S, Research Scholar, Department of ECE, attended webinar on “**Intellectual Property Rights and Indian Patent Filing Procedure**”, organized by Proudhadavaraya Institute of Technology on 19th June 2020.
- Rajasri S, Research Scholar, Department of ECE, attended webinar on “**Recent Trends and Research Opportunities in 5G and Beyond**”, organized by IE(I), Kattankulathur Local Centre, Department of ECE, SRM Institute of Science and Technology from May 25th to May 27th 2020.
- Rajasri S, Research Scholar, Department of ECE, attended “**Two Days Webinar on 3D EM Simulation Involving CST Software**”, Organized by, Sri Venkateswara College of Engineering, Sriperumbudur on 18.05.2020 and 19.05.2020.

ACHIEVEMENTS:

- Got cleared the GATE exam.
- Got school topper in SSLC.
- Got overall 2nd topper in Bachelor of Technology.
- Got 1st topper in Master of Technology.
- Got 2nd prize in regional level essay competition.
- Got 1st mark in Tamil Manavar Mandra Thervu.

POSITIVE TRAITS:

- Team work skills
- Interpersonal skills
- Strong work ethic
- Organizational skills

LEISURE ACTIVITIES:

- Painting and Crafty works
- Playing Carom and Chess
- Singing Songs

PERSONAL PROFILE:

Name : Rajasri. S
Gender : Female
Father's name : Subbaiyan.K
Date of Birth : 23-07-1991
Nationality : Indian
Languages Known : English, Tamil (read, write) and French (basic).

Research IDs:

| Sl.No | Name | Profile Page | Link/Id |
|-------|-----------|-----------------------|---|
| 1. | Rajasri S | Google Scholar | https://scholar.google.com/citations?user=HZ5WiFsAAA&hl=en |
| | | Research Gate | https://www.researchgate.net/profile/Rajasri_Subbu |
| | | Scopus | 57219398450 |
| | | Orchid | https://orcid.org/0000-0001-7832-8573 |
| | | Microsoft Academic | https://academic.microsoft.com/profile/04h2f61i-94gh-4814-9408-88464f436f41/RajasriS |
| | | IRINS (Govt of India) | https://vidwan.inflibnet.ac.in/profile/168375/MTY4Mzc1 |
| | | Publons.com | https://publons.com/researcher/3964110/rajasri-subbu/ |

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