

Dr. K. Sailakshmi Parvathi

"To work in a institute with a professional work driven environment where I can utilize and apply my research knowledge."

Education

- March 2023 **Ph.D (Technology)**, *Department of Electronics Engineering, K.J. Somaiya College of Engineering,, University of Mumbai, .*
- Dec.,2013 **M.Tech.**, *Department of Electronics and communication Engineering, JNTU, Hyderabad, Division–Distinction.*
- May.,2008 **B.Tech.**, *Department of Electronics and communication Engineering, JNTU, Hyderabad, Division– First Class.*
- May.,2005 **Diploma**, *Department of Electronics and communication Engineering, SBTE, Andhra Pradesh, Division– First Class.*

Additional Skills

High Frequency Structure Simulators

Ansys HFSS, ADS, Scilab, Latex

Additional Softwares

L^AT_EX, Experience of handling with few Computer Engineering based subjects

Experience

- Currently working as **Associate Professor**, *in Department of Electronics and Computer Science, Fr.Conceicao Rodrigues College of Engineering, University of Mumbai.*
- October. 2023- June 2025 **Associate Professor**, *at Department of Artificial Intelligence and Data Science, VPPCOE&VA, University of Mumbai.*
- September 2014- September 2023 **Assistant Professor**, *at Department of Electronics and Telecommunication Engineering, VPPCOE&VA, University of Mumbai(Ref.No: CONCOL/ICD/2015-16/38185).*
- August 2010 - September 2014 **Pro Term Lecturer**, *at Department of Electronics and Telecommunication Engineering, VPPCOE&VA, University of Mumbai.*

Arawali-28, BARC Quarters, Anushakthi Nagar, Mumbai – 400094

☎ (+91) 8976469083 • ✉ ksiparvathi@gmail.com

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Academic/Administrative Responsibility

- Head of Department (Artificial Intelligence and Data Science, From March, 2024 to June 2025 at Vasantdada Patil Pratishthan's College of Engineering and Visual arts.
- Dean Academics, From July, 2017 to October 2024 at Vasantdada Patil Pratishthan's College of Engineering and Visual arts.
- NAAC Co ordinator from 2017 to till date and successfully faced Peer team for cycle-1 and cycle-2 at Vasantdada Patil Pratishthan's College of Engineering and Visual arts
- IQAC Co-coordinator from 2017 to till date at Vasantdada Patil Pratishthan's College of Engineering and Visual arts.
- Management and system Representative for ISO 90001:2008 and ISO 90001:2015 at Vasantdada Patil Pratishthan's College of Engineering and Visual arts.
- Worked as co ordinator for LIC committee for A.Y 2020-21 to A.Y 2022-23 and also convener for Fusion (for 4 academic years), at Vasantdada Patil Pratishthan's College of Engineering and Visual arts.

Publications

- 2020 **K. S. L. Parvathi**, Sudha.R. Gupta, and P. P. Bhavarthe "A Novel Compact Electromagnetic Band Gap Structure to Reduce the Mutual Coupling in Multilayer MIMO Antenna", *Progress In Electromagnetics Research M*, vol. 94, no. 05, pp.167-177, June 2020. (Scopus index Journal).
- 2020 **K. S. L. Parvathi**, Sudha.R. Gupta "Two Layer Meander Strip Line Step via EBG for Mutual Coupling Reduction in Printed MIMO Antenna ", *2021 IEEE International Conference on Communication information and Computing Technology (ICICT), SPIT, Mumbai*.
- 2021 **K. S. L. Parvathi**, Sudha.R. Gupta "Novel Dual Band EBG Structure to Reduce Mutual Coupling of Air gap based MIMO Antenna for 5G Application", *Elsevier Int. J. Electron. Commun. (AEU)*, , vol. 138, Article No. 153902, Aug 2021, (SCI-indexed journal).
- 2021 **K. S. L. Parvathi**, Sudha.R. Gupta "A Novel Multilayer EBG Structure to Reconfigure the Band-Notch of UWB Monopole Printed Antenna", *Progress In Electromagnetics Research C*, , vol. 115, pp.27-40, 2021 (Scopus index Journal).
- 2022 **K. S. L. Parvathi**, Sudha.R. Gupta "Two-channel Dual-band Microwave EBG Sensor for Simultaneous Dielectric Detection of Liquids", *Elsevier Int. J. Electron. Commun. (AEU)*,, vol. 146, Art no.154099, Mar. 2022 (SCI- indexed journal).
- 2022 **K. S. L. Parvathi**, Sudha.R. Gupta "Ultra-High Sensitivity and Compact EBG Based Microwave Sensor for Liquid Characterization", *IEEE sensor letters*,, vol. 06, no. 04, pp.1-4, Apr 2022 (SCI- indexed journal).
- 2024 **K. S. L. Parvathi**, P. P. Bhavarthe and Alam. N. Shaikh "Stack Dual-Band EBG Based Sensor for Dielectric Characterization of Liquids ", *Progress In Electromagnetics Research M*, , vol. 125, pp.97-105, 2024(Scopus index Journal) .

- 2025 **K. S. L. Parvathi**, *Tulshidas R. Mane, Reena Sonkusare P. P. Bhavarthe and K.S.L. Parvathi* "A Novel Machine Learning Supported Compact, High Sensitivity EBG Based Microwave Sensor For Dielectric Characterization of Liquids. ", Under Review, (Scopus index Journal) .

Utility Patent

- 2025 **Tulshidas R. Mane, Reena Sonkusare P. P. Bhavarthe and K.S.L. Parvathi**, ,, "Design and development of EBG based differential microwave sensor for dielectric characterization of liquids ", Indian Patent Application No.202521058887., (In Process).

Award on Research Work

- 2021 **K. S. L. Parvathi**, *Sudha.R. Gupta* "Reduction of Mutual Coupling in MIMO Printed Antenna using Multilayer EBG Structure",2021 IEEE International Conference on Communication information and Computing Technology (ICICT), SPIT, Mumbai, Secured 1st Prize for Best Paper Presentation..

Research Grant

- 2017-18 **University of Mumbai, Minor Research Grant**, Rs. 24,000/- *Project No.-S-16 "Design of Microstrip antenna for 5G Application", Principal Investigator:- K.Sailakshmi (Ref.no. APD/237/323 of 2018) .*
- 2021-22 **Nexus Technocrafts Automation & Solution PVT. Ltd,Research Grant**, Rs. 29,450/- *"Design of UWB antenna fot IOT Application.", Principal Investigator:- K.Sailakshmi .*
- 2021-22 **Nexus Technocrafts Automation & Solution PVT. Ltd,Research Grant**, Rs. 1,16,859/- *"To develop a home automation module.", Principal Investigator:- K.Sailakshmi .*
- 2024-25 **AURA ,Research Grant from AICTE** , Rs. 2,00000/- *"for utilization of ISTEM resources.", Principal Investigator:- K.Sailakshmi .*

Trainings and work shops attended

- 2014-15 **Attended ISTE approved Two weeks short term training program on " open source software tools for engineering curriculum & NS-2" , At PVPPCOE&VA.**
- 2016-17 **Attended AICTE & ISTE approved short term training program on "Next generation Networks" , At PVPPCOE&VA.**
- 2016-17 **Attended ISTE & IETE approved short term training program on " Internet Of Things" , At PVPPCOE&VA.**
- 2016-17 **Attended IETE approved workshop on " Basics & Recent Trends in Electronics Based Laboratories" , At PVPPCOE&VA.**
- 2017-18 **Attended AICTE & ISTE approved one week national level faculty development program on " Research methodology, Research proposal writing and hands on training in Latex" , At PVPPCOE&VA.**

- 2017-18 **Attended AICTE & ISTE approved short term training program on "Internet of Things" , At PVPPCOE&VA.**
- 2018-19 **Attended NAAC Sponsored symposium " Measures for Quality Enrichment and Sustenance in Higher Education Institutions" Conducted by IQAC , At University of Mumbai.**
- 2018-19 **Attended ISTE & IETE approved short term training program on " Internet Of Things" , At PVPPCOE&VA.**
- 2018-19 **Attended AICTE & ISTE approved one week training program on " Industrial ToT System design from Sensing to Mitigation" , At K.J. Somaiya College of Engineering.**
- 2020-21 **Completed The two months online training on "3D Computer Aided Design for product development using PTC Creo" , at Santi Software Serices LLP.**
- 2020-21 **Completed two weeks online Technical Education Quality Improvement Programme , at Osmania University, Hyderabad.**
- 2021-22 **Attended online ATAI FDP on "Artificial Intelligence and Machine Learning with Data Science" , organised by Babasaheb Naik College of Engineering.**

Webinars attended

- 2019-20 **Attended Webinar on" Antenna design through simulation using TaraNG 19.1" , organised by IEEE MTT-S Kerala Section in association with NUMEREGION TECHNOLOGY.**
- 2020-21 **Attended Webinar on"Research Paper Writing and Publication " , organised by VPPCOE&VA.**
- 2020-21 **Attended Webinar on" Artificial Intelligence" , Organised by KJ Somaiya Institute of Engineering and Information technology.**
- 2020-21 **Attended Webinar on"Innovation in Teaching & Learning Approaches" , Organised by ICFAI Business School, Mumbai.**

Invited Reviewer

- Progress In Electromagnetics Research Journal

Expertise in subjects

- Microwave Devices & Circuits
- Meta-materials
- Signals and System

Personal Skills

- Quick Learner.
- Creating Ideas: Creativity.
- Can manage time effectively

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☎ (+91) 8976469083 • ✉ kslparvathi@gmail.com

Declaration

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned

Date:

Place:

Dr. K. Sailakshmi Parvathi