

MITHA M

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Career Objective

Research-driven and passionate about teaching with 6 years of teaching and 5 years of research experience and seeking an Assistant Professor position to contribute to high-quality teaching, curriculum development and impactful research.

Educational Qualifications

Degree	Institution	Year	Class	Specialization
Ph.D. (Pursuing)	University of Mysore	2020-present	-	5G Antenna
M.Tech	MCE (VTU)	2018	FCD	DECS

Additional Qualification: GATE 2015, NET 2018

Areas of Interest / Specialization

- Computer Networks, Optical Fibre Communication, CMOS VLSI, Digital Communication, Signals and systems
 - 5G Microstrip Patch Antenna design using HFSS
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Teaching Experience

Designation	Institution	Duration	Level of responsibility
Guest Faculty	University of Mysore	2 years	PG (M.Sc Electronics)
Lecturer	Adichunchanagiri Polytechnic, Chikkamagaluru	10 months	Diploma (EC)
Asst. Lecturer	M H Institute of Management Sciences, Ramanagara	3 years	UG (BCA)

Research Experience

- **Topic:** The Characteristics Enhancement of Microstrip Patch Antenna at Sub-6 GHz for 5G Technology
- **Supervisor:** Dr. Halappa R Gajera, Professor, University of Mysore
- **Summary:** Designed an Efficient 5G Parasitic Patch Antenna for Small Cell Outdoor Environment and enhanced its performance parameters using slotting and defected ground structure technique using HFSS simulation software and then the prototypes are fabricated and measured to validate the results.

Publications (Journals / Conferences)

1. Mitha M, Gajera, Halappa R. and Sapna, B. A. "An efficient 5G patch antenna for small cell outdoor environment" *Frequenz*, Nov. 2025.
2. M. Mitha, R. Gajera. Halappa and D. Shashikumar, "Next Generation Microstrip Patch Antennas at Sub-6 GHz for 5G Applications: A Comprehensive Review," in **Proceedings of the International Conference on Intelligent Systems for Sustainable Future**, Christ Deemed to be University Bangalore, India, March. 2025.
3. M. Mitha, "High Gain Co-Planar Parastic Patch Antenna Design for 5G Sub-6 GHz Applications," in **Multidisciplinary Journal for Applied Research in Engineering and Technology**, vol. 4, pp. 01-04, June. 2024.
4. C. L. Triveni, M. Mitha, T Srinivas, Preetha Sharan and P. C Srikanth, "Real Time Implementation of Multimedia Traffic using MUX in Optical Networks," in **Proceedings of the International Conference on Fiber Optics and Photonics**, IIT Delhi, India, Dec. 2018.
5. M. Mitha and C. L Triveni, "A Review on BSNL's Next Generation Networks," in **International Conference on Innovative Mechanism for Industry Applications**, IISC Bangalore, India, 2017.

Certifications (FDPs / Workshops)

- ATAL FDP on Exploring the Patch to 6G: Unleashing the Potential beyond 5G, NIE Mysore, 2024
- ATAL FDP on Research Challenges in 5G/6G Wireless Communication and Applications, KIT Coimbatore, 2023
- AICTE FDP on 5G Challenges, BMSIT Bangalore, 2022

Technical Skills / Tools

- Programming: MATLAB, LabVIEW
- Software: Ansys HFSS, AutoCAD, DipTrace, Draftsight

- Tools: Origin Pro
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Research Grants

- **Title:** The Characteristics Enhancement of Microstrip Patch Antenna at Sub-6 GHz for 5G Technology
 - **Role:** Full Time Scholar
 - **Funded by:** University of Mysore
 - **Amount:** ₹18L
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Professional Membership

- IEEE
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