













# FACULTY OF ENGINEERING & TECHNOLOGY (EXCLUSIVELY FOR WOMEN) DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### **Personal Details**

Name: Mrs. Vishalakshi Patil

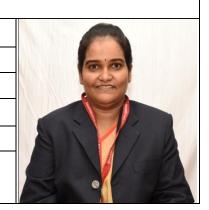
**Designation: Asst. Prof.** 

**Department: Electronics and Communication Engineering** 

**College Address: FETW,SUK** 

Contact: 7760546999

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### **Areas of Interest**

### **Wireless Communication, Signal Processing**

Subjects	Subjects Taught				
UG	PG				
Information Theory and Coding	Advanced Digital Communication.				
2. Control Systems	2. RF and Microwave Circuit Design				
3. Optical Fiber Communication					
4. wireless Cellular and LTE 4G Broadband					
<ol><li>Microwave and Radar</li></ol>					
6. Antenna and Wave Propagation	3. Operation Research				
7. Analog Communication	4. Advanced Engineering Mathematics				
8. Digital Communication					
9. Electronic Instrumentation					
10. Sensors and Actuators					
11. Logic design and Computer Organization					
12. Network Analysis	5. Modeling and Simulation of Data Networks				
13. Analog and Digital Communication					
14. Linear IC's and Its Application					
15. Analog Circuits					

	Academic Background					
Degree	Specialization	Name of The Instit ute	Universit y	Month and Year of Passing		
Ph.D	Wireless Communication	PDA College of Engineering Kalaburgi	VTU Belagavi	Pursuing		















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	Systems	PDA College of Engineering Kalaburgi	VTU Belagavi	October 2013
UG	Communication Engineering	PDA College of Engineering Kalaburgi	VTU Belagavi	2011

Work Experience							
Name of the Institution Position		sition	From		To		
FETW, SUK		Asst. Prof.		01/08/2019		Till dated	
Godutai Engineerin College for Women Kalaburgi	_	Asst. Prof.		01/08/2	2013	01/07/2019	
Total Experience	12 Years	Teaching	12 Years	Research	4 Years	Administration	

Research Publications					
Total	International Journal	National Journal	International Conference	National Conference	Total
Number of Publications	7	1			8

### **Recent Publications(Journals)**

- 1. "A Taxonomy on Power Optimization Techniques for Fifth Generation Heterogenous Non Orthogonal Multiple Access Networks" International Journal of Electrical and Computer Engineering 2024
- 3. "Enhanced Baby Monitoring: IoT-driven Smart Cradle System" International Research Journal of Engineering and Technology (IRJET) 2023
- 3. "A Survey on PAPR Reduction Techniques for Multipath Fading Channel" Journal of Fundamental and Comparative Research 2022
- 4. "PAPR Reduction by Using DCT and IDCT Techniques" IJSDR 2022
- 5. "A consolidated PAPR-Decrease Method for Unevenly Cut Optical OFDM Framework" International Journal of Information Technology and Electrical Engineering 2021















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- 6. "SC-FDMA using Enhanced PAPR Spatial Modulation" International Journal of Information Technology and Electrical Engineering 2021
- 7. "Low-PAPR Spatial Modulation for SC-FDMA" International Journal of Information Technology and Electrical Engineering 2020
- 8. "Enhanced OFDM –NOMA for Next Generation Wireless Communication" International Journal of Information Technology and Electrical Engineering 2020

	Memberships in Professional Bodies				
Sl.No.	Name of the Professional Body				
1.	IETE (Membership No-M-503235)				
2.	IAENG (Membership No-M- 316019)				

	Programs Organized
1.	Technical talk on Emerging trends and Opportunities in VLSI domain by Mr. Vijay Kumar , Senior AMS Layout Engineer, Synopsis Private Ltd.

Sl.No.	Training Programmes Attended
1.	5 Days Online FDP on "Next Generation Technologies on Information and Communication"
2.	5-Day Online Faculty Development Program on "APPLICATIONS OF AI/ML in POWER SYSTEMS & ELECTRIC VEHICLES"
	A one week National FDP on "Recent Advances in Electronics and Communication Engineering- An Approach through AI and ML"
4.	5 Day FDP on "Recent Advancements In Electric Vehicle Technology"
5.	One week FDP on "Recent Trends in Machine Learning for Artificial Intelligence"
6.	5-Days FDP on "Advanced Applications of Robotics and IOT"
7.	6-Days FDP on "Emerging Advancement of Wireless Communication and Applications of Power Electronics in Smart grid System"
8.	5-Days FDP on "Cognitive Radio, Antennas and Millimetre Wave Communication"















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9.	6-Days AICTE-ISTE Induction/Refresher program on "Next Generation Wireless Communication: 5G and Its implementation"
10.	5-Days FDP on "Blockchain"
11.	5-Days FDP on "PCB Design using Autodesk® Fusion 360 <sup>TM</sup>
12.	5-Days FDP on "Cognitive Radio, Antennas and Millimetre Wave Communication"
13.	5-Days FDP on "Modern Simulation Techniques for Engineering Research"
14.	6-Days FDP on "Emerging Advancement of Wireless Communication and Applications of Power Electronics in Smart grid System"
15.	Workshop on "Machine Learning and its Applications-Hands on with python"
16.	One week workshop on "Advanced Techniques for simulation of wireless networks"
17.	Workshop on Wireless Modules
18.	Two Days regional level workshop on current and future research trends in wired and wireless networks

	Special Lectures Presented
1.	
2.	
3.	

	Role & Responsibilities
1.	Salary Coordinator, M.Tech. Internship Coordinator, M.Tech. IA Coordinator, AISHE Coordinator, NRIF Coordinator