Dr. SUCHITRA V

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              Department of Electronics & Telecommunication Engg.,
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Education

Sl. No.	Degree	Year	Institute	Specialization
1	Ph.D	2025	National Institute of Technology Karnataka, Surathkal	Nano Photonics Biosensors
2	M.Tech	2013	Acharya Institute of Technology, Bangalore	Digital Communication
3	B.E	2011	Basaveshwara Engineering College, Bagalkot	Electronics & Communication Engineering

Professional Experience

Sl. No.	Date (from-to)	Designation	Organization
1	22 July 2015 to till date	Assistant Professor	Siddaganga Institute of Technology, Tumkur
2	1 August 2014 to 20 July 2015	Assistant Professor	Proudhadevaraya Institute of Technology, Hospet

Positions held

- Certified Cisco CCNA trainer
- Coordinator for Research Activity, Placement, Time Table, NBA criteria 4, Teleblitz Magazine in Dept. of ETE
- Technisium, Spandana and Halcyon Event coordinator

Affiliations of Professional organizations

- IEEE Professional Member till date
- IEEE Photonics Society Member till date

Undergraduate Courses
- Antennas
- Telecommunication Switching Systems & OSS
- Multimedia Communication
- Telecommunication Switching Systems
- Network Analysis
- Telecommunication Switching Systems & Network Architecture
- Data Communication and Networking
- Analog and Digital Communication
- Universal Human Values
- Indian Knowledge System

Postgraduate Courses
- Wireless & Mobile Networks

Research Areas
- Integrated Photonics, Optics, Plasmonic Biosensor Design,
- Data Communication and Networking
- Networking protocols implementation using NS-2

Publications

Journals
- Vandana, Suchitra V, "Implementation of Cloning in MANETS", International Journal of Computer Science and Technology (IJCST), Vol. 11, Issue 2, ISSN : 0976-8491 (Online) | ISSN : 2229-4333 (Print), April - June 2020
- Priya Darshini, Suchitra V, "A Survey on Various Wireless Indoor Localization Techniques and Technologies", International Journal of Computer Science and Technology (IJCST), Vol. 11, Issue 2, ISSN : 0976-8491 (Online) | ISSN : 2229-4333 (Print), April - June 2020
- Priya Darshini, Suchitra V, "Localization of Indoor Mobile Networking" , International Journal of Engineering Research & Technology (IJERT),Vol.8,Issue 14,Special Issue-2020,ISSN : 2278-0181
- Vandana, Suchitra V, "Performance Analysis of Blackhole attack in MANETs" , International Journal of Engineering Research & Technology (IJERT),Vol.8,Issue 14,Special Issue-2020,ISSN : 2278-0181

- Aditya Prasanna Murthy, Amrutha M, Shilpa G S, Suchitra V, K C Narasimhamurthy, "Analog to Digital Converter Experiment in Remote Laboratory", International Journal of Engineering Research & Technology (IJERT), Vol.8,Issue 11, Special Issue-2020 ISSN: 2278-0181
- Shweta Mehta, Suchitra Vankalkunti, Pawan Kumar Kachhap, Prakash Ratan Gautam, Mandeep Singh, "Sensitivity improvement of photonic crystal refractive index sensor using porous silicon nano rods", Materials Science in Semiconductor Processing, Volume165,107687, ISSN1369- 8001, June-2023.
- Suchitra Vankalkunti, Mandeep Singh, "Plasmonic Biosensor for DNA Hybridization Using Integrated Graphene-Porous Silicon Waveguide," IEEE Sensors Journal, vol. 23, no. 23, pp. 28797-28804, Dec.2023.
- Suchitra Vankalkunti, Nikhil Kumar Singh and Mandeep Singh, "Hybrid Plasmonic Circular Aperture Waveguide for Blood Glucose Sensing," IEEE Sensors Journal, vol. 24, no. 15, pp. 23746-23753, Aug.2024.

Conference Proceedings
- Manjunath R C, Manjunath H R ,Suchitra V, "A Randomised, Efficient, and Distributed Protocol for Detection of Node Replication in Wireless Sensor Networks", second International conference on Recent Trends in Computer Science and Engineering (ICRTCS) & International conference on Electronics and Communication Engineering (ICECE) organized by Bangalore International Research and Development India (IRD), May 2013.
- Manohar B N and Suchitra V, "Establishing congregate based authentic node security in mobile adhoc network.", National conference on Signal Processing, Information and Communication engineering (SPICE-Coimbatore), Dept. Of ECE, VVIET, Mysuru, 18 -19 April 2016.
- Manohar B N and Suchitra V, "Enhancement of node authentication and security in mobile Ad-hoc network." IFERP International Conference on Signal processing Communication and Computational Research (ICSPCCR - Mysore), ISBN 9788192958041, May 2016.
- Chandrashekar, N.K., Muddappa, A., Shivakumar, B.T., Abhinandana, V.T. and Vankalkunti, S., "Poster: Efficient Analysis of Frequency Demodulation in Remote Laboratory", 2021. In Visions and Concepts for Education 4.0: Proceedings of the 9th International Conference on Interactive Collaborative and Blended Learning (ICBL2020) (pp. 362-369). Springer International Publishing. https://doi.org/10.1007/978-3-030-67209-6_39
- Mulamuttal, Karthik Baburao, Komal Kattigenahally Nagaraj, Gangadharan V. Kalluvalappil, Pruthvi Raj, Narasimhamurthy Kyathsandra Chandrashekar, and Suchitra Vankalkunti, "Simulation on Motion of a Trebuchet". In Online Engineering and Society 4.0: Proceedings of the 18th International Conference on Remote Engineering and Virtual Instrumentation, pp. 87-93. Springer International Publishing, 2022. https://doi.org/10.1007/978-3-030-82529-4_9

- Narasimhamurthy, Kyathsandra Chandrashekar, Vankalakunti Suchitra, Tumakuru Prasanna Sushma, Satish Kumar Kavana, Ramesh Kumar Deepashree, and Krishnagiri Sanna siddappa Harshitha, "Remote Laboratory to Develop Hardware for IoT Applications",. In International Conference on Remote Engineering and Virtual Instrumentation, pp. 125-132. Cham: Springer International Publishing, 2022. https://doi.org/10.1007/978-3-031-17091-1_13
- Chandrashekar, Kyathsandra Narasimhamurthy, Susheen Srivatsa Chelur Nataraja, Bharath Gangarpu Chandrasekhar, Adithya Prasanna, and Suchitra Vankalkunti, "Automated Testing for Sustainable Remote Laboratory System",. In Online Engineering and Society 4.0: Proceedings of the 18th International Conference on Remote Engineering and Virtual Instrumentation, pp. 55-65. Springer International Publishing, 2022.https://doi.org/10.1007/978-3-030-82529-4_6
- Santosh Kumar Sahu, Anushka Khanna, Suchitra Vankalkunti, and Mandeep Singh, "Optimization of Indium Tin Oxide-Based All-Optical Switch Using Finite Element Method," AIP Conference Proceedings, 3149, 050001-1 – 050001-7, Aug.2024.

Editor/ Reviewer of Journal

- Springer Nature- Discover Electronics (Reviewer)
- Springer Nature- Scientific Reports (Reviewer)
- Miscrosoft CMT- Conferences (Reviewer)