

## CURRICULUM-VITAE

**Dr. Vinith Chauhan**  
Associate Professor  
Electronics and Communication Engineering Department  
College of Technology, Sardar Vallabhbhai Patel  
University of Agriculture and Technology  
Meerut, UP, 250110



### Professional Experience:

- (1). Currently working as Associate Professor, E&CE in SVPUAT, Meerut, Uttar Pradesh from 22 June 2024 to till date.
- (2). Worked as Lecturer, Electronics Engg. in Deptt. of Technical Education, Uttar Pradesh from 11 November 2016 to 21 June 2024.
- (3) Worked as Assistant Professor, E&CE in St. Margaret Engg. College, Neemrana, Alwar, Rajasthan from 21 September 2004 to 10 November 2016.

### Professional Qualification:

- (1). Ph.D from NIT, Hamirpur
- (2). Master of Technology in Digital Communication from Rajasthan Technical University, Kota
- (3). Master of Business Administration (specialization in Operation Management) from IGNOU, New Delhi
- (4). Bachelor of Engg. in Electronics and Communication Engg. from Gulbarga University
- (5). Qualified UGC NET in Electronics Science

### Books Published:

- (1). Microwave Engineering-I, CBC publication, Jaipur.
- (2). Microwave Engineering-II, CBC publication, Jaipur.
- (3). Microwave and Radar Engineering, Laxmi publication, New Delhi.
- (4). Digital Electronics, Bharat bharti publication, Meerut.
- (5). Basic Electronics and Electrical Engineering, Bharat bharti publication, Meerut.

### Papers Published in International Journal:

1. Vinith Chauhan and Surender Soni, "Energy aware unequal clustering algorithm with multi-hop routing via low degree relay nodes for wireless sensor networks", Journal of Ambient Intelligence and Humanized Computing, vol- 2, pp. 2469–2482, 2021,ISSN 1868-5145, Impact factor 7.104.
2. Vinith Chauhan and Surender Soni, "Mobile sink-based energy efficient cluster head selection strategy for wireless sensor networks, Journal of Ambient Intelligence and Humanized Computing", vol-11, pp. 4453-4466, 2020, ISSN 1868-5145, Impact factor 7.104.
3. Vinith Chauhan and Surender Soni, "Load balanced energy efficient cluster-chain based hybrid protocol for wireless sensor networks", International Journal of Recent Technology and Engineering, vol-8, Issue-3, 2019, ISSN 2277-3878, Impact factor 1.13.

4. Rohit Gupta, Prveen Kumar and Vinith Chauhan, "Firefly algorithm inspired energy aware uneven clustering strategy for wireless sensor networks", International Journal of Electrical Engineering and Technology, vol. 11, Issue 5, pp. 237-251, July 2020, ISSN 0976-6545, Impact factor 1.198.
5. Vinith Chauhan and Surender Soni, "Variable duty cycle aware energy efficient clustering strategy for wireless sensor networks", Journal of Ambient Intelligence and Humanized Computing, vol 14, pp. 10963–10975, 2023, ISSN 1868-5145, Impact factor 7.104.
6. Vinith Chauhan and Dinesh Sharma, "Comparative analysis of propagation path loss models with field measured data", International Journal of Electronics, Electrical and Computational System, Vol. 4, Special Issue March, pp.73-82, 2015, ISSN 2348-117X, Impact factor 2.04.
7. Vinith Chauhan and Alka Yadav, "Study of different Wimax QoS scheduling algorithms", International Journal of Engineering Applied Sciences and Technology, vol.1, Issue 9, pp. 162-169, 2016 ISSN 2455-2143, Impact factor 4.982.
8. Pooja Rani, Vinith Chauhan and Sudhir Kumar, "A review on wireless propagation model", International Journal of Engineering and Innovative Technology, vol. 3, Issue 11, pp. 256-262, 2014 ISSN 2277-3754, Impact factor 1.158.
9. Alka Yadav and Vinith Chauhan, "Comparative delay analysis between priority control scheme and modified priority control scheme", International Journal of Engineering Applied Sciences and Technology, vol. 1, Issue 9, pp. 156-161, 2016, ISSN 2455-2143, Impact factor 4.982.
10. Vinith Chauhan, Neha Goel and Krishna Mohan Rai, "Study of 5 Level DWT and comparative performance analysis of digital video watermarking techniques using 3-L-DWT and 5-L- DWT", International Journal of Engineering and Technical Research, vol.-3, Issue-7, pp. 332-338, 2015, ISSN 2321-0869, Impact factor 2.19.
11. Omveer and Vinith Chauhan, "A prominent analysis on head phantom image using correlation coefficient", International Journal of Scientific and Research Publications, vol. 4, Issue 1, pp. 1-6, 2014 ISSN 2250-315, Impact factor 1.13.
12. Manoj Pandey, Vinith Chauhan, Pradeep Kumar Nathaney and Shashank Kumar, "Analysis of self tuning fuzzy PID internal model control", International Journal of Management, IT and Engineering, vol. 2, Issue 8, pp. 415-429, 2012, ISSN 2249-0558, Impact factor 0.987.
13. Vinith Chauhan, Raviraj Srikrishna and Pradeep Nathany, "Increment in lifetime of wireless sensor networks using simulations in load balancing routing algorithm", International Journal for Research in Applied Science & Engineering Technology, vol. 2, Issue XII, pp. 456-461, 2014, ISSN 2321-9653, Impact factor 1.295.
14. Rohit Gupta, Parveen Kumar, Vinith Chauhan and Yogesh Bhomia, "A survey on energy efficient strategies for heterogeneous wireless sensor networks", Grenze International Journal of Engineering and Technology, Jan issue, pp. 694-704, 2022, ISSN 2395-5287, Impact factor 1.412.
15. Shilpa Gupta, Vinith Chauhan and Rohit Gupta, "A survey on underwater wireless communication", International Journal of Engineering Applied Sciences and Technology, vol. 1, issue 6, pp. 205-208, 2016, ISSN 2455-2143, Impact factor 4.982.
16. Vinith Chauhan, Mukesh Kumar Tripathi and Pradeep Kumar Nathaney, "A review on multiple Watermarking techniques in digital photography for Image authentication and encryption", International

Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, vol. 3, issue 7, pp. 2321 –2004, 2015, ISSN 2321-2004, Impact factor 2.021.

17. Sunil Kumar, Vinith Chauhan and Krishna Mohan Rai, “A survey study on zone and energy based clustering routing protocol for mobile adhoc networks”, International Journal of Advanced Engineering Research and Science, vol-2, Issue-2, pp. 41-48, 2015, ISSN 2349-6495, Impact factor 3.556.

18. Rohit Gupta and Vinith Chauhan. Energy Aware Competition Based Unequal Clustering protocol for wireless sensor networks”, Journal of Computational and Cognitive Engineering, vol-112, Issue-4, pp. 2611-2641, 2023, ISSN 2785-6095, Impact factor 1.42.

19. Harman Devansh, Priyanka Dham, and Vinith Chauhan, Pradeep Kumar Nathaney, “Cloud computing: The way ahead”, International Journal of Mobile & Adhoc Network, vol. 2, issue ,2, pp. 334-339, 2012, ISSN 2231-6825 Impact factor 1.34.

20. Vinith Chauhan, Pradeep Kumar Nathaney, Manoj Pandey and Krishna Mohan Rai, “A novel approach to video compression technique using variable block size in motion estimation process”, International Journal of Electronics and Computer Science Engineering, vol.1, issue 3, pp.1321-1327, ISSN 2277-1956 Impact factor 0.765.

21. Rohit Gupta, Parveen Kumar and Vinith Chauhan, “Energy aware unequal clustering mechanism for heterogeneous wireless sensor networks”, International Journal of Advanced Research in Engineering and Technology, vol. 11, issue 11, pp. 2428-2445, 2020, ISSN 0976-6480, Impact factor 1.31.

22. Rohit Gupta and Vinith Chauhan “Energy aware competition-based unequal clustering protocol for wireless sensor networks”, Journal of Computational and Cognitive Engineering, vol. 3, issue 2, pp. 24-42, 2024.

## **Papers Published and Presented in Conferences:**

### **International**

1. “Energy Aware Load Balancing Strategy for wireless sensor networks”, International Multidisciplinary Conference on Current Research Trends-2020 (IMCCRT-2020) Virtual International Multidisciplinary Conference on Current Research Trends-2020, 19- 20 Sept. 2020, International Institute Of Knowledge and Research.

2. “A Survey on Energy Efficient Unequal Clustering Protocols for Wireless Sensor Networks”, 2nd International Conference on Emerging Trends in Multi-Disciplinary Research 2nd International Conference on Emerging Trends in Multi-Disciplinary Research, 28-30 June 2021, Poornima University Jaipur.

3. “Implementation of Clustering in Load Balancing Routing Algorithm to Increase the Lifetime of Wireless Sensor Networks”, 3rd International Conference on "Computing For Sustainable Global Development", 16-18 March 2016, Bharati Vidyapeeth Deemed University, New Delhi.

4. “Survey on Energy Efficient Strategies for Heterogeneous Wireless Sensor Networks”, AICTE Sponsored International Conference on Emerging Trends in Communication and Networking, 22-23 October 2021, Kongunadu College of Engineering and Technology, Tholurpatti, Tamil Nadu.

5. “Comparative Analysis of Propagation Path loss Models with Field Measured Data”, International Conference on Emerging Trends of Engineering, Science, Management and its applications, 01 March 2015, Academic Science, New Delhi.

## **National**

1. “Smart Antenna System: Features and Benefits”, National conference on Technological Innovation National conference on Technological Innovation, 11-12 Oct 2008, BRCM College of Engineering & Technology, Bhiwani, Haryana.
2. “Survey on Mobile Communication Generations: 1G to 5G”, UGC sponsored National Seminar on Wireless Communication and Networks, 24 -25 March 2015, Shri Mata Vaishno Devi University, Jammu.
3. “Wireless Sensor Network: Applications and Future Aspects”, National Conference on Recent Advances in Microwave Tubes, Devices and Communication Systems, 4-5 March 2011, JNIT, Jaipur, Rajasthan.
4. “Survey of WPAN Technologies: Zigbee, Bluetooth, and Wibree”, National Conference on Microwave, Antenna & Signal Processing, 22-23 April 2011, ITS Engineering College, Noida, U.P.
5. “Nanosensors: Types, application and future aspects”, National Conference on Microwave, Antenna & Signal Processing, 22-23 April 2011 ITS Engineering College, Noida, U.P.
6. “Performance Comparison of MAC Protocols over satellite Networks”, All India Seminar on Recent Developments in Electronics and Communication All India Seminar on Recent Developments in Electronics and Communication, 6-7 April 2013, The Institution of Engineers (India).
7. “An Efficient and Promising Platform for Real-time Image Processing Applications”, All India Seminar on Recent Developments in Electronics and Communication, All India Seminar on Recent Developments in Electronics and Communication, 6-7 April 2013, The Institution of Engineers (India).

## **Membership of Scientific and Professional Societies:**

- Member of IE (I).
- Member of Society of Digital Information and Wireless Communications (SDIWC).
- Member of International Association of Engineers (IAENG).
- Member of Universal Association of Computer and Electronics Engineers (UACEE).

## **Member of Editorial Boards:**

- International Journal of Electronics and Computer Science Engineering (IJECSE).
- International Journal of Advance Research in Computer and Communication Engineering (IJARCCE).
- International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE).

## **Subject Taught at PG Level:**

Mobile Communication, High Frequency Engineering, Digital Signal Processing.

## **Subject Taught at UG Level:**

Microwave Engineering, Wireless Communication, Signals and Systems, Digital Electronics, Digital Signal Processing.

**Project and Dissertation Supervision:**

- Ph. D Dissertation: 03
- M. Tech. Dissertation: 04

**Place: Meerut**



**(Dr. Vinith Chauhan)**