



### 1. Name: Dr. (Mrs.)Vimlesh Singh

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### 2. Education

- **Ph. D:** “Design and Analysis of Microstripline Fractal Shape Antenna”. Electronics & Communication Engineering Department, Shri Jagdish Prashad Jhabermal Tibrewala University Jhunjhnu, Rajasthan, INDIA, April 2016.
- **Master of Technology:** Digital Communication, Uttar Pradesh Technical University, Lucknow, INDIA, 2009.
- **Bachelor of Engineering:** Electronics & Telecommunication Engineering, KNMIET Modinagar, CCS University, INDIA, 2001.

### 3. Experience: 19.8 years

#### 4.Academic experience

- Manav Rachna International University (**NAAC A Grade**) FET, Faridabad, Haryana, India. Associate Professor in ECE department (July 2014 till date) Full Time; Assistant Professor in ECE department (July 2009- June 2014) Full Time; Lecturer in ECE department (Feb 2008 –June 2009) Full Time
- Institute of Engineering & Technology, Bundelkhand University, Jhansi, Uttar Pradesh, India, Lecturer in ECE department (March 2003- Jan 2008) Full Time
- Government Girls Polytechnic Jhansi, Uttar Pradesh, India, Guest Lecturer in ECE department (Sept 2002- Feb 2003) Part-Time

#### 5.Non-academic experience

- Sushila Cement, Jhansi, Uttar Pradesh, India, Service Engineer (Aug 2001- Aug 2002) Full Time

#### 6. Special Achievements: Best paper in SOCTA 2017, Bundelkhand University Jhansi.

#### 7. Certifications or professional registrations

- Corporate Member of The Institution of Engineers, Calcutta (M-158113-3)

#### 8. Current membership in professional organizations

- Life member of The Indian Society for Technical Education (LM 115858)
- Corporate Member of The Institution of Engineers, Calcutta (M-158113-3)
- Corporate Member of IETE (F-502779)
- Membership of the International Association of Engineers (MIAE-184473)
- Membership of Global Initiative of Academic Network(MHRD) -2015150544959
- Remote Centre Coordinator for E & ICT based training program for faculty at MNIT Jaipur

#### 9. Service activities (within and outside of the institution)

- M.Tech Dissertation Guided: 08
- Coordinator for various Department club Event & IEI & ISTE event.

- Member University Admission team (Counseling, MRNAT, Physical Counseling) from last 4Year to tile now.
- Mentor for Induction Program at university level.
- Member BOS & DRC at department level.
- Overall Attendance Coordinator of Department.
- Overall Summer Class Coordinator of Department.
- Mentor, Lab Coordinator, Subject coordinator.
- Member of Institute level evaluation.
- Member flying squad for End Semester December exam 2017.
- Serving as Deputy Exam superintendent for internal Examination & End semester University Exam.
- Member Gender Champion cell at Institute level.
- External Examiner for M.Tech project evaluation at MITS Gwalior.
- Attended & Presented various research papers in National Conference, International Conferences and journals.
- Organized & Attended various seminars, workshops and faculty development program at department level.
- Member department core team during NBA,NACC & UGC Visit in campus.
- Member of University core team for state Pre-Medical Entrance Exam in year of 2004 for Bundelkhand University Jhansi.
- Member of University core team for Physical Counseling from 2003 to 2007 for Bundelkhand University Jhansi.
- Member of BOS of Institute of Engineering & Technology, Bundelkhand University Jhansi.

#### **10. Book Chapter under publications**

Chapter Titled “Wearable Antenna Materials” accepted for publication in Book “Design and Optimization of Sensors and Antennas for Wearable Devices: Emerging Research and Opportunities” under IGI Global, USA publication in 2019. Scopus Indexed.

<https://www.igi-global.com/chapter/wearable-antenna-materials/235788>

Chapter Titled “Multiband Fractal Antenna with DGS” accepted for publication in Book “Smart Antenna” under Springer book series publication in 2021. Scopus Indexed.

<https://www.springer.com/in/book/9783030766351#aboutBook>

Chapter Titled “Application of Microstrip Antenna in IoT accepted for publication in Book “Smart Antenna” under Springer book series publication in 2021. Scopus Indexed.

<https://www.springer.com/in/book/9783030766351#aboutBook>

#### **11. Project Completed**

Minor research project completed for CL educator of 80,000 grant on Early breast cancer detection in 2016.

12. Mentor for Startup RF energy Harvester for same 2.5Lac Grant received from IEDC Cell of MRIIRS.

#### **• Publications In Journals**

- Design of THz Low Pass Filter Using Split-Ring Resonators Joy Singh, Sudhanshu Kumar Jha, Vimlesh Singh, YK Awasthi in Journal Optik, 2021. SCI Indexed Journal
- Human Body Monitoring Wearable Antenna, Vani Sadadiwala, Kashish Mahindroo, Vimlesh Singh, Priyanka Bansal, Sarthak Singhal book Optical and Wireless Technologies, pp.151-161, September 2021, Scopus Indexed
- Modern Agriculture Practices: Microwave Solution, Vimlesh Singh, Priyanka Bansal, Sunita Verma, Sarthak Singhal, PK Singhal, in journal Plant Archives, vol.20, Issue 2, pp.4062-4065, 2020.
- An Anarchy Prevention Device: a Quadcopter, Sujeet Kumar Soni, Ayush Kumar, Vimlesh Singh, Priyanka Bansal, Mohit Verma in Journal of Science and Technology, vol.12, Issue 42, pp.1-6, 2019. Web of Science Indexed.
- Intelligent Pollution Mask: a Lifesaving Device, Dhruv Sharma, R Jahnavi, Vimlesh Singh, Mohit Verma in Journal of Science and Technology, vol.12, Issue 43, pp.1-6, 2019. Web of Science Indexed.
- ‘A Multi-featured Hybrid Model for Speaker Recognition on Multi-person Speech, Vimlesh Singh, Priyanka Bansal & MT Beg published in Journal of Electrical Engineering & Technology Vol.4.No.5, pp.2117-2125, September 2019. SCI Indexed Journal.  
<https://link.springer.com/article/10.1007/s42835-019-00202-0>
- Wearable and Flexible Wireless System Technology: A Review, R. Jahnavi, Anita Chaudhary, Abhishek Singh, Vimlesh Singh & Priyanka Bansal in INDIACom-2019 from 13.03.2019 to 15.3.2019. Under publication as Proceeding of IEEE. Scopus Indexed.  
<https://www.bvicam.ac.in/indiacom/INDIACom%20Proceedings.asp>
- ‘Microstripline Antenna Fabrication Material’. Vimlesh Singh, Priyanka Bansal & P.K Singhal. International Journal of engineering and Technology Vol.7, No. 2.8, pp.340-344, March 2018. Scopus Indexed Journal.  
<https://www.sciencepubco.com/index.php/ijet/article/view/10437>
- A study-Wearable Antenna’. Vimlesh Singh, Priyanka Bansal, P. K. Singhal & Lalit Gupta. Springer – SOCTA -2017 Proceeding. Scopus Indexed Journal.  
<https://www.springer.com/gp/book/9789811305887>
- ‘Review : Speaker Recognition using Automated Systems’. Priyanka Bansal, Sayed Akhtar Imam & Vimlesh Singh. AGU International Journal of Engineering and Technology Vol. 5, pp.31-39, October 2017. UGC Approved Journal.  
[http://aguijet.com/images/short\\_pdf/1507698522\\_771aguijet.pdf](http://aguijet.com/images/short_pdf/1507698522_771aguijet.pdf)
- ‘RF Energy Harvesting Antenna’. Vimlesh Singh, Priyanka Bansal, Abhiruchi Passi International journal of advance Research in Science & Engineering Vol. 6, Issue 10, pp.519-524, October 2017. UGC Approved Journal.  
[http://www.ijarse.com/images/fullpdf/1507612993\\_772ijarse.pdf](http://www.ijarse.com/images/fullpdf/1507612993_772ijarse.pdf)
- ‘Plant watering Robot plant o bot’. Devdutt, Ishlok Vashistha Priyanka Bansal, Vimlesh Singh & Abhiruci Passi. International Journal of Computer science and Mobile Computing IJCSMC ISSN 2320088 pp.349 – 352 in April 2017. Google Journal.  
<https://www.ijcsmc.com/docs/papers/April2017/V6I4201792.pdf>

- ‘Designing of solar powered dispenser’. Abhiruci Passi, Priyanka Bansal, Vimlesh Singh Jatin Arora, Aarav Punjabi. International research Journal of Engineering and Technology (IJRET) ISSN 2395-0056, pp.3664-3667 in April 2017. Google Journal.  
<https://irjet.net/archives/V4/i4/IRJET-V4I4884.pdf>
- ‘Rakshak A multiple Quadcopter’. Sujeet Soni, Priyanka Bansal & Vimlesh Singh International Journal of Technical Research & Science(IJTRS) PP.84-87, March 2017. Research Gate.  
[http://ijtrs.com/uploaded\\_paper/%E2%80%98RAKSHAK%E2%80%99%20A%20MULTIPLE%20QUAD-COPTER%20I.pdf](http://ijtrs.com/uploaded_paper/%E2%80%98RAKSHAK%E2%80%99%20A%20MULTIPLE%20QUAD-COPTER%20I.pdf)
- ‘Analysis of Multi-Band Characteristics of Fractal Shape Antenna’. Priyanka Kharana & Vimlesh Singh International Journal of Innovative Research in Advanced Engineering ISSN: 2349-2763, Issue 06, Volume 3 pp, 109-117, June 2016. Google Journal.  
<https://www.slideshare.net/IJIRAE/analysis-of-multiband-characteristics-of-fractal-shape-antenna>
- ‘Design and Analysis of Sierpinski Carpet Fractal Antenna for two different Substrate Material’. Ravinder Kumar & Vimlesh Singh International Journal for Scientific Research & Development Vol. 2, Issue 05, pp. 924-926, ISSN 2321-0631, 2014. Google Journal.  
<http://www.ijserd.com/articles/IJSRDV2I4223.pdf>
- ‘A Review: Face Recognition Technique’. Shalu Yadav & Vimlesh Singh. International Journal of Electronics & Communication Technology Vol. 4. Issue 2, paper id IJECT/42/3/B-757, pp, 386-390, April – June, ISSN: 2229- 4343, 2013. Google Journal.  
<http://www.iject.org/vol42/3/shalu.pdf>
- ‘Q-Arc Micro strip Fractal Antenna’. Vimlesh Verma & P.K Singhal. International Journal of Research in Antennas and Microwave Engineering – IJRAW Vol. 02, Issue 01; Jan- Feb 2013. Google Journal.
- ‘Electronic Band Gap Substrate Micro strip Dual band Fractal Antenna’. Vimlesh Verma & P.K Singhal. International Journal of Electronics & Communication Technology Vol. 4 Issue 1, paper id IJECT/41/3/A-661, pp.405-410, Jan-March 2013, ISSN 2230- 9543. Google Journal.  
<http://www.iject.org/call-for-papers/disclaimer/iject413a-661/>
- ‘Novel Design of Fractal Shape Antenna’. Vimlesh Verma & P.K Singhal. National Journal with ISSN: 0976- 7363, Vol. 3. No.2 Issue in ISST-IJEEE, pp. 55-60, Jan-March 2013.
- ‘Fractal Antenna for Multiple Applications’. Mayur Narang & Vimlesh Singh. International Journal of Electronics & Communication Technology Vol. 4 Issue 2-3, pp.285-287, ISSN 2230-7109, , March – May 2013 Google Journal.  
<http://www.iject.org/vol42/3/mayur.pdf>

### **National & International Conference Publication**

- Wearable and Flexible Wireless System Technology: A Review, R. Jahnavi , Anita Chaudhary, Abhishek Singh, Vimlesh Singh & Priyanka Bansal in INDIACom-2019 from 13.03.2019 to 15.3.2019 Bharati Vidyapeeth's Educational Complex, A-4, Paschim Vihar, Adjacent to Paschim Vihar (East) Metro Station, Rohtak Road, New Delhi-63.
- Microwave Effect on Human: A Brief” Ritu Hailder. Risha Goel, Vimlesh Singh, Priyanka Bansal, & Lalit Gupta – 2<sup>nd</sup> International Conference on Recent Trends of computing in mathematics, statistics and information technology 2018 at Bundelkhand University Jhansi from 9.3.18-11.3.18.
- A study-Wearable Antenna” Vimlesh Singh, Priyanka Bansal, P. K. Singhal & Lalit Gupta, Springer – SOCTA -2017 at Bundelkhand University Jhansi from 22.12.17-24.12.17.

- Low loss Dielectric Fractal Shape Antenna for Multiusage in 2015 – National Conference on Recent Advances in communication Engineering during 4.12.2015-5.12. 2015, at MITS Gwalior.
- THE SMART HELMET “SKULLY” in 2015 – National Conference on Recent Advances in communication Engineering during 4.12.2015-5.12. 2015, at MITS Gwalior.
- Composite Substrate Microstripline Characteristics of Fractal Antenna in "2015 Recent Advances in Microwave Engineering" on 28.2.2015-1.3.2015, at MITS Gwalior.
- Multiband Fractal Antenna Present in New Paradigms in Electronics, Communication and Computing in 23.5.2015-24.5.2013.
- Dual band antenna- Accepted in TSPC-13(National Conference on Trends in Signal Processing & Communication) in March 2013.
- Multi Band Fractal Antenna For Wireless Application- Accepted in TSPC-13 (National Conference on Trends in Signal Processing & Communication) March 2013
- Novel Design of Fractal Shape Antenna - Presented in ATEC-2013 in March 2013 in AKG society of Education, Ghaziabad.
- Novel Design of improved bandwidth Fractal Antenna- Accepted in TSPC-13(National Conference on Trends in Signal Processing & Communication) March 2013
- Design of Fractal Antenna - Presented in 2nd International Conference on Advanced Computing and Communication Technologies science & Engineering in Jan 2012 R.G Education Society Rohtak.
- Design and Analysis of Star Shape Fractal Antenna-Presented in International Conference on science & Engineering Jan 2011 in R.G Education society Rohtak.
- Design and Analysis of Tria- Pent Shape Fractal Antenna- Presented in International Conference on science & Engineering Jan 2011 in R.G Education Society Rohtak.
- Design and Analysis of V- Grooved stacked Antenna- National Conference –2011 in June 2011 DCTEM, Palwal.
- Design and Analysis of Star- Rec fractal Antenna- National Conference on Future Mobile Radio 2011 in Sept 2011 MRIU, Fraidabad.
- Novel Design of Fractal Antenna - Presented in NCEC- 2011 From Dec 2010 in MIT Gwalior.
- Design and Analysis of Parallel- Rec Shape Fractal Antenna- Presented in conference ACCT- 10 June 2010 in Vaish College of Engineering, Rohtak.
- Novel Design of Multiband Fractal Antenna Presented in NCEC- 2010 From Dec 2010 in MIT Gwalior.
- Novel Design of V Grooved Ring Shaped Fractal Antenna- Presented in NCEC- 2010 From Dec 2010 in MIT Gwalior.
- Wideband Inco- Rec Shaped Patch Antenna- Presented in NCEC- 2010 From Dec 2010 in MIT Gwalior.
- Design and Analysis of Chamfered Square Shape Fractal Antenna-presented in conference e-manthan April 2010 in College of science & Engineering, Jhansi.
- Design and Analysis of PANTHEON Shape Fractal Antenna- presented in conference e-manthan April 2010 in College of science & Engineering, Jhansi.
- Design and Analysis of STAR- Rec Shape Fractal Antenna presented in conference e-manthan April 2010 in College of science & Engineering, Jhansi.

### **13. Recent Professional Development Academically**

1. Attended ATAL FDP on regular basis to update academically.
  - a. AY 2020-2021 : 4 FDP attended
  - b. AY 2021-2021: Till now 2 FDP attended
2. Attended one week Faculty development program on NLP in association with ICT academy MNIT Jaipur organized at ECE,FET, MRIIRS from 6.1.2020-10.1.2020.
3. Attended one week Faculty development program on ICT Tools teaching learning in association with ICT academy MNIT Jaipur organized at ECE,FET, MRIIRS from 13.1.2020-17.1.2020.
4. Expert talk deliver and Session chair for the conference.
5. Attended one week faculty development program on “Design & Manufacturing of Antenna & Electronic Simulation System” under TEQIP-III phase at IET, Bundelkhand University, Jhansi from 29.7.2019-3.8.2019.
6. Participated in one week ICT based Short Term Training Program on “Effective Teaching” organized by Department of Electronics & Communication Engineering, MRIIRS in collaboration with NITTTR, Chandigarh 15.7.2019 to 19.7. 2019.
7. Attended one week Faculty development program on VLSI chip design by Open source EDA Tool in association with ICT academy MNIT Jaipur organized at ECE,FET, MRIIRS from 8.7.2019-12.7.2019.
8. Attended one week Faculty development program on Antenna Trends in association with ICT academy MNIT Jaipur organized at ECE,FET, MRIIRS from 1.7.2019- 5.7.2019.
9. Participated in an ICT based AICTE recognized Short Term Training Program on “Evaluating Student’s performance & Designing Question Papers” organized by Department of Electronics & Communication Engineering, NITTTR, Chandigarh from 25.2.2019-1.3.2019.
10. Participated in an ICT based AICTE recognized Short Term Training Program on “Advanced Level " Digital System Design" organized by Department of Electronics & Communication Engineering, NITTTR, Chandigarh 28.01.2019 to 01.02.2019 at MRU Faridabad.
11. Attended AIECT Sponsored STC on "RF & Microwave Antenna Design"at MITS Gwalior for one week (5.1.2019-9.1.2019).
12. Participated in an ICT based AICTE recognized Short Term Training Program on “Embedded Systems” organized by Department of Electronics & Communication Engineering, NITTTR, Chandigarh from 19 March- 23 March, 2018.
13. Attended AIECT Sponsored STC on "Numerical Techniques in Microwav Engineering"at MITS Gwalior for one week (27.1.18-31.1.18).
14. Participated in an ICT based AICTE recognized Short Term Training Program on “Wireless Communication” organized by Department of Electronics & Communication Engineering, NITTTR, Chandigarh from 30 October- 3 November, 2017.
15. Participated in an ICT based AICTE recognized Short Term Training Program on “VLSI Design” organized by Department of Electronics & Communication Engineering, NITTTR, Chandigarh from 9 October- 13 October, 2017.
16. Participated in ICT based training programme on ‘Strategic Management and SWOT Analysis for Institution Excellence’ conducted by EDIC Department, NITTTR Chandigarh from 21 - 25 August 2017 at MREI campus (Remote Center).

17. Attended AIECT Sponsored STC on "Advances in Microwave Engineering" at MITS Gwalior for Two week (20.3.17-31.3.17).
18. Attended AIECT Sponsored STC on "Recent Advances in Microwave Engineering" at MITS Gwalior for Two week (4.1.16-15.1.16).
19. Participated & attended Three days of workshop on "FTTX Home Connect" at Manav Rachna International University, Faridabad during 2.2.2017-4.2.2017.
20. Organized & Participated in one week national workshop on 'Instrumentation Using Lab VIEW' held during Dec' 19.12.2016- 23.12.2016.
21. Coordinator for expert talk on 'Overview of Telecom Network & LAN Lay Out' held on September 27th 2016 at Electronics & Communication Department, FET, MRIU, Faridabad.
22. Coordinator for student Industrial Visit at 'Advanced Level Telecom Training Centre, Bharat Sanchar Nigam Limited, Ghaziabad' held on 3rd October 2016.
23. Member of core team of three day 'International Conference on Soft Computing Techniques and Implementations' held during 8th till 10th October 2015. The Conference was technically supported by IEEE and ISI Kolkata.
24. University exam paper setting & Practical Examiner for IET, Bundelkhand University, Jhansi from year of 2008 to tile now.
25. University exam paper setting & Evaluator of Jiwaji University Gwalior during year of 2005-2007.
26. External M.Tech Dissertation Evaluator for ECE Department, MITS Gwalior.