1. Personal Information

(i)	Name	**Dr. Leeladhar Malviya**	**Photo** 
(ii)	Qualification	Ph.D.	
(iii)	Designation	**Professor**	
(iv)	Email-id	**ldmalviya@gmail.com, ldmalviya1512@gmail.com**	
(v)	Employee No.	0400261	
(Vi)	Department	ELECTRONICS & TELECOMMUNICATION	
(vii)	Experience	26 years	

2. Educational Qualification

S. No.	Degree	Specialization	Year	University/Board
1.	Ph.D	RF and Microwave (Electronics and Communication)	2017	Indian Institute of Technology Roorkee, (U.K.)
2.	M.E.	Electronics and Telecommunication Engineering	2008	RGPV BHOPAL/ S.G.S.I.T.S., Indore (M.P.)
3.	B.E.	Electronics Engineering	1998	Vikram University/GEC Ujjain (M.P.)
4.	Higher Secondary	Physics , Chemistry and H. Maths	1993	M.P. Board, Bhopal (M.P.)

3. Educational Qualification

S.No.	Name of Post Held	Name of the Institution	Period	
			From	To
1.	Professor	S.G.S.I.T.S, Indore	13th February, 2018	Till date
2.	Associate Professor	S.G.S.I.T.S, Indore	13th February, 2015	12th February, 2018
3.	Assistant Professor (Selection Scale)	S.G.S.I.T.S, Indore	30th January, 2012	12th February, 2015

4.	Assistant Professor (Senior Scale)	S.G.S.I.T.S, Indore	30th January, 2007	29th January, 2012
5.	Assistant Professor	S.G.S.I.T.S, Indore	30th January, 2001	29th January, 2007
6.	Lecturer	B.I.E.T. Jhansi (U.P.)	9th August, 1999	29th January 2001
7.	Lecturer (Contract)	Govt. Polytechnic, Ujjain (M.P.)	19th August, 1998	17th June 1999

4. Research Interests

Microstrip patch antennas designs for wireless communication for 4G, 5G, and THz spectrums. Ultra wideband antenna (UWB), Substrate integrated waveguide (SIW) antennas, High speed/ Vehicular communication antennas, Millimeter wave communication antennas

PhD Topic - Some studies on MIMO antennas withdiversity techniques for wireless applications

5. PhD Supervision

S.No.	Name of Scholar	University/Institution	Topics	Current Status
1.	Mohit Pant (0701EC14PD04) (Registration:15/10/2019)	RGPV Bhopal/S.G.S.I.T.S., Indore (M.P.)	5G MIMO antenna design	Submitted in RGPV(27th June 2024)
2.	Rashami Pant (0701EC14PD05) (Registration:15/10/2019)	RGPV Bhopal/S.G.S.I.T.S., Indore (M.P.)	THz communication	Submitted in RGPV(27th June 2024)
3.	M. L. Jatav (0108EC16PD11) (Registration:14/09/2017)	RGPV Bhopal/S.G.S.I.T.S., Indore (M.P.)	D2D 5G Wireless communication	Pursuing
4.	Matar Singh Mandloi (0801EC20PD02) (Registration: /09/2020)	RGPV Bhopal/S.G.S.I.T.S., Indore (M.P.)	5G MIMO antenna design	Pursuing
5.	Sneha Moghe (0801EC20PD01) (Registration: /09/2020)	RGPV Bhopal/S.G.S.I.T.S., Indore (M.P.)	5G and THz antenna designs	Pursuing
6.	Rohit Yadav (21D1ET13) (Registration: /09/2021)	D. A. V. V., Indore (M.P.)	5G and THz antenna designs	Pursuing

7.	Megha Soni	Amity University, Gwalior (M.P.)	5G MIMO antenna design	Pursuing

6. Research Paper Publications

(I) International/National Journals

1. Mohit Pant, and **Leeladhar Malviya**, "SIW MIMO antenna with high gain and isolation for fifth generation wireless communication systems," Frequenz Journal, DOI: 10.1515/freq-2023-0440, pp. 1-19, 29th July 2024 (**SCI**).
2. Sanjay Chouhan, **Leeladhar Malviya**, Debendra K. Panda, and Jitendra Yadav, "Hexagonal shaped antenna using MIMO techniques for 2.1 GHz wireless application" Wireless Personal Communications, DOI: doi.org/10.1007/s11277-024-11446-z, pp. 1-17, 9th July 2024 (**SCI**).
3. Rashmi Pant, and **Leeladhar Malviya**, "THz MIMO antenna array for future generation of wireless applications", Frequenz Journal, DOI: 10.1515/freq-2023-0203, pp. 1-7, February 2024 (**SCI**).
4. Sanjay Chouhan, **Leeladhar Malviya**, and D. K. Panda, "Mathematically inspired MIMO antenna with enhanced isolation for wireless applications", International Journal of Communication Systems, DOI: 10.1002/dac.5730, pp. 1-5, February 2024 (**SCI**).
5. Rashmi Pant, and **Leeladhar Malviya**, "THz antennas design, developments, challenges, and applications: a review" International Journal of Communication Systems (IJCS), DOI: 10.1002/dac.5474, pp. 1-39, March 2023 (**SCI**).
6. Mantar Singh Mandloi, Parul Gupta, Ajay Parmar, Priyanshi Malviya, and **Leeladhar Malviya**, "Beamforming MIMO array antenna for 5G millimetre wave application," Wireless Personal Communications, DOI: 10.1007/s11277-022-10090-9, vol. 129, issue 1, pp. 153-172, March 2023 (**SCI**).
7. Mohit Pant, and **Leeladhar Malviya**, "Design, developments, and applications of 5G antennas: a review," International Journal of Microwave and Wireless Technologies (IJMWT), DOI: 10.1017/S1759078722000095, pp. 156-182, 2022 (**SCI**).
8. **Leeladhar Malviya**, M. P. S. Chawla, and Ajay Verma, "Present to future antennas for wireless communication: A review", International Journal of Innovative **SCI**ence and Modern Engineering (IJISME), ISSN: 2319-6386, vol. 7, issue 1, February 2021 (National).
9. Sanjay Chouhan, and **Leeladhar Malviya**, "Multi-element wideband planar antenna for wireless applications," Wireless Personal Communications, 10.1007/s11277-021-08068- 0, pp. 1-13, May 2021 (**SCI**).
10. **Leeladhar Malviya**, and Parul Gupta, "Millimeter wave high gain antenna

array for wireless applications," IETE Journal of Research (Taylor and Francis), DOI: 10.1080/03772063.2021.1903346, pp. 2645-2654, vol. 69, issue 5, March 2021 (**SCI**).

11. Leevanshi Rao, Mohit Pant, **Leeladhar Malviya**, Ajay Parmar, and S. V. Charhate, "Beamforming techniques for the coverage of intended directions in modern wireless communication: In-depth review," International Journal of Microwave and Wireless Technologies (IJMWT), DOI:10.1017/S1759078720001622, pp. 1039-1062, vol. 13, issue 10, December 2020 (**SCI**).
12. **Leeladhar Malviya**, Deepak Solanki, Parul Gupta, and Ajay Parmar, Priyanshi Malviya, "Highly isolated inset-feed 28 GHz MIMO-antenna array for 5G wireless application," CoCoNet (CIAP) 2019/Procedia Computer **SCI**ence (Elsevier (2020)), DOI: 10.1016/j.procs.2020.04.137, issue 171, pp. 1286-1292, June 2020 (Scopus).
13. Sanjay Chouhan, and **Leeladhar Malviya**, „„Four port shared rectangular radiator with defected ground for wireless application," International Journal of Communication Systems, DOI: 10.1002/dac.4356, pp. 1-8, March 2020 (**SCI**).
14. Rohit Yadav, and Leeladhar Malviya, "UWB antenna and MIMO antennas with bandwidth, band-notched, and isolation properties for high-speed data rate wireless communication: A review," International Journal of RF and Microwave Computer Aided Engineering, DOI: 10.1002/mmce.22033, pp. 1-25, November, 2019 (**SCI**).
15. Parul Gupta, **Leeladhar Malviya**, and S. V. Charhate, „„5G multi-element/port antenna design for wireless applications: A Review," International Journal of Microwave and Wireless Technologies (IJMWT), DOI: 10.1017/S1759078719000382, vol. 11, issue 9, pp. 918-938, November 2019 (**SCI**).
16. Sanjay Chouhan, and **Leeladhar Malviya**, „„Two element folded meander line MIMO antenna for Wireless applications," Electronics Journal, DOI: 10.7251/ELS1923011C, vol. 23, no. 1, pp. 11-17, June 2019 (**SCI**).
17. **Leeladhar Malviya**, and Sanjay Chouhan, „„Multi-cut 4 port shared radiator with stepped ground and diversity effects for WLAN application," International Journal of Microwave and Wireless Technologies (IJMWT), DOI: 10.1017/S1759078719000680, pp. 1044-1053, May 2019 (**SCI**).
18. **Leeladhar Malviya**, M. V. Kartikeyan, and Rajib K. Panigrahi, „„Multi-standard, multi- band planar MIMO antenna with diversity effects for wireless applications," International Journal of RF and Microwave Computer Aided Engineering, DOI: 10.1002/mmce.21551, vol. 29, issue 2, pp. 1-8, September 2018 (**SCI**).
19. Ritesh Kumar Kushwaha, P. Karrupanan, L. D. Malviya, "Design and analysis of novel microstrip patch antenna on photonic crystal in THz," Physica B: Physics of Condensed Matter, Elsevier, DOI: 10.1016/j.physb.2018.05.045, vol. 545, issue 2018, pp. 107-112, May 2018 (**SCI**).

20. **Leeladhar Malviya**, M. V. Kartikeyan, and Rajib K. Panigrahi, „„Offset planar MIMO antenna for omnidirectional radiation patterns," International Journal of RF and Microwave Computer Aided Engineering, DOI: 10.1002/mmce.21274, vol. 28, issue 6, pp. 1-9, February 2018 (**SCI**).
21. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, „„Four element planar MIMO antenna design for long term evolution operation," IETE Journal of Research (Taylor and Francis), DOI: 10.1080/03772063.2017.1355755, vol. 64, no. 3, pp. 367-373, August 2017 (**SCI**).
22. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, „„MIMO antennas with diversity and mutual coupling reduction techniques: A Review," International Journal of Microwave and Wireless Technologies (IJMWT), DOI:10.1017/S1759078717000538, vol. 9, no. 8, pp. 1763-1780, May 2017 (**SCI**).
23. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, „„A low profile planar MIMO antenna with polarization diversity for LTE1800/1900 applications," Microwave and Optical Technology Letters (MOTL), DOI:10.1002/mop.30329, vol. 59, issue 3, pp. 533-538, March 2017 (**SCI**).
24. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, „„Circularly polarized 2x2 MIMO antenna for WLAN applications," Progress in Electromagnetics Research C, DOI: 10.2528/PIERC16051905, vol. 66, pp. 97-107, July 2016 (Scopus)
25. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, „„A multi-standard, wide-band 2x2 compact MIMO antenna with ground modification techniques," International Journal of Microwave and Optical Technology (IJMOT), vol. 11, No. 4, pp. 259-267, July 2016 (Scopus).
26. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, „„A 2x2 Dualband MIMO antenna with polarization diversity for wireless applications," Progress in Electromagnetics Research C, DOI: 10.2528/PIERC15110401, vol. 61, pp. 91-103, January 2016 (Scopus).
27. Gourav Banchhodiya, and **L. D. Malviya**, "Analysis of feed techniques on the performance of dual broadband MIMO antenna system," ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE), ISSN:2320-8945, vol. 1, Issue 5, pp. 108-114, 2013.
28. Nikhil Tiwari, Deepak Gyanchandani, Anjulata Yadav, and **L.D. Malviya**, "Factors affecting sleep mode operation in WiMAX networks," Advances in Electronic and Electric Engineering, ISSN 2231-1297, vol. 3, No. 3, pp. 373-382, 2013.
29. Minakshi Halder, **L. D. Malviya**, and Rekha Jain, "Mobile adhoc network under the adaptive TCP variants techniques for maximization of throughput," International journal of Computer Applications, DOI: 10.5120/8974-3116, vol. 56, no. 16, pp. 12-17, October 2012.
30. Alok Pandey, **L. D. Malviya**, Vineet Sharma, "Comparative study of LMS and NLMS algorithms in adaptive equalizer," International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622

www.ijera.com, vol. 2, issue 3, pp.1584-1587, May-Jun 2012.

31. S.V. Charhate, **L. D. Malviya**, Shambhu kr Suman, "Performance comparison of LMS, NLMS and RLS algorithms for adaptive equalizer," International Journal of Advanced Electronics & Communication Systems, vol. 1, issue 1, Paper ID A29, February 2012.
32. Rohit Yadav, Ranbeer Tyagi, L. D. Malviya, "Low magnitude edge detection algorithm," International journal of Computer Applications, DOI: 10.5120/2863-3691, vol. 23, pp. 16-19, June 2011.

(II) International/National Conferences

1. Deepak Solanki, Ajay Parmar, and **Leeladhar Malviya**, "Circularly polarized wideband mmW wearable antenna with asymmetries in circular patch for n258 K- band", IEEE 13th International Conference on Communication Systems and Network Technologies (CSNT)-2024, Jabalpur, India, DOI: 10.1109/CSNT.2024.8, pp. 42-47, 6th – 7th April, 2024.
2. Ujjwal Tripathi, Divyang Shrivastava, Vaibhav Jain, Anmol Harne, Shivangi Rajoriya, Ajay Parmar, and **Leeladhar Malviya**, "Millimeter wave wideband MIMO antenna for the complete New radio bands coverage", IEEE 13th International Conference on Communication Systems and Network Technologies (CSNT)-2024, Jabalpur, India, DOI: 10.1109/CSNT.2024.24, pp. 133-138, 6th – 7th April, 2024.
3. Priyanshi Malviya, Ujjwal Tripathi, Ajay Parmar, and **Leeladhar Malviya**, "High efficiency split ring resonator shaped MIMO antenna design with PEG", 7th Conference on Information and Communication Technology (IEEE CICT 2023), Jabalpur, India, DOI: 10.1109/CICT59886.2023.10455664, 15th -17th December, 2023, March 2024.
4. Mantar Singh Mandloi, and **Leeladhar Malviya**, "Single and dual horn SIW radiators for high speed vehicular communication", IEEE 9th International Conference on Signal Processing and Communication (ICSC)-2023, 21th – 23rd December, 2023, Noida, India, DOI: 10.1109/ICSC60394.2023.10441361, pp. 156-161, February 2024.
5. Ujjwal Tripathi, Deepak Solanki, Priyanshi Malviya, Ajay Parmar, and **Leeladhar Malviya**, "MIMO antenna design with PBG structure for THz communication", IEEE International Conference on Microwave, Antenna and Communication (MAC 2023), Allahabad, India, DOI: 10.1109/MAC58191.2023.10177063, pp. 1-6, 24th – 26th March, 2023.
6. Ujjwal Tripathi, Mantar Singh Mandloi, Ajay Parmar, and **Leeladhar Malviya**, "H- plane substrate integrated waveguide horn radiator for 5G applications", IEEE 1th International Conference on Innovations in High Speed Communication and Signal Processing 2023, Bhopal, India, DOI:

10.1109/IHCSP56702.2023.10127164, pp. 240-245, 4th – 5th March, 2023.

7. Sneha Moghe, and **Leeladhar Malviya**, "Inverted C shaped THz array antenna for wireless body area network applications", Microwaves, Antennas, and Propagation Conference (MAPCON)-2022, Banglore, India, DOI: 10.1109/MAPCON56011.2022.10047362, pp. 1-5, 12th – 16th December, 2022.
8. Sanjay Chouhan, and **Leeladhar Malviya**, "Stepped patch antenna for GSM applications", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.14, pp. 72-75, 23rd – 24th April, 2022.
9. Sneha Moghe, Rohit Yadav, and **Leeladhar Malviya**, "Sub-THz high efficiency MIMO antenna for short range wireless communication", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.13, pp. 66-71, 23rd – 24th April, 2022.
10. Mantar Singh Mandloi, Ajay Parmar, Priyanshi Malviya, and **Leeladhar Malviya**, "Design of dual-band MIMO antenna with inverted L-shaped arms for 5G applications", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.12, pp. 60-65, 23rd – 24th April, 2022.
11. Shubham Mohker, Ajay Parmar, Amit Naik, and **Leeladhar Malviya**, "Design of bandstop filter using double dumbbell shaped CSRR in ground", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.11, pp. 54-59, 23rd – 24th April, 2022.
12. Sneha Moghe, Rohit Yadav, and **Leeladhar Malviya**, "Sub-terahertz MIMO array antenna for future wireless applications", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.10, pp. 49-53, 23rd – 24th April, 2022.
13. Mohit Pant, and **Leeladhar Malviya**, "Fifth generation MIMO antenna array with diversity and mutual coupling reduction technique", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.08, pp. 36-41, 23rd – 24th April, 2022.
14. Munna lal Jatav, Ashutosh Datar, and **Leeladhar Malviya**, "Resource optimization using improved genetic algorithm for device to device communication cellular network", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.87, pp. 499-503, 23rd – 24th April, 2022.
15. Rohit Yadav, Ajay Parmar, **Leeladhar Malviya**, and Dhiraj Nitnaware, "Ultra wideband MIMO antenna design with high isolation for THz application", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI:

10.1109/csnt.2022.06, pp. 26-30, 23rd – 24th April, 2022.

16. Rohit Yadav, Ajay Parmar, **Leeladhar Malviya**, and Dhiraj Nitnaware, "Graphene based multiband stack patch THz antenna with proximity feed", Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, Doi: 10.1109/InCAP52216.2021.9726472, pp. 544-547, 13th – 16th December, 2021.
17. Rashami Pant, and **Leeladhar Malviya**, „„A 2x2 MIMO antenna array based on photonic band gap for terahertz applications," Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, Doi: 10.1109/InCAP52216.2021.9726488, pp. 68-71, 13th – 16th December, 2021.
18. Mohit Pant, and **Leeladhar Malviya**, "1x4 antenna array with defected ground structure for 5G applications," Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, Doi: 10.1109/InCAP52216.2021.9726496, pp. 228-231, 13th – 16th December, 2021.
19. Mantar Singh Mandloi, Ajay Parmar, Priyanshi Malviya, and **Leeladhar Malviya**, "4x4 Butler matrix design for multibeam operation for Radar applications," Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, doi: 10.1109/InCAP52216.2021. 9726450, pp. 533-536, 13th – 16th December, 2021.
20. Megha Soni, Ajay Daneriya, and **Leeladhar Malviya**, "Planar 2 x 2 MIMO-Array antenna using power divider for 5G applications," Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, 991-994, Doi: 10.1109/InCAP52216.2021. 9726368pp. 991-994, 13th – 16th December, 2021.
21. Munna lal Jatav, Ashutosh Datar, and **Leeladhar Malviya**, "Optimization of resource and energy for D2D enable communication system using constraint‟s-based function", IEEE International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES-2021), Chennai, India, DOI: 10.1109/ICSES52305.2021.9633854, pp. 1-5, September, 24th-25th 2021.
22. Rohit Yadav, Ajay Parmar, **Leeladhar Malviya**, and, Dhiraj Nitnaware, "28 GHz inset feed circular shaped compact patch antenna array for 5G wireless communication", IEEE,10th International Conference on Communication Systems and Networking Technologies (10th CSNT 2021), Oriental University, Bhopal, India, DOI: 10.1109/CSNT.2021.01, pp. 1-4, April, 24th-25th 2021.
23. Leevanshi Rao, **Leeladhar Malviya**, M. P. S. Chawla, and Ajay Parmar, "MIMO- array antenna with beamforming for 5G applications", IEEE, 10th International Conference on Communication Systemsand Networking Technologies (10th CSNT 20 21), Oriental University, Bhopal, India, DOI: 10.1109/CSNT.2021.7, pp. 27-32, April, 24th-25th

2021.

24. Naveen Kumar Dubey, M. P. S. Chawla, and **Leeladhar Malviya**, " An artificial neural network based forecasting strategy for estimating weather parameters: Application for sizing stand-alone renewable power system", IEEE, 10th International Conference on Communication Systemsand Networking Technologies (10th CSNT 2 021), Oriental University, Bhopal, India, DOI: 10.1109/CSNT.2021.50, pp. 279-284, April, 24th-25th 2021.
25. Rashami Pant, **Leeladhar Malviya**, and Vineeta Choudhary, "Design of high gain hexagonal microstrip patch antenna on photonic crystal for THz applications", 3rd International Conference on VLSI, Communication and Signal Processing (VCAS 2020), MNNIT Allahabad, India, October 9-11, 2020.
26. Mohit Pant, **Leeladhar Malviya**, and Vineeta Choudhary, "Gain and bandwidth enhancement of 28 GHz tapered feed antenna array", IEEE, 11th International Conference on Computing, Communication and Networking Technologies (11th ICC CNT 2020), IIT Kharagpu West Bengal India, July1-3, 2020, DOI: 10.1109/ICCCNT49239.2020.9225502.
27. **Leeladhar Malviya**, Parul Gupta, Ajay Parmar, and Deepak Solanki, Priyanshi Malviya, "MIMO antenna design with low ECC for mmwave," 2019 IEEE Indian Conference on Antennas and Propogation (InCAP), Ahmedabad, India, 2019, pp. 1-5, Doi: 10.1109/InCAP47789.2019.9134671.
28. Megha Soni, L. D. Malviya, "Multi-port MIMO antennas with mutual coupling reduction techniques for morden WLAN application: A review" 17th International conference on Sustainable Research in Engineering, Technology, Pharmacy & Management-2019 (IC-SRETPM-2019), Sagar, MP, India, 25-26 May, 2019 (Presented).
29. Pratik Waghmare, Parul Gupta, Karan Gehlod, Ashish Shakya, and **Leeladhar Malviya**, „„2x2 wideband array MIMO antenna for 5G spectral," 2019 IEEE 5th International Conference for Convergence in Technology (I2CT), Bombay, India, 2019, pp. 1-4, 29th – 31st March, 2019, DOI: 10.1109/I2CT45611.2019.9033947.
30. **Leeladhar Malviya**, Ashish Shakya, and Karan Gehlod, „„5.8 GHz WLAN MIMO antenna with power divider arms," Indian Conference on Antennas and Propagation (InCAP), Hyderabad, India, DOI: 10.1109/INCAP.2018.8770955, pp. 1-4, 16th – 19th December, 2018, doi: 10.1109/INCAP.2018.8770955.
31. **Leeladhar Malviya**, Karan Gehlod, and Ashish Shakya, „„Wide-band meander line MIMO antenna for wireless applications," 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI), Bangalore, 2018, pp. 1663-1667, 19th -22nd September 2018, DOI: 10.1109/ICACCI.2018.8554719.

32. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, „„Proximity coupled MIMO antenna for WLAN/WiMAX applications," IEEE Asia Pacific Microwave Conference 2016 (APMC), Delhi, India, pp. 1-4, 5th-9th, December 2016.
33. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, „„2 × 2 MIMO antenna for ISM band application," 11th International Conference on Industrial and Information Systems (ICIIS 2016), Roorkee, India, DOI: 10.1109/ICIINFS.2016.8263047, pp. 794-797, 3rd-4th December, 2016.
34. **Leeladhar Malviya**, Jagannath Malik, Rajib K. Panigrahi, and M. V. Kartikeyan, "Design of a compact MIMO antenna with polarization diversity technique for wireless communication," International Conference on Microwave, Optical and Communication Engineering (ICMOCE), Bhubaneswar, India, DOI:10.1109/ ICMOCE. 2015.7489681, pp. 21-24, 18th-20th December 2015.
35. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, "Pattern diversity based MIMO antenna for low mutual coupling," IEEE Applied Electro-magnetic Conference (AEMC), Guwahati, India, DOI:10.1109/AEMC.2015.7509132, pp. 96- 97, 18th-21st December. 2015.
36. V. B. Shukla, M. Panchal, **L. D. Malviya**, "Peak to average power reduction in OFCDM system to enhance the spectral efficiency," IEEE conference 2013: The Next Generation Information Technology Summit (4th International Conference), Noida, DOI: 10.1049/cp.2013.2328, pp. 278-282, 26-27 September 2013.
37. Geetesh Kwatra, and **L. D. Malviya**, "Channel performance by using adaptive equalization techniques in MIMO system for multipath fading environment", International conference on telecommunication and networks (TEL-NET)-2013, Gaziabad, India,pp. 392-396, 27-28 February, 2013.
38. Sonam Shakya, **L. D. Malviya**, and S. V. Charhate, "Performance Evaluation of Adaptive Modulation techniques for Wimax Physical Layer with Different Cyclic Prefix", International conference on Computer **SCI**ence, Information and Technology (ICSIT)-2012, Ahemadabad, India, pp. 132-135, 2012.
39. S. V. Charhate, **L. D. Malviya**, and Manish Sahu, "Power saving of 802.16e mobile WiMAX by modulation techniques and transport layer protocols", International Conference on Power, Control and Embedded Systems-2010, MNNIT, Allahabad, pp. 100-103, Nov. 28-December, 2010.
40. **L. D. Malviya**, Rohit yadav, and Jaya Diptilal, "New image processing techniques to disclose hidden boundaries", International conference on Intelligent Information systems and Management-2010, RVS group of engineering and Management institutions Coimbtore, Tamil Nadu, pp. 1-

5, 5-7 December 2010.

41. **L. D. Malviya**, A. Gaiwak, and P. D. Vyavahare, "Performance evaluation of transport layer protocols using adaptive modulation and coding scheme for WiMAX", ICEMC2-08, Infosys, Mysore, pp -340-347, 11-14 August 2008.
42. **L. D. Malviya**, A. Gaiwak, and P.D.Vyavahare, "Simulation based comparison of different modulation schemes for Mobile WiMAX using TCP and its variants", ICETET-08, G.H. Raisoni College of Engineering, Nagpur, pp. 168-171, 16-18 July 2008.
43. Geetesh Kwatra, and **L. D. Malviya**, "Optimized ergodic and outage channel capacity in MIMO system for multipath fading environment", National conference on Advances in Communications and Computing-2013, Acropolis Engineering College, Indore, India, January 12, 2013.
44. Minakshi Haldar, Rekha Jain, **L. D. Malviya**, "A short survey on wireless sensor network", First National Conference SHODA-SAMAGAM-2012, B. M. College of Technology, Indore, India, April 27-28, 2012.
45. Alok Panday, **L. D. Malviya**, "Comparative study of BP and Tabu algorithm in ANN", First National Conference on Recent Trends in Engineering and **SCI**ence- 2012, Prestige Institute of Engineering and **SCI**ence, Indore, India, pp. 187-189, April 20-21, 2012.
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47. **L. D. Malviya**, M.P.S. Chawla , "A common understanding of MATLAB and utility of its tool boxes", 2nd Bhartiya Vigyan Sammelan, DAVV- 2009, Indore, India, pp. 96-96, 1-3 December, 2009.
48. M.P.S. Chawla, **L. D. Malviya**, N. D. Somani, Hannie S. Lal, "Biasing effects on non- linear systems with neural network approach", KovilpattiTuticorin Dt. Tamil nadu NACIPAN-2005, National engineering college, pp. 316-323, 2005.
49. **L. D. Malviya**, M.P.S. Chawla, "Modeling and software analysis of IC 555 based pulse modulator", NCIAITET-2005, Rathinamangalam, Chennai, pp. 46-46, 18-19 February, 2005.
50. M.P.S. Chawla, **L. D. Malviya**, N. D. Somani, B. M. Sharma, "Transient analysis of liquid level 80C535 microcontroller based embedded system", Tamil Nadu PCID- 2005, BAIT, Sathyamangalam, Erode Dt, pp. 245-249, 25-26 March 2005.
51. M.P.S. Chawla, **L. D. Malviya**, N. D. Somani, B. M. Sharma, "Modeling and software analysis of operational amplifier with noise effect considerations", Tamil Nadu PCID-2005, BAIT, Sathyamangalam, Erode Dt, pp. 97-100, 25-26 March 2005.
52. **L. D. Malviya**, M.P.S. Chawla, S. V. Charhate, and Rishabh Verma,

"High level adder design techniques for high performance and low power", Tamil Nadu PCID- 2005, BAIT, Sathyamangalam, Erode Dt, pp. 169-171, 25-26 March 2005.

53. **L. D. Malviya**, M.P.S. Chawla, S. V. Charhate, and Amit Kumar Saini, "Modeling of logical operations using different conventions", Tamil Nadu PCID-2005, BAIT, Sathyamangalam, Erode Dt, pp. 257-261, 25-26 March 2005.
54. Krishna Raj, **L. D. Malviya**, Madhusudan singh, "Design of FIR filter", sub-centre IS-2000, CSI Gwalior Chapter, IETE Gwalior, pp. 57-71, 2000.

Book Chapters:

S. No.	Title	Authors	Book/Series name	Conference/Year of publication
1.	SIW based H-plane dual horn radiator for next generation wireless communication	Mantar Singh Mandloi, and **Leeladhar Malviya**	Lecture notes 2023, ISBN-978-981-99-7814-4,DOI: 10.1007/978-981-99-7814-4_12, pp. 143-155, **26 February 2024**, (Ch. 12).	ICDSA, 2023 at Malaviya National Institute of Technology Jaipur, India, July 14-15.
2.	Substrate integrated waveguide H-plane horn MIMOantenna design for mmW applications	Mantar Singh Mandloi, Ujjwal Tripathi, AjayParmar and **Leeladhar Malviya**	Lecture notes 10.1007/978-981-99-2710-4_5, pp. 43-55, **28 July 2023** (Ch. 5).	ICCDC 2023 (4th International Conference on Communication, Devices & Computing), Haldia, West Bengal, March 1-3, 2023.
3.	5G-NR wideband MIMO antenna design using stepped radiators for wireless communication	Mantar Singh Mandloi, AjayParmar, Karan Gehlod, Ashish Shakya, Priyanshi Malviya, and **Leeladhar Malviya**	Book: Advanced Wireless Communication and Sensor Networks: Applications ar ISBN:9781032347189 (Ch 4), DOI: 10.1201 /9781003326205.	20 June 2023
4.	Optimization of Resource and energy utilization	Munna lal Jatav,	Lecture Notes on DataEngineering and	5th World Conference on Smart Trends in Systems, Security and

	in device-To - device communication under cellular network	Ashutosh Datar, and **Leeladhar Malviya**	Communications Technologies Series, **Springer-Singapore,** vol. 2, **Book**: **Intelligent Sustainable Systems**, ISBN: 978-981-16-6368-0, pp. 729-739, January 2022 (Ch. 66).	Sustainability (WorldS4 2021), **London, United Kingdom**, July 29- 30, 2021
5.	Performance improvement of 28GHz antenna Arrayfor fifth generationwireless communication system	Mohit Pant, **Leeladhar Malviya**, Vineeta Choudhary	Lecture notes in Electrical Eng. (LNEE), **Springer-Singapore,** vol. 777, Recent Trends in Electronics and Communi- cation, 10.1007/ 978-981-16-2760-6, pp. 371-380, January 2022 (Ch. 35).	3rd International Conference on VLSI, Communication and Signal Processing (VCAS 2020), MNNIT Allahabad, India, October 9-11, 2020
6.	Butler matrix design for smart antenna in X-band applications	Mantar Singh Mandloi, Dr. **Leeladhar Malviya**, AjayParmar andPriyanshi Malviya	Lecture notes in Electrical Eng. (LNEE), **Springer-Singapore,** vol. 777, Recent Trends in Electronics a 3_52, pp. 593-602, January2022 (Ch. 52).	3rd International Conference on VLSI, Communication and Signal Processing (VCAS 2020), MNNIT Allahabad, India, October 9-11, 2020
7.	Design and analysisof gain enhancement THz microstrip curvature patch PBG antenna with inset feed	Rashmi Pant, **Leeladhar Malviya**, Vineeta Choudhary	Lecture Notes in Networks and Systems (LNNS), **Springer-Singapore,** vol.140, Book ISBN: 978-981-15-7130-5. Doi.org/10.1007/978-981-15-7130-5_57, pp.707-715, 2021 (Ch 7).	1st International Conference on Mobile Radio Communications & 5G Network (MRCN-2020) during 26th -28th March 2020, in UIET, Kurukshetra University, Kurukshetra, Haryana, India
8.	A 28 GHz corporate-series fed taper antenna array for fifthgeneration wireless communication	Mohit Pant, **Leeladhar Malviya**, Vineeta Choudhary	Lecture Notes in Networks and Systems (LNNS), **Springer-Singapore,** vol.140, Book ISBN: 978-981-15-7130-5. Doi.org/ 10.1007/978-981-15-7130-5_56, pp. 697-705, 2021 (Ch 56).	1st International Conference on Mobile Radio Communications & 5G Network (MRCN-2020) during 26th -28th March 2020, in UIET, Kurukshetra University, Kurukshetra, Haryana, India

9.	5G inset feed antenna array for 28 GHz wireless communication	Rohit Yadav, Dhiraj Nitnaware, **Leeladhar Malviya**	Lecture Notes in Networks and Systems (LNNS), **Springer-Singapore,** vol.140, Book ISBN: 978-981-15-7130-5. Doi.org/10.1007/978-981-15-7130-5_31, pp. 401-408, 2021 (Ch 31).	1st International Conference on Mobile Radio Communications & 5G Network (MRCN-2020) during 26th -28th March 2020, in UIET, Kurukshetra University, Kurukshetra, Haryana, India.

7. List of Conferences/Workshops/Seminars Organized

S.No.	Title of Course	Organizing Institute	Duration Period of Course	Capacity in which involved
1.	6G and beyond antenna designs for wireless communication	National confererence on "Global Synergy: Advancements in Engineering and Management Research," LNCT, Indore (M.P.), 5th March, 2024.	5th March 2024	Expert Lecture
2.	5G and next generation antenna technologies	SD Bansal Institute of Engineering, Indore (M.P.)	14th March, 2023	Expert Lecture
3.	6G and beyond antenna designs for wireless communication	11th International Conference on Comp-uting Communication and Sustainable Tech-nologies (ICCCST) - 27-28 February 2023, Vivekanand University Bhopal	28th February, 2023	Keynote speaker
4.	IETE National Conference on "VLSI, Communication and Signal Processing" NCVCS 2021, 27th to 28th November 2021	NIT Bhopal (M.P.) (Next generation of wireless antenna technologies)	27th November, 2021	Expert Lecture
5.	Next generation of wireless antenna technologies	S.G.S.I.T.S., Indore (M.P.)	31th May, 2021	Online Webinar/Expert Lecture/Coordinator
6.	5G and future antenna technologies	Shivajirao Kadam Institute of Technology and Management, Indore (M.P.)	24th May, 2021	Online/Expert Lecture

7.	Applications of MIMO system on 5G	Shivajirao Kadam Institute of Technology and Management, Indore (M.P.)	30th December, 2020	Online/Expert Lecture
8.	5G Technology	Eklavya University, Damoh (M. P.)	27th November, 2020	Online/Expert Lecture
9.	National conference on next generation communication technologies (NCNGCT 2020), during 21-22 December 2020	Jointly organized by IEEE, IE, and IEEE M. P. subsection, M. I. T. S., Gwalior (M. P.)	21st November, 2020	Invited talk
10.	Microwave Engineering	IGEC, Sagar (M.P.)	9-11 September, 2020	Online/Expert Lectures
11.	MIMO antennas and Beamforming Techniques	IEEE-MTTS-SBC, Jadhavpur Unversity, Kolkata Section.	6th September, 2020	Webinar/Expert
12.	Beamforming techniques for modern wireless communication	S.G.S.I.T.S.,(M.P.)	13th June, 2020 Indore	OnlineWebinar/Expert Lecture/Coordinator
13.	MIMO antennas for 5G	SVCE, Indore (M.P.)	8th June, 2020	Online Webinar/Ex pertLecture/Organizer
14.	MATLAB and its applications	JIT, Borawan, Khargone (M.P.)	16th-18th January, 2020	Expert Lectures
15.	MIMO antenna design for wireless communication	S.G.S.I.T.S.,(M.P.)	Indore	09th December2019
16.	MIMO antenna design	SATI Vidisha, (M.P.)	23rd September 2019	Expert Lecture
17.	OFDM 5G MIMO communication technologies	Sagar Institute of **SCI**ence and Technology Bhopal	10th 2019	April
18.	Basics of MATLAB and its applications	JIT, Borawan, Khargone (M.P.)	4th-6th January, 2018	Organizer
19.	Some studies on MIMO antennas with diversity techniques for wireless applications	S.G.S.I.T.S., Indore (M.P.)	14th August, 2017	Expert lecture

20.	Fundamental of MATLAB application for solving engineering problems	JIT, Borawan, Khargone (M.P.)	28th -30th July, 2017.	Organizer
21.	Basics of signal and system	JIT, Borawan, Khargone (M.P.)	20th June, 2017	Expert lecture
22.	Software defined radio development using LABVIEW	IIT Roorkee	4th-5th February, 2014	IEEE MTTS Vice-chair
23.	Fundamentals & applicationson MATLAB	SDIT, Khandwa (M.P.)	12th-13th October, 2011	Organizer
24.	MATLAB andits applications	JIT, Borawan, Khargone (M.P.)	22nd-23rd May, 2010	Organizer
25.	Advancement in communication systems	MIT, Indore (M.P.)	12th November, 2008	Expert lecture

8. Session chair/organizing member in national/international conferences

S.No.	Name of the conference	Capacity in which involved
	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON) -2024	TPC member
	SPace, Aerospace and defenCE conference (SPACE-2024)	TPC member
1.	22nd IEEE Mediterranean Electrotechnical Conference Porto, Portugal, June 25-27, 2024.	TPC member
2.	National confererence on "Global Synergy: Advancements in Engineering and Management Research," LNCT, Indore (M.P.), 5th March, 2024.	Advisory member
3.	International conference on communication systems and network technologies (CSNT-2024), GGIT, Jabalpur (M.P.), 6-7 April, 2024.	TPC member
4.	4th International Conference on Electrical, Computer and Energy Technologies (ICECET 2024) 25-27 July 2024, Sydney-Australia (**LC phase shifter for 80 GHz**).	Reviewer
5.	International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2023) 19-20 July 2023, Tenerife, Canary Islands, Spain	Reviewer
6.	1st IEEE International Conference on Innovations in High-Speed Communication and Signal Processing (IHCSP 2023), 4-5 March 2023, NIT Bhopal, India	Session chair, TPC member and Reviewer

7.	11th International Conference on Computing Communication and Sustainable Technologies (ICCCST)-2023, Vivekanand University Bhopal.	Session chair, TPC member and Reviewer
8.	International Conference on Communication, Devices & Computing (ICCDC), 1-3 March, 2023, Haldia, West Bangal, India	TPC member and Reviewer
9.	4th International Conference on Machine Intelligence and Signal Processing (MISP), 12-14 March, 2022, NIT, Raipur, India	TPC member and Reviewer
10.	International conference on communication systems and network technologies (CSNT-2023), TIT, Bhopal (M.P.), 08-09 April, 2023.	Publicity committee chairs and Reviewer
11.	2nd International Conference on **SCI**ence Technology and Management (ICSTM-2022)to be held on 24th- 25th February 2022 in Bangkok, Thailand.	International advisory
12.	IETE National Conference on "VLSI, Communication and Signal Processing" NCVCS 2021-- 27th to 28th November 2021, NIT Bhopal (M.P.)	National advisory
13.	4th International Conference on VLSI, Communication and Signal Processing (VCAS 2021), 24th - 26th September 2021 – Allahabad (Springer conf.).	TPC member and Reviewer
14.	International Conference on Innovative Research in **SCI**ence and Technology 26th - 27th November 2021 – Ethiopia.	International advisory
15.	International conference on communication and information processing (ICCIP)-2021, Pune (Maharashtra), 26th – 27th June, 2021.	Organizing member
16.	International conference on communication systems and network technologies (CSNT-2021), OIST, Bhopal (M.P.), 18-19 June, 2021.	Session chair and TPC
17.	2ndInternational Conference on Technological Innovations in Engineering and Management (ICTIEM-21), Visakhapatnam, 30th - 31st March 2021.	National advisory
18.	4th International Conference on Computing in Engineering and Technology (ICCET)-2019, Lonare, (Maharashtra), 9th – 10th January, 2019	TPC member and Reviewer
19.	International Conference on Advances in Computing, Communications and Informatics 2018 (ICACCI-2018), PES Institute, Bangalore, 19-22 September, 2018.	Session chair
20.	2nd Bhartiya vigyan sammelan & expo 2009, 27th November- 3rd December, 2009.	Session chair

9. Membership of Professional Societies

S.No.	Name of Society	Membership No.	Current Status of Membership	Year of Commencement

1.	IETE	F-501954	Fellow	2012
2.	IE	M-144278-8	Life Member	2011
3.	ISTE	M-82651	Life Member	2012
4.	IEEE	M-94619977	Senior Member	2020- Senior member 2017 – till date (faculty member) 2013-2016 (student member)

10. Details of Responsibilities held in Institutional/Department administration and development works.

S. No.	Responsibility	Month and Year
1.	Examination central valuation OSD	December-2017, April-2018, April-2023, June-2023, April-2024.
2.	Examination assistant superintendent	July 2017.
3.	OSD examination revaluation	April 2008, December 2008.
4.	OSD scrutiny examination	November-December 2012, May-June2013, April-June 2019, November-December 2019.
5.	Institute EPABX incharge	Year 2007-2009
6.	Secretary cooperative store Institute	Year 2007-2009
7.	Institute newsletter committee member	Year 2011
8.	Interview selection committee member (Contract faculty)	Applied mathematics 2009, MCA 2010, Applied mathematics 2011, Electronics and instrumentation 2011, Civil 2012, IT 2012.
9.	Active member UG/PG/MBA/MCA counseling Committee	Till date
10.	Active member UG subject evaluation committee member	Till date
11.	Laboratory incharge Digital electronics Laboratory incharge Electronics workshop Laboratory incharge Microprocessor laboratory	Year 2003-2013, 2017-2022 Year 2003-2013 Year 2003-2013, 2017-2022
12.	Time table incharge (Department)	Year 2003-2010
13.	Mid-term-test coordinator (Department)	Year 2017-till date
14.	Practical examination coordinator (Department)	Year 2017-till date

15.	Training and placement coordinator (Department)	Year 2017-till date
16.	Laboratory manuals developed	Electronics measurements, Electronics workshop, Digital electronics, Analog and digital electronics (PTDC).
17.	Laboratories developed	Electronics measurements, Basic electronics, Digital electronics.
18.	Observer in PEB	Year 2017-till date
19.	Active member physical verification committee	Year 2001-till date
20.	Aayaam coordinator	Art exhibition 2012, Fun games 2018.
21.	Student mentor	Year 2019-till date
22.	Institute Library Prof. Incharge	18th January 2022 to December 2022
23.	Department examination committee member	2022 to till date
24.	Interview committee member (DAVV)	2022
25.	UPSC/MPPSC assistant supervisor	2023-2024
26.	Incharge Head of the department	15/06/2023-25/06/2023
27.	Hostel warden, B.I.E.T. Jhansi (U.P.)	1999-2001

Dr. Leeladhar Malviya

Professor, E&TC

Name of Faculty Member