

Dr. Jayant Gajanan Joshi



1. Name of Faculty: Dr. Jayant Gajanan Joshi
2. Present Position : Lecturer in Electronics, Level :13A
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Government Polytechnic Nashik, Chehdi (BK),
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4. Mobile No. : +91 7875276136
5. E-Mail Id : joshij11@rediffmail.com
6. Date of Birth : 2nd June 1969

7. Memberships of professional organizations/Bodies:

- 1) Senior Member of Institute of Electrical and Electronics Engineers (SMIEEE) (Membership No.90741761)
- 2) Member of Institution of Engineering and Technology IET (UK) (MIET) (Membership No.1100818124)
- 3) Fellow of Institution of Electronics and Telecommunication Engineers (FIETE) (F-237467)
- 4) Member of Institution of Engineers (India) Kolkata (MIE) (M-150486-4)
- 5) Life member of Indian Society for Technical Education (LMISTE-24473)
- 6) Life Member of Instrument Society of India (LMISOI M-1296)
- 7) Listed in the Who's Who in the World.

8. QUALIFICATIONS:

Sr. No.	Examination	Institute	Board/ University	% of Marks	Class Award	Remark
1	Ph.D. (Electronics and Communication Engineering)	National Institute of Technical Teachers' Training and Research, Chandigarh-160019 India	Panjab Technical University		Excellent Ph.D. Thesis awarded by International and National Examiners	

9. ADDITIONAL SKILLS

- 1) Pioneer at International level as Designer and Fabricator of "Metamaterial and Wearable Microstrip Antennas" for applications like BAN, MBAN, Wi-Fi, WLAN, Wi-Max, Public safety band
- 2) Pioneer as Designer and Fabricator of "Wearable Microstrip filters"
- 3) Renowned Designer and Fabricator of "Sensors for measurements of various physical quantities"
- 4) Participating in research and development activities
- 5) Good technical writing skills.

10. HONORS AND AWARDS

- [1] **Best Innovative Research Work (Polytechnic) 2022 Award of Indian Society for Technical Education (Maharashtra and Goa Section).**
- [2] **Engineering Achievement Award 2021 of The Institution of Engineers (India), Nashik Local Centre on 29th April 2022.**
- [3] **Awarded Certificate of Appreciation for Endless Efforts Towards Society on Engineers Day 2021 by Lions International Club Nashik.**
- [4] **Best Research Paper Award** for the Research Paper titled “Compact Z-Shaped Flexible Microstrip Antenna for UHF ISM Band Application” in AICTE Sponsored First International Conference on “Recent Trends in Engineering Science, Technology and Management (IC-RTETM-2022) Organized by Guru Gobind Singh Polytechnic Nashik (MS), India.
- [5] **Received Best Paper Award** at Online International Conference on “Smart Villages : Technology for Sustainable Development” Organized by Govt. Polytechnic Sakoli, 25–26 November 2021.
- [6] **Received K SHANKAR Meritorious Paper Award IEEE BS2020** hosted by IEEE Mumbai Section 2020. For Research paper titled “Circularly Polarized Microstrip Antenna using DGS for IRNSS Services” International Conference of IEEE Bombay Section Signature Conference, 4 – 6 December 2020.
- [7] **First Prize for Research Paper at Institution of Engineers (India), Pune Local Centre,** Annual Technical Paper Meet 2014. For Research paper titled “Circular Slotted Microstrip Patch Antenna Implanted with Metamaterial MSRR Array,” Annual Technical Journal Institution of Engineers (India), Pune Local Centre, Pune.
- [8] **Prof. Rajneesh Arora Best Research Paper Award at IEEE Indian Antenna Week 2014 (IAW 2014), Chandigarh, India.** Organized by IEEE AP-MTT Joint Chapter of Kolkata section, India in association with NITTTR, Chandigarh & Punjab Technical University, Jalandhar, Punjab.

11. ABROAD VISIT:

- 1) Presented a Research Paper titled “**Hybrid Dual Band High Gain Antenna,**” at **IEEE 2009 International Symposium on Antennas and Propagation (ISAP 09), Bangkok, Thailand,** Proceedings of ISAP 09, pp. 457-460, October 20-23, 2009 (Research Paper ID-1251).

12. CAREER DETAILS:

Sr. No.	Organization	Designation	Duration	Period	Work Done in Brief
1	Government Polytechnic, Nashik	Lecturer in Electronics (Selection Grade PB4 13A1)	12 years and 7 months	7/9/2012 to till date	Teaching, Lab development, Curriculum Development, Course/Learning Material development, Industry relations
2	Government Polytechnic, Pune (MPSC Selected)	Lecturer in Electronics (Senior Scale)	11 years	24/7/2001 to 31/08/2012	Teaching, Lab development, Curriculum Development, Course/Learning Material development, Industry relations
3	Shri Sant Gadge Baba Polytechnic, Bhusawal (MS)	Head of Industrial Electronics Engineering Department	07 Years	24/7/1994 to 23/7/2001	Department Administration, Lab development, Teaching, AICTE portfolio

13. SPECIALIZED TRAINING COURSES ATTENDED:

Course Name	Duration	Place	Training Agency
Infosys Springboard	1/7/2024 to 5/7/2024	Infosys, Chandigarh	Infosys, Chandigarh
Latest Wireless and Computing Technologies	14/04/2020 to 18/04/2020 (One Week)	Online	NITTTR, Chandigarh
Neural Networks and CNN from	11-05-20 to 15-05-20 (One Week)	Online	NITTTR, Chandigarh
Power Electronics in Power System	25/05/2020 to 29/05/2020 (One Week)	Online ICT Mode	NITTTR Kolkata
Electric Vehicles	24th to 29th April 2020	Online mode	The Automotive Research Association of India (ARAI), Pune & Rajarambapu Institute of Technology, Islampur, Sangli
Electric Vehicles: Batteries and BMS	28th May to 01st June 2020.	Online mode	The Automotive Research Association of India (ARAI), Pune & Devise Electronics Pvt. Ltd., Pune

Artificial Intelligence & Machine Learning Using Python	18 - 27 May 2020	10 Days Instructor Led Live Online	Finland Labs (A Unit of Revert Technology Pvt. Ltd.) In Association with National Social Summit, IIT Roorkee
E-learning program on Instrument and Control System	28-04-2020	Online mode	Tata Steel
E-learning program on PLC	07/05/2020	Online	Tata Steel
Webinar on “Innovative Disruptive Technology”	19th April 2020	Online	The Magic Data
E-learning program on Machine Learning	07/05/2020	Online	Tata Steel
Personality Development Through Positive Thinking	July 21-25, 2014 (1 Week)	Government Polytechnic, Nashik	NITTTR, Bhopal
Computational and Statistical Methods Applied in Engineering (TEQIP-II sponsored)	July 7-11, 2014 (1 Week)	Jalgaon	Government College of Engineering, Jalgaon
Quality Management Standards & Quality technology Tool	March 3-7, 2014(1 Week)	Pune	NITTTR Bhopal Pune Extension Centre
Nanoscale Integration & Fabrication & Characterization (TEQIP-II sponsored)	October 21-25, 2013 (1 Week)	Surat	SVNIT, Surat
Industrial Training of Technical Teachers (Sponsored by Directorate of Technical Education, Maharashtra State and organized by Government Polytechnic, Pune.)	December 21, 2011 to January 21, 2012 (4 Weeks)	Badawe Engineers, Pune	Directorate of Technical Education (DTE), Maharashtra State
Recent Trends in Microwave Integrated Circuits (Sponsored by AICTE-MHRD)	July 13 - 17 2010 (1 Week)	Tiruchirapalli	NIT, Tiruchirapalli

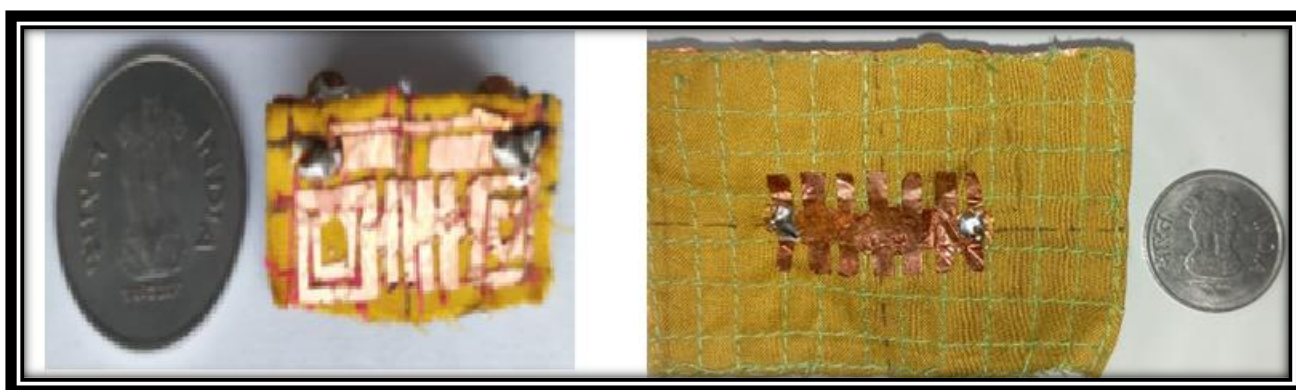
14. RESEARCH ACTIVITIES:

Part a) Research area of Dr. Jayant G. Joshi is designing and fabrication of microstrip patch antennas specially of- (a) Metamaterial antennas (b) Wearable/Flexible/Cloth-based antennas for Industrial, Scientific and Medical (ISM) band, Body area network (BAN) band., Medical BAN (MBAN), Wi-Fi, Wi-Max, WLAN, public safety band, IRNSS services. Some antennas have been fabricated using FR4 and RT Duriod substrates. Wearable antennas have been fabricated on cloth based substates like Polyester, Denim, Jean fabrics, Geotextile (Polypropylene) and flexible low-cost Foam. These antennas are proposed for RF and Mobile communication applications, handheld communication devices, personal digital assistants (PDAs), defense, military and police personnel, navigation, and surveillance, monitoring of airports, public places like malls, bus stations, sportsman activities monitoring, patient monitoring systems. The fabricated antennas have been tested using vector network analyzer and standard instrumentation systems. Dr. Joshi have prepared and developed the equivalent circuit analysis of these antennas using Transmission-line theory to validate the theoretical and experimental results. Advantages of these antenna are compact, low cost, easily integrated in wearer clothing. Results of these antennas are in good agreement. Photograph shows numerous antennas for various applications that have been fabricated and tested by Dr. Joshi.

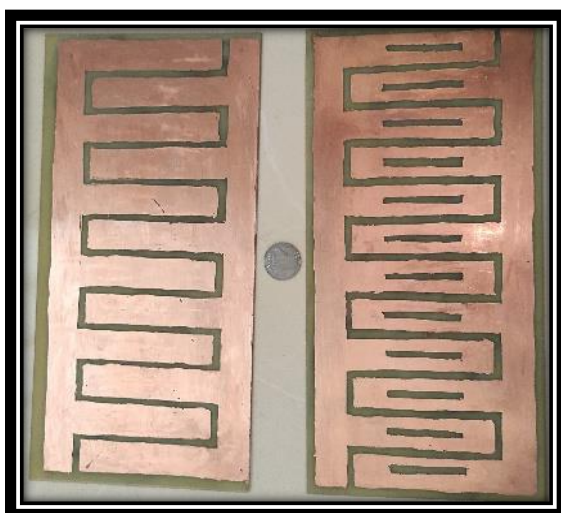
Research work of these antennas have been published in International and National Journals, International Conferences and Workshops of high repute.



Part b) Dr. Jayant G. Joshi has designed and fabricated wearable microstrip filters using flexible low cost polyester cloth substrate. The photographs shows the fabricated and published wearable filters. Wearable filter shown in Photograph (a) is useful for NATO applications. The research paper on this Filter is published in Wiley Microwave and Optical Technology Letters (MOTL). Photograph (b) shows the wearable filter for ISM band and 3.74 GHz to 7.42 GHz is appropriate to Wi-Fi, WLAN and Wi-Max frequency band applications respectively. This Filter research work is published in International Journal of Microwave and Optical Technology (IJMOT). These filters are useful for RF and Mobile communication applications, handheld communication devices, personal digital assistants (PDAs), defense, military and police personnel, navigation and surveillance, monitoring of airports, public places like malls, bus stations, sportsman activities monitoring, patient monitoring systems. The fabricated filters have been tested using vector network analyzer and standard instrumentation systems. Dr. Joshi have prepared and developed the equivalent circuit analysis of these filters using Transmission-line theory to validate the theoretical and experimental results.



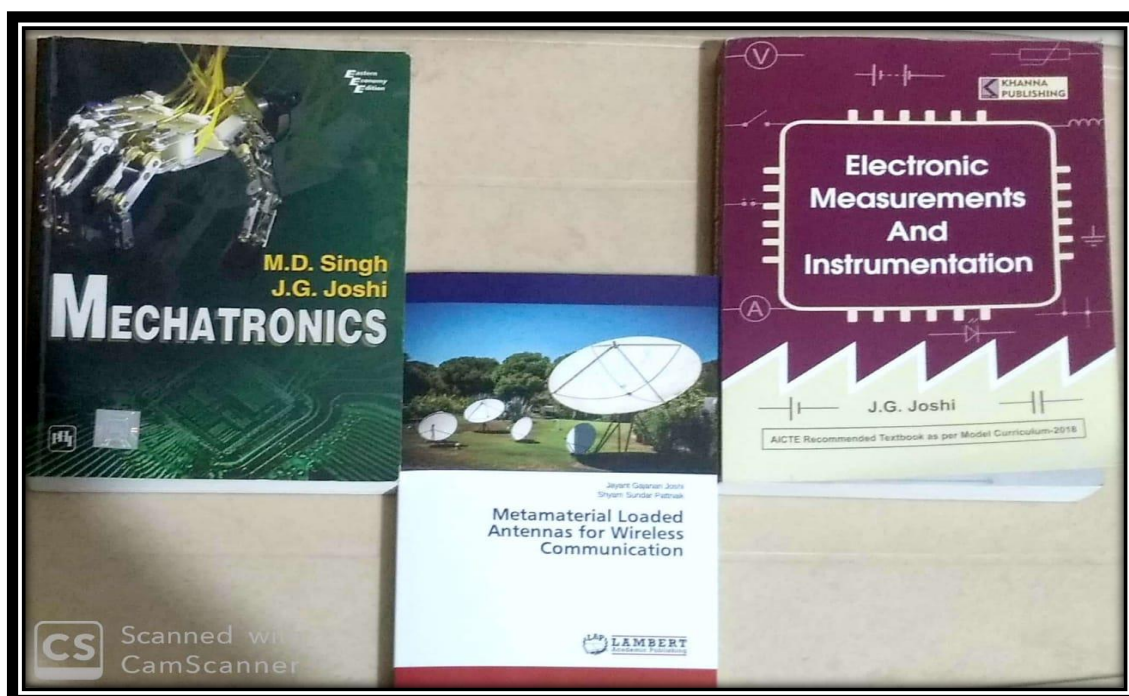
Part c) Dr. Joshi have designed, developed various microstrip planar sensors for measurement of humidity and measurement of solid/liquid levels. These sensors are found to be accurate and linear in performance hence useful for industrial measurements



Publications of Dr. Jayant Gajanan Joshi

A) BOOKS Published

- 1) **J. G. Joshi**, “**Electronic Measurements and Instrumentation**,” Khanna Book Publishing Pvt. Limited, New Delhi, India Pages: 329, 2000, ISBN: 978-93-86173-62-1. (**Recommended as Reference Book for AICTE Model Curriculum**)
- 2) M. D. Singh and **J. G. Joshi**, “**Mechatronics**,” Prentice Learning Pvt. Limited, New Delhi, India, Pages: 496, 2006, ISBN- 978-81-203-2986-7. (**Recommended as Reference Book for AICTE Model Curriculum**).
- 3) **J. G. Joshi** and Shyam S. Pattnaik, “**Metamaterial Loaded Antennas for Wireless Communication**,” LAP LAMBERT Academic Publishing, Germany, Pages: 284, 2014, ISBN 978-3-659-22691-5.



B) BOOK CHAPTERS Published

1. **Jayant Gajanan Joshi**, **Chapter No.: 13**. “Wearable Robotics: A Bibliographic Survey on Actuators, Actuation, and Control Systems With Applications, **Book Title** : Global Perspectives on Robotics and Autonomous Systems: Development and Applications, pp.303-313, 2023. Information Science Reference (an imprint of IGI Global), USA, DOI: 10.4018/978-1-6684-7791-5.ch013. (**SCOPUS Indexed**)
2. **Jayant G. Joshi**, Mandar P. Joshi, Balwinder S. Dhaliwal, and Shyam S. Pattnaik, **Chapter No. 1**: “Introduction to 3D Printing of Sensors, Actuators, and Antennas for Low-Cost Product Manufacturing,” **Book Title** :3D Printing of Sensors, Actuators, and Antennas for Low-Cost Product Manufacturing, pp.1-12, CRC Press Taylor and Francis USA, 2023, ISBN: 9781032046808 (hbk).

3. **Jayant Gajanan Joshi**, and Shyam S. Pattnaik, **Chapter No. 2** : “Metamaterial-Based Electrically Small Antennas (ESA): A Review” **Book Title**: “Handbook of Research on Progressive Trends in Wireless Communications and Networking,” pp. 29-47, 2023, Information Science Reference (an imprint of IGI Global), USA. DOI:10.4018/978-1-6684-5955-3.ch002, ISBN13: 9781668459553, ISBN10: 1668459558, ISBN13: 9781668459560.
4. **J. G. Joshi** and Shyam S. Pattnaik, “Metamaterial Based Wearable Microstrip Patch Antennas” **Chapter No.20** , **Book Title**: “Handbook of Research on Progressive Trends in Wireless Communications and Networking,” pp. 518-556, 2014, Information Science Reference (an imprint of IGI Global), USA. DOI: 10.4018/978-1-4666-5170-8, ISBN13: 9781466651708, ISBN10: 1466651709, EISBN13: 9781466651715.
5. **J. G. Joshi** and Shyam S. Pattnaik, **Chapter No. 613**, “Metamaterial Loaded Microstrip Patch Antennas”; Book Title: “Encyclopaedia of Information Science and Technology,” Third Edition, Category: Networking and Telecommunications, pp. 6219-6238 2014 Information Science Reference (an imprint of IGI Global), USA. DOI: 10.4018/978-1-4666-5888-2, ISBN13: 9781466658882, ISBN10: 1466658886, EISBN13: 9781466658899.
6. **Jayant G. Joshi**, **Chapter No. 11**, “Some Important Aspects to Enhance the Quality of the Technical Education System for Better Industry-Institute Interaction,” **Book Title**: “Strategic Role of Tertiary Education and Technologies for Sustainable Competitive Advantage,” pp. 222-247, 2013, Information Science Reference (an imprint of IGI Global), USA, DOI: 10.4018/978-1-4666-4233-1.



C) RESEARCH PAPERS Published In International, National Journals and Conferences

1. **Jayant G. Joshi**, Mandar P. Joshi, S. Raghavan and Shyam S. Pattnaik, "Dual-Band Polyester-Based Wearable Bandpass Microstrip Filter Using Stepped Impedance Resonator," *International Journal of Microwave and Optical Technology* Vol.19, No 3, pp. 316-324, May 2024(**SCOPUS Indexed**) .
2. Mandar P. Joshi, **Jayant G. Joshi**, and Santosh P. Agnihotri, "Broadband and Compact Design Variations of Z-Shaped Printed Slot Microstrip Antenna," *Progress In Electromagnetics Research C*, Vol. 140, pp. 75-84, 2024. (**SCOPUS Indexed**)
3. **Jayant G. Joshi**, Mandar P. Joshi, and Shyam S. Pattnaik, "Embroidered Dual Band Wearable Microstrip Patch Antenna," *Transactions on Electromagnetic Spectrum*, Vol.3, No.1, PP.51-58, 2024, Doi: 10.5281/zenodo.10020917.
4. **Jayant G. Joshi**, S. Raghavan, and Shyam S. Pattnaik, "Polyester-Based Wearable Microstrip Filter," *Microwave and Optical Technology Letters*, Volume 65, Issue 12, pp. 3069-3075, December 2023. (**SCI Impact Factor 1.392 (SCOPUS Indexed Impact Factor 1.778, H Index 77)**)
5. Mandar P. Joshi and **Jayant G. Joshi**, "Dual Band Slotted Microstrip Antenna for GSM and WLAN Applications," *Institute of Engineers (India), Annual Technical Volume of Electronics and Telecommunication Engineering Division Board, Recent Trends in Antenna Technology for Modern Wireless Communication*, Vol.5, pp. 53–57, 2023, ISBN: ISBN 978-81-965777-7-3.
6. Mandar P. Joshi and **Jayant G. Joshi**, "Compact Dual Band Printed Monopole Antenna for ISM and Wi-MAX," *Institute of Engineers (India), Annual Technical Volume of Electronics and Telecommunication Engineering Division Board*, Vol.3, pp. 41–46, ISBN: ISBN 978-81-945201-9-1, 2020.
7. Mandar P. Joshi, **Jayant G. Joshi**, and Shyam S. Pattnaik, "Stub Loaded Rectangular Ring Shaped Tri-Band Monopole Antenna for Wireless Applications," *International Journal of Advances in Microwave Technology (IJAMT)*, Vol.5, No.2, pp. 227-233, May 2020. DOI:<http://dx.doi.org/10.32452/IJAMT.2020.227233>.
8. Vikas Jain, Balwinder S. Dhaliwal and **Jayant G. Joshi**, "Compact Flexible and Wearable Fractal Patch Antenna for Medical Body Area Network Applications," *International Journal of Microwave and Optical Technology*, Vol.16, No.5, pp. 432-440, 2021. (**SCOPUS Indexed**)
9. Ketan Jagtap, **Jayant G. Joshi**, "Role of Mechatronics in Agriculture Transformation" *International Journal of Innovations in Engineering and Science*, Vol.7, No.1, 2022 pp.01-06 eISSN:2456-3463.
10. **J.G. Joshi** and Shyam S. Pattnaik, "Circular Slotted Microstrip Patch Antenna Implanted with Metamaterial MSRR Array," *Annual Technical Journal Institution of Engineers (India), Pune Local Centre, Pune*, vol.38, pp. 122-126, 2014, ISBN:978-81-924990-2-4. (**First Prize at Institution of Engineers (India), Pune Local Centre, Annual Technical Paper Meet**)
11. Shyam S. Pattnaik and **Jayant G. Joshi**, "Undergraduate Students' Summer Training on Design, Fabrication, and Testing of Antennas a Case Study for Effective Learning," *Forum for Electromagnetic Research Methods and Application Technologies (FERMAT)*, pp. 1-11, 2014, ISSN 2470-4202.
12. **J. G. Joshi**, Shyam S. Pattnaik, and S. Devi, "Geo-textile Based Metamaterial Loaded Wearable Microstrip Patch Antenna," *International Journal of Microwave and Optical Technology*, vol.8, no.1, pp. 25-33, 2013.

13. **Jayant Gajanan Joshi**, "Industrial Training of a Polytechnic Teacher to Enhance the Industry-Institute-Interaction: A Case Study," *IEEE Technology and Engineering Education (ITEE)*, vol. 8, no.2, pp.6-14, June 2013, ISSN 1558-7908.
14. **J. G. Joshi**, Shyam S. Pattnaik, and S. Devi, "Metamaterial Embedded Wearable Rectangular Microstrip Patch Antenna," *International Journal of Antennas and Propagation, Special issue on Wearable Antennas and Systems*, Hindwai Publication Corporation, vol. 2012, article ID. 974315, pp.1-9, doi:10.1155/2012/974315, 2012.
15. **J.G. Joshi**, Shyam S. Pattnaik, and S. Devi, "Rectangular Slotted Microstrip Patch Antenna with Partially Loaded Metamaterial Ground Plane," *International Journal of Microwave and Optical Technology*, vol.7, no.1, pp. 1-10, January 2012.
16. **J.G. Joshi**, Shyam S. Pattnaik, S. Devi, and S. Raghavan, "Magneto-inductive Waveguide Loaded Microstrip Patch Antenna," *International Journal of Microwave and Optical Technology*, vol.7, no.1, pp. 11-20, January 2012.
17. Kuldip Pahwa, Pushkar Mishra, H. P. Sinha, S. S. Pattnaik, and **J. G. Joshi**, "Design and Development of Diamond Shape Fractal Antenna for Wireless Communication," *International Journal of Microwave and Optical Technology*, vol.7, no.2, pp. 101-106, March 2012.
18. **Jayant G. Joshi**, Shyam S. Pattnaik, Swapna Devi and Mohan R. Lohokare, "Bandwidth Enhancement and Size Reduction of Microstrip Patch Antenna by Magneto-inductive Waveguide Loading," *Journal of Wireless Engineering and Technology*, vol.2, no.2, pp.37-44, April 2011 (doi:10.4236/wet.2011.22006).
19. **J.G. Joshi**, Shyam S. Pattnaik, S. Devi and M.R. Lohokare, "Metamaterial Embedded Electrically Small Planar Loop Antenna," *Journal of Telecommunications*, vol.7, no.1, pp. 7-12, February 2011.
20. **J.G. Joshi**, Shyam S. Pattnaik, S. Devi and M.R. Lohokare, "Frequency Switching of Electrically Small Patch Antenna using Metamaterial Loading," *Indian Journal of Radio and Space Physics*, vol.40, no.3, pp.159-165, June 2011.
21. Anil Kumar Agrawal, Shyam Sundar Pattnaik, S. Devi, and **J.G. Joshi**, "Broadband and High Gain Microstrip Patch Antenna for WLAN," *Indian Journal of Radio and Space Physics*, vol.40, no.5, pp.282-286, October 2011.
22. M.R. Lohokare, S. S. Pattnaik, S. Devi, B.K. Panigrahi, and **J.G. Joshi**, "Modified Biogeography-Based Optimization (MBBO)," *International Journal of Bio-inspired Computation*, vol.3, no.4, pp. 252-266, 2011.
23. **J.G. Joshi**, Shyam S. Pattnaik, S. Devi and M.R. Lohokare, "Electrically Small Patch Antenna Loaded with Metamaterial," *IETE Journal of Research*, vol. 56, no.6, pp.373-379, November- December 2010.
24. M.R. Lohokare, S. S. Pattnaik, S. Devi, B.K. Panigrahi, S. Das, and **J.G. Joshi**, "Extrapolated Biogeography-Based Optimization (eBBO) for Global Numerical Optimization and Microstrip Patch Antenna Design," *International Journal of Applied Evolutionally Computation*, vol.1, no.3, pp.1-29, July-September 2010.
25. **J.G. Joshi**, "Need of Industrial Training In Polytechnic Education System-Some Aspects," *The Indian Journal of Technical Education*, 2006.
26. **J.G. Joshi**, "Mechatronics and its Role in Industrial Sector," *Technical Journal of Institution of Engineers (India)*, Pune Local Centre, vol.34, March 2004, pp.38-39.
27. **J.G. Joshi**, "Project Work in Polytechnic Education System-Some Aspects," *The Indian Journal of Technical Education*, vol.27, no.4, Oct-Dec.2004, pp.109-114.
28. **J.G. Joshi**, "Need of Research and Development Environment in Polytechnics," *The Indian Journal of Technical Education*, vol.22, no.3, July-Sept 1999, pp.47-50.
29. **J.G. Joshi**, "Role of Quality Functions in Technical Education," *The Indian Journal of Technical Education*, vol.20, no.4, pp 47-50, Oct-Dec.1997.

30. Vikas Jain, Shubhranshu Pattnaik, Balwinder S. Dhaliwal, and **Jayant G. Joshi**, “Compact Wearable Fractal Patch Antenna and its Performance analysis for BAN,” Proceedings of 36th National Convention of E and TC organized by Divisional Board of Institution of Engineers (India) Bathinda Local Centre, Bathinda, 4-5 December 2021, pp.122.
31. Shivam Gaikwad, Mandar P. Joshi, and **Jayant G. Joshi**, “Design of Circular Microstrip Antenna Using Python.” Proceedings of 3rd IEEE Bombay Section Signature Conference (IBSSC-2021) Gwalior, 18-20 November 2021.
32. **Jayant G. Joshi**, “Interdigital capacitor (IDC): A Multipurpose Electronic Component as a Microstrip Patch Antenna and a Sensor” IEEE Bombay Section In The Loop A Quarterly News Letter, July 2021-Vol.2-Issue3, pp. 13-15.
33. **Jayant G. Joshi**, “Wearable Microstrip Patch Antennas: A Promising Element of Wearable Technology” IEEE Bombay Section In The Loop A Quarterly News Letter, October 2021-Vol.2-Issue 4, pp.12 .
34. Mandar P. Joshi, Mugdha S. Deole, Sabaa E. Mansoori and **Jayant G. Joshi**, “Capacitively Coupled E-Shaped Broadband Microstrip Antenna,” 4th IEEE International Conference on Communication, Information and Computing Technology, Mumbai 25-27 June 2021.
35. Mandar P. Joshi, Umesh S. Gite, **Jayant G. Joshi**, “Circularly Polarized Microstrip Antenna using DGS for IRNSS Services,” IEEE Bombay Section Signature Conference, 4–6 December 2020, DOI: 10.1109/IBSSC51096.2020.9332166. (**K SHANKAR meritorious paper Award IEEE BS 2020 IEEE Bombay Section 2020**).
36. **Jayant G. Joshi**, Vaishali J. Joshi, Balwinder Singh Dhaliwal and Shyam S. Pattnaik “Development of Linkage between Agriculture Industries and Technical Institutions (AITIL): A Step towards Implementation of NEP 2020,” International Conference on Best Innovative Teaching Strategies(ICON-BITS), Birla Institute of Technology and Science Pilani (Rajasthan), 29-31 July 2021.
37. **Jayant G. Joshi**, Mandar P. Joshi, Balwinder Singh Dhaliwal and Shyam S. Pattnaik “Soil Humidity Measurement using Microstrip Interdigital Capacitor (IDC) and Rectangular Slotted Fingers Interdigital Capacitor (RSFIDC),” Technical Volume of 35th Indian Engineering Congress 2020, The Institution of Engineers (India), Kolkata (IEI) and celebration of Centenary, pp. 947-953, December 18-20, 2020, ISBN 978-81-950662-0-9.
38. **जयंत गजानन जोशी** लेखाचे शीर्षक “परिधानायोग्य आकाशक : बिनतारी दूरसंदेशवहन माध्यमातील नवीन तंत्रज्ञान” मराठी विज्ञान परिषद, (मुंबई) पत्रिका, ऑगस्ट २०२१ पृष्ठ क्र. ११-१४, वर्ष- ५४, अंक- ५. (**Marathi Vidnyan Parishd Patrika, August 2021, pp.11-14 Year-54, Issue-5**).
39. **जयंत गजानन जोशी** लेखाचे शीर्षक “वेअरेबल मायक्रोस्ट्रीप पॅच अँटेनाचे डिझाइन, विकास आणि उपयोग: एक पुनरावलोकन” “अभियंता बंधू 2020” “Abhiyanta Bandhu 2020” The Institution of Engineers (India), Kolkata (IEI) has celebrated 35th Indian Engineering Congress 2020 and Centenary and published a Technical Journal in Regional languages for Engineering Fraternity, under the aegis of its “National Language Promotion Committee” pp. 111-115.
40. **Jayant G. Joshi**, Balwinder Singh Dhaliwal and Shyam S. Pattnaik, “Curriculum Development for Autonomous Technical Institutions under NEP 2020 to Accelerate Multidisciplinary Research: A Step towards *Atmanirbhar Bharat*” Proceedings of 1st National Conference on UNLOCKING ATMANIRBHAR BHARAT THROUGH NEP-2020, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh pp. 1-6, 27th November, 2020.

41. **Jayant G. Joshi**, "Chapter 6 Feedback from Participant" Proceedings of Webinar Series "Atmanirbhar Bharat: Transmutation from Privation to Exuberance", National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh and Bharatiya Shikshan Mandal pp. 64-72, July 27-31, 2020.
42. Mandar P. Joshi, **Jayant G. Joshi**, and Shyam S. Pattnaik, "Wearable Right Angle Triangular Microstrip Patch Antenna for MBAN Application," Proceedings of National Conference on Biomedical Engineering (NCBE-2020) sponsored by Department of Scientific and Industrial Research, January 22-24, 2020.
43. Mandar P. Joshi, **Jayant G. Joshi**, and Shyam S. Pattnaik, "Hexagonal Slotted Wearable Microstrip Patch Antenna for Body Area Network," Proceedings of 2019 IEEE Pune Section International Conference (PuneCon 2019) MIT World Peace University, Pune, India December 18-20, 2019. (**IEEE Explore**) DOI: [10.1109/PuneCon46936.2019.9105773](https://doi.org/10.1109/PuneCon46936.2019.9105773).
44. **J.G. Joshi**, and Shyam S. Pattnaik, "Tri-band Wearable microstrip patch Antenna," Proceedings of International Symposium on Antennas and Propagation (APSYM 2016), Department of Electronics, Cochin University of Science and Technology (CUSAT), Cochin, India, , pp. 109-112, December 15-17, 2016.
45. **J.G. Joshi** and Shyam S. Pattnaik, "Dual Band Wearable Microstrip Patch Antenna," Proceedings of IEEE Indian Antenna Week 2014 Workshop on Advanced Antenna Technology (IEEE IAW 2014), 26-30 May, 2014, Hotel JW Marriot, Chandigarh, India. (**Prof. Rajneesh Arora Best Research Paper Award**).
46. Chirag Arora, Shyam S. Pattnaik, R. N. Baral, and **J.G. Joshi**, "Performance Enhancement of Microstrip Patch Antenna Array using SRR Loading," Proceedings of IEEE Indian Antenna Week 2014, Workshop on Advanced Antenna Technology (IEEE IAW 2014), 26-30 May, 2014, Hotel JW Marriot, Chandigarh, India.
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53. **J. G. Joshi**, Shyam S. Pattnaik, and S. Devi, "Metamaterial Loaded Overlapped Microstrip patch Antenna," Proceedings of National Seminar on Innovations and Applications in Engineering & Applied Sciences (IAEAS 2011), Gurukul Kangri Vishwavidyalaya, Haridwar, India, November 9-10, 2011.

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55. **J.G. Joshi**, Shyam S. Pattnaik, S. Devi and M.R. Lohokare, "Metamaterial Antenna for Aircrafts Ice Detection Sensor," Proceedings of National Symposium on New Horizons in Avionics Display Systems (NHADS-2010), CSIO, Chandigarh, October 23, 2010.
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57. Chirag Arora, **J.G. Joshi**, Shyam S. Pattnaik, and S. Devi, "Textile Based Metamaterial Antenna Using Off Set Split Ring Resonator and Extended Stubs," Proceedings of Twelfth National Symposium on Antennas and Propagation (APSYM 2010), Department of Electronics, Cochin University of Science and Technology (CUSAT), Cochin, India, December 14-16, 2010.
58. S. Devi and **J.G. Joshi**, "Metamaterial Loaded Electrically Small Microstrip Patch Antenna for WLAN," Proceedings of National Seminar on Wireless Communication and Mobile Computing, Department of Electronics and Telecommunication, Ajay Binay Institute of Technology, Cuttack, India, pp.13-17, October 8-9, 2010.
59. **J. G. Joshi**, Shyam S. Pattnaik, S. Devi, and M.R. Lohokare, "Research on Antenna at ETV Centre," Proceedings of National Conference on Advances in Video, Cyber Learning and Electronics (ADVANCE 2010) NITTTR, Chandigarh, India, pp. 207-210, February 18-19, 2010.
60. S.S. Pattnaik, **J.G. Joshi**, Swapna Devi, and M.R. Lohokare, "Hybrid Dual Band High Gain Antenna," Proceedings of IEEE 2009 International Symposium on Antennas and Propagation (ISAP 09), Bangkok, Thailand, pp.457-460, October 20-23, 2009.
61. **J.G. Joshi**, S.S. Pattnaik, and Swapna Devi, "Hybrid Split Ring (HSR) Planar Metamaterial Antenna," Proceedings of International Radar Symposium India-2009 (IRSI-09), Bangalore, India, pp.557-560, December 8-11, 2009.
62. **J.G. Joshi**, S.S. Pattnaik, S. Devi, M.R. Lohokare, and Chintakindi Vidyasagar, "Offset Fed Diamond Shaped Split Ring (DSSR) Planar Metamaterial Antenna," Proceedings of IEEE Applied Electromagnetic Conference (AEMC2009), Kolkata, India, December 14-16, 2009, DOI:10.1109/AEMC2009. 5430686. (**IEEE Explore**)
63. **J.G. Joshi**, S.S. Pattnaik, S. Devi, and M.R. Lohokare, "Extended Rectangular Split Ring (ERSR) Planar Metamaterial Antenna," Proceedings of 12th International Symposium on Microwave and Optical Technology, 2009 (ISMOT 09), New Delhi, India, pp.261-264, December 16-19, 2009.
64. M. R. Lohokare, S.S. Pattnaik, S. Devi, K. M. Bakwad, and **J.G. Joshi**, "Parameter Calculation of Rectangular Microstrip Antenna Using Biogeography-Based Optimization," Proceedings of IEEE Applied Electromagnetic Conference (AEMC2009), Kolkata, India, December 14-16, DOI:10.1109/AEMC 2009.5430676. (**IEEE Explore**)
65. M. R. Lohokare, S.S. Pattnaik, S. Devi, B.K. Panigrahi, K. M. Bakwad, and **J.G. Joshi**, "Modified BBO and Calculation of Resonant Frequency of Circular Microstrip Antenna," Proceedings of World Congress on Nature and Biologically Inspired Computing (NaBIC-2009), December 9-11, Coimbatore, India, pp. 487-492, DOI:10.1109/NABIC 2009.5393365 (**IEEE Explore**).

66. Meenakshi Batra, S.S. Pattnaik, **J.G. Joshi**, and S. Devi, "Design of Planar Left-Handed Metamaterial using Triangular Split Structure," 12th International Symposium on Microwave and Optical Technology 2009 (ISMOT 09), New Delhi, India, pp.606-609, December 16-19, 2009.
67. **J. G. Joshi**, "Monitoring of Nitrogen Dioxide Gas using MEMS Microsensor," Proceedings of National Conference on Signal Processing & Automation (NCSPA-07), Department of Instrumentation, Padmashree Dr. D Y Patil Institute of Engineering and Technology, Pimpri, Pune, India, pp.99-100, September 7-8, 2007.
68. **J. G. Joshi, and C. R. Joshi**, "Industrial Case Studies- Need For Faculty Members in Engineering Education System," Proceedings of 37th ISTE Annual Convention and National Seminar on Excellence in Technical Education through Innovation, Manipal Institute of Technology, Manipal, India, 2007, pp.47.
69. **J. G. Joshi**, "Measurement of Soil Electrical Parameters using Aluminium Electrodes," Proceedings of 11th National Seminar on Physics and Technology of Sensors (SENSORS-11) Department of Electronic Science, Pune University, India, pp.C18-1 to C18-5, February 27-March 1, 2006.
70. **J. G. Joshi, and C. R. Joshi**, "Industry-Institute Interaction through Interdisciplinary Subjects in the Curriculum of Engineering Education System-Some Aspects," Proceedings State Level ISTE Convention, Government Polytechnic, Aurangabad, India, 2006.
71. **J. G. Joshi**, "Measurement of Vibrations using MEMS Accelerometer," Proceedings of National Conference on Modern Trends in Electronics and Communication Systems, (MTECS-05), Aligarh Muslim University, Aligarh, India, 2005.
72. **J.G. Joshi**, and M.D. Singh, "Microcontroller Based Microelectromechanical System using Barium Titanate Microsensor," *Proceedings of International Conference on Instrumentation*, (INCON 2004), PIET (COEP), Pune, India, pp.51, 2004.
73. **J. G. Joshi**, "Mechatronics and Scope of MEMS in Mechatronics," Proceedings of National Conference on Emerging Trends in Mechatronics, MIT, Aurangabad, India, pp. 75-78, 2004.
74. **J. G. Joshi, and R.V. Yenkar**, "A Novel Approach to Industry-Institute Partnership," Proceedings of Sixth Annual Convention of Maharashtra and Goa Section of ISTE, Dr. Babasaheb Ambedkar Technological University, Lonere, India, pp.184-188, December 14-15, 2001.

Projects Presented in Student Poster and Project Presentation Contest and Workshops

75. **J. G. Joshi**, Shyam Sundar Pattnaik, and S. Devi, "Metamaterial Loaded Wearable Microstrip Patch Antenna," Workshop on Recent Trends in RF Technologies, organized by IEEE MTTS Student Branch Chapter, Department of Electronics Engineering, Rajasthan Technical University, Kota, February 26-27, 2011.
76. Chirag Arora, **J. G. Joshi**, Shyam Sundar Pattnaik, and S. Devi, "Offset Cut Circular Split Ring Resonator with Extended Stubs as Planar Wearable Metamaterial Antenna," Workshop on Recent Trends in RF Technologies, organized by IEEE MTTS Student Branch Chapter, Department of Electronics Engineering, Rajasthan Technical University, Kota, February 26-27, 2011.
77. **J. G. Joshi** and Shyam Sundar Pattnaik, "Cloth Based Wearable Metamaterial Antenna," Organized by IEEE MTT-S Delhi Section and IEEE MTT-S IIT Delhi Student Branch Chapter, held at Institute of Engineering and Technology, Alwar, India, December 16, 2009.

List of Articles Published in IEEE Bombay Section Newsletter “In The Loop” :

Sr. No.	Title of Article and Author	Details of Publication
1.	Frequency Selective Surfaces (FSS), Jayant G. Joshi	Volume 4, Issue 3, pp.23, December 2023.
2.	3-D Printed Microstrip Patch Antennas, Jayant G. Joshi	Volume 4, Issue 2, pp.16, August 2023.
3.	Microstrip Filters , Jayant G. Joshi	Volume 4, Issue 1, pp.14-15, April 2023.
4.	Wearable Robots, Jayant G. Joshi	Volume 4, Issue 3, pp.17, December 2022.
5.	Novelty of Usage of Metamaterial in Microstrip Patch Antennas, Jayant G. Joshi	Volume 3, Issue 3, pp.13, September 2022.
6.	Filtenna: An Adaptable Element in RF and Wireless Communication, Jayant G. Joshi	Volume 3, Issue 1, pp.15, February 2022.
7.	Wearable Microstrip Patch Antennas: A Promising Element of Wearable Technology, Jayant G. Joshi	Volume 2, Issue 4, pp.12, October 2021.
8.	Interdigital capacitor (IDC): A Multipurpose Electronic Component as a Microstrip Patch Antenna and a Sensor, Jayant G. Joshi	Volume 2, Issue 3, pp.13-14, July 2021.

15. Reviewer for International Journals of High Repute

1. Working as a reviewer for the renowned International Journals, Transactions and Magazines like IEEE, Elsevier, Progress in Electromagnetic Research (PIER), Wiley MOTL, Taylor and Francis.

16. WORK DONE IN THE AREA OF TECHNICAL EDUCATION

1. Rigorously working on imparting multidisciplinary skills amongst students.
2. Regularly participating in National Education Policy (NEP 2020) to contribute various policies to be adopted in technical education. (Participating in their Conferences & Seminars)
3. Regularly publishing various articles (in Journals and Newsletters by IEEE, ISTE etc.) based on teaching practices and methodologies in engineering and technical education system.
4. Visiting and conducting Case Studies at various industries at personal level.

17. WORKSHOP/ COMPETITION ORGANIZED/ARRANGED

1. Technical Program Committee Member for IEEE International Region 10 Symposium TENSYP 2022 (July 2022).
<https://www.ieeebombay.org/tensymp2022/technical-programme-committee/Conference>
2. Coordinator for Nashik District Level Online the Research Paper Competition organized on the occasion of 75th Anniversary of Indian Independence.

18. PROJECTS GUIDED TO STUDENTS

1. Wearable exoskeleton is the project guided to SYEL SS students. It is useful to a person's/patients having muscle disorders such as C-4 C-5 C-6 Spinal cord injuries, muscular dystrophy, partially paralyzed patients, elderly people, Parkinson's patients, etc. This exoskeleton is completely fabricated within four walls of the institute laboratory, tested and successfully implemented to improve person's ability to move and perform daily activities.

2. It is the correlation of Seminar and Project work of Third Year Diploma in Electronics and Telecommunication Engineering. This Seminar and Project work has been carried out in academic year 2020-21. As a Seminar guide, I had assigned a Seminar on “Graphene Based Capacitors” to a candidate of Third Year Electronics and Telecommunication Engineering. On successful completion of the Seminar presentation and related Term work in ODD Semester the candidate has submitted the detailed Seminar Report.

Further, in EVEN Semester the Project has been allotted to same candidate along with a Project group comprising three candidates. The title of Project was “**Design and Development of Capacitors using Various Dielectric Materials for Electronic Applications**”.

This group has successfully fabricated different capacitors using various dielectric materials such as Polypropylene, Polyester, Paper, Graphene etc. All the capacitors were fabricated and tested within the four walls of institute laboratory. The results are found to be in good agreement. These capacitors conceptualized in seminar work have been fabricated under project work by the candidates. This work has been appreciated by IEEE Mysuru Sub-section of IEEE Bangalore Section.

19. EDITOR

Editor of SSGM Journal of Science and Engineering (SSGMJSE) in the field of Microwave Engineering, Wearable and Metamaterial Microstrip Patch Antennas and Microstrip Filters.

20. WORK DONE AT INSTITUTION/ON ORGANIZATIONAL LEVEL

1. Developed Lab Manuals and sensors in Instrumentation and Measurement Lab
2. Guiding various multidisciplinary projects at institute level.
3. Write-Off Committee member at institute level.
4. Involved in various committees assigned by DTE(MS), RO DTE Nashik, MSBTE & Examination Cell
5. Laboratory development, designing of new experiments

21. WORK DONE FOR SOCIETY

1. Published article on “**Wearable Antenna Technology**” and spreading this technology in regional language **Marathi** through leading Magazine **Marathi Vidyan Parishad Patrika, Mumbai** India.
2. Radio Vishwas Community Radio 90.8 has broadcasted an interview of Dr. Jayant G. Joshi on the topic “**Wearable Antenna Technology**” under event “**Dilkhulas Gappa**” in regional language Marathi.
3. Working as **Nodal Officer (Nashik Region (Nashik Region at Regional Office DTE Nashik)) of Springboard Infosys training scheme** of Govt. of Maharashtra State-Infosys. It is an on-line Training scheme offered by Infosys for Students and Faculty members of Diploma, Degree and PG professional education.
4. Working as a **Coordinator** (from last 4 years) of Govt. of Maharashtra State, Ministry of Higher and Technical Education (**Nashik Region at Regional Office DTE Nashik**) **Scholarship for Higher Education in Foreign Countries for Meritorious Students Scheme for open category students.**
5. **Coordinator of Spoken Tutorials (MOOCS Tutorials IIT Mumbai)** Training on “**Arduino based systems**” sponsored by **Indian Institute of Technology (IIT) Mumbai**. Also organized this hands-on workshop for Polytechnic Students and Faculty Members of (**Nashik Region**).
6. Delivered a Introductory Lecture on “Artificial Intelligence” to the Students at Clifford International School Nashik.

7. Conducted Oxygen Cylinder Inspection at various hospitals in Nashik during COVID 19 period. The activity was assigned by Hon. Collectorate office Nashik.
 8. Performing duties in conduction of MPSC and UPSC examinations assigned by Hon. Collectorate office Nashik.
 9. Performing duties in conduction of various elections assigned by Hon. Collectorate office Nashik.
22. Radio Vishwas 90.8 Community Radio Nashik has prepared and broadcasted my Interview (Dr. Jayant Gajanan Joshi) on topic “**Wearable Antenna Technology**” under “**Dilkhulas Gappa**” on 01/10/2021 at 6.00pm. In this interview, the importance, applications and fabrication techniques of Wearable antennas is discussed. The brochure is as follows for your kind information please.



**दिलखुलास
गप्पा** 
with
RJ बागेश्री



डॉ. जयंत जोशी
प्रोफेसर, गव्हर्नमेंट पॉलिटेक्निक
कॉलेज सामनगाव

**Wearable Antenna या तंत्रज्ञानाविषयी
जाणून घेण्यासाठी नक्की ऐका**

शुक्रवार दि. ०१ ऑक्टोबर'२१
संध्याकाळी ६:०० वाजता 



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CONSULTANCY AND OTHER WORK

1. Worked as a Technical Expert in the Committee of Office of Commissioner of Police to decide technical specifications of Cameras for Traffic Police of Nashik City.
2. Worked as a Committee member to Scrap of Electronic equipment's at Department of Agriculture, Nashik, Igatpuri Office.

Contribution as Keynote Speaker/Expert Talks Delivered

Sr. No.	Training/Workshop Details	Topic and Schedule
1.	Board of Student Development SPPU Sponsored Expert Lecture at Maharaja Sayajirao Gaikwad Mahavidyalaya Malegaon Camp for UG and PG Students	“Artificial Intelligence” on 15 th February 2024 during 10.00 am to 12.30 pm.
2.	One Week Directorate Technical Education Mumbai (MS) Sponsored One Week FDP on “Design and Development of Microstrip Patch Antennas and Wearable Antennas for Wireless Communication” organized by Government Polytechnic Nashik.	Metamaterial and Wearable Antennas 27 th Feb-2024, Tuesday 10.00 am to 11.30 am. Fabrication and Testing of Flexible MPAs 29 th Feb.2024 11.45 to 3.30 pm.
3.	IEEE ComSoc Bombay Section , IEEE WIE SB, IEEE SB SSGMCE, Shegaon Sponsored One Day Workshop for Ph.D. Aspirants, M E and B. E. students of Shegaon, Khamgaon and Amravati Region	“Microstrip Patch Antennas and Wearable Microstrip Patch Antennas: Developments and Applications” 06 th October 2023 during 9.30 am to 6.00pm.
4.	AICTE ATAL-FDP Academy’s One Week Faculty Development Programme Research Methodology and Optimization Techniques (RMOT-2021) Organized by Govt. Polytechnic Nashik	Writing of Research Paper 17/12/2021 during 10.30 am to 12.30 pm.
5.	“Complete Radio Learning Workshop” organized by Radio Vishwas 90.8 Community Radio Nashik	Technical expert in Telecommunication on 27/10/2021 during 10.00 am to 11.00 am.
6.	Pimpri-Chinchwad College of Engineering, Pune (PCCoE), Department of Electronics and Telecommunication Engineering	Wearable Microstrip Patch Antenna Technology, 13/11/2021 at 11.30 am to 1.00pm
7.	One Week National Level Short Term Course (STC) on “Flexible and Wearable Antennas for Next Generation Applications” August 02-06, 2021 organized by Electronics & Communication Engineering Department of National Institute of Technical Teachers’ Training and Research (NITTTR) Chandigarh, India. (Participants were Research Scholars, Faculty Members of Engineering Colleges and Polytechnics, Research Guides/Mentors of Various Universities and Laboratories	Textile Based Wearable/Flexible Antennas: Fabrication and Testing Case Studies. (*Tutorial) Date:05/08/2021 Time: 11:30 AM to 1:00 PM
8.	Pravara Institution of Electronics and Telecommunication Engineers Professional Activity Centre (IETE PAC) Webinar Series Organized by Pravara Rural Engineering College, Loni (MS), India. (Participants were Research Scholars, IETE Office bearers, Officials of Defense and Military, Research Guides/Mentors of Various Universities and Laboratories)	Flexible and Wearable Microstrip Patch Antennas for Wireless and Mobile Communication (Expert Talk) Date:31/07/2021 Time: 10:00AM to 12:00 PM
9.	One Week State Level Faculty Development Programme (Online FDP) on “Research Aspects in Manufacturing Science” (RAMS-21)” 30 th March to 3 rd April 2021 organized by Government Polytechnic Nashik India Approved by Maharashtra State Board of Technical Education (MSBTE) Mumbai, India.	Role of Sensors in Automation (Expert Talk) Date:03/04/2021 Time: 11 AM to 1:00 PM

10.	One Week Online National Level Faculty Development Programme (FDP) on “Advances in SCADA & 5 G Technology” July 5, 2021 to July 9, 2021 organized by Pravara Rural Education Society's Sir Visvesvaraya Institute of Technology, Nashik in association with IETE.	Wearable Microstrip Patch Antennas Date:09/07/2021 Time:10 am to 12 pm
11.	MVPSs KBT College of Engineering, Nashik	Online Expert Lecture for Students and Faculty Members on topic “Microstrip Patch Antennas for Wireless and Mobile Communication: Design Fabrication and Analysis” Date:16/10/2021.
12.	One Week AICTE Training And Learning (ATAL) Academy (National Level) FDP on “Flexible and Wearable Antennas: Recent Advancements, Fabrication Techniques and Applications” October 12-16, 2020 organized by Electronics & Communication Engineering Department, National Institute of Technical Teachers’ Training and Research (NITTTR) Chandigarh, India. (ICTO-SP-18)	Fabrication Techniques for Textile Material Based Antennas (* Workshop on Fabrication Technology) Date:13/10/2020 Time: 12:0 Noon to 1:30 PM
13.	STTP on “Emerging Research Trends in Electronics, Telecomm & Applied Fields” Organized by MIT College of Engineering, Pune in Association with IEEE Communication Society Chapter & Renu Electronics Pune	“Metamaterial and Wearable Microstrip Patch Antenna” 12/12/2014
14.	Institution of Engineers (India) Sponsored MECHASTREAM-2013 Lecture Series Organized by Dept. of Mech. Engg. Govt. Polytechnic Nashik	“Micro-Electromechanical Systems (MEMS) on 29 th July 2013 during 29 th July-30 th July 2013

SIGNATURE

(Dr. Jayant Gajanan Joshi)