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Publication counts and H-index	• Scopus (Publications = 72, Citation Count = 204, H-index = 7) • Web of Science (Publications = 25, Citation Count = 33, H-index = 3, verified peer review= 71) • Google Scholar (Citation Count =334, H-index = 8, I10index = 5)
Qualifications with Class / Grade	: 1. Ph.D. in Electronics & Telecomm. Engineering from University of Mumbai on Topic “Dual Polarized Microstrip Antennas for Multiband and Broadband Response”, August, 2022 2. M.E. – Electronics Engineering from University of Mumbai in 2013, 1st class 68.86%. 3. B.E. -Electronics & Telecomm. Engineering from University of Pune in June 2007, 1st class 60.00%.
Total Experience in Years	: Teaching: 19.3 years 1. Assistant Professor, EXTC Department, D.J. Sanghvi College of Engineering from 5.01.2015 to till date. 2. Assistant Professor, EXTC Department, Y.T.C.E.M. from 1.3.2014 to 30.12.2014. 3. Lecturer, EXTC Department, Y.T.C.E.M. from 15.7.2008 to 28.2.2014. 4. Lecturer (Adhoc), K. J. S. C. E., from 10.7.2007 to 11.7.2008.
Papers Published in Journals and Conferences	: Refereed/Peer Reviewed International Journal Publications: International: 20 (Post Ph. D: 12, During Ph. D: 8) Post Ph. D Publications:

1. Amit A. Deshmukh, Venkata A. P. Chavali, **Aarti G. Ambekar**, “Isosceles Triangular Microstrip Antenna Against Varying Angle For Circular Polarized Response”, International Journal of Microwave Optical Technology Letters, vol. 20, no. 5, pp. 508-515, September 2025. [**Scopus**]
2. **Aarti G. Ambekar**, Amit A. Deshmukh, “Thinner Substrate Reconfigurable Design of Corner Truncated Square Microstrip Antenna for Polarization Agile Response in GSM Application,” International Journal of Communication Systems, Vol. 38, No. 3, pp. 1-11, February, 2025, DOI: <https://doi.org/10.1002/dac.6119> [**Scopus and Web of Science**]
3. Amit A. Deshmukh, Jugal Manek, **Aarti G. Ambekar**, “Circularly Polarized Variations of Truncated Corner Square Microstrip Antennas Employing a U-slot”, IETE Journal of Research, vol. 71, no. 2, pp. 554-565, Nov 2024. <https://doi.org/10.1080/03772063.2024.2426698>. [**Scopus and Web of Science**]
4. Amit A. Deshmukh, Kushal Katira, **Aarti G. Ambekar**, Venkata A P Chavali, Hari Vasudevan, Tushar V. Sawant, “Gap Coupled Designs of Hexagonal Microstrip Antennas on Thinner Substrate,” Progress In Electromagnetics Research C, Vol. 145, pp. 107-117, 2024, doi:10.2528/PIERC24050603. [**Scopus and Web of Science**]
5. **Aarti G. Ambekar**, Amit A. Deshmukh, “Ring Shape Microstrip Antenna Backed by Modified Ground Plane for Multiband Response in GSM and Radar Applications,” Journal of Microwaves, Optoelectronics and Electromagnetic Applications, Vol. 23, No. 2, pp. 1-16, June, 2024, DOI: <https://dx.doi.org/10.1590/2179-10742024v23i2281273>. [**Scopus and UGC care**]
6. Venkata A P Chavali, Amit A. Deshmukh, **Aarti G. Ambekar**, “Compact Wideband Gap-Coupled Design of Shorted Rectangular Microstrip Antenna Using Rectangular Slot Cut Ground Plane,” International Journal of Microwave and Optical Technology, Vol. 19, No. 3, pp. 297-304, May. 2024. [**Scopus**]
7. Venkata A. P. Chavali, Amit A. Deshmukh, **Aarti G. Ambekar**, Hari Vasudevan, Tushar V. Sawant, “Reconfigurable Designs of Sectoral Microstrip Antennas for Wideband and Circularly Polarized Response,” Progress In Electromagnetics Research C, Vol. 143, pp. 23-33, 2024, doi:10.2528/PIERC24030301. [**Scopus and Web of Science**]
8. A. A. Deshmukh, **Aarti G. Ambekar**, Venkata A P Chavali, “Circularly Polarized Gap-coupled Variations of Square Microstrip Antennas Employing U-slot for WLAN and Bluetooth Applications,” Electromagnetics, Vol. 44, no. 1, pp. 1–17, March 2024. [**Scopus and Web of Science**]
9. A. A. Deshmukh, **A. G. Ambekar**, Venkata A. P. Chavali, “Reconfigurable Designs of E-shape and U-slot Cut Rectangular Microstrip Antennas for Wideband and Circular Polarized Response,” International Journal of Microwave and Optical Technology, Volume 19, pp. 71-79, Jan. 2024. [**Scopus**]
10. A. A. Deshmukh, Venkata A. P. Chavali, and **A. G. Ambekar**, “Circularly Polarized Gap-coupled Designs of Modified Square Microstrip Antennas for WLAN and Bluetooth Applications,” Progress in Electromagnetics Research C, vol. 138, pp. 233–246, Jan. 2023, doi: <https://doi.org/10.2528/pierc23081403>. [**Scopus and Web of Science**]
11. A. A. Deshmukh, **A. G. Ambekar**, and Venkata A. P. Chavali, “Wideband Designs of U-slot Cut Square Microstrip Antenna Using Modified Ground

Plane Profile,” Progress in Electromagnetics Research C, vol. 130, pp. 1–14, Jan. 2023, doi: <https://doi.org/10.2528/pierc23010503>. [**Scopus and Web of Science**]

12. **Ambekar A.G.**, Deshmukh A.A.,” Low Profile Design of Regular Shape Microstrip Antennas Backed by Fractal Slots Cut Ground Plane for Circular Polarized Response,” Progress In Electromagnetics Research C, Vol 129, pp 203-219, 2023. [**Scopus and Web of Science**]

Publications during Ph. D:

1. A. A. Deshmukh, Venkata A. P Chavali, and **A. G. Ambekar**, “Thinner Substrate Designs of Modified Ground Plane E–shape Microstrip Antennas for Wideband Response,” Electromagnetics, vol. 42, no. 4, pp. 255–265, May 2022, doi: <https://doi.org/10.1080/02726343.2022.2099341>. [**Scopus and Web of Science**]
2. **Aarti G. Ambekar**, Amit A. Deshmukh, “Dual polarized designs of square microstrip antenna for GSM and LTE applications”, International Journal of Communication Systems, Vol. 35, no.10, pp. 1-19, April 2022. [**Scopus and Web of Science**]
3. **Aarti G. Ambekar** and Amit A. Deshmukh, "Dual Band Compact Square Microstrip Antenna for GSM and GPS Applications," Progress In Electromagnetics Research C, Vol. 118, pp. 99-112, Feb. 2022. [**Scopus and Web of Science**]
4. **Aarti G. Ambekar**, Amit A. Deshmukh, “DP Triple Wideband Circular Microstrip Antenna for GSM and Satellite Applications”, International Journal of RF and Microwave Computer Aided Engineering, Early view August 2021. DOI.ORG/10.10 02/MMCE.22862. [**Scopus and Web of Science**]
5. **Aarti. G. Ambekar**, Amit A. Deshmukh, “Dual Polarized Wideband Compact P-shape MSA for GSM and LTE Applications," International Journal of Microwave and Optical Technology, Vol. 16, no.4, pp. 397-406, May 2020., [**Scopus**]
6. **Aarti G. Ambekar** and Amit A. Deshmukh, "Wideband Dual Polarized Compact Design of Pi-Shape Microstrip Antenna for GSM, ISM, and Satellite Applications," Progress In Electromagnetics Research C, Vol. 111, pp. 241-256, April 2021. doi:10.2528/PIERC21022302. [**Scopus and Web of Science**]
7. **Aarti G. Ambekar**, Amit A. Deshmukh, “E-shape Microstrip Antenna for Dual Frequency WLAN Application,” Progress In Electromagnetics Research C, Vol. 104, pp. 13–24, July 2020, doi:10.2528/PIERC20060204, [**Scopus and Web of Science**]
8. **Aarti G. Ambekar**, Amit A. Deshmukh, “Multiple Slots Loaded Rectangular Microstrip Antenna for Dual Polarized Multiband Response,” International Journal of Microwave and Optical Technology, Vol. 15, no.3, pp. 279-288, May 2020., [**Scopus**]

Non-Referred International / National Journal Publications:

1. Nithik Pandya ,Khushi Sanghvi ,Shivam Udeshi, **Aarti Ambekar**,” SignoSphere: Sign Language Translation & Smart Gloves Integration,” VDI-ZIntegrierte Produktion Journal, Vol 11, no.5, pp. 70-77, May 2024. DOI: 10.37897.VZIPJ.2024.V11I4.24.40766, [**Scopus**]

2. Asim Wahedna ,Somil Shah ,Soham Sawant, **Aarti Ambekar**,” Sign Language Generation for Audiobooks,” *VDI-ZIntegrierte Produktion Journal*, Vol 11, no. 4, pp. 119-125, April 2024. DOI: 10.37897.VZIPJ.2024.V11I4.24.40766. [Scopus]
3. Umang Patel, **Aarti G. Ambekar** “Indian Sign Language Recognition Based on Gray Level Co-occurrence Matrix & 7Hu Moment” *Communications on Applied Electronics*, New York, USA, Volume 7 – No 4, pp. 44 - 49, July 2017.
4. Anamika Sen, Malabika Sen, **Aarti G. Ambekar**, ‘Improved Electronic Voting Machine with Real-Time Data Analysis’, *Communications on Applied Electronics*, Vol-6, no. 1, pp. 47-49, October 2016
5. Dhanshree S. Shedge, **Aarti G. Ambekar**, ‘Digital Video Watermarking based on Different Wavelet Transform’, *Communications on Applied Electronics*, Vol-5, no. 10, pp 37-41, September 2016
6. **Aarti G. Ambekar**, Chhaya Hinge, Samidha Kulkarni “Bilingual OCR for printed English and Devnagri Scripts” *international Journal PARIPEX, Indian Journal of Research*, Vol-2, no.1, 2013

International: 55 (Post Ph. D: 03, During Ph. D: 44, Pre Ph.D: 08)

Post Ph. D:

1. Amit A. Deshmukh, Shraavya Bharti, Rudrakshi Thakur, Subhrajyoti Meher, S. Shetty, J. Furia, N. Gandhi, **A. G. Ambekar**, Shefali Pawar “Wideband Design of 110° Isosceles Triangular Microstrip Antenna Using Bow-Tie Ground Plane Profile,” *Proceedings of International Conference on Wireless Communication. ICWiCOM 2025. Lecture Notes in Electrical Engineering Springer, Mumbai, India, October 2025, vol. 1499, pp. 165 – 175. https://doi.org/10.1007/978-981-95-3616-0_23. [scopus]*
2. **Aarti. G. Ambekar**, Tejal Page, Venkata A P Chavali and Amit A. Deshmukh, "Slot Loaded Circular Microstrip Antenna for Circular Polarized Response," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 598-603, doi: 10.1109/ICAST55766.2022.10039647. [scopus]
3. Venkata A P Chavali, Tejal Tirotkar, **Aarti G. Ambekar** and Amit A. Deshmukh, "Analysis of Broadband Single Layer Gap-Coupled Shorted Rectangular Microstrip Antenna," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 542-547, doi: 10.1109/ICAST55766.2022.10039569. [scopus]

During Ph. D:

1. **Aarti G. Ambekar**, Amit A. Deshmukh, Venkata A P Chavali,” Sectoral Microstrip Antenna for Dual Polarized Broadband Response,” *In Proceedings of International Conference on Wireless Communication: ICWiCom 2021*, pp. 139-146, Singapore: Springer Nature Singapore, Jan. 2022.
2. **Aarti G. Ambekar**, Amit A. Deshmukh, Venkata A P Chavali,” Resonant length formulations and redesigned methodology for wideband DP Y-shape microstrip antenna,” *In Proceedings of International Conference on Wireless Communication: ICWiCom 2021*, pp. 139-146, Singapore: Springer Nature Singapore, Jan. 2022. .

3. **Aarti G. Ambekar**, Amit A. Deshmukh, et.al,” Stub loaded A-shape microstrip antenna for DP multiband response” In Proceedings of International Conference on Wireless Communication: ICWiCom 2021, pp. 139-146, Singapore: Springer Nature Singapore, Jan. 2022.
4. Venkata A P Chavali, Amit A. Deshmukh, and **Aarti G. Ambekar**, "Analysis of Broadband Circularly Polarized Half E-Shape Microstrip Antenna," *In Proceedings of International Conference on Wireless Communication: ICWiCom 2021*, pp. 139-146, Singapore: Springer Nature Singapore, Jan. 2022.
5. Venkata A P Chavali, Amit A. Deshmukh, **Aarti G. Ambekar**, “Rectangular Slot Cut Sectoral Microstrip Antenna for Broadband Response,” *In Proceedings of International Conference on Wireless Communication: ICWiCom 2021*, Singapore: Springer Nature Singapore, pp. 65-73, Jan. 2022.
6. Amit A. Deshmukh, Venkata A P Chavali, **Aarti G. Ambekar**, and Tushar Sawant, “Analysis of Multiple Shorting Posts Loaded Square Microstrip Antenna for Circular Polarized Response,” *In Proceedings of International Conference on Wireless Communication: ICWiCom 2021*, pp. 207-214, Singapore: Springer Nature Singapore, Jan. 2022.
7. **Aarti. G. Ambekar**, A. A. Deshmukh, et.al, "Investigation Into Circular Polarized Response of Square Microstrip Antenna using Defected Ground Structure," *2021 International Conference on Communication information and Computing Technology (ICCICT)*, 2021, pp. 1-5, DOI: 10.1109/ICCICT50803.2021.9510042. **[Scopus]**
8. Venkata A. P. Chavali, Amit A. Deshmukh and **Aarti G. Ambekar**, "Analysis of Staggered Microstrip Antenna for Wideband Response," *2021 International Conference on Communication information and Computing Technology (ICCICT)*, Mumbai, India, 2021, pp. 1-5, June 2021, doi: 10.1109/ICCICT50803.2021.9510165. **[Scopus]**
9. **Aarti G. Ambekar**, Amit A. Deshmukh, et.al,” Polarization Agile Circular Microstrip Antenna,” *International Conference on Advances in Science & Technology (ICAST-2021)*, May 7 – 8, 2021, Mumbai, India, DOI.ORG/10.2139/SSRN.3868009
10. **Aarti. G. Ambekar**, and A. A. Deshmukh, et, al, "Dual-band Circular Polarized Microstrip Antenna Using Defected Ground Structure," *2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE)*, 2021, pp. 1-6, DOI: 10.1109/ICNTE51185.2021.9487711. **[Scopus]**
11. Amit A. Deshmukh, Venkata A P Chavali, **Aarti G. Ambekar**, “Wideband designs of offset U-slot and dual U-slot cut rectangular microstrip antennas,” *In 2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE)*, pp. 1-6, IEEE, Jan. 2021. **[Scopus]**
12. **Aarti G. Ambekar**, Amit A. Deshmukh, et. al., “Om-Shape Microstrip Antennas for DP Wideband and Multiband Response” 2020. *3rd International Conference on Advances in Science & Technology (ICAST)*, Mumbai, India, 2020, pp. 1-6, DOI.ORG/10.2139/SSRN.3567247
13. Venkata A P Chavali, Amit Deshmukh, and **Aarti G. Ambekar**, “Analysis of Wang-Shaped Broadband Microstrip Antenna,” *Proceedings of the 3rd International Conference on Advances in Science & Technology (ICAST) 2020*, April 2020, Available at SSRN: <http://dx.doi.org/10.2139/ssrn.3567241>.
14. Amit A. Deshmukh, **Aarti G. Ambekar**, et.al, "Slot Loaded Triple-band Microstrip Antenna for GSM Application," *2020 3rd International Conference on Communication System, Computing and IT Applications (CSCITA)*,

Mumbai, India, 2020, pp. 94-99, DOI: 10.1109/CSCITA47329.2020.9137814. [Scopus]

15. **Aarti G. Ambekar**, Amit A. Deshmukh, et.al., "DP Variations of P-Shape Microstrip Antenna Loaded with Stub," *Proceedings of International Conference on Wireless Communication. Lecture Notes on Data Engineering and Communications Technologies (ICWiCOM)*, Mumbai, India, Vol 36, pp. 257-266, 2020 Springer, Singapore. DOI.ORG/10.1007/978-981-15-1002-1_27
16. **Aarti G. Ambekar**, Amit A. Deshmukh, et.al., "Stub Loaded Semi-Annular Ring Microstrip Antenna for Multiband Dual-Polarized Response," *Proceedings of International Conference on Wireless Communication. Lecture Notes on Data Engineering and Communications Technologies (ICWiCOM)*, Mumbai, India, Vol 36, pp. 85-93, 2020 Springer, Singapore. DOI.ORG/10.1007/978-981-15-1002-1_10
17. **Aarti G. Ambekar**, Amit A. Deshmukh, et.al., "Analysis of Dual-band Response of Slot Loaded Rectangular Microstrip Antenna Using Defected Ground Structure," *Proceedings of International Conference on Wireless Communication. Lecture Notes on Data Engineering and Communications Technologies (ICWiCOM)*, Mumbai, India, Vol 36, pp. 215-224, 2020 Springer, Singapore. DOI.ORG/10.1007/978-981-15-1002-1_23
18. Venkata A P Chavali, Shane Fernandes, **Aarti G. Ambekar**, and Amit A. Deshmukh, "Variation of E-Shape Microstrip Antenna with Tapered Patch Width for Wideband Response," *In Proceedings of International Conference on Wireless Communication: ICWiCOM 2019*, Vol. 36, pp. 95-102, Springer Singapore, 2020
19. **Ambekar, A.G.**, Chavali, V.A.P., Kudoo, C., Shah, M., Deshmukh, A.A., Ray, K.P. (2020). Multiband Response Investigation for Stub-Loaded Right-Angled Isosceles Triangle Microstrip Antenna. *In: Janyani, V., Singh, G., Tiwari, M., Ismail, T. (eds) Optical and Wireless Technologies. Lecture Notes in Electrical Engineering*, vol 648. Springer, Singapore. https://doi.org/10.1007/978-981-15-2926-9_23
20. Venkata A P Chavali, **Aarti G. Ambekar**, Chinmay Kudoo, Mansi Shah, Amit A. Deshmukh, and K. P. Ray, "Analysis of Microstrip Patch Antenna with Multiple Parasitic Patches and Shorting Vias for Bandwidth Enhancement," *In Optical and Wireless Technologies: Proceedings of OWT 2019*, Vol. 36, pp. 199-205, Springer Singapore, 2020.
21. **Aarti G. Ambekar**, Amit A. Deshmukh et. Al., "Modified Square Microstrip Antenna for DP Wideband Response," 2020 IEEE Pune Section International Conference (PuneCon), Pune, India, 2020, pp. 157-162, DOI: 10.1109/PUNECON50868.2020.9362398. [Scopus]
22. Venkata A P Chavali, Amit A. Deshmukh and **Aarti G. Ambekar**, "Analysis of Star Shape Microstrip Antenna with Multiple Shorting Posts for Wideband Response," 2020 IEEE Pune Section International Conference (PuneCon), Pune, India, 2020, pp. 163-168, doi: 10.1109/PuneCon50868.2020.9362391, Dec. 2020. [Scopus]
23. **Aarti G. Ambekar**, Amit A. Deshmukh, et.al., "DP Multiband Stub and Slot Loaded Semicircular Microstrip Antenna," *Proceedings of 2nd International Conference on Advances in Science & Technology (ICAST-2019)* K. J. Somaiya Institute of Engineering & Information Technology, University of Mumbai, Maharashtra, India, SSRN 3368184, pp. 1-6, 2019.
24. Venkata A P Chavali, Amit A. Deshmukh, **Aarti G. Ambekar**, Aarti and

Kamala P. Ray, "Diagonally Fed Square Microstrip Antenna for Wideband Dualpolarized Response," *2nd International Conference on Advances in Science & Technology (ICAST) 2019 on 8th, 9th April 2019* by K J Somaiya Institute of Engineering & Information Technology, Mumbai, India, <http://dx.doi.org/10.2139/ssrn.3366762>

25. **Aarti G. Ambekar**, Amit A. Deshmukh, et. al., "Investigation Into The Multiband Response of Shorted M-shape Patch Antenna," *2019 IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT)*, Coimbatore, India, 2019, pp. 1-6, DOI: 10.1109/ICECCT.2019.8869159. **[Scopus]**
26. **Aarti G. Ambekar**, Amit A. Deshmukh, et. al. "Slit Cut Circular Microstrip Antenna for Multiband Response.," *In: Kumar A., Mozar S. (eds) ICCCE 2019. Lecture Notes in Electrical Engineering*, Vol 570. Springer, Singapore. DOI.ORG/10.1007/978-981-13-8715-9_15
27. Venkata A P Chavali, **Aarti G. Ambekar**, Ameya A. Kadam, Amit A. Deshmukh, and K. P. Ray, "Compact stub loaded modified plus shape microstrip antenna for broadband response," *In ICCCE 2019: Proceedings of the 2nd International Conference on Communications and Cyber Physical Engineering*, pp. 111-117, Springer Singapore, 2020.
28. Amit A. Deshmukh, **Aarti G. Ambekar**, et.al, "Slot Loaded Triple-band Microstrip 375 Antenna for GSM Application," *2020 3rd International Conference on Communication System, Computing and IT Applications (CSCITA)*, Mumbai, India, 2020, pp. 94-99, DOI: 10.1109/CSCITA47329.2020.9137814. **[Scopus]**
29. Venkata A P Chavali, Amit A. Deshmukh and **Aarti G. Ambekar**, "Modified Rectangular Microstrip Antenna for Wideband Response with Conical Radiation Pattern," *2020 3rd International Conference on Communication System, Computing and IT Applications (CSCITA)*, Mumbai, India, pp. 88-93, doi: 10.1109/CSCITA47329.2020.9137786, April 2020. **[Scopus]**
30. Amit. Deshmukh, R. Maurya, R. Patil and **A. Ambekar**, "Microstrip Antenna Design Backed Modified Ground for Circularly Polarized Response," *2020 3rd International Conference on Communication System, Computing and IT Applications (CSCITA)*, Mumbai, India, 2020, pp. 110-114, doi: 10.1109/CSCITA47329.2020.9137792. **[Scopus]**
31. **Aarti G. Ambekar**, Amit A. Deshmukh, Venkata A P Chavali, "Formulation and Analysis of Shorted U-Shaped Microstrip Antenna for Broadband Dual Frequency Response," *In 2019 International Conference on Advances in Computing, Communication and Control (ICAC3)*, pp. 1-6, IEEE, Dec. 2019. **[Scopus]**
32. Venkata A P Chavali, Amit A. Deshmukh and **Aarti G. Ambekar**, "Analysis of Wideband Multiple Rectangular Slots Loaded Rectangular Microstrip Antenna," *2019 International Conference on Advances in Computing, Communication and Control (ICAC3)*, Mumbai, India, pp. 1-6, 2019, doi: 10.1109/ICAC347590.2019.9036736. **[Scopus]**
33. Amit A. Deshmukh, Mohit Gala, **Aarti G. Ambekar**, Venkata A P Chavali, "Wideband Design of Equilateral Triangular Microstrip Antenna Using Short And Slot," *In 2019 International Conference on Advances in Computing, Communication and Control (ICAC3)*, pp. 1-5, IEEE, Dec. 2019. **[Scopus]**
34. **Aarti G. Ambekar**, Amit A. Deshmukh, et.al., "Modified S-Shape Microstrip Antennas for DP Multiband and Wideband Response," *2019 9th International*

Conference on Advances in Computing and Communication (ICACC), Kochi, India, 2019, pp. 193- 198, DOI: 10.1109/ICACC48162.2019.8986180. **[Scopus]**

35. Venkata A P Chavali, Amit A. Deshmukh, **Aarti G. Ambekar**, Kamala P. Ray, "Circular Microstrip Antenna with Parasitic Annular Sectors for Broadband Response," *In 2019 9th International Conference on Advances in Computing and Communication ICACC 2019*, pp. 224-229, IEEE, Nov. 2019. **[Scopus]**
36. A. A. Deshmukh, A. P. C. Venkata, **A. G. Ambekar** and M. Gala, "Design of Compact Semi-circular Microstrip Antenna Loaded with Shorting Post," *2019 9th International Conference on Advances in Computing and Communication (ICACC)*, Kochi, India, 2019, pp. 316-321, doi: 10.1109/ICACC48162.2019.8986169. **[Scopus]**
37. **Aarti G. Ambekar**, Amit A. Deshmukh, et. al., "Circular Microstrip Antenna Loaded with Pair of Arc Shape Slots for DP Wideband Response," *2018 15th IEEE India Council International Conference (INDICON)*, Coimbatore, India, 2018, pp. 1-6, DOI: 10.1109/INDICON45594.2018.8987132. **[Scopus]**
38. V. A. P. Chavali, **A. G. Ambekar**, A. A. Deshmukh and K. P. Ray, "Analysis and Design Of Gap-Coupled 90° Sectoral Microstrip Antenna," *2018 15th IEEE India Council International Conference (INDICON)*, Coimbatore, India, 2018, pp. 1-6, doi: 10.1109/INDICON45594.2018.8987100. **[Scopus]**
39. Amit A. Deshmukh, Venkata A P Chavali, **Aarti G. Ambekar**, "Analysis of Multi-resonant Rectangular Microstrip Antenna Embedded with Multiple Slots," *In Proceedings of International Conference on Wireless Communication: ICWiCom 2017*, pp. 139-149, Springer Singapore, 2018.
40. **A. G. Ambekar**, A. P. C. Venkata, A. A. Kadam and A. A. Deshmukh, "60° Sectoral Microstrip Antenna for Dual Polarized Multiband and Wideband Response," *2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA)*, Pune, India, 2018, pp. 1-6, doi: 10.1109/ICCUBEA.2018.8697436. **[Scopus]**
41. A. P. C. Venkata, **A. G. Ambekar**, A. A. Kadam and A. A. Deshmukh, "Wideband MSA with C-Shaped Parasitic Patches," *2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA)*, Pune, India, 2018, pp. 1-5, doi: 10.1109/ICCUBEA.2018.8697220. **[Scopus]**
42. A. A. Kadam, V. A.P.C., **A. G. Ambekar** and A. A. Deshmukh, "Planar Inverted 60° Cone Antenna for UWB and Notch Characteristics Response," *2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA)*, Pune, India, 2018, pp. 1-5, doi: 10.1109/ICCUBEA.2018.8697435. **[Scopus]**
43. Amit A. Deshmukh, **Aarti G. Ambekar**, et. al, "Compact Y-shape antenna for DP wideband response," *2017 IEEE Applied Electromagnetics Conference (AEMC)*, Aurangabad, India, 2017, pp. 1-2, DOI: 10.1109/AEMC.2017.8325714. **[Scopus]**
44. A. A. Deshmukh, **A. G. Ambekar**, A. P. C. Venkata, A. Doshi and K. P. Ray, "Modified U-slot cut rectangular patch antenna for wideband response," *2017 IEEE Applied Electromagnetics Conference (AEMC)*, Aurangabad, India, 2017, pp. 1-2, doi: 10.1109/AEMC.2017.8325715. **[Scopus]**

Pre-Ph. D:

		1. U. Patel and A. G. Ambekar, "Moment Based Sign Language Recognition for Indian Languages," <i>2017 International Conference on Computing, Communication, Control and Automation (ICCUBEA)</i>, 2017, pp. 1-6, doi: 10.1109/ICCUBEA.2017.846390. [Scopus] 2. A. S. Nikam and A. G. Ambekar, "Sign language recognition using image-based hand gesture recognition techniques," <i>2016 Online International Conference on Green Engineering and Technologies (IC-GET)</i>, Coimbatore, India, 2016, pp. 1-5, doi: 10.1109/GET.2016.7916786. [Scopus] 3. A. S. Nikam and A. G. Ambekar, "Bilingual sign recognition using image based Hand gesture technique for hearing and speech impaired people," <i>2016 International Conference on Computing Communication Control and Automation (ICCUBEA)</i>, Pune, India, 2016, pp. 1-6, doi: 10.1109/ICCUBEA.2016.7860057. [Scopus] 4. Priti Hargunani, Sulkashana Borsune, Aarti G. Ambekar, " Mobile Agents system with Multiple Layers of Security ", <i>IJCA Proceedings on International Conference on Computer Technology</i> 2015(7):17-21, September 2015 5. Sumit Wagh , Aarti G. Ambekar, " Shoulder Surfing Resistant Text – Based Graphical Password Scheme' <i>IJCA Proceedings on International Conference on Computer Technology</i> 2015(3):17-19, September 2015 6. Shilpa A. Talele, Aarti G. Ambekar, Deepshikha Hinger," Novel PTS Technique to PAPR Reduction for STBC MIMO-OFDM using Four Transmitting Antennas", <i>IJCA Proceedings on International Conference on Computer Technology</i> 2015(1):25-30, September 2015. 7. Aarti G. Ambekar, Chhaya Hinge, Samidha Kulkarni "Bilingual OCR for handwritten English & Marathi Text" in <i>International Conference on Emerging Trends in Technology & Its Application (ICETTA-2013)</i> on 06th, 07th March, 2013 at YTIET, Karjat 8. Chhaya Hinge, Aarti G. Ambekar, Samidha Kulkarni, "Computerized Blood cell count using KNN classifier" in <i>International Conference on Advance in Communication and computing Technology</i> on 10th, 11th August, 2013 at PVPPCOE, Sion, Mumbai.
Area of Specialization	:	Microstrip Antennas, Image Processing, Computer Vision, Natural Language Processing
Professional Memberships	:	Life Member of Indian Society of Technical Education (ISTE) LM 64788

Awards/ Recognition	:	1. “SAP Award of Excellence” in the AICTE Approved FDP on “Use of ICT in Education for Online and Blended Learning’ Organized by IIT Bombay in 2016. 2. Elite Certification in “Antenna” 12-Week NPTEL course January to April 2017 3. Elite Certification in “Remote Sensing” 12-Week NPTEL course January to April 2023 4. International editorial recognition by SPRINGER NATURE as an Editorial Board member of Journal Scientific Reports for the year 2026, with following awards ' Editor of Distinction Awards 2026' namely: - Authors Service and Editorial Contribution award:- May 2026 5. Selected as a 2025 IEEE Access Exceptional Reviewer.
Interactions with Professional Institutions		• Editorial Board Member of International Journal Scientific Reports published by SPRINGER • Reviewer for International Journals / Publications/ Conferences- a. ACM Transactions on Asian and Low-Resource Language Information Processing b. IEEE Access c. Heliyon, an open-access journal from Elsevier d. Electromagnetics by Taylors and Francis e. International Journal of Communication Systems by Wiley f. International Journal of Electronics and Letters by Taylors & Francis Group g. B. P. International Publication h. The 13th International Conference on Electronics, Communications, and Networks (CECNet 2023) was held in Macao, China, from 17-20 November 2023. i. The 14th International Conference on Electronics, Communications, and Networks (CECNet 2024) will be held in Matsue, Japan from 5-8 November 2024. • As a resource person / Mentor- • Delivered a talk on Technical Paper Writing on 5th March 2022 at DJSCE • As a mentor for UG Level at 17th Aavishkar: Inter-Collegiate / Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Shah and Anchor Kutchhi Engineering College, Chembur, Mumbai on December 23, 2022, for Engineering Colleges/Institutes zone • As a mentor for team ‘WAMI’ who secured 2nd Runner Up position in the Drone Application Hackathon organized by IEEE, SPIT on 6th April 2024.

Patents / Books Published or Granted	: Patents: - 1. Title of the invention: Compact Wideband Gap-Coupled Variations of Hexagonal Microstrip Antennas On Thinner Substrate Application No. 202421022000 A Publication Date: 19/04/2024 The Patent Office Journal No. 16/2024 Dated 19/04/2024 Status: Granted (21/11/2024) 2. Title of the invention: Reconfigurable Sectoral Microstrip Antennas For Wideband And Circularly Polarized Response Application No.202321080257 A Publication Date: 12/01/2024 The Patent Office Journal No. 02/2024 Dated 12/01/2024 Status: Granted (30/06/2025) Books: - Venkata. A. P. Chavali, Amit A. Deshmukh, and Aarti. G. Ambekar, Neural Network Modelling of Microstrip Antennas. Singapore: Springer Nature, 2025.ISBN: 978-981-96-9430-3
Subjects Taught	<u>UG Level:</u> • Linear Integrated Circuits • Signals and Systems • Image Processing and Machine Vision • Image and Video Processing • Digital System Design • Data Analytics • Economics and Finance Management • Microcontroller and Applications • Basic Electrical and Electronics Engineering • Electronic Devices and Circuits • Antenna and Wave Propagation • Fiber Optic Communication • Microwave Engineering • Telecommunication Network Management • Power Electronics

Subjects Taught	<u>PG Level:</u> 1. Network and Cyber Security 2. Remote Sensing 3. Image Processing <u>Designed/Developed Lab-Based Courses:</u> <u>UG Level:</u> • Data Analytics Laboratory • Python Laboratory • Open-source Technology • Software Simulation Laboratory • Telecommunication Network Management • Image and Video Processing <u>PG Level:</u> • Remote Sensing
Projects Guided	<u>UG Level:</u> <u>" UG Level:</u> 1. Braille Text Speech Sign Language Interpreter 2. AI powered smart city system 3. Braille to Sign Language Convertor 4. SignEasy 5. "SignoSphere" Sign Language Translation Website and Smart Gloves Integration 6. Sign language generation for audiobooks 7. Automated College Management using IOT 8. Hand Gesture Vocalizer using ASL 9. Indian Sign Language Recognition System (Prjasoma) 10. Smart Traffic Management System using Computer Vision and Raspberry Pi 11. Design of microstrip antenna using ANN 12. Broadband Antenna Design Using Neural Networks 13. Circular Microstrip Antenna Array 14. Real Time Patient Monitoring Health System 15. Automatic Waste Segregation using Robotic Arm and Image Processing 16. Weather Forecasting, Disaster Prediction and Recommendations 17. Student Coin 18. Deep image prior using Python 19. Application which converts camera feed to caption 20. Limnological Raft 21. Self-Balancing Robot using Arduino Bluetooth Module

		22. Solving Rubtucs cube using Image Processing 23. Agro-bot using solar energy 24. Cheque and coin detection for bank applications 25. Wearable Tech for concussion detection and player health monitoring 26. Implementation of Multitalented Spy robot using Microcontroller. 27. Implementation of Smart Ambulance using DTMF Trans receiver
Projects Guided	:	PG Level: 1. Indian sign language Recognition and Translation using Image Based Hand Gesture Technique Based on KNN and PNN classifier 2. Comparative Analysis of Video Watermarking Based on Different Wavelate Transform 3. Bilingual Sign Recognition using Image Based Hand Gesture Technique for Hearing and Speech Impaired People
Recommended Students for Higher Education		1. <u>Rahil Patel</u> 2. <u>Anamika Sen</u> 3. <u>Ashish Malpani</u> 4. <u>Yash Shah</u> 5. <u>Mihir Kulkarni</u> 6. <u>Stuti Patel</u> 7. <u>Tanvo Gogri</u> 8. <u>Anushka Gupta</u> 9. <u>Saurabh Labade</u> 10. <u>Kunjan Mehta</u> 11. <u>Ekta Trivedi</u> 12. <u>Antara Gupta</u> 13. <u>Urvi Gada</u> 14. <u>Soumya Mahuvakar</u> 15. <u>Raj Dasadia</u> 16. <u>Harshil Malayia</u> 17. <u>Hardik Modi</u> 18. <u>Anish Mishra</u> 19. <u>Atharv Desai</u> 20. <u>Mansi Shetty</u> 21. <u>Sagar Shah</u> 22. <u>Sanket Jain</u> 23. <u>Nirmayee Vilekar</u> 24. <u>Ashwin Shetty</u> 25. <u>Milind Jani</u> 1. <u>University of Michigan</u> 2. <u>Verginia Tech</u> 3. <u>Verginia Tech</u> 4. <u>University of California.</u> 5. <u>Verginia Tech</u> 6. <u>University of Michigan</u> 7. <u>University of Illinois at Chicago</u> 8. <u>North Carolina State</u> 9. <u>North Carolina State</u> 10. <u>University of Texas at Austin</u> 11. <u>University of Southern California</u> 12. <u>University of Illinois at Chicago</u> 13. <u>North Carolina State</u> 14. <u>Northeastern University</u> 15. <u>University of Houston</u> 16. <u>University of Texas at Dallas</u> 17. <u>University of Texas at Dallas</u> 18. <u>Chalmers University</u> 19. <u>University of Colorado Boulder</u> 20. <u>University of Buffallo</u> 21. <u>Northeastern University</u> 22. <u>Stevens Institute of Technology</u> 23. <u>University of Buffalo</u> 24. <u>University of Southern California</u> 25. <u>Technische Universitat Berlin</u>

	26. <u>Gauri Gosavi</u> 27. <u>Drishti Parekh</u> 28. <u>Nigam shah</u> 29. <u>Harshit Modi</u> 30. <u>Somil Jain</u> 31. <u>Rohan Deo</u> 32. <u>Mihir shah</u> 33. <u>Harsh Rayal</u> 34. <u>Pooja Jha</u> 35. <u>Binal shah</u> 36. <u>Rishil Patel</u> 37. <u>Pooja Sahney</u> 38. <u>Pritima Singh</u>	26. <u>University of Buffalo</u> 27. <u>University of Maryland</u> 28. <u>University of Maryland</u> 29. <u>New Jersey Institute of Technology</u> 30. <u>San Jose State University</u> 31. <u>Purdue University</u> 32. <u>Rutgers University</u> 33. <u>University of Bath</u> 34. <u>University of Washington</u> 35. <u>University of Texas at Dallas</u> 36. <u>University of Buffalo</u> 37. <u>Columbia University</u> 38. <u>BITS</u>
Institute/Department Responsibility handled:	1. Placement Committee Member (2016 - Present)- Ensuring students are well-prepared and successfully placed in their desired career paths by fostering relationships with employers, providing career guidance for placements/internships/ higher education, and coordinating placement activities. 2. Brand Management Committee Member (2018 - Present)-To look after the brand building & brand management activities in the college 3. Vigilance Committee Member (2023 – Present) – Ensuring the efficient conduct of practical and lectures at the beginning and end of any weekdays. 4. Admission Committee Member(2023 – Present) – Involves document verification, and form filling during first-year/ direct second-year admission process 5. Member of NBA Committee at the College and Department Level (2015-16, 2022-23, 2024–Present) Collecting and Managing Data for Students performance in terms of outcomes like placements, higher studies, results, and curricular activities in regards with criteria 4 6. Member of NAAC Committee at at the College and Department Level (2022-23, 2025 – Present) – Involves collection of data related to faculty Research, Innovation, and Extension in regards to criteria 3 7. Member of Exam Committee at the Department Level (2014-2017) - Looking after the smooth conduction of various exam-related activities at the departmental level 8. Member of the organizing committee of the International Conference on Wireless Communication (ICWiCOM) (2017, 2019, 2021, 2025) – Handled conference publicity, paper submission and peer-review coordination, acceptance communication, session organization, budget management, and website updates. 9. Class Teacher (2015-2016, 2026-2027) – Looking after academic advising, career counseling, emotional support, and preparation for life beyond graduation 10. Lab In-charge (2019-2020, 2025-2026, 2026-2027) - Ensures the efficient and safe operation of the laboratory, supports educational and research activities,	

Pedagogy Development	Video Lectures on Microcontrollers and Applications: - 1. https://www.youtube.com/watch?v=XrPiFxe9_78&t=303s 2. https://www.youtube.com/watch?v=SMk7oS1c-zI&t=342s
Training Programs/FDPs / Workshops/ Webinars Attended	FDP/STTP 1. One week ATAL FDP on SEMI-TECH: Semiconductor Innovation & Technology for Next-Gen Electronics at SRM Institute of Science and Technology from 18th to 23rd August, 2025. 2. One week ATAL FDP on Integrating AI, IoT, and Adaptive Antennas for High-Performance Communication Systems at ST. JOHNS COLLEGE OF ENGINEERING & TECHNOLOGY from 15th to 20th September, 2025. 3. One week FDP on “The Recent Trends in AI Applications for Microwave Engineering: Active and Passive Component Design, Imaging, and Beyond” jointly organized by E&ICT Academy, NIT Patna, and Netaji Subhash Engineering College under the “Scheme of financial assistance for setting up of Electronics & ICT Academies (Phase-II)” by the MeitY, Govt. of India from 7th to 11th July, 2025. 4. One week FDP on “Smart Biomedical Signal Processing: Leveraging IOT, Edge Computing and ML” organized by Electronics and ICT academy IIT Roorkee from 12th to 16th July, 2025. 5. One-week ATAL FDP on “Cross Roads of AI and Signal Processing” from 27th January to 1st February, 2025 organized by DJSCE. 6. One-week ISTE Approved STTP on “Research Funding, Publications, and IPR: A Journey from Fundamentals to Advanced Methodologies”, Organized from June 10th to 14th 2024, Organized by DJSCE. 7. One-week ISTE approved STTP on “Emerging Trends in Data Engineering” from 13th June to 20th June 2024, organized by DJSCE 8. NEP 2020 Orientation and sensitization program under the Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC) Organized by UGC- Malaviya Mission Teacher Training Center, Sant Gadge Baba Amravati University from 18th December to 23rd December 2023 9. ISTE approved One-week FDP on Emerging technologies in Machine learning at DJSCE, Mumbai, from 30th January 2023 to 3rd February 2023. 10. UGC approved short-term Professional Development Programme on ‘Implementation of NEP2020 for University and College Teachers’ conducted by IGNOU, 9th to 17th September 2022 11. ISTE approved online FDP on Smart Computing, at DJSCE Mumbai, 12th to 16th July 2021. 12. One-week online FDP Scilab under Spoken Tutorial Project, at DJSCE in association with IIT Bombay, NMEICT, MHRD, 26th to 30th May, 2020 13. One Week FDP on Improving Teaching Learning Processes using Best Practices, at DJSCE Mumbai, 15th to 19th June 2020. 14.

15. One-week online STTP on Sensor, IoT and Machine learning at KJSCE, Vidyavihar, 1st – 5th June 2020
16. Satellite Photogrammetry and Applications Indian Institute of Remote Sensing 6th June to 3rd July 2020
17. AICTE-ISTE approved 1week STTP on Recent Trends in Wireless Networks at DJSCE, Mumbai, 2nd to 7th January 2019
18. AICTE-ISTE approved a 1week induction program on RF Antenna Design and Analysis- 18 – 23 June 2018.
19. AICTE-Approved 4-week FDP on Use of ICT in Education for Online and Blended Learning- May- July 2016.

Seminar/Webinar

1. A seminar on "Direction of Arrival Estimation with Leaky-wave Antennas at Millimeter Frequencies" by Prof. Julien Sarrazin, Sorbonne Université, France, organized by IEEE IISc MTT/AP-S Student Branch Chapter, on 2nd November, 2023
2. Participated in the Technical Talk on "High-Performance RF, Millimeter-Wave, and Sub-THz Integrated Circuits and Systems" by Prof. Aritra Banerjee, University of Illinois, Chicago, organized by IEEE IISc MTT/AP-S and IEEE IISc VLSI Student Branch Chapter, on 12th October 2023
3. IEEE AP-S Distinguished Lecture on “On-chip Antennas: The last barrier to True RF System-on-chip by Prof. Atif Shamim, Saudi Arabia Organized by IEEE IISc MTT/AP-S student branch chapter on 3rd October 2023
4. Seminar on Nanosystems- Lab to Fab Organized by IEEE IISc VLSI chapter on 22nd July 2023.
5. Webinar on applied AI: Classification using AI tools 10th July 2021
6. Webinar Series in Machine Learning: Applications in Communication and Signal Processing, at DJSCE, Mumbai, 22nd - 24th, July 2021
7. Advanced technologies in Wireless Communication Networks (ATWCN)- 2021” (Virtual Mode)- one-week FDP 2- 8 August 2021
8. Webinar on "Cyber Security" – at KJSCE, on 14th July 2020
9. Webinar on "Artificial Intelligence" – at KJSCE, on 13th July 2020
10. Webinar "3D printing- The key to 4th Industrial revolution" – at KJSCE, on 15th July 2020
11. Webinar on "Quantum Computing" – at KJSCE, on 16th July 2020
12. Webinar on "Block Chain" – at KJSCE, On 17th July 2020
13. Webinar on "Internet of Things" – at KJSCE, on 19th July 2020
14. Webinar Series on Recent Trends in Microwave Engineering and IOT, at DJSCE, 6th and 7th June 2020

Industrial Training

1. Industrial Training on Data Science at Pantech Learning Private Limited, Chennai from 12.2.2024 to 11.3.2024.
2. Industrial Training on Python Programming at Pantech Learning Private Limited, Chennai from 12.12.2023 to 11.1.2024.

		3. Industrial Training on Data Analytics at Pantech Learning Private Limited, Chennai from 12th 12.11.2023 to 11.12.2023. 4. International online industrial training program of trending technology, “Block chain Using Python” from 26.07.2021 to 1.08.2021 at Pantech Learning
NPTEL Courses	:	1. 8-week FDP course on Programming Data Structures and Algorithms using Python–July - September 2023. 2. 12-week FDP course on Remote Sensing: Principles and Applications Jan - April 2023- Elite Certificate 3. 12-week course on Antennas –Jan - April 2017- Elite Certificate
Coursera Courses		1. 'Introduction to AI' by IBM, August 2022 2. 'Introduction to AI' by IBM, August 2022 3. Basic Image Classification with Tensor Flow, April 2022 4. 5G for Everyone, June 2022 5. C for Everyone: Programming Fundamentals, June 2022 6. Design, Format, and Presentation in Microsoft PowerPoint, June 2022 7. The Teacher's Social and Emotional Learning, April 2022 8. Wireless Communications for Everybody, March 2022 9. Introduction to Ansys HFSS, February 2022 10. Design of Antenna Arrays for 5G Communication Systems, February 2022 11. Python Basics, January 2022 12. Programming to everybody (Python), August 2020 13. Neural networks and deep learning, July 2020 14. Presentation Skills, July 2020 15. AI for everyone, June 2020 16. Cloud computing basics, June 2020 17. Learning to teach online, May 2020