Name of Teaching Staff	:	Prof. Aarti G. Ambekar
Designation	:	Assistant Professor
Department	:	Electronics & Telecommunication Engineering
Date of Joining the Institution	:	05.01.2015
Email ID	:	aarti.ambekar@djsce.ac.in
Office Contact	:	022-42335000 Extension:- 1237
Google Scholar Link	:	https://scholar.google.com/citations?user=Z83k8UEAAAAJ&hl=en
Research gate Link:		https://www.researchgate.net/profile/Aarti-Ambekar
ORCID		https://orcid.org/0000-0002-8098-1296

Qualifications with Class / Grade	:	1. Pursuing Ph.D. in Electronics & Telecomm. Engineering from University of Mumbai on Topic "Dual Polarized Microstrip Antennas for Multiband and Broadband Response" 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**: **14.3 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 Journal:	:	**International**: 9 [1] 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/10.1002/MMCE.22862. [2] Aarti. G. Ambekar, Amit A. Deshmukh, "DP wideband compact P-shape microstrip antenna for GSM and LTE Applications," *International Journal of Microwave and Optical Technology*, Vol. 16, no.4, pp. 397-406, July 2021 [3] Aarti G. Ambekar and Amit A. Deshmukh, "Wideband DP 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

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Papers Presented in Conferences		**<u>International</u>**: 29 [1] Aarti G. Ambekar, Amit A. Deshmukh, et.al," Sectoral Microstrip Antenna for Dual Polarized Broadband Response," Presented in *International Conference on Wireless Communication- 2021 (ICWiCOM-2021), Oct* 8 – 9, 2021, Mumbai, India, to be published in Springer Digital Library. [2] Aarti G. Ambekar, Amit A. Deshmukh, et.al," Resonant length formulations and redesigned methodology for wideband DP Y-shape microstrip antenna," Presented in *International Conference on Wireless Communication- 2021 (ICWiCOM-2021), Oct* 8 – 9, 2021, Mumbai, India, to be published in Springer Digital Library. [3] Aarti G. Ambekar, Amit A. Deshmukh, et.al," Stub loaded A-shape microstrip antenna for DP multiband response" Presented in International Conference on Wireless Communication- 2021 (ICWiCOM-2021), Oct 8 – 9, 2021, Mumbai, India, to be published in Springer Digital Library. [4] A. 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,

[5] 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

[6] A. 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.

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[11] 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

[12] 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

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		[27] Shilpa A. Talele, Aarti G. Ambekar,Deepshikha Hinger," Novel PTS Technique to PAPR Reduction for STBC MIMO-OFDM using Four Transmitting Antennas", IJCA Proceedings on International Conference on Computer Technology 2015(1):25-30, September 2015. [28] Aarti G. Ambekar, Chhaya Hinge , Samidha Kulkarni "Bilingual OCR for handwritten English & Marathi Text" in International Conference on Emerging Trends in Technology & Its Application(ICETTA-2013) on 06th, 07th March, 2013 at YTIET, Karjat [29] Chhaya Hinge, Aarti G. Ambekar, , Samidha Kulkarni, "Computerized Blood cell count using KNN classifier" in International Conference on Advance in Communication and computing Technology on 10th, 11h August, 2013 at PVPPCOE, Sion, Mumbai.	
Area of Specialization		Antennas, Image Processing	
Professional Memberships	:	Life Member of Indian Society of Technical Education (ISTE)	**LM 64788**
Awards	:	"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.

Subjects Taught

UG Level:

Sr. No.	Name	Sem	Total Experience (in Years)
1.	Basic Electrical and Electronics Engineering	I (old)	3
2.	Electronic Devices and Circuits-I	III (old)	2
3.	Electronic Devices and Circuits-II	IV (old)	2
4.	Signals and Systems	III (CBGS) (old)	1 1
5.	Linear Integrated Circuits	IV(old) (CBGS)	3 1
6.	Image Processing and Machine Vision	V (CBGS)	1
7.	Microcontroller and Applications	VI(CBGS)	2
8.	Antenna and Wave Propagation	VI (old)	2
9.	Image and Video Processing	VII (CBGS)	4
10	Microwave Engineering	VII (CBGS) (old)	2 1
11.	Telecommunication Network Management	VIII (CBGS)	4

Projects Guided	:	**<u>UG Level:</u>** **AY 2020-21** 1. Broadband Antenna Design Using Neural Networks 2. Circular Microstrip Antenna Array **AY 2019-20** 1. Real Time Patient Monitoring Health System 2. Automatic Waste Segregation using Robotic Arm and Image Processing 3. Weather Forecasting , Disaster Prediction and Recommendations **AY 2018-19** 1. Student Coin 2. Deep image prior using Python 3. Application which converts camera feed to caption **AY. 2017-18** 1. Limnological Raft 2. Self-Balancing Robot using Arduino Bluetooth Module 3. Solving Rubtics cube using Image Processing **AY. 2016-17** 1. Agro-bot using solar energy 2. Cheque and coin detection for bank applications 3. Wearable Tech for concussion detection and player health monitoring **AY. 2015-16** 1. Implementation of Multitalented Spy robot using Microcontroller. 2. Implementation of Smart Ambulance using DTMF Trans receiver **<u>PG Level:</u>** **AY. 2016-17** 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 **AY. 2015-16** 1. Bilingual Sign Recognition using Image Based Hand Gesture Technique for Hearing and Speech Impaired People

Recommended Students for Higher Education		**Name of the Student** 1. Rohan Jhaveri 2. Rahil Patel 3. Anamika Sen 4. Ashish Malpani 5. Yash Shah 6. Mihir Kulkarni 7. Stuti Patel 8. Tanvo Gogri 9. Anushka Gupta 10. Saurabh Labade 11. Kunjan Mehta 12. Ekta Trivedi 13. Antara Gupta 14. Urvi Gada 15. Soumya Mahuvakar 16. Raj Dasadia 17. Harshil Malavia 18. Hardik Modi 19. Anish Mishra 20. Atharv Desai 21. Mansi Shetty 22. Sagar Shah 23. Sanket Jain 24. Nirmayee Vilekar 25. Ashwin Shetty 26. Milind Jani 27. Gauri Gosavi 28. Drishti Parekh 29. Nigam shah 30. Harshit Modi 31. Somil Jain 32. Rohan Deo 33. Mihir shah 34. Harsh Raval 35. Pooja Jha 36. Binal shah 37. Rishil Patel	**University/Industry** 1. Colorado State University 2. University of Michigan 3. Verginia Tech 4. Verginia Tech 5. University of California. 6. Verginia Tech 7. University of Michigan 8. University of Illinois at Chicago 9. North Carolina State 10. North Carolina State 11. University of Texas at Austin 12. University of Southern California 13. University of Illinois at Chicago 14. North Carolina State 15. Northeastern University 16. University of Houston 17. University of Texas at Dallas 18. University of Texas at Dallas 19. Chalmers University 20. University of Colorado Boulder 21. University of Buffallo 22. Northeastern University 23. Stevens Institute of Technology 24. University of Buffalo 25. University of Southern California 26. Technische Universitat Berlin 27. University of Buffalo 28. University of Maryland 29. University of Maryland 30. New Jersy Institute of Technology 31. San Jose State University 32. Purdue University 33. Rutguers University 34. University of Bath 35. University of washigton 36. University of Texas at Dallas 37. University of Buffalo
Institute/Department Responsibility handled:		➢ Member of National Institute Ranking Framework (NIRF) Committee ➢ Member of Placement Committee ➢ Member of Brand Management Committee ➢ Lab In-charge- RF Lab ➢ NBA Criteria 4 Departmental Level Coordinator ➢ Member of Organizing Committee of: - o International Conference on Wireless and Communication (ICWiCOM) 2017 o International Conference on Wireless and Communication (ICWiCOM) 2019 o International Conference on Wireless and Communication (ICWiCOM) 2021	

Pedagogy Development		1. https://www.youtube.com/watch?v=XrPiFxe9_78 2. https://www.youtube.com/watch?v=SMk7oS1c-zI