Name of Teaching Staff	:	Dr. 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=Z83k8UE AAAAJ&hl=en	
Research gate Link:		https://www.researchgate.net/profile/Aarti-Ambekar	
ORCID		https://orcid.org/my-orcid?orcid=0000-0002-8098- 1296	
Publons Researcher ID		Web of Science ResearcherID AAB-8433-2022	
Qualifications with Class / Grade	:	 Ph.D. in Electronics & Telecomm. Engineering from University of Mumbai on Topic, "Dual Polarized Microstrip Antennas for Multiband and Broadband Response", August 2022 M.E. – Electronics Engineering from University of Mumbai in 2013, 1st class 68.86%. B.EElectronics & Telecomm. Engineering from University of Pune in June 2007, 1st class 60.00%. 	
Total Experience in Years	:	Teaching: 15 years	
		 Assistant Professor, EXTC Department, D.J. Sanghvi College of Engineering from 5.01.2015 to till date. Assistant Professor, EXTC Department, Y.T.C.E.M. from 1.3.2014 to 30.12.2014. Lecturer, EXTC Department, Y.T.C.E.M. from 15.7.2008 to 28.2.2014. Lecturer (Adhoc), K. J. S. C. E., from 10.7.2007 to 11.7.2008. 	
Papers Published in Journal:	:	 International: 11 [1] 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. [2] 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. [3] 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. [4] Aarti. G. Ambekar, Amit A. Deshmukh, "DP wideband compact P-shape microstrip antenna for GSM and LTE Applications," International 	

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- [10] Dhanshree S. Shedge, Aarti G. Ambekar," Digital Video Watermarking based on Different Wavelet Transform', CAE, Vol-5, No. 10, pp 37-41, September 2016
- [11] Aarti G. Ambekar, Chhaya Hinge, Samidha Kulkarni "Bilingual OCR for printed English and Devnagri Scripts"in international Journal PARIPEX,Indian Journal of Research, Gujarat in Jan,2013, Vol-2, Issue-1

Papers Presented in Conferences

International: 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
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- [9] 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.
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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*

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system with Multiple Layers of Security ", IJCA Proceedings of			
Conference on Computer Technology 2015(7):17-21, September 2015			
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Technique to PAPR Reduction for STBC MIMO-OFDM using Four			
Transmitting Antennas", IJCA Proceedings on International Conference on			
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handwritten English & Marathi Text" in International Conference on			
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Sy Co [2 G Co Co Co Co Co Co Co	Conference on Computer Technology 2015(7):17-21, September [26] Sumit Wagh, Aarti G. Ambekar," Shoulder Surfing Resist Graphical Password Scheme' IJCA Proceedings on International Computer Technology 2015(3):17-19, September 2015 [27] Shilpa A. Talele, Aarti G. Ambekar, Deepshikha Hing Technique to PAPR Reduction for STBC MIMO-OFD Transmitting Antennas", IJCA Proceedings on International Computer Technology 2015(1):25-30, September 2015. [28] Aarti G. Ambekar, Chhaya Hinge, Samidha Kulkarni "Bi handwritten English & Marathi Text" in International Emerging Trends in Technology & Its Application(ICETTA 07th March, 2013 at YTIET, Karjat [29] Chhaya Hinge, Aarti G. Ambekar, , Samidha Kulkarni, Blood cell count using KNN classifier" in International Advance in Communication and computing Technology on 10 2013 at PVPPCOE, Sion, Mumbai. Antennas, Image Processing Life Member of Indian Society of Technical Education (ISTE)		

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-	III (old)	2		
	3.	Electronic Devices and Circuits-	IV (old)	2		
	4.	Signals and Systems	III (CBGS	1 1		
_			(old)			
	5.	Linear Integrated Circuits	IV(old) (CBGS	3		
)	1		
	6.	Image Processing and Machine Vision	V (CBGS	1		
	7.	Microcontroller and Applications	VI(CB GS)	2		
	8.	Antenna and Wave Propagation	VI (old)	2		
	9.	Image and Video Processing	VII (CBGS	4		
	10	Microwave Engineering	VII (CBGS	2 1		
			(old)			
	11.	Telecommunication Network Management	VIII (CBGS	4		

Projects Guided

UG Level:

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

PG Level:

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	Name of the Student	University/Industry
Higher Education		
	 Rohan Jhaveri 	Colorado State University
	2. Rahil Patel	2. University of Michigan
	3. Anamika Sen	3. Verginia Tech
	4. Ashish Malpani	4. Verginia Tech
	5. Yash Shah	5. University of California.
	6. Mihir Kulkarni	6. Verginia Tech
	7. Stuti Patel	7. University of Michigan
	8. Tanvo Gogri	8. University of Illinois at Chicago
	9. Anushka Gupta	9. North Carolina State
	10. Saurabh Labade	10. North Carolina State
	11. Kunjan Mehta	11. University of Texas at Austin
	12. Ekta Trivedi	12. University of Southern California
	13. Antara Gupta	13. University of Illinois at Chicago
	14. Urvi Gada	14. North Carolina State
	15. Soumya Mahuvakar	15. Northeastern University
	16. Raj Dasadia	16. University of Houston
	17. Harshil Malavia	17. University of Texas at Dallas
	18. Hardik Modi	18. University of Texas at Dallas
	19. Anish Mishra 20. Athary Desai	19. Chalmers University
		20. University of Colorado Boulder
	21. Mansi Shetty 22. Sagar Shah	21. University of Buffallo22. Northeastern University
	23. Sanket Jain	23. Stevens Institute of Technology
	24. Nirmayee Vilekar	24. University of Buffalo
	25. Ashwin Shetty	25. University of Southern California
	26. Milind Jani	26. Technische Universität Berlin
	27. Gauri Gosavi	27. University of Buffalo
	28. Drishti Parekh	28. University of Maryland
	29. Nigam shah	29. University of Maryland
	30. Harshit Modi	30. New Jersy Institute of Technology
	31. Somil Jain	31. San Jose State University
	32. Rohan Deo	32. Purdue University
	33. Mihir shah	33. Rutguers University
	34. Harsh Raval	34. University of Bath
	35. Pooja Jha	35. University of washigton
	36. Binal shah	36. University of Texas at Dallas
	37. Rishil Patel	37. University of Buffalo
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Institute/Department	Member of National Institu	te Ranking Framework (NIRF) Committee
Responsibility handled:	Member of Placement Com	mittee
	Member of Brand Managen	nent Committee
	Lab In-charge- RF Lab	
	 NBA Criteria 4 Department 	eal Level Coordinator
	Member of Organizing Con	
		rence on Wireless and Communication
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	(ICWiCOM) 2017	W' 1 1C
		rence on Wireless and Communication
	(ICWiCOM) 2019	
	 International Confe 	rence 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