

Name of Teaching Staff	: Prof. Archana A. Chaudhari
Designation	: Assistant Professor
Department	: Electronics & Telecommunication Engineering
Date of Joining the Institution	: 13.7.2013
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Publons	: <a href="https://publons.com/researcher/AAE-6911-2022/">https://publons.com/researcher/AAE-6911-2022/</a>
Qualifications with Class / Grade	: <ol style="list-style-type: none"> <li>1. Pursuing Ph.D. in Electronics &amp; Telecommunication Engineering from NMIMS University, Mumbai</li> <li>2. M.E. – Electronics &amp; Telecommunication Engineering from University of Mumbai in August 2010, 1<sup>st</sup> class ( 66.54 %)</li> <li>3. B.E. (Electronics &amp; Telecomm. Engineering) from University of Amravati in June 2003, 1<sup>st</sup> class (61.5%).</li> </ol>
Total Experience in Years	: <b>Teaching: 18 years</b> <ol style="list-style-type: none"> <li>1. Assistant Professor, D.J. Sanghvi College of Engineering from 13.07.2013 to till date.</li> <li>2. Assistant Professor Atharva College of Engineering from 1.8.2011 to 13.07.2013.</li> <li>3. Lecturer, Atharva College of Engineering from 18.08.2003 to 1.8.2011.</li> </ol>
Papers Presented in Conferences	: <b>International: 7</b> <ul style="list-style-type: none"> <li>• Crispin Lobo, Ajinkeya Chitrey, Pradeepti Gupta, Sarfaraj, Archana Chaudhari, “Infant Care Assistant using Machine Learning, Audio Processing, Image Processing and IoT Sensor Network”, Proceedings of the International Conference on Electronics and Sustainable Communication Systems (ICESC 2020) IEEE Xplore Part Number: CFP20V66-ART; ISBN: 978-1-7281-4108-4</li> <li>• Archana Chaudhari, Jahnavi Patel, Krishi Savla, Akshitha Shetty, Vrushika Shah, “ <u>Women’s safety band using IoT</u> ”, <u>Proceedings of International Conference on Wireless Communication</u> pp 493-501, DOI: 10.1007/978-981-15-1002-1_50 , November 2019.</li> </ul>



	<ul style="list-style-type: none"> <li>• Neeraj Ramkumar, Archana Chaudhari, “Urban Bus Arrival Time Prediction Using Linear Regression and Kalman Filter—A Comparison”, <u>Soft Computing and Signal Processing</u> pp 279-287, DOI: 10.1007/978-981-13-3393-4_29, Springer, February 2019.</li> <li>• Aniket Kalkar, Abhiroop Mattiyil, Krupa Modi, Sagar Moharir, Archana Chaudhari, “Energy-Efficient Solar-Powered Weather Station and Soil Analyzer”, <u>Proceedings of International Conference on Wireless Communication</u> pp 313-321, DOI: 10.1007/978-981-10-8339-6_34, Springer, April 2018.</li> <li>• Archana Chaudhari, Urvi Gada, Tanvi Gogri, Yash Gandhi “Design and implementation of wireless gesture Controlled robotic car with robotic arm”, presented in ICEMTE-2017 organized by L. R. Tiwari College of Engineering, Mumbai. Proceeding is available on International Journal of Research in Science &amp; Engineering Volume: 3 Issue: 2 March-April 2017, eISSN: 2394-8299, p-ISSN: 2394-8280.</li> <li>• Archana Chaudhari, “Generalized Contrast Enhancement Method for Greyscale and Colored Images”, Communications on Applied Electronics (CAE) – ISSN : 2394-4714 , International Conference on Communication Technology (ICCT 2015) – www.caeaccess.org.</li> <li>• Archana Chaudhari, “Review of Histogram Equalization Methods for Contrast Enhancement”, ICCT 2015, IJCA, September 2015.</li> </ul>
Area of Specialization	<b>Wireless Networks</b>
Professional Memberships	: <b>Life Member of Indian Society of Technical Education (ISTE)</b>   LM125792
Awards	: Best paper Award, International conference ICEMTE-2017 Organizedss by L. R. Tiwari College of Engineering, Mumbai for paper titled, “Design & Implementation of Wireless Gesture Controlled Robotic Car with Robotic Arm”
Subjects Taught	<p><b><u>UG Level:</u></b></p> <ul style="list-style-type: none"> <li>• Wireless Networks</li> <li>• Mobile communication</li> <li>• Analog Communication</li> <li>• Data Compression and Encryption</li> <li>• Neural Network and Fuzzy Logic</li> </ul> <p><b><u>PG Level:</u></b></p> <ul style="list-style-type: none"> <li>• Mobile &amp; Wireless Communication</li> </ul>

Projects Guided	<p><b>UG Level: (Last 3 years)</b></p> <ul style="list-style-type: none"> <li>• IoT Based Smart Luggage Tracking System</li> <li>• Smart Aid for the Differently-Abled People</li> <li>• Traffic Detection and Control using Image Processing</li> <li>• Flood Early warning system by WhatsApp using LoRa</li> <li>• Intelligent Body Care System using Machine Learning, Cloud Computing and IoT, audio and Image Processing</li> <li>• Paper Assessment system using Machine Learning</li> <li>• Women safety band using IOT and Machine learning</li> <li>• Advanced assistive drive control</li> <li>• Accident detection system using accelerometer, GSM-GPS module</li> </ul>	
Recommended Students for Higher Education	<p><b><u>Name of the Student</u></b></p> <ul style="list-style-type: none"> <li>• Siddhant Shekhar Salvi</li> <li>• Daksh Shah</li> <li>• Crispin Lobo</li> <li>• Pradeepti Gupta</li> <li>• Neeraj Ramkumar</li> <li>• Ashwin Shetty</li> <li>• Sourabh Jalandar Tirodkar</li> <li>• Ronak Ketan Chheda</li> <li>• Tanvi Gogri</li> <li>• Amber Koyani</li> <li>• Brinal Chimanlal Bheda</li> <li>• Mohit Rajiv Dave</li> <li>• Nanditha Nirmal</li> <li>• Dhavan Kaswala</li> <li>• Vishwa Soni</li> <li>• Virag Gada</li> </ul>	<p><b><u>University/Industry</u></b></p> <ul style="list-style-type: none"> <li>• University of Michigan Rackham Graduate School</li> <li>• Syracuse University</li> <li>• Stanford University - Main Graduate Admissions</li> <li>• University of Michigan Rackham Graduate School</li> <li>• Cornell University, The Graduate School</li> <li>• Georgia Tech Graduate Admissions</li> <li>• Georgia Tech Graduate Admission</li> <li>• University of Michigan Rackham Graduate School</li> <li>• Clemson University (Graduate)</li> <li>• Portland State University - Archived Forms</li> <li>• University of Pennsylvania</li> <li>• Georgia Tech Graduate Admissions</li> <li>• University of Pennsylvania</li> <li>• University of Michigan Ross School of Business</li> <li>• Cornell University, The Graduate School</li> <li>• Portland State University - Archived Forms</li> </ul>

Institute/Department Responsibility handled:	Admission Committee Department Autonomy Co-ordinator Academic Bulletin (Half yearly department news letter) Department Library In-charge NAAC Criteria 1 NBA criteria 4 Organized STTP on “Recent Trends in wireless networks” Organised Webinar on ‘5G wireless network’ Part of organising committee of international conference (ICWiCOM).
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