

Name of Teaching Staff	:	Dr. Asmita Nirmal
Designation	:	Assistant Professor
Department	:	Electronics & Telecommunication Engineering
Date of Joining the Institution	:	04 th August 2026
Email ID	:	asmita.nirmal@djsce.ac.in
Office Contact	:	
Google Scholar Link	:	https://scholar.google.com/citations?user=QKw_XJwAAAAJ&hl=en
ResearchGate Link:		https://www.researchgate.net/profile/Asmita-Nirmal
ORCID		https://orcid.org/0000-0003-1747-2234
Qualifications with Class / Grade	:	1. Ph.D. in Electronics and Telecommunication Engineering from Mumbai University, 2025. 2. M.E. in Electronics and Telecommunication Engineering from Mumbai University, 2010. 3. B.E. in Electronics and Telecommunication Engineering from Amravati University, 2002. 4. Diploma in Electronics and Telecommunication Engineering from Government Polytechnic, Khamgaon, 1999.
Total Experience in Years	:	<u>Teaching: 23 years</u> 1. Assistant Professor, Department of Electronics and Telecommunication Engineering, D.J.Sanghvi College of Engineering, Vile Parle(W), Mumbai, from 04.08.2026 to till date. 2. Assistant Professor, Department of Electronics and Telecommunication Engineering, Datta Meghe College of Engineering, Airoli, Navi Mumbai, from 15.12.2003 to 03.08.2026. 3. Lecturer, Department of Electronics and Telecommunication Engineering, Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, from 1.1.2003 to 13.12.2003. <u>Industry:</u> -- <u>Research:</u> --
Papers Published in Journal:	:	<u>National: 2</u> [1] Deshpande, A., Mirajkar, D., Chavan, T., Bhandare, G., & Nirmal, A. (2016). Signaling system with safety mechanism and train tracking. <i>Indian Journal of Technical Education</i>, 39(1), ISSN 0971-3034. [2] Katkar, A., Kedar, N., Kolwankar, S., Naik, S., & Nirmal, A. J. (2016). Wireless control of powered wheelchair with tongue motion using tongue drive assistive. <i>Indian Journal of Technical Education</i>, 39(1), ISSN 0971-3034. <u>International: 3</u> [1] Nirmal, A., Jayaswal, D., & Kachare, P. H. (2024). A hybrid bald eagle-crow search algorithm for gaussian mixture model optimisation in the speaker verification framework. <i>Decision Analytics Journal</i>, 10, 100385.

		[2] Nirmal, A., Jayaswal, D., & Kachare, P. H. (2024). Statistically Significant Duration-Independent-based Noise-Robust Speaker Verification. <i>International Journal of Mathematical, Engineering & Management Sciences</i>, 9(1). [3] Nirmal, A. (2020). Brief Review of Short Utterance Speaker Verification Systems. <i>Bioscience Biotechnology Research Communications</i>, 13, 419-426. doi: 10.21786/bbrc/13.14/95.
Papers Presented in Conferences	:	<u>National:</u> 2 [1] Nirmal, A. J., & Gaikwad, V. B. (2009, December 21–22). Content-based image retrieval and indexing using color and texture features. In <i>Proceedings of the Conference at Saraswati College of Engineering, Kharghar, Navi Mumbai</i>. [2] Nirmal, A. J., & Gaikwad, V. B. (2009, October 30–31). Image retrieval: Issues and challenges. In <i>Proceedings of the Conference at Agnel Polytechnic, Vashi</i>. <u>International:</u> 4 [1] Nirmal, A., & Jayaswal, D. (2022). Investigating Gammatone Filterbank-Based i-Vectors for Speaker Verification Task. In <i>Information and Communication Technology for Competitive Strategies (ICTCS 2021) Intelligent Strategies for ICT</i> (pp. 767-775). Singapore: Springer Nature Singapore. [2] Nirmal, A., & Jayaswal, D. (2022). Investigating i-Vector Framework for Speaker Verification in Wild Conditions. In <i>IOT with Smart Systems: Proceedings of ICTIS 2022, Volume 2</i> (pp. 101-109). Singapore: Springer Nature Singapore. [3] Badgujar, R., Bagave, S., Baswant, S., Mhasagar, V., & Nirmal, A. J. (2015, March 12–13). Speaker identification using artificial neural network. In <i>Proceedings of the International Conference on Electronics and Computing Technology</i> (pp. 63–65). K.C. College of Engineering, Thane. [4] Nirmal, A. (2011, January 19–21). Color and texture features for content-based image retrieval system. In <i>Proceedings of the International Conference & Workshop on Emerging Trends in Technology (ICWET)</i> (Vol. 2, Issue 1). Thakur College of Engineering, Kandivali, Mumbai.
Area of Specialization		Digital Signal Processing, Speech and Image Processing, Machine Learning, Neural Network, Deep Learning, Fuzzy Logic, Data Science, Data Analytics, Pattern Recognition, Wavelet Transform, IoT and Python Programming
PhD Guide? Give field & University	:	<u>Field:</u> <u>University:</u> NA
PhDs / Projects Guided	:	<u>PhDs :</u> <u>Projects at Masters level:</u> NA
Books Published / IPRs / Patents	:	NA

Professional Memberships	:	Associate Member of the Institute of Electronics and Telecommunication Engineers (IETE) – Lifetime Member	AM-165717
Consultancy Activities	:		
Awards	:	Merit Certificate awarded by the State of Maharashtra in 1996 for securing high marks in the 10th Board Examination.	
Grants fetched	:		
Interaction with Professional Institutions	:	<u>As a Faculty Convener of IETE Committee(from 2020-21 to 2023-24)</u> ➤ Organized a one-day industrial visit to Smart I Electronics Systems Pvt. Ltd., Bhiwandi on 4th May 2022. ➤ Conducted a workshop on Arduino for students and faculty on 28th February 2024 at Datta Meghe College of Engineering. ➤ Arranged a two-day Blockchain Technology workshop on 31st July and 1st August 2023 for SE, TE and BE students. ➤ Co-ordinated the Electrowiz 2024 National level project competition on 24th January 2024. ➤ Arranged the Technical Debate Competition “Tech-debate 2024”. ➤ Conducted the intra-departmental project competition “Stepping Stone 2023” on 31st March 2023 under the IETE banner. ➤ Co-ordinated the Electroviz 2023 National level project competition on 21st April 2023 for Semester VIII students. <u>Expert / Guest Lectures Delivered:</u> ➤ Live expert lecture on “Signal and System” and “Laplace Transform” on 23rd May 2021 at JSPM’s Bhagwat Institute of Technology, Barshi. ➤ Guest lecture on “Fundamentals of Statistics and its Applications in Real Life” at K.C. College of Engineering and Management Studies and Research, 17th to 21st June 2013. <u>Reviewer:</u> Material Research Expert <u>NPTEL and Coursera:</u> ➤ Introduction to Machine Learning, NPTEL, IIT Bombay, August to October 2018 ➤ Machine Learning & Deep Learning – Fundamentals & Applications, NPTEL, IIT Guwahati, October 2025 ➤ Coursera Certification: Introduction to Python ➤ Coursera Certification: Data Analytics & Python ➤ Coursera Certification: Python for Data Science, AI & Development ➤ Coursera Certification: Generative AI & its Applications	
Subjects Taught		<u>UG Level:</u> 1. Discrete Time Signal Processing, 2. Signals and Systems, Machine Learning, 3. Artificial Neural Networks and Fuzzy Logic 4. Digital Image Processing 5. Random Signal Analysis, Data Science <u>PG Level:</u> 1. Statistical Signal Processing 2. Modern Digital Signal Processing and Applications 3. Advanced Digital Signal and Image Processing	

Projects Guided	:	<u>UG Level:</u> 1. Signaling system with safety mechanism and train tracking 2. Wireless control of powered wheelchair with tongue motion using tongue drive assistant. 3. Vocal Emotion Recognition and Classification 4. Text Independent Speaker Verification System 5. Facial Expression Detection and Classification <u>PG Level:</u> NA	
Recommended Students for Higher Education		<u>Name of the Student</u> Sneha Naik Ashmita Ramchandran Kushal Purushottam Rohit Gurjar Sneha Kurhade	<u>University/Industry</u> Texas A and M University Illinois institute of technology syracuse university University of florida Northeastern University
Institute/Department Responsibility handled:		➤ NAAC Criterion I (Curricular Aspects) In-Charge – syllabus design, feedback analysis, academic calendar, project records, enrolment data and value-added course documentation ➤ Departmental Exam In-Charge – scheduling and conduct of internal and external examinations ➤ Senior Supervisor, examinations (two years) ➤ Centralized Assessment Process (CAP) In-Charge – paper assessment and revaluation ➤ IT Coordinator – IT resources and support for departmental and academic activities ➤ Examiner Panel Coordination ➤ Convener for Convocation Ceremony ➤ Lab In-Charge – management and up gradation of the computer lab ➤ Cultural In-Charge – Annual Gathering ➤ Department Faculty Convener – IETE Committee	

FDP and STTP attended	<u>FDP / STTP Attended:</u> ➤ 3-day FDP on “Enhancing Research Work of Ph.D. Aspirants through Systematic Approach”, Dept. of Mechanical Engineering, Lokmanya Tilak College of Engineering, Koparkhairane, Navi Mumbai ➤ 3-day FDP on “Writing High-Impact Research Papers, Effectively & Efficiently”, G. H. Raisonni Institute of Business Management, Jalgaon ➤ One-day FDP on “Outcome Based Education Software”, VMEDULIFE ➤ 5-day FDP on “Sensor, IoT & Machine Learning”, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai ➤ 5-day FDP on “Outcome Based Education: A Step Towards Excellence”, under the Margdarshan Scheme of AICTE, New Delhi ➤ One-week FDP on “Internet of Things”, organized by IETE at Don Bosco Institute of Technology (DMCE) ➤ One-week FDP on “Python Programming and Its Applications”, organized by IETE at Don Bosco Institute of Technology (DMCE) ➤ 8-week online FDP on “Introduction to Machine Learning”, IIT Bombay ➤ Two-week FDP on “Introduction to Research Methodologies”, IIT Bombay Remote Center – Terna Engineering College, Nerul, Navi Mumbai ➤ One-week FDP on “Linear Algebra, Wavelets and Applications”, Dept. of Mathematics and Centre for Continuing Education, NIT Calicut ➤ Two-week FDP on “Mastering MATLAB”, ISTE at Datta Meghe College of Engineering, Navi Mumbai ➤ Two-week FDP on “Digital Image Processing”, SIES Graduate School of Technology, Nerul, Navi Mumbai <u>Workshops / Seminars Attended:</u> ➤ One-day workshop on “Emerging Trends in IP: A Vehicle of Promoting Research and Innovation”, 6th June 2020, Lokmanya Tilak College of Engineering, Koparkhairane, Navi Mumbai ➤ One-day workshop on “Machine Learning: Solve for India”, 30th May 2020, IETE Don Bosco Institute of Technology (DMCE) ➤ One-week workshop on “Internet of Things”, 2nd to 8th January 2020, IETE Don Bosco Institute of Technology (DMCE) ➤ One-day workshop on “A Guide Through the Maze of Telecommunication”, 19th October 2002, Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai
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