Dr. Udmale Sandeep Sambhaji

Assistant Professor

Dept. of Computer Engineering & IT, VJTI, Mumbai, India

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Research Interest

Data Science, Machine Learning, Deep Learning, Optimization, and Pattern Analysis

Artificial Intelligence, Machine Learning, Pattern Recognition, Data Mining, Data Structures and Algorithms, and Operating System

Educational Qualification

- Ph.D. (Computer Science and Engineering) (2019) Indian Institute of Technology (IIT-BHU), Varanasi, Uttar Pradesh, India
- M. Tech. (Computer Engineering) (2009)
 - Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere, Raigad, Maharashtra, India
- B.E. (Computer Engineering) (2006)
 - K. J. Somaiya College of Engineering (KJSCE), Vidyavihar, Mumbai, Maharashtra, India

Experience

Academic

Working as an Assistant Professor, Department of Computer Engineering and Information Technology, Veermata Jijabai Technological Institute (VJTI), Mumbai, India, since December 2010.

Administrative

Department Level

- Coordinator, National Institutional Ranking Framework (NIRF) for AY 2023-24.
- Member, Department Purchase Committee from December 2023.
- In charge, Artificial Intelligence and Machine Learning Laboratory from October 2023.
- In charge, Laboratory-3 from October 2023.
- Coordinator, Drafting of Technological University of VJTI from September 2023.
- Coordinator, Industry-Institute-Interaction (III) for AY 2022-23.
- Coordinator, Ph.D. Admission Process 2021, 2022, 2023.
- Coordinator, Internship Process 2021, 2022, 2023.
- Member, Department Academic Committee from July 2020 to July 2022.
- Coordinator, PhD colloquium 2020, 2022, 2023.
- Coordinator, B. Tech. Information Technology NBA Team from January 2020 to December 2021.
- Coordinator, Faculty Recruitment (B Tech IT Programme) from January 2016 to March 2016.
- Member, Institute Examination Software Team from June 2011 to June 2013.
- Coordinator, Summer Term for Year 2011, 2012, 2015, 2016.
- Coordinator, Examination Section from January 2011 to December 2012 and August 2014 to May 2017.
- Coordinator, Time Table from January 2011 to June 2011.
- In charge, Open Source Software Laboratory from January 2011 to July 2017.
- Member, Departmental Board of Studies (BoS) from December 2010 to till date

Institute Level

- Coordinator, First Year B. Tech. Admission Process 2023-24.
- Member, Post Graduate Academic Audit for AY 2023-24.

- Convener, Institute Innovation Council (IIC) VJTI for AY 2023-2025.
- Coordinator, Smart India Hackathon (SIH) Software Edition 2023.
- Coordinator, Maharashtra Students Innovation Challenge (MSIC) 2023.
- Faculty Advisor, Entrepreneurship Cell (E-Cell) VJTI for AY 2022-2024.
- Advisor, IEEE-VJTI Chapter from July 2022.
- Coordinator, AICTE-CII (The Confederation of Indian Industry) Survey 2017 from January 2017 to May 2017.
- Co-coordinator, B. Tech Admission Process 2013.
- Coordinator, Procurement of IT-related items on Institute level under TEQIP-II from January 2013 to December 2014.
- Member, AICTE web portal for extension of approval from January 2011 to August 2012.
- Member, UGC approval process of autonomy from January 2011 to June 2011.

Outside Institute

- Technical Expert, AICTE New Delhi
- Member, DTE Maharashtra Scrutiny Committee for intake variation approval
- Member, Procurement Committee of Various Government Organization
- Auditor, Academic auditing for various Institute
- Auditor, Exam paper auditing for various Institute
- Member, Board of Studies for for various Institute/University

Memberships

- Institute of Electrical and Electronics Engineering (IEEE), Senior Member
- Association for Computing Machinery (ACM), Member
- Computer Society of India (CSI), Life Member
- Indian Society for Technical Education (ISTE), Life Member
- The Institution of Engineers (India) (IEI), Life Member

Achievements

• Mentor of winning team of Smart India Hackathon (SIH) 2023 (Senior Hardware Edition)

Thesis Supervised

Ph.D. 00 completed 04 in progress
M. Tech. 24 completed 01 in progress
B. Tech. 22 completed 03 in progress

Research & Development Project

• Title: Centre of Excellence in Artificial Intelligence

Sponsored by: Directorate of Technical Education, Government of Maharashtra, Maharashtra

Amount: Rs. 5.0 Cr. (Rs. Five crore Only)

Duration: 04 years (Started from July 2023)

Project members: Dr. Sandeep S. Udmale (PI), Prof. Krishna V. Kanakgiri (Co-PI), Dr. Faruk Kazi (Co-PI), Dr. Sunil G Bhirud (Co-PI), Dr. Rawal Awale, Dr. Arvind Deshpande, Dr. Madhav Chandane, and Dr. Harish Khairnar, Dr. Mahesh Shirole

• Title: Trouble-free computing environment

Sponsored by: Modernization and Removal of Obsolescence (MODROB) scheme, All India Council for Technical Education (AICTE), New Delhi

Amount: Rs. 12.0 Lacs (Rs. Twelve Lacs Only)

Duration: 01 years (Started from April 2012)

Project members: Dr. Sandeep S. Udmale

Publication

Patents

1 A patent application is published and under examination with title "A Biometric Based System and Method For Management of Pet Animal," 2020.

Books

Sanjay Kumar Singh, Ravi Shankar Singh, Anil Kumar Pandey, Sandeep S. Udmale, and Ankit Chaudhary, IoT-Based Data Analytics for the Healthcare Industry, Academic Press (Elsevier), 2020.

Dataset

1 Amey Bhole, **Sandeep S. Udmale**, Owen Falzon, and Goerge Azzopardi, *Recognition of Holstein Cattle with Thermal and RGB images*, DataverseNL, 2021. [*URL*]

Journals

- Sandeep S. Udmale, Aneesh G Nath, Durgesh Singh, Aman Singh, Xiaochun Cheng, Divya Anand, and Sanjay Kumar Singh, "An Optimized Extreme Learning Machine-based Novel Model for Bearing Fault Classification," Expert Systems, 2023. Wiley.
- 2 Rachana Chaudhari, Dhwani Agarwal, Kritika Ravishankar, Nikita Masand, Vijay K. Sambhe, and Sandeep S. Udmale, "Multi-Output Incremental Back-Propagation," Neural Computing and Applications, 2023, vol. 35, pp. 14897–14910. Springer.
- 3 Anviti Pandey, Sanjay Kumar Singh, **Sandeep S. Udmale**, and K. K. Shukla, "An Intelligent Optimized Deep Learning Model to Achieve Early Prediction of Epileptic Seizures," *Biomedical Signal Processing and Control*, 2023, vol. 84, pp. 104798. Elsevier.
- 4 Durgesh Singh, Sanjay Kumar Singh, and **Sandeep S. Udmale**, "An Efficient self-embedding fragile watermarking scheme for image authentication with two chances for recovery capability," *Multimedia Tools and Applications*, 2023, vol. 82, pp. 1045–1066. Springer.
- 5 Durgesh Singh, **Sandeep S. Udmale**, and Sanjay Kumar Singh, "Integer wavelet transform based an effective fragile watermarking scheme for exact authentication and restoration," *Journal of Ambient Intelligence and Humanized Computing*, 2023, vol. 14, no. 5, pp. 4841–4852. Springer.
- 6 Anviti Pandey, Sanjay Kumar Singh, **Sandeep S. Udmale**, and K. K. Shukla, "Epileptic Seizure Classification using Battle Royale Search and Rescue optimization-based Deep LSTM," *IEEE Journal of Biomedical and Health Informatics*, 2022, vol. 26, no. 11, pp. 5494–5505. IEEE.
- 7 Amey Bhole, **Sandeep S. Udmale**, Owen Falzon, and Goerge Azzopardi, "CORF3D contour maps with application to Holstein cattle recognition from RGB and thermal images," *Expert Systems with Applications*, 2022, vol. 192, pp. 116354. Elsevier.
- 8 Atif Mahmood, Amod Kumar Tiwari, Sanjay Kumar Singh, and **Sandeep S. Udmale**, "Contemporary machine learning applications in agriculture: Quo Vadis?," *Concurrency and Computation: Practice and Experience*, 2022, vol. 34, no. 15 pp. e6940. Wiley.
- 9 Aneesh G Nath, **Sandeep S. Udmale**, Divyanshu Raghuwanshi, and Sanjay Kumar Singh, "Structural Rotor Fault Diagnosis using Attention based Sensor Fusion and Transformers," *IEEE Sensors Journal*, 2022, vol. 22, no. 1, pp. 707–719. IEEE.
- 10 Aneesh G Nath, **Sandeep S. Udmale**, Divyanshu Raghuwanshi, and Sanjay Kumar Singh, "Improved Structural Rotor Fault Diagnosis using Multi-sensor Fuzzy Recurrence Plots and Classifier Fusion," *IEEE Sensors Journal*, 2021. vol. 21, no. 19, pp. 21705–21717. IEEE.

- 11 Aneesh G Nath, Anshul Sharma, **Sandeep S. Udmale**, and Sanjay Kumar Singh, "An early classification approach for improving structural rotor fault diagnosis," *IEEE Transactions on Instrumentation and Measurement*, 2021, vol. 70, pp. 1–13. IEEE.
- 12 Aneesh G Nath, **Sandeep S. Udmale**, and Sanjay Kumar Singh, "Role of artificial intelligence in rotor fault diagnosis: a comprehensive review," *Artificial Intelligence Review*, 2021, vol. 54, pp. 2609–2668. Springer.
- 13 Anshul Sharma, Sanjay Kumar Singh, **Sandeep S. Udmale**, Amit Kumar Singh, and Rishav Singh, "Early transportation mode detection using smartphone sensing data," *IEEE Sensors Journal*, 2021, vol. 21, no. 14, pp. 15651–15659. IEEE.
- 14 Sandeep S. Udmale, Sanjay Kumar Singh, Rishav Singh, and Arun Kumar Sangaiah, "Multi-fault bearing classification using sensors and ConvNet-based transfer learning approach," *IEEE Sensors Journal*, 2020, vol. 20, no. 3, pp. 1433—1444. IEEE.
- 15 Rishav Singh, Tanveer Ahmed, Ritika Singh, **Sandeep S. Udmale** and Sanjay Kumar Singh, "Identifying tiny faces in thermal images using transfer learning," *Journal of Ambient Intelligence and Humanized Computing*, 2020, vol. 11, pp. 1957–1966. Springer.
- 16 Sandeep S. Udmale and Sanjay Kumar Singh, "A mechanical data analysis using kurtogram and extreme learning machine," *Neural Computing and Applications*, 2020, vol. 32, pp. 3789—3801. Springer.
- 17 **Sandeep S. Udmale**, Sanjay Kumar Singh and Sunil G. Bhirud, "A bearing data analysis based on kurtogram and deep learning sequence models," *Measurement*, 2019, vol. 145, pp. 665–677. Elsevier.
- 18 **Sandeep S. Udmale** and Sanjay Kumar Singh, "Application of spectral kurtosis and improved extreme learning machine for bearing fault classification," *IEEE Transactions on Instrumentation and Measurement*, 2019, vol. 68, no. 11, pp. 4222–4233. IEEE.
- 19 Sandeep S. Udmale, Sangram S. Patil, Vikas M. Phalle and Sanjay Kumar Singh, "A bearing vibration data analysis based on spectral kurtosis and ConvNet," *Soft Computing*, 2019, vol. 23, no. 19 pp. 9341–9359. Springer.

Conferences

- 1 Akshay Bakshi, and **Sandeep S. Udmale**, "ALPR: A Method for Identifying License Plates Using Sequential Information," in *Proceeding of the 20th International Conference on Computer Analysis of Images and Patterns (CAIP)*, 2023, pp. 284–294. Springer.
- 2 Bhavya Mehta, Vijay Kharche, and **Sandeep S. Udmale**, "Accelerating the Search for Stable Full Heusler Compounds through Machine Learning," in *Proceeding of the 24th International Conference on Information Reuse and Integration for Data Science (IRI)*, 2023. IEEE.
- Akshay Bakshi, Sudhanshu Gulhane, Tanish Sawant, Sandeep S. Udmale, and Vijay Sambhe, "ALPR An Intelligent Approach Towards Detection and Recognition of License Plates in Uncontrolled Environments," in Proceeding of the 19th International Conference on Distributed Computing and Internet Technology (ICDCIT), 2023, pp. 253–269. Springer.
- 4 Sandeep S. Udmale, Aneesh G. Nath, and Sanjay Kumar Singh, "Application of Industry 4.0 and Meta Learning for Bearing Fault Classification," in *Proceeding of the 25th International Conference on Computer Supported Cooperative Work in Design (CSCWD)*, 2022, pp. 1455–1460. IEEE.
- 5 Vipul Shah, **Sandeep S. Udmale**, Vijay Sambhe, and Amey Bhole, "A Deep Multi-Kernel Uniform Capsule Approach For Hate Speech Detection," in *Proceeding of the 18th International Conference on Distributed Computing and Internet Technology (ICDCIT)*, 2022, pp. 265–271. Springer.
- 6 Vipul Shah, Sandeep S. Udmale, Vijay Sambhe, and Amey Bhole, "A Deep Hybrid Approach For Hate Speech Analysis," in Proceeding of the 19th International Conference on Computer Analysis of Images and Patterns (CAIP), 2021, pp. 424–436. Springer.

- Yash S. Jain, Atharva D. Veer, Gaurav S. Sawant, Yash R. Sawant, and Sandeep S. Udmale, "Novel Statistical Analysis Approach for Remaining Useful Life Prediction of Lithium Ion Battery," in Proceeding of the 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 2021, pp. 1–6. IEEE.
- 8 Sandeep S. Udmale, and Sanjay Kumar Singh, "Bearing Fault Classification using Wavelet Energy and Autoencoder," in *Proceeding of the 16th International Conference on Distributed Computing and Internet Technology (ICDCIT)*, 2020, pp. 227–238. Springer.
- 9 Sandeep S. Udmale, and Sanjay Kumar Singh, "Intra-inter feature ranking based feature selection method for bearing fault classification," in *Proceeding of the 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, 2019, pp. 1–6. IEEE.
- 10 Sandeep S. Udmale, and Sanjay Kumar Singh, "Analysis of statistical features for bearing fault classification using ensemble technique," in *Proceeding of the 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, 2019, pp. 1–6. IEEE.
- 11 Chanchal Khemani, Jay Doshi, Juhi Duseja, Krapi Shah, **Sandeep S. Udmale**, and Vijay Sambhe, "Solving Rubik's Cube Using Graph Theory," in *Proceeding of the 2nd International Conference on Computational Intelligence: Theories, Applications and Future Directions (ICCI)*, 2018, vol. 1, pp. 301–317. Springer.
- 12 Rahul S. Gaikwad, **Sandeep S. Udmale**, and Vijay Sambhe, "E-commerce Recommendation System Using Improved Probabilistic Model," in *Proceeding of the 2nd International Conference on Information and Communication Technology for Sustainable Development (ICT4SD)*, 2018, vol. 2, pp. 277–284. Springer.
- 13 Akash Agrawal, Sandeep S. Udmale, and Vijay Sambhe, "Extended Four-Step Travel Demand Fore-casting Model for Urban Planning," in *Proceeding of the 2nd International Conference on Information and Communication Technology for Sustainable Development (ICT4SD)*, 2018, vol. 2, pp. 191–198. Springer.
- 14 Mohit Gurnani, Yogesh Korke, Prachi Shah, **Sandeep S. Udmale**, Vijay Sambhe, and Sunil Bhirud, "Forecasting of sales by using fusion of machine learning techniques," in *Proceeding of the International Conference on Data Management, Analytics and Innovation (ICDMAI)*, 2017, pp. 93–101. IEEE.
- 15 Dharmendra Hingnu, Deep Shah, and **Sandeep S. Udmale**, "Automatic Text Summarization of Wikipedia Articles," in *Proceeding of the International Conference on Communication, Information & Computing Technology (ICCICT)*, 2015, pp. 1–4. IEEE.
- 16 Sandeep S. Udmale, Vijay K. Sambhe, Rupali Tajanpure, and Archana Wasule, "A BHP saving mechanisms-An approach to improve performance of Optical Burst Switched Network," in *Proceeding of the International Multi-Conference on Automation, Computing, Communication, Control and Compressed Sensing (iMac4s)*, 2013, pp. 630–635. IEEE.
- 17 Laxman D. Netak, **Sandeep S. Udmale**, Girish V. Chowdhary, and Rupali Tajanpure, "Analysis of Effect of Different Factors on Burst Dropping Probability in Optical Burst Switching Network," in *Proceeding of the 2nd International Conference on Future Generation Information Technology (FGIT)*, 2010, vol. 6485, pp. 99–113. Springer.

Book Chapters

- 1 **Sandeep S. Udmale**, Anil Kumar Pandey, Ravi Shankar Singh and Sanjay Kumar Singh, "Internet of things in the healthcare industry," in *IoT-Based Data Analytics for the Healthcare Industry*, ch. 01, pp. 3–8, Academic Press (Elsevier), 2020.
- 2 M. Jayashankara, **Sandeep S. Udmale**, Anil Kumar Pandey, and Ravi Shankar Singh, "IoT healthcare architecture," in *IoT-Based Data Analytics for the Healthcare Industry*, ch. 02, pp. 9–30, Academic Press (Elsevier), 2020.

- 3 Ritesh Sharma, **Sandeep S. Udmale**, Anil Kumar Pandey, and Ravi Shankar Singh, "Characteristics of IoT health data," in *IoT-Based Data Analytics for the Healthcare Industry*, ch. 03, pp. 31–46, Academic Press (Elsevier), 2020.
- 4 Vishakha Singh, **Sandeep S. Udmale**, Anil Kumar Pandey, and Sanjay Kumar Singh, "Health data analytics using Internet of things," in *IoT-Based Data Analytics for the Healthcare Industry*, ch. 04, pp. 47–56, Academic Press (Elsevier), 2020.
- Vishakha Singh, **Sandeep S. Udmale**, Anil Kumar Pandey, and Sanjay Kumar Singh, "IoT for health insurance companies," in *IoT-Based Data Analytics for the Healthcare Industry*, ch. 09, pp. 139–148, Academic Press (Elsevier), 2020.

Professional Activities

Reviewer

• IEEE Transactions on Industrial Electronics (IEEE TIE), IEEE Transactions on Industrial Informatics (IEEE TII), IEEE Transactions on Instrumentation and Measurement (IEEE TIM), IEEE Transactions on Artificial Intelligence (IEEE TAI), IEEE Transactions on Sustainable Energy (IEEE TSTE), IEEE Sensors Journal, IEEE Access, Measurement (Elsevier), ISA Transactions (Elsevier), Reliability Engineering and System Safety (Elsevier), Advanced Engineering Informatics (Elsevier), Engineering Failure Analysis (Elsevier), Knowledge-Based Systems (Elsevier), Engineering Applications of Artificial Intelligence (Elsevier), Soft Computing (Springer)

Board of Studies

- Member, Board of Studies for B. Tech. in Information Technology at St. Francis Institute of Technology Mumbai, Maharashtra from February 2024.
- Member, Board of Studies (Matser in Computer Application (MCA)), University of Mumbai, Mumbai, 2023-2027.
- Member, Board of Studies for B. Tech. in Computer Engineering at Sardar Patel Institute of Technology Mumbai, Maharashtra from May 2023.
- Member, Board of Studies for Diploma Program in Artificial Intelligence & Machine Learning (AI-ML) at Government Polytechnic Mumbai, Maharashtra from August 2022.
- Member, Board of Studies for B. Tech. in Computer Science & Engineering (Data Science) at D. Y. Patil
 College of Engineering & Technology, Kasaba Bawada, Kolhapur, Maharashtra from January 2021.

Conferences

- Session chair (Artificial Intelligence and Machine Learning), International Conference on International Conference on Communication Information and Computing Technology (ICCICT-2021), 26th June, 2021, by Sardar Patel Institute of Technology, Mumbai, Maharashtra, India.
- Track chair (Artificial Intelligence and Machine Learning), International Conference on International Conference on Communication Information and Computing Technology (ICCICT-2021), 25th to 27th June, 2021, by Sardar Patel Institute of Technology, Mumbai, Maharashtra, India.
- Program committee member and reviewer, International Conference on Computational Intelligence and Emerging Power System (ICCIPS-2021), 9th and 10th March, 2021, by Government Engineering College, Ajmer, Rajastan, India.

Invited Talks

1 Expert panelist for discussion on "Indigenous Efforts in Securing Critical Infrastructure", 1st February 2024, at one-day workshop on "Cybersecurity of Critical Infrastructure," organized by Indian Institute of Technology Bombay (IITB), Maharashtra.

- Delivered a lecture on "LangChain", 3rd January 2024, at One Week AICTE ATAL FDP on "Generative AI: Concerns and Solutions," organized by Sardar Patel Institute of Technology (SPIT), Andheri, Mumbai, Maharashtra.
- 3 Delivered a lecture on "Technical Writing and Familiarization of Open Source Tools for Research", 24th March 2023, organized by Thangal Kunju Musaliar College of Engineering (TKMCE), Kollam, Kerala.
- Delivered a lecture on 'Analysis of Multi-Sensor Data with FDPM Scenario'', 27th January 2023, at One Week APJ Abdul Kalam Technological University, Kerala Sponsored on "Data Analytics for the New Industrial Era," organized by Thangal Kunju Musaliar College of Engineering (TKMCE), Kollam, Kerala.
- Delivered a lecture on 'Role of AI in Manufacturing Industry', 24th September 2022, at "International AI Summit 2022," organized by G. H. Raisoni Institute of Engineering and Business Management, Jalgaon, Maharashtra.
- 6 Delivered a lecture on "Vibration Data Analysis", 23rd March 2022, at One Week ISTE STTP on "Machine Learning and AI," organized by SVKM's Shri Bhagubhai Mafatlal Polytechnic, Mumbai, Maharashtra.
- Delivered a lecture on "Industrial Data Analysis using Single Feed Forward Neural Network", 12th February 2022, at One Week Workshop on "Innovations in IoT for Emerging Applications," organized under Technology Incubation and Development of Entrepreneurs (TIDE) 2.0 by Technology Innovation and Incubation Center (TIIC), ABV-Indian Institute of Information Technology and Management (ABV-IIITM), Gwalior, Madhya Pradesh.
- 8 Delivered a lecture on 'Extreme learning machine and convolutional neural network for vibration data analysis', 7th December 2021, at One Week AICTE ATAL FDP on "Intelligent Data Analytics for Critical Infrastructure Security," organized by Rashtriya Raksha University (RRU), Dehgam, Gandhinagar, Gujarat.
- 9 Delivered a lecture on "Extreme learning machine and convolutional neural network for vibration data analysis", 30th July 2021, at One Week FDP on "AI & Data Science the Future of Tomorrow," organized by Rajiv Gandhi Institute of Technology (RGIT), Mumbai, Maharashtra.
- 10 Delivered a lecture on "Basics of Python for Machine Learning and Data Science", 29th May 2021, at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, Maharashtra.
- 11 Delivered a lecture on "Reading excel sheet and doing data analysis", 30th April 2021, at One Week AICTE STTP on "Automation / Application of Python Programming," organized by M. H. Saboo Siddik Polytechnic, Mumbai, Maharashtra.
- 12 Delivered a lecture on 'Python Regular Expressions & Exception Handling'', 8th April 2021, at One Week AICTE STTP on "Advanced Python programming," organized by M. H. Saboo Siddik Polytechnic, Mumbai, Maharashtra.
- 13 Delivered a lecture on "Introduction & basics of python programming", 14th December 2020, at One Week AICTE STTP on "Python programming," organized by M. H. Saboo Siddik Polytechnic, Mumbai, Maharashtra.
- 14 Delivered a lecture on "Extreme learning machine and convolutional neural network for vibration data analysis", 03rd November 2020, at One Week AICTE STTP on "Research Avenues in Machine Learning for Pattern Recognition," organized by Mahatma Gandhi Institute of Technology (MGIT), Hyderabad, Telangana.
- 15 Delivered a webinar on 'A systematic approach to prepare technical paper'', 23rd May 2020, organized by Shri Bhagubhai Mafatlal Polytechnic, Mumbai.
- 16 Delivered a 1-Day Seminar on "Latex", 9^{th} March 2013, at Ramarao Adik Institute of Technology, Nerul, Navi Mumbai.

17 Delivered a 1-Day Seminar on ''Latex'', 8th April 2011, at A. C. Patil College of Engineering, Kharghar, Navi Mumbai.

Organization of Faculty Development or Training Activities Programme

- 1 Coordinated 1-Week workshop on 'Quality Assurance through NAAC Accreditation Process', during 21st February to 25th February 2023, at Veermata Jijabai Technological Institute (VJTI), Mumbai.
- 2 Member of organizing committee for 1-Week TEQIP-II workshop on "Internet of Things", during 15^{th} March to 20^{th} March 2017, at Veermata Jijabai Technological Institute (VJTI), Mumbai.
- 3 Coordinated 2-Weeks TEQIP-II workshop on 'Mathematical and Statistical Foundations in Engineering Applications', during 16th September to 19th September 2016 and 12th October to 17th October 2016, at Veermata Jijabai Technological Institute (VJTI), Mumbai.
- 4 Coordinated for 4-Weeks AICTE approved workshop on ''Use of ICT in Education for Online and Blended Learning'', under the National Mission on Education through ICT (MHRD, Govt. of India), during 2nd May to 10th July 2016, organized by Indian Institute of Technology (IIT), Bombay, at Veermata Jijabai Technological Institute (VJTI), Mumbai.
- Member of organizing committee for 1-Day TEQIP-II workshop on "Skill India", 25^{th} February 2016, at Veermata Jijabai Technological Institute (VJTI), Mumbai.
- 6 Member of organizing committee for 1-Day TEQIP-II workshop on ''Digital Transformation'', 2nd February 2016, at Veermata Jijabai Technological Institute (VJTI), Mumbai.
- 7 Member of organizing committee for 2-Days TEQIP-II workshop on "Internet of Things (IoT)", during 23rd January to 24th January 2016, at Veermata Jijabai Technological Institute (VJTI), Mumbai.
- 8 Member of organizing committee for 1-Day TEQIP-II workshop on "Internet of Things (IoT)", 8th January 2016, at Veermata Jijabai Technological Institute (VJTI), Mumbai.