

# Pratibha Dumane



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## Profile Summary:

Currently serving as the Dean Academics at Don Bosco Institute of Technology, I bring over 30 years of teaching experience. I have previously held roles such as Controller of Examinations for more than four years and Head of the Department of Electronics & Telecommunications Engineering for five years. My academic journey includes a Bachelor's and Master's in Engineering (Electronics), both completed with distinction, complemented by outstanding performance in junior college and schooling. Throughout my career, I have been honored with various awards for academic excellence and have presented and published technical papers at state, national, and international levels.

I am also regularly invited to deliver talks in various engineering colleges and corporate settings on topics such as effective project presentations, technical paper writing, code of conduct and email etiquette.

**Designation:** Assistant Professor & Dean Academics

## IDs

- Google Scholar Link: <https://scholar.google.com/citations?user=iBSKdtoAAAAJ&hl=en&oi=ao>
- LinkedIn URL: [www.linkedin.com/in/pratibha-dumane-7b9484154](http://www.linkedin.com/in/pratibha-dumane-7b9484154)
- VIDWAN ID: 456845
- Orcid ID: 0000-0002-6355-4241

## Educational Details:

Sr. No.	Degree	Board / Institution / University	Year
1	M.E. Electronics	Sardar Patel College of Engineering (SPCE), University of Mumbai	2007
2	B.E. Electronics	Walchand Institute of Technology (WIT), Solapur, Shivaji University	1991

**Date of Joining DBIT:** 07 June 2004

**Area of Specialization:** Electronics Engineering

**Teaching Experience in DBIT:**

Sr. No.	Position Held	Dates (From-To)
1	Assistant Professor	01 April 2008 till date
2	Lecturer	07 June 2004 to 31 March 2008

**Total Teaching Experience:**

Sr. No.	Institution	Dates (From-To)	Designation
1	Don Bosco Institute of Technology	April 2008 till date	Asstt. Professor
2	Don Bosco Institute of Technology	June 2004 to March 2008	Lecturer
3	Fr. C Rodrigues Institute of Technology, Vashi, Navi Mumbai	June 1996 to May 2004	Lecturer
4	S.S.T.J Polytechnic, Solapur	April 1991 to April 1996	Lecturer

**Peer Reviewed Journal Papers:**

- Siddhant Kedar, Pranjali Raval, Amogh Worlikar, Sarika Galphade, Satish Chavan, Pratibha Dumane, "Evaluating the Effectiveness of Machine Learning Models for Early Diagnosis of Chronic Kidney Disease" in the Indian Journal of Technical Education, Volume 47, Special Issue No. 1, February 2024.  
URL: <http://www.isteonline.in/Datafiles/cms/Special%20Issues/Special%20issue%201%20Feb%202024.pdf>
- Rachel T. Pol, Dhanashri S. Sawant, Priyanka S. Sharma, Bhoomika V. Purohit, Pratibha R. Dumane, "Use of Mel Frequency Cepstral Coefficients for the Implementation of a Speaker Recognition System", 2019 Journal of Emerging Technologies and Innovative Research (JETIR) May 2019, Volume 6, Issue 5. URL: <https://www.jetir.org/view?paper=JETIRCS06007>
- Selena Dias, Tanmay Kumbhar, Tyrel Menezes, Caroline Pinto, Pratibha Dumane, "Implementation of Sequential Machine for Encryption of Textual Information", International Journal of Engineering & Technology, 7 (3.3) (2018) 28–30. URL: <https://shorturl.at/ghCrH>

## Peer Reviewed Conference Papers:

2022–23

- Abhishek Tripathi, Shafaque Shaikh, Elton Noronha, Sagar Kote, Satishkumar Chavan, Pratibha Dumane, “Sustainable Development Assessment of South Asian Countries using Fuzzy Logic”, Proceedings of the 4<sup>th</sup> International Conference on Advanced Technologies for Societal Applications – Volume 1 (Techno–Societal 2022), Springer, Cham, Chapter 29, pp. 261–269, September 2023, ISBN 978–3–031–34643–9.

2020–21:

- Dumane, P., Hungund, B., Chavan, S. (2021). Dysarthria Detection Using Convolutional Neural Network. In: Pawar, P.M., Balasubramaniam, R., Ronge, B.P., Salunkhe, S.B., Vibhute, A.S., Melinamath, B. (eds) Techno–Societal 2020. Springer, Cham. [https://doi.org/10.1007/978-3-030-69921-5\\_45](https://doi.org/10.1007/978-3-030-69921-5_45).
- Mathias Natasha, Shaikh Farheen, Thakur Chirayu, Shetty Sweekrithi, Chavan Satishkumar, Dumane Pratibha, “Detection of Micro–Cracks in Electroluminescence Images of Photovoltaic Modules”, (April 8, 2020). Proceedings of the 3rd International Conference on Advances in Science & Technology (ICAST) 2020.  
SSRN: <https://ssrn.com/abstract=3563821> or <http://dx.doi.org/10.2139/ssrn.3563821>

2019–20

- Bilal H. Hungund, Anas Shaikh, Ghazi Owais, Aabidi Sayyed Ali, Pratibha Dumane, “Automated System for Management of Examination Processes”, published on IEEE Xplore. Available at: <https://ieeexplore.ieee.org/abstract/document/8946030>;  
DOI: 10.1109/ICNTE44896.2019.8946030.
- Samuel Jacob, Mandar Warde, Pratibha Dumane, "Impact of Augmented Reality as an ICT tool to Deliver Engineering Education Content," 2020 International Conference on Convergence to Digital World – Quo Vadis (ICCDW), Mumbai, India, 2020, pp. 1–5, doi: 10.1109/ICCDW45521.2020.9318709.

## Books/Chapters Published:

2022–23

- Abhishek Tripathi, Shafaque Shaikh, Elton Noronha, Sagar Kote, Satishkumar Chavan, Pratibha Dumane, “Sustainable Development Assessment of South Asian Countries using Fuzzy Logic”, Proceedings of the 4<sup>th</sup> International Conference on Advanced Technologies for Societal Applications – Volume 1 (Techno–Societal 2022), Springer, Cham, Chapter 29, pp. 261–269,

September 2023, ISBN 978-3-031-34643-9.

2018-19

- Dumane, P.R., Sarate, A.D., Chavan, S.S. (2019). Sustainability Assessment by Use of Fuzzy Logic—A Review. In: Iyer, B., Nalbalwar, S., Pathak, N. (eds) Computing, Communication and Signal Processing. Advances in Intelligent Systems and Computing, vol 810. Springer, Singapore. [https://doi.org/10.1007/978-981-13-1513-8\\_38](https://doi.org/10.1007/978-981-13-1513-8_38)
- Chavan, S.S., Fernandes, C., Dumane, P.R., Varma, S.L. (2020). Design and Implementation of Automatic Coin Dispensing Machine. In: Kumar, A., Mozar, S. (eds) ICCCE 2019. Lecture Notes in Electrical Engineering, vol 570. Springer, Singapore. [https://doi.org/10.1007/978-981-13-8715-9\\_46](https://doi.org/10.1007/978-981-13-8715-9_46).
- B. H. Hungund, A. Shaikh, G. Owais, A. S. Ali and P. Dumane, "Automated System for Management of Examination Processes," 2019 International Conference on Nascent Technologies in Engineering (ICNTE), Navi Mumbai, India, 2019, pp. 1-6, doi: 10.1109/ICNTE44896.2019.8946030.

### **STTPs/FDPs/Workshops Organized:**

- A Certificate Course on 'Artificial Intelligence using Deep Learning' conducted by Research Scholars from IIT-Ropar, was organized from December 20-24, 2019. Co-Coordinator: Dr. Satish Chavan.
- 4 – day Workshop on "Artificial Intelligence using Deep Learning" was organized on 17 to 19 & 25 August, 2018 in collaboration with Finland Labs. Co-Coordinator: Dr. Satish Chavan.

### **STTPs/FDPs/Workshops Attended:**

2024-25:

- One Week online workshop on "Emerging Significance of Artificial Intelligence in Biomedical, Industry 5.0, Cyber Security & Data Forensics" held between 26-31 August, 2024, organized by VPM's Maharshi Parshuram College of Engineering, Velneshwar, in association with Indian Society for Technical Education, New Delhi.
- Two Day Interdisciplinary National Conference (Virtual Mode) on "Technological Advancement in Computer Science: Artificial Intelligence, Machine Learning and Data Science" organized by Dr. S.C. Gulhane Prerna College of Commerce, Science and Arts, Reshimbag, Nagpur on 8-9 September 2023.
- One-week international level FDP on AI Innovations and MATLAB Solutions, from 23-28 September 2024, organized by PCET'S Pimpri Chinchwad College of Engineering & Research, Ravet in association with Design Tech and MathWorks India & technically sponsored by IETE Pune Section.
- One Month online FDP on Deep Learning, organized by SkillDzire in collaboration with AICTE in October 2024.

2023-24:

- Faculty Knowledge Sharing Programme on “Creating Robust Teacher–Student Relationships for Optimum Learning Outcomes” at ICFAI Business School, Mumbai on 26 July 2023.

2021-22:

- Six days online FDP on “AI & Data Science – The Future of Tomorrow” organized by Dept. of Computer Engineering, Rajiv Gandhi Institute of Technology, Mumbai from 29–21 July 2021 and 5–7 August 2021.
- Five-day FDP on “Incorporating Universal Human Values in Education” organized by All India Council for Technical Education (AICTE) from 16–20 August 2021.
- Two-day Online Workshop on “Write Research Article using LaTeX”, organized by Aditya College of Engineering, Surampalem, Andhra Pradesh on 27–28 December 2021.
- Five-day Workshop on “Creating Dynamic Dashboards”, organized by Skill Nation from 1 – 6 March 2022.

### **Participation in SWAYAM MOOCs/NPTEL/Certification Courses Attended:**

- NPTEL Online Certification Course on “United Nations Sustainable Development Goals (UN SDGs)” from January–April 2023.
- NPTEL Online Certification Course on “Patent Drafting for Beginners” from July–August 2019.
- NPTEL Online Certification Course on “Introduction to Professional Scientific Communication” from January–February 2019.

### **Professional Body Memberships:**

- Life Member of the Indian Society for Technical Education (ISTE) (No. LM25276)
- Life Member of Institution of Electronics & Telecommunications Engineers (IETE) (No. M138316)
- Life Member of Indian Women Scientist’s Association
- Member of IAENG Society of Artificial Engineers

### **Invited Talks/Resource Person in STTPs / FDPs:**

2024-25:

- Session on “Email Etiquette” for DBIT B.E. EXTC students on 01 August 2024
- Session on “Code of Conduct” at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai on 03 Aug 2024 during Micro-2K4.
- Session on “Future – Ready: Strategies for Personal & Professional Growth” at Sardar Patel Institute of Technology, Andheri, Mumbai during their Students Orientation Programme on 09 August 2024.
- Session on “Personal Grooming and Project Presentation Essentials” at Walchand Institute of Technology, Solapur on 20 September 2024
- “Personal Grooming and Presentation Skills” for DBIT T.E. IT students on 09 October 2024.
- Conducted a session on “Stress Management through Yoga” on 7 January 2024 in the One

Week ATAL FDP on "Integration of Block Chain and AI for Enhanced Supply Chain Management" organized by Dept. of Computer Engg., DBIT from 6–11 January 2025.

2023–24:

- "Project Prowess: Enhancing Your Impact through Personal Grooming and Presentation Skills" for the B.E.– IT students on 13 July 2023.
- "Art of Impactful Presentations" for B.E.– EXTC students on 01 August 2023.
- "Logical Thinking and Problem–Solving" for B.E.– EXTC students on 06 October 2023.
- Conducted a Workshop on Yoga on 21 June 2024, the International Yoga Day, for the students and staff of Don Bosco Industrial Training Institute, Mumbai.
- Conducted a Workshop on Yoga on International Yoga Day, organized by the NSS Unit of DBIT for the faculty and staff members.

2022–23:

- Session on "Email Etiquette" for the non–teaching staff of the EXTC Department at DBIT on 29 September 2022.
- Delivered a talk on "Role of AI in Industrial Automation" in the Directorate of Technical Education sponsored One–Week Faculty Development Programme on "Industrial Automation with PLC and Embedded System" from 6–10 February 2023 organised by Government Polytechnic, Pen, District Raigad.
- Delivered a talk on "Email Etiquette" for the employees of the Wani Group of Companies on 05 March 2023.

2021–22:

- Delivered a talk on "Becoming Future–Fit" during the Induction Programme for the first–year students of Government Polytechnic, Pen, District Raigad, Maharashtra on 12 October 2021.
- Session on "Becoming Future Fit" under the Value–Added Course organized for the FE students of DBIT on 21 and 28 April 2022.

2020–21:

- Delivered a webinar on "Effective Technical Paper Writing" for the students of A.G. Patil Polytechnic Institute, Solapur, Maharashtra on 23 January 2021.
- Session on "Systematic Literature Review" as a part of Online Moodle Course on "Research and Review – Entering Research" for the third–year students and faculty members of EXTC department at Don Bosco Institute of Technology, Mumbai on 05 May 2021.

2019–20:

- Delivered a talk on "Email Etiquette" on 29 June 2019 at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai.
- Delivered a talk on "Effective Project Presentations" for the B.E. (EXTC) students on 23 August 2019 and B.E. (IT) students on 29 August 2019 at Don Bosco Institute of Technology, Mumbai.
- Workshop on "Email Etiquette" for Employees of NGO Dharma Bharathi Mission on 26 October 2019.
- Delivered a talk on "Effective Project Presentations" for B.E. (EXTC) students on January 11, 2020 at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai.

2018–19:

- Session on “Effective Project Presentations & Email Etiquette” for students of DBIT on 12 October 2018.
- “Object Recognition – Overview of Classification Approach” for the EXTC students of DBIT on 12 April 2019.
- Delivered a talk on “How to Present your Project Work” for the B.E. – IT students on October 01, 2018 at Don Bosco Institute of Technology.
- Delivered a talk on “How to Write a Technical Paper” for the B.E. – EXTC students on March 07, 2019 at Don Bosco Institute of Technology, Mumbai.
- Delivered a talk on “Technical Report Writing and Presentation” on March 08, 2019 at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai.

### **Achievements/Awards/Recognitions:**

- Author of the Book **"Navigating Your Engineering Journey: Campus to Career Essentials"**; available on Amazon: <https://www.amazon.in/Navigating-Your-Engineering-Journey-Essentials/dp/BODJRNJ83N>
- Best Paper Award of Rank 2<sup>nd</sup> in the 2<sup>nd</sup> International Conference on Advances in Computer Vision and Information Technology (ACVIT'09) organized by Dr. Ambedkar Marathwada University, Aurangabad from 16–19 December 2009 for the paper titled “A Novel Approach to Ultrasonic Proximity Detection using AtMega 16 Microcontroller”; Coauthors: Aldrin D’Souza, Colin Viegas, Roysten Pinto, Roysten D’Souza.

### **Interactions with Professional Institutions:**

- Member of the IETE Mumbai Centre Executive Council for 2024–26.
- IETE–DBIT–ISF Coordinator since January 2024.

### **Other Achievements & Responsibilities:**

- Member of the University of Mumbai Syllabus Drafting Committee “ECC 604 Artificial Neural Networks & Fuzzy Logic”, R 2019 C – Scheme.
- Member of the University of Mumbai Syllabus Drafting Committee for “ECC 404 Signals & Systems”.
- Appointed as the Primary Evaluator for Toycathon – 2021, a Hackathon to crowdsource innovative ideas for toys & games, organised by the Innovation Cell, Ministry of Education with support of AICTE, Ministry of Women & Child Development. Ministry of Textiles, Ministry of MSME, Ministry of Commerce & Industry, Ministry of Information & Broadcasting.

### **Reviewer for the following Conferences**

- Biennial International Conference on Nascent Technologies in Engineering organized (ICNTE) by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai
- IEEE Bombay Section Signature Conference (IBSSC–2019)
- International Conference on Technologies for Sustainable Development (ICTSD–2015)
- IEEE International Conference on Computing, Communication, and Intelligent Systems (ICCCIS–2022)
- 6th International Conference on Emerging Technologies in Digital Transformation and Aligned Education (PuneCon2023), organized by IEEE Pune Section and COEP Technological University, Pune.
- 4th IEEE International Conference on Computing, Communication, and Intelligent Systems (Sponsored by IEEE IAS) organized by Sharda School of Engineering and Technology, Sharda University, Greater Noida, Uttar Pradesh.
- Springer International Conference on Recent Developments in Cyber Security (ReDCySec–2024) organized by Center for Cyber Security and Cryptology, Sharda University.
- International Conference on Generative AI, Cryptography and Predictive Analytics (ICGCPA 2024) organized by Dept. of Computer Science, School of Engineering & Technology, Vivekanand Institute of Professional Studies – TC, New Delhi.
- Third International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN 2024) organized by Indo French Educational Trust's College of Engineering, Tamil Nadu.

### **Institute Development/Department Responsibilities Handled:**

- Handling responsibilities as Dean Academics at DBIT from January 2025.
- Controller of Examinations at Don Bosco Institute of Technology (DBIT) from January 2016 to July 2020.
- Head of Department (Electronics & Telecommunications) at DBIT from July 2009 to June 2014.

**Contact Details:** pratibhadumane@gmail.com, pratibha@dbit.in

**Personal Webpage Link:** <https://sites.google.com/view/pratibhadumane>