Veermata Jijabai Technological Institute (VJTI), Matunga, Mumbai-400019
Civil and Environmental Engineering Department

<table>
<tr><td>Name of the faculty</td><td>Dr Ajay Pratap</td><td rowspan="3"></td></tr>
<tr><td>Designation</td><td>Assistant Professor (Tenure faculty)</td></tr>
<tr><td>Qualification</td><td>• B. Tech. in Civil Engineering (Haldia Institute of Technology, West Bengal)
• M. Tech. in Structural Engineering (NIT Jalandhar)
• Ph.D. in Civil (Structural) Engineering (NIT Jalandhar)</td></tr>
<tr><td>Date of Joining VJTI</td><td colspan="2">01 July 2025</td></tr>
<tr><td>Previous Experience</td><td colspan="2">Guest faculty - I.K.G Punjab Technology University Mohali Campus-II Punjab, India from January 2025 – June 2025</td></tr>
<tr><td>Contact No. / E-mail Personal website link</td><td colspan="2">Email: ajayp839@gmail.com
Contact No.: +91-8727042897
ORCID ID: 0000-0003-3726-757X
Scopus ID: 57223701967</td></tr>
<tr><td>Area of Research</td><td colspan="2">Computational Wind Engineering, Wind Tunnel Testing, Tall-building aerodynamics, and Artificial Neural Networks, Masonry Structure
Finite Element Analysis: ABAQUS, ANSYS - Fluent, ICEM CFD</td></tr>
<tr><td>Subjects Taught</td><td colspan="2">Strength of Materials, Reinforced Cement Concrete, Prestressed Concrete Design, Research Methodology, Railway and Airport Engineering, Entrepreneurship Essential, Contract Law and Arbitration</td></tr>
<tr><td>Publications</td><td colspan="2">
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<tr><th colspan="2">Journal Publication</th><th colspan="2">Conference Publication</th><th rowspan="2">Book</th></tr>
<tr><td>International</td><td>National</td><td>International</td><td>National</td></tr>
<tr><td>8</td><td>0</td><td>6</td><td>0</td><td>1</td></tr>
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H Index: Google Scholar: ; Scopus:
</td></tr>
<tr><td>Research Guidance</td><td colspan="2">(i) M.Tech Guided: Completed: ; Ongoing : 0
(ii) Ph.D Guided.:- Completed: , Ongoing : 0</td></tr>
<tr><td>Patent</td><td colspan="2">AI-assisted crack detection in concrete structures”. Patent Design Patent Reg. No. 202511075981. Published (2025)</td></tr>
<tr><td>Collaboration/Interaction with outside word</td><td colspan="2"></td></tr>
<tr><td>Consultancy works undertaken</td><td colspan="2"></td></tr>
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Honors and Awards Received	1st position in Poster presentation on Engineer's Day 2023 and 2024
Membership of Professional Body/ NGO	
Training Programmes /Courses/workshops Organized	
STTPs/workshops / conferences Attended	• Pratap, Ajay. "Response Study of Tandem Rectangular Plan Tall Buildings Under Wind Interference". In: Proceedings of the 7th International Conference on Construction, Real Estate, Infrastructure and Project Management (ICRIP 2023). Presented at NICMAR University, Pune, August 11–12. 2023. • Pratap, Ajay. "Turbulence model and grid Sensitivity analyses of T shape tall building using Computational Fluid Dynamics technique". In: Proceedings of the 8th International Conference on Theoretical Applied Computational and Experimental Mechanics (ICTACEM 2021). Presented at IIT Kharagpur, West Bengal, India, December 20–22. 2021. • Pratap, Ajay & Rani, Neelam. "CFD Simulation for Wind Loads on Multi–span Flat Canopy Roofs". In: International Conference on Structural Engineering and Construction Management (SECON 2021), Lecture Notes in Civil Engineering. Vol. 171. Springer, 2021. • Pratap, Ajay, Thakur, A. Rupali, S. & Senthil, K. "Failure Mechanisms along with Constitutive Behaviour and Damage in Concrete Bricks and Infilled Frames". In: Proceedings of the 7th International Congress on Computational Mechanics and Simulation (ICCMS 2019). Presented at IIT Mandi, India, December 11–13. 2019
NPTEL/MOOCs Courses undertaken	
Other Notable Achievements	