

# ATAL Online 6 Day Faculty Development Programme 2024-25 Schedule

**FDP Thrust Area:** Disaster Management & Resilient Infrastructure

**FDP Title:** Real Time Applications of AI & ML in Disaster Management & Resilient Infrastructure

**Start Date:** 17<sup>th</sup> February 2025

**End Date:** 22<sup>nd</sup> February 2025

| Day 1 (17/02/2025)<br>Monday  | Day 2 (18/02/2025)<br>Tuesday   | Day 3 (19/02/2025)<br>Wednesday  | Day 4 (20/02/2025)<br>Thursday   | Day 5 (21/02/2025)<br>Friday  | Day 6 (22/02/2025)<br>Saturday  |  |
|---|---|--|--|---|---|--|
| 6:00 PM to 6:30 PM<br><b>Inaugural Session</b>  | <p style="text-align: center;"><b>6:00 PM to 7:30 PM &amp; 7:30PM to 9:30PM<br/>Session 3 and 4</b></p> <p><b>Topic:</b> Hands on training of MvDad Cloud based RC Building Earthquake Resistant Structural Design Software (Use of AI &amp; ML algorithms)</p> <p><b>Name of the Expert:</b> B P Karamchandani<br/><b>Designation &amp; Organization:</b> MvDad.com, Founder and CEO, Mumbai, India.<br/><b>Years of Exp:</b> 42</p> | <p style="text-align: center;"><b>6:00 PM to 7:30 PM<br/>Session 5</b></p> <p><b>Topic:</b> Introduction to Structural Diagnostics using AI<br/><b>Name of the Expert:</b> Dr. Anadee Kulkarni<br/><b>Designation &amp; Organization:</b> Senior /Associate Engineer, Diagnostics group, Walter P Moore, Pune, India<br/><b>Years of Exp:</b> 10</p> | <p style="text-align: center;"><b>6:00 PM to 7:30 PM<br/>Session 7</b></p> <p><b>Topic:</b> Application of AI in Civil Engineering<br/><b>Name of the Expert:</b> Dr. Ajay U. Chavadekar<br/><b>Designation &amp; Organization:</b> Head of F. Y. Engineering and Assistant Professor at NBN Sinhgad Technical Institutes Campus, Pune, India<br/><b>Years of Exp:</b> 11</p>  | <p style="text-align: center;"><b>6:00 PM to 7:30 PM<br/>Session 9</b></p> <p><b>Topic:</b> Use of AI/ML for predicting properties of concrete<br/><b>Name of the Expert:</b> Dr. Arvind Kumar<br/><b>Designation &amp; Organization:</b> Assistant Professor at MEC, Hyderabad, Telanagna, India<br/><b>Years of Exp:</b> 12</p> | <p style="text-align: center;"><b>2:00PM to 3:30PM<br/>Session 11</b></p> <p><b>Topic:</b> Prediction analysis using ML for construction materials<br/><b>Name of the Expert:</b> Dr. Rahul Ralegaonkar<br/><b>Designation &amp; Organization:</b> Professor, Department of Civil Engineering, VNIT-Nagpur<br/><b>Years of Exp:</b> 20</p>                                    | <p style="text-align: center;"><b>5:00PM to 6:30PM<br/>Session 13</b></p> <p><b>Topic:</b> Machine learning applications in Civil Engineering.<br/><b>Name of the Expert:</b> Dr.Fayaz Ahmad Sofi<br/><b>Designation &amp; Organization:</b> Assistant Professor, Department of Civil Engineering, NIT-Srinagar<br/><b>Years of Exp:</b>16</p> |
| <p style="text-align: center;"><b>6:30 PM to 8:00 PM<br/>Session 1</b></p> <p><b>Topic:</b> Latest advancements in Civil Engineering using AI with Building Information Modeling (BIM)<br/><b>Name of the Expert:</b> Dr. Saznizam Sazmee Sinoh<br/><b>Designation &amp; Organization:</b> Senior Lecturer Dept. of Civil Engineering, University of Malaya, Lumpur, Malaysia<br/><b>Years of Exp:</b> 15</p> |   | <p style="text-align: center;"><b>7:30PM to 9:00PM<br/>Session 6</b></p> <p><b>Topic:</b> Generation of Site-specific Response Spectra using AI<br/><b>Name of the Expert:</b> Dr. Vishal Deoda<br/><b>Designation &amp; Organization:</b> Senior Engineer, Thornton Tomasetti (Pune)<br/><b>Years of Exp:</b> 13</p>                                | <p style="text-align: center;"><b>7:30PM to 9:00PM<br/>Session 8</b></p> <p><b>Topic:</b> Case study on soil properties for agricultural yield prediction using AIML<br/><b>Name of the Expert:</b> Priti Prakash Jorvekar<br/><b>Designation &amp; Organization:</b> Senior Principal Development Engineer, Calsoft Pvt Limited, Pune, India.<br/><b>Years of Exp:</b> 12</p> | <p style="text-align: center;"><b>7:30PM to 9:00PM<br/>Session 10</b></p> <p><b>Topic:</b> Prediction of groundwater level using Machine Learning.<br/><b>Name of the Expert:</b> Dr. Chandan Kumar Singh<br/><b>Designation &amp; Organization:</b> Assistant Professor (Grade I), NIT- Raipur<br/><b>Years of Exp:</b> 10.5</p> | <p style="text-align: center;"><b>3:30PM to 5:00PM<br/>Session 12</b></p> <p><b>Topic:</b> Introduction to Computational Fluid Dynamics and Its applications in Civil Engineering.<br/><b>Name of the Expert:</b> Mr. Ranjeet Desai,<br/><b>Designation &amp; Organization:</b> Head, CFD at WaterUnit Infrastructure Consultancy LLP, India.<br/><b>Years of Exp:</b> 11</p> | <p style="text-align: center;"><b>6:30PM to 7:30PM<br/>Online test &amp; feedback</b></p>  |
| <p style="text-align: center;"><b>8:00 PM to 9:30 PM<br/>Session 2</b></p> <p><b>Topic:</b> Robotic Based Sewer Pipe Condition Assessment<br/><b>Name of the Expert:</b> Dr. Vipul Patel<br/><b>Designation &amp; Organization:</b> Snr Lecturer, Civil Engineering Engineering, La Trobe University, Australia.<br/><b>Years of Exp:</b>18</p>   |   |  |  |   |   |  |