

	Akhil Bharatiya Maratha Shikshan Parishad's Anantrao Pawar College of Engineering & Research		
	Record No.: ACA/D/021 Revision: 00	DoI : 02/01/2023	
EVENT REPORT			

- **Name of Event:** "4 Days Hands on Practical Workshop on PLUMBING" under the Centre Of Excellence: Plumbing Lab" in association with Alumni Association Of APCOER & J kumar Infracore Projects Ltd. Pune & Startup-Research Of Operational Technology (SROT), Pune
- **Date of Event:** 25/10/2023 to 28/10/2023.
- **Time of event:** 09.00 AM to 06.00 PM
- **Name of Event Coordinator:** Prof. Neha S. Deshmukh
- **Target Audience:** Diploma, Degree Civil Engineering Students, Faculty Members, industrial members.
- **Brief Description of Event:**

The Centre Of Excellence: Plumbing Lab, in collaboration with the Alumni Association Of APCOER, J Kumar Infracore Projects Ltd., and Startup-Research Of Operational Technology (SROT), organized a comprehensive 4-day hands-on workshop on plumbing. The event aimed to provide faculty members and students of the Civil Engineering Department with practical knowledge and skills in plumbing systems. The workshop combined theoretical lectures and practical sessions, culminating in the inauguration of the new Centre Of Excellence Plumbing Lab. The workshop was blended with online theory sessions of Plumb Talk by Indian Plumbing Association and practical hands on Training by plumbing experts.

Day 1: 25/10/23

The session began with an overview of the fundamental principles of plumbing, emphasizing the significance of good plumbing practices. Topics covered included the importance of proper installation, maintenance, and the role of plumbing in ensuring health and safety within buildings. Real-life examples of good and bad plumbing practices were shared to highlight common issues and solutions. Participants were introduced to essential plumbing terminologies. Key terms such as fixtures, fittings, couplings, joints, elbows, tees, and unions were explained in detail. The session included a glossary handout for reference during practical sessions. The practical session provided hands-on training in cutting different types of pipes, including PVC, CPVC, and metal pipes. Techniques for accurate measurement and cutting using

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various tools (pipe cutters, hacksaws, etc.) were demonstrated. Participants practiced cutting and preparing pipes for fitting. The different types of valves used in plumbing systems were introduced, including gate valves, ball valves, globe valves, and check valves. Practical exercises included the installation and testing of valves in a mock plumbing setup. Participants learned about valve maintenance and troubleshooting common valve issues.

Day 2: 26/10/2023

The session covered the fundamentals of planning plumbing systems for both residential and commercial buildings. Key considerations included pipe layout, water pressure, flow rates, and material selection. The importance of adhering to plumbing codes and standards was emphasized. Participants were introduced to water supply systems, including municipal and private water supplies. The session included discussions on water quality, sources of water, and the principles of water distribution. Various components of a water supply system, such as pipes, pumps, and storage tanks, were explained. The practical session involved setting up a basic water supply system. Participants connected pipes to water sources and learned how to ensure proper water flow and pressure. Installation of water meters and backflow preventers was demonstrated and practiced. The session included troubleshooting exercises for common issues in water supply systems.

Day 3: 27/10/23

The session focused on upgrading existing plumbing systems to meet new standards and improve efficiency. Techniques for inspecting and identifying issues in older plumbing systems were discussed. Participants learned about the challenges and best practices in retrofitting, including material compatibility and modernizing outdated systems. Participants engaged in practical exercises on designing and installing drainage systems. The session covered the principles of gravity-based drainage systems and proper slope calculations for efficient drainage. Installation of drains, traps, and vent pipes was demonstrated. Participants practiced assembling a drainage system and testing it for leaks and blockages.



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Day 4: 28/10/23

The session continued from the previous day, delving into more advanced concepts in drainage systems. Topics included storm water management, sewage treatment, and sustainable drainage solutions. Participants learned about the environmental impact of drainage systems and methods to minimize it. The session covered the design principles for efficient and functional washrooms. Key considerations included space utilization, accessibility, plumbing requirements, and aesthetic aspects. Modern fixtures and fittings for washrooms, such as low-flow toilets, sensor faucets, and water-saving showers, were introduced. The workshop concluded with the official inauguration of the new Plumbing Lab. Distinguished guests and faculty members were present for the ceremony. Demonstrations of the latest plumbing technologies and equipment available in the lab were conducted. Participants were given a tour of the lab and an overview of its facilities, highlighting its role in future training and research activities.

The 4-day workshop successfully provided participants with a thorough understanding of plumbing systems through a blend of theoretical knowledge and practical experience. The hands-on activities enabled participants to gain valuable skills in pipe cutting, fitting, valve installation, water supply systems, retrofitting, and drainage systems. The workshop concluded with the inauguration of a state-of-the-art Plumbing Lab, which will serve as a valuable resource for future training and research. This workshop has equipped the Civil Engineering Department with the tools and knowledge to advance in the field of plumbing technology.



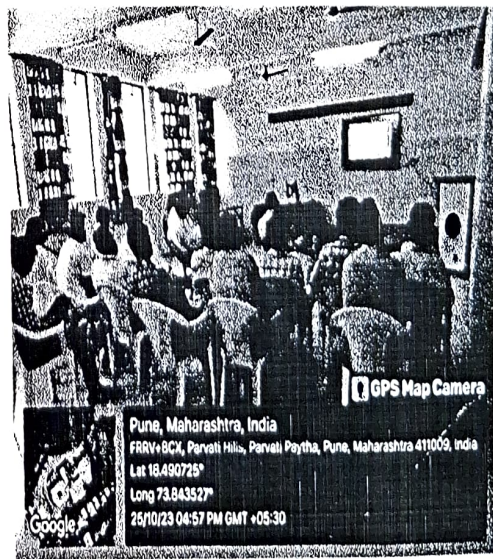
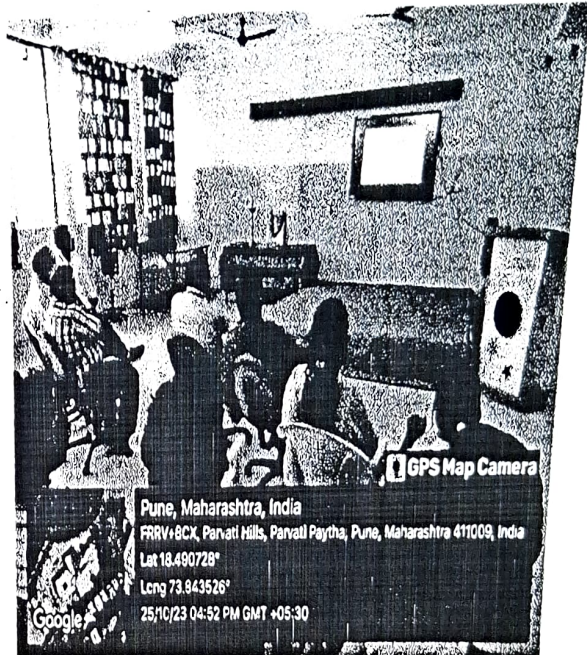
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Theory Lecture Online Sessions Plumb Talk



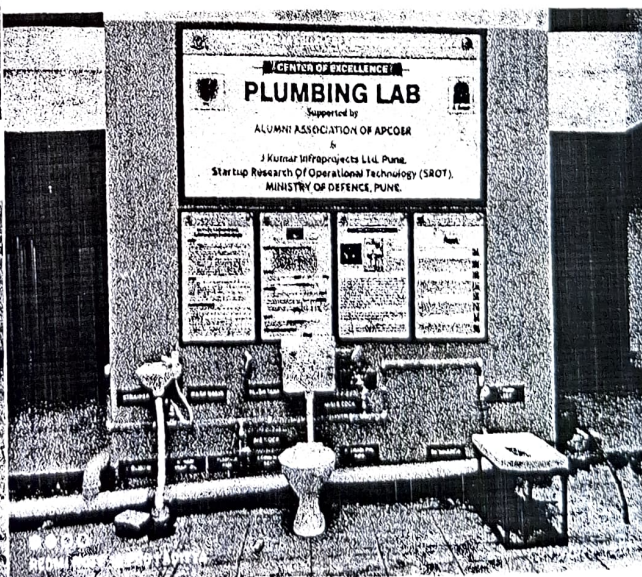
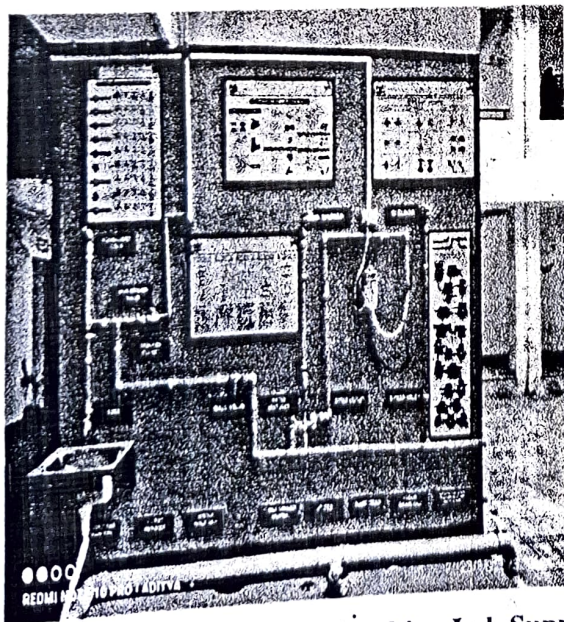
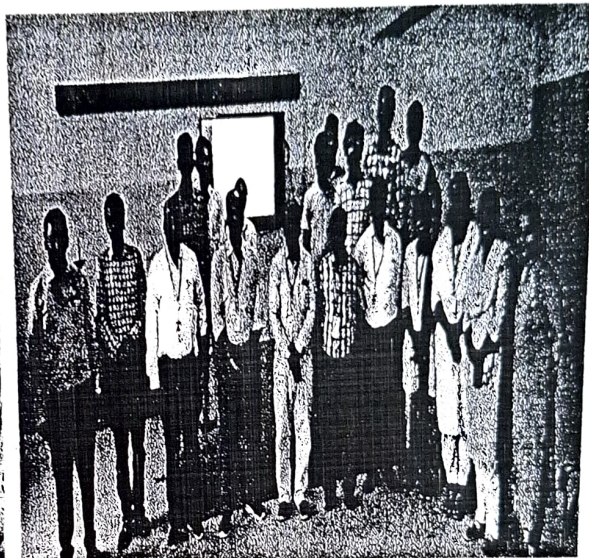
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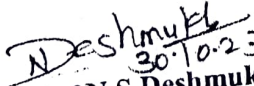
**Centre of Excellence Plumbing Lab Supported by Alumni Association Of APCOER & J kumar
Infraprojects Ltd.Pune & Startup-Research Of Operational Technology (SROT),Pune**

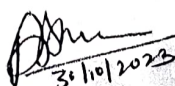
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• **Attendees of the Event: 87 Participants**

The collaboration between the Civil Engineering Department, Alumni Association of APCOER, J Kumar Infraprojects Ltd., and SROT, Pune, made this workshop a resounding success, paving the way for enhanced learning and professional growth in the field of plumbing

Date: 30/10/2023


Prof. N.S. Deshmukh
Workshop Coordinator


Dr. A.B. Shelar
Head, Civil Engg. Dept.


Dr. S.B. Thakare
Principal