



## Report on the Training of Master Trainers for Hazard Resistant Safe Construction Practices

**Organized by:** Civil Engineering Department, JUIT, Wagnaghat in collaboration with DDMA, Shimla

**Phase 2:** November 6–8, 2024

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Following the success of Phase 1, the Civil Engineering Department at JUIT, in collaboration with DDMA Shimla, launched Phase 2 of the *Training of Master Trainers for Hazard-Resistant Safe Construction Practices*. This phase targeted technical assistants and Junior Engineers (JEs) from various blocks of Shimla, equipping them with knowledge and hands-on experience to promote safe construction practices at the grassroots level. A total of 35 participants attended the three-day program, which focused on disaster-resilient construction techniques tailored for disaster-prone regions like Himachal Pradesh.

The program began with an inaugural ceremony attended by **Prof. Ashok Kumar Gupta**, Dean of Academics and Research, JUIT, who emphasized the importance of codal provisions for disaster-resilient infrastructure. **Prof. Ashish Kumar**, Head of Civil Engineering, highlighted the societal benefits of hazard-resistant construction, while **Dr. Tanmay Gupta**, Program Coordinator, outlined the training objectives, focusing on practical sessions.

Participants included 35 technical assistants from Shimla blocks such as Basantpur, Chopal, Jubbal, Kotkhair, Mashobra, Rohru, and Rampur. The program combined theoretical insights with extensive hands-on training.

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### **Program Highlights**

**Day 1:** Focused on earthquake-resistant construction fundamentals, structural monitoring, and retrofitting. Practical sessions included brick masonry bonds and tool identification.

**Day 2:** Covered RCC frame design with ductile detailing (IS 13920) and hands-on material testing. Participants practiced RCC detailing for foundations and columns.

**Day 3:** Advanced techniques included earthquake-resistant confined brick masonry, concrete mix design, and landslide-resistant housing design. The program concluded with a valedictory session and feedback collection.

**Hands-on Training:** Practical sessions on earthquake-resistant masonry, RCC ductile detailing, non-destructive testing, and concrete mix design were highly appreciated.

## Key Achievements

1. **Knowledge Sharing:** Participants gained a deeper understanding of disaster risks, mitigation strategies, and codal provisions.
2. **Hands-On Practice:** Enhanced practical expertise in masonry, RCC detailing, and material testing.
3. **Community Impact:** Trained technical assistants are now equipped to train grassroots workers, promoting safety and resilience in their regions.

The program was supported by the visionary leadership of **Mr. Anupam Kashyap**, Deputy Commissioner-cum-Chairman, DDMA Shimla, whose dedication to disaster preparedness ensured its success.

Phase 2 of the *Training of Master Trainers for Hazard-Resistant Safe Construction Practices* successfully equipped 35 participants with vital skills to champion safe construction practices. This initiative continues to play a crucial role in disaster mitigation and resilience-building across Himachal Pradesh. The Civil Engineering Department at JUIT remains committed to fostering a safer built environment through training, innovation, and collaboration.







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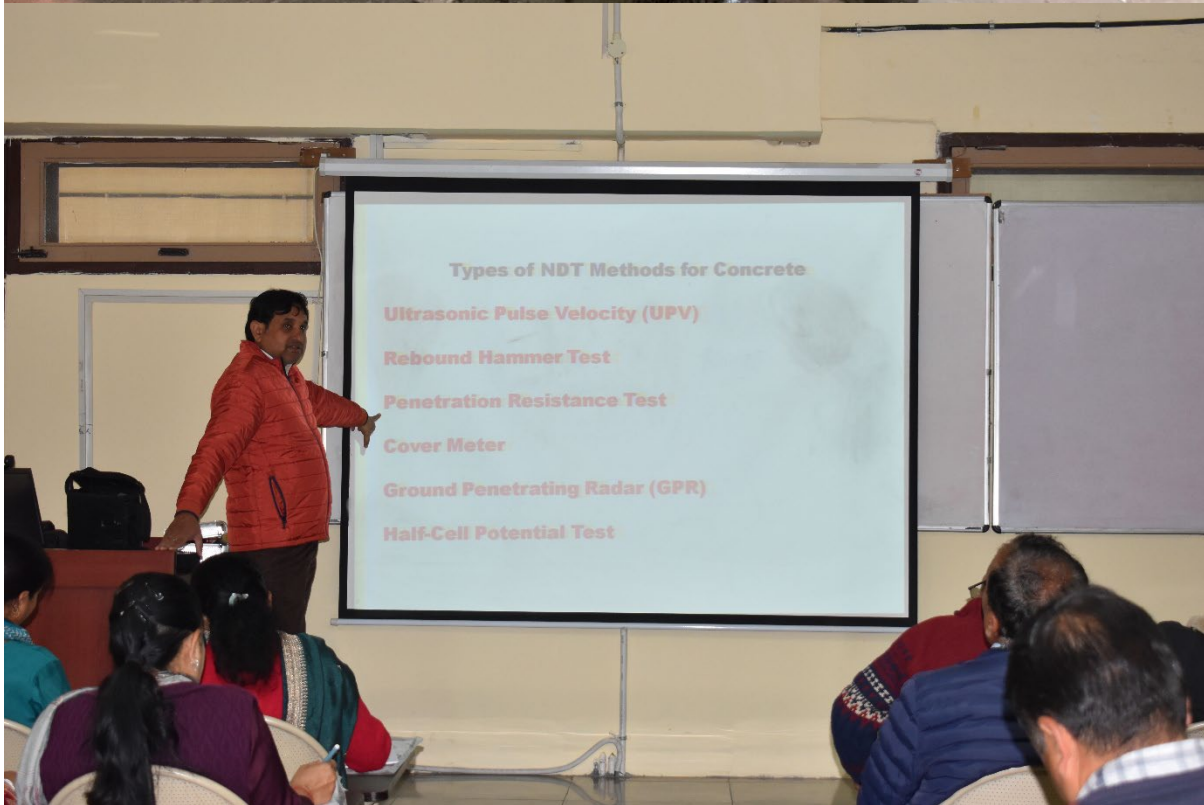
















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