



**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY**  
WAKNAGHAT, P.O. - WAKNAGHAT, TEHSIL  
- KANDAGHAT, DISTRICT - SOLAN (H.P.)  
PIN-173234 (INDIA) Phone Number - +91-1792-257999  
(Established by H.P. State Legislature vide Act No. 14 of 2002)



## **Outreach Activity at Government Polytechnic, Sunder Nagar, Mandi 26<sup>th</sup> November 2024**

A team of three members which includes Dr. Saurabh Rawat (Civil Engineering Department), Dr. Deler (HSS Department) and Mr. Praveen Kumar (Admission Cell) visited Government Polytechnic, Sunder Nagar, Mandi on 26<sup>th</sup> November 2024. The team interacted with Principal and faculty members of the institute. The team also discussed the various programs offered by JUIT for various engineering streams. Dr. Saurabh Rawat conducted a session with the final year civil engineering students and delivered a talk on “Advanced Testing and Its Role in Revolutionizing Civil Engineering” as detailed below:

The event was attended by students and faculty from the Civil Engineering Department, who actively participated and engaged with the subject matter. The objective of the lecture was to provide students with a comprehensive understanding of modern techniques used in evaluating the quality and performance of civil engineering materials and techniques. Dr. Rawat began the session by introducing the history of material testing in civil engineering and its evolution with time. He also elaborated on the use of pull out testing of soil nails used in slope protection during the road widening along Chandigarh to Manali and Chandigarh to Shimla highway. Key topics covered during the lecture included:

*Overview of Material testing and Advance testing in Civil Engineering:*

Soil nailing and its testing, Pullout Test, Shake Table test, Universal Testing machine, and Testing of Geotextiles.

Dr. Rawat shared real-world examples where soil nailing techniques were successfully applied in slope protection projects, emphasizing the relevance of these methods in the field. The interactive nature of the lecture allowed students to ask questions and discuss the practical implementation of these testing techniques. Dr. Rawat addressed queries regarding the challenges and limitations of testing methods, providing valuable insights into their evolving role in civil engineering. The session concluded with a vote of thanks by Mr. Vibhor Sharma faculty, Civil Engineering Department at the polytechnic.



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