



JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT, P.O. - WAKNAGHAT, TEHRIL KANDACHAT DISTRICT SOLAN (H.B.)

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)



One Week Online Workshop on "Disaster Risk Assessment"

A One Week Online Workshop on "Disaster Risk Assessment," was organized by the Centre for Structural Engineering and Disaster Management, Civil Engineering Department, Jaypee University of Information Technology (JUIT), Waknaghat, in partnership with Indian Institute of Technology, Mandi, and Indian Geotechnical Society, Shimla Chapter, from July 22–26, 2024. The program was successfully completed under the auspices of:

- *Prof. Rajendra Kumar Sharma:* Vice Chancellor, JUIT, Waknaghat, and Patron of the organized workshop.
- *Prof. Ashok Kumar Gupta:* Dean of Academics & Research, JUIT, Waknaghat, and Patron of the organized workshop, and President, Indian Geotechnical Society, Shimla Chapter,
- Prof. Ashish Kumar: HOD, Civil Engineering Department, and Chairperson, Center for Structural Engineering and Disaster Management, JUIT, Waknaghat, and Program Chair of the organized workshop.
- *Dr. Sugandha Singh:* Assistant Professor, Civil Engineering Department, and Member, Center for Structural Engineering and Disaster Management, JUIT, Waknaghat, and Program Convener of organized workshop.
- Dr. Shivang Shekhar: Assistant Professor, School for Civil and Environment Engineering, Indian Institute of Technology, Mandi (IIT Mandi) and Co-Convener of organized workshop.

The One Week Online Workshop on 'Disaster Risk Assessment' comprised mainly of eminent speakers from renowned institutes who discussed various aspects of calculating hazard and risk of different types of hazards. The primary objective of the workshop was to teach the students, academics, and industry professionals, to conduct basic calculations of probability of occurrence of a hazard such as earthquakes, floods, landslide, etc., and further calculating the risk on infrastructure for each hazard. The workshop was organized to fulfill the capacity building target of the United Nation's Sustainable Development Goal number 11. Each day of the workshop covered a different type of hazard and covered a wide range of topics. Through





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engaging lectures, interactive discussions, hands-on activities, and insightful guest presentations, participants were exposed to basic concepts required to calculate probabilistic hazard and risk assessment for each hazard. Each lecture was unique as the topics discussed are not taught as part of Civil Engineering or Architecture curriculum at any level. Since the need for conducting such hazards is absolutely necessary for Disaster Resilient Infrastructure, the participants appreciated the workshop to quite an extent.

Table-1 highlights the program schedule of the conducted STC including the names and organizations of the speakers along with the title of lectures (talks) delivered by them.

Table 1: Schedule for One Week Online Workshop on "Disaster Risk Assessment," July 22–26, 2024

Date	Time	Events	
22-07-2024 (Earthquake)	2:15 PM	JUIT Video	
	2:17 PM	Welcome of the participants by Dr. Sugandha Singh, Assistant Professor, Civil Engineering Department, JUIT, Waknaghat	
	2:18 PM	Welcome of the participants by Dr. Ashok Gupta, Dean (Academics & Research), JUIT & President, IGS, Shimla; Dr. Ashish Kumar, HOD, Civil Engineering, JUIT.	
	2:20 PM	About The Workshop presentation by Dr. Sugandha Singh, Convener of the Workshop	
	2:30 PM	Expert Talk by <i>Dr. Sugandha Singh, Assistant Professor</i> , Civil Engineering Department, JUIT, Waknaghat, on <i>'Probabilistic Seismic Hazard Analysis'</i>	
	4:00 PM	Expert Talk by <i>Dr. Shivang Shekhar, Assistant Professor,</i> Indian Institute of Technology, Mandi on 'Probabilistic Seismic Risk Assessment of Infrastructure Systems'	
23-07-2024 (Floods)	9:30 AM	Expert Talk by <i>Dr. Saran Srikanth Bodda, Graduate Faculty</i> , North Carolina State University, Raleigh, USA on 'An Overview of External Probabilistic Risk Asseeessment'	
	11:00 AM	Expert Talk by <i>Dr. Ankit Agarwal, Assistant Professor</i> , Indian Institute of Technology, Roorkee on ' <i>Probabilistic Flood Hazard Analysis</i> '	
24-07-2024 (Landslides)	9:30 AM	Expert Talk by <i>Dr. Maheshreddy Gade</i> , <i>Associate Professor</i> , Indian Institute of Technology, Mandi on 'Earthquake-Induced Landslide Hazard Assessment'	





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	11:00 AM	Expert Talk by <i>Dr. Kala Venkata Uday, Associate Professor</i> , Indian Institute of Technology, Mandi on 'Landslide Risk Mitigation and Prediction.'
	12:30 PM	Expert Talk by Dr. Tanmay Gupta, Assistant Professor, JUIT on 'Post Landslide Assessments: Harnessing Innovative Techniques for Future Resilience'
25-07-2024 (Fire and Industries)	9:30 AM	Expert Talk by <i>Dr. P. Ravi Prakash</i> , <i>Assistant Professor</i> , Indian Institute of Technology, Jodhpur on 'Fire Safety in Structures: An Overview'
	11:00 AM	Expert Talk by <i>Dr. Sudheer Dwivedi, Joint Director,</i> Disaster Management Institute, Madhya Pradesh on ' <i>Process Hazard Identification Techniques in Industries</i> '
26-07-2024 (Disaster Economics)	9:30 AM	Expert Talk by <i>Dr. Subir Sen, Associate Professor</i> , Indian Institute of Technology, Roorkee on <i>'Economic Effects of Disasters: Three Different Cases'</i>
	11:00 AM	Valedictory Session
	11.30 AM	Short Quiz for awarding Certificate of Merit to the participants.

Feedback from participants has been overwhelmingly positive, with many expressing appreciations for the new knowledge gained throughout the workshop, and the expertise of the instructors. As we reflect on the achievements of this course, it is evident that education and training play a crucial role in driving positive advances towards a more disaster resilient future.

Table 2: Summary of participation Details in the Workshop

Total Number of Registered participants	105
Total Number of external participants	88





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Other Salient Features

- Presentation slides of all lectures by the speakers for the workshop were shared beforehand by the organizing committee to the participants.
- Certificates of Merit are issued to all registered participants who scored more than 13 out 20
 on the quiz conducted on the last day of the workshop.
- Certificates of participation are issued to all the remaining registered participants.
- Certificates of Appreciation are issued to all the listed speakers along with an appropriate honorarium.
- Feedback collected from participants on each day of the workshop for further improvement in conducting future workshops.
- Feedback collected from speakers for their input in conducting future workshops.

Event Flyer:







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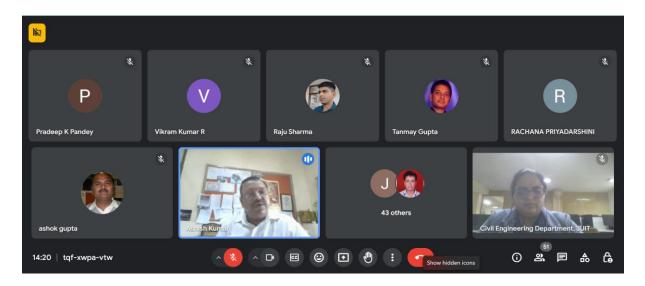
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Event Photos:

Day 1:







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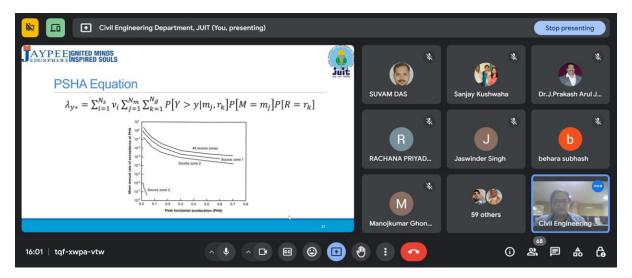


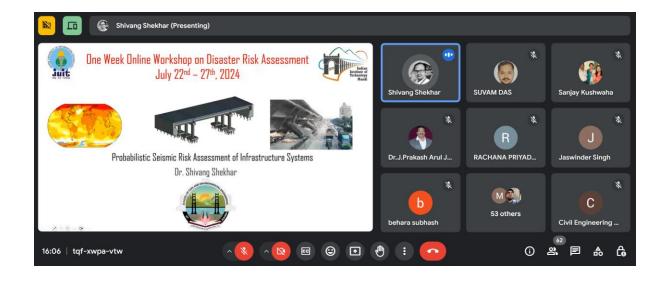




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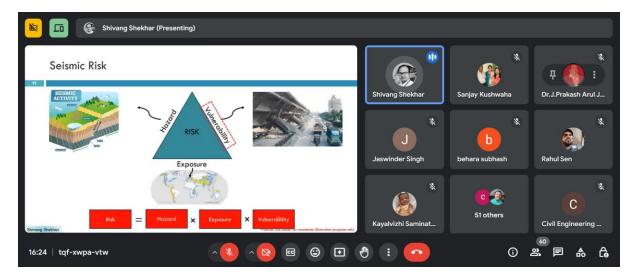


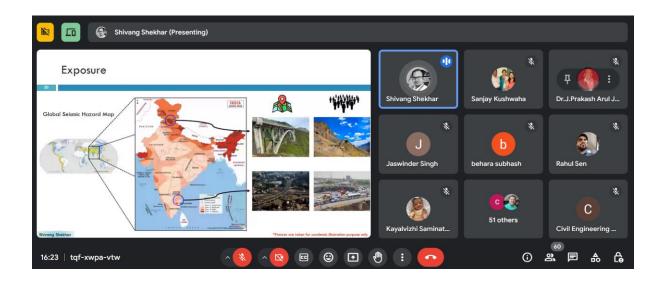




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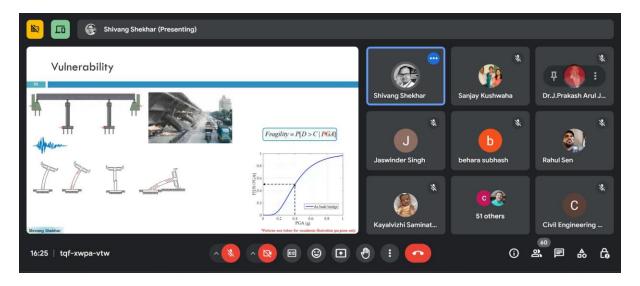






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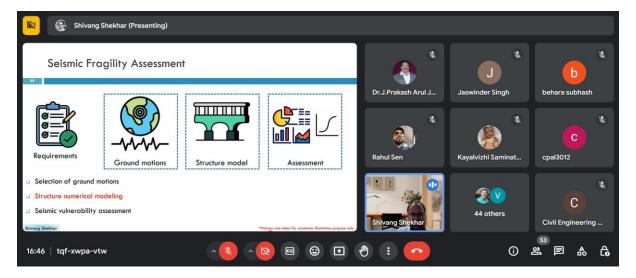


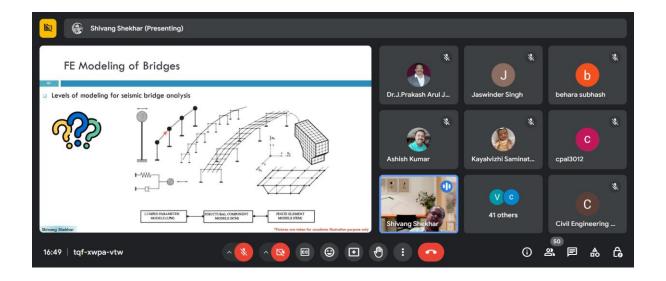




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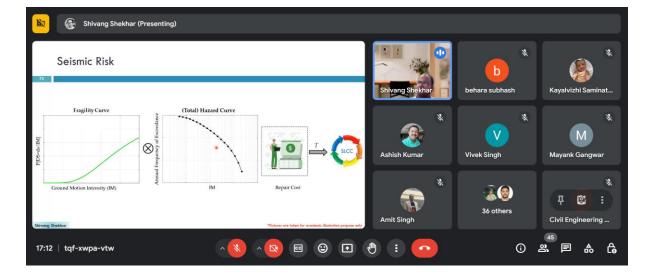




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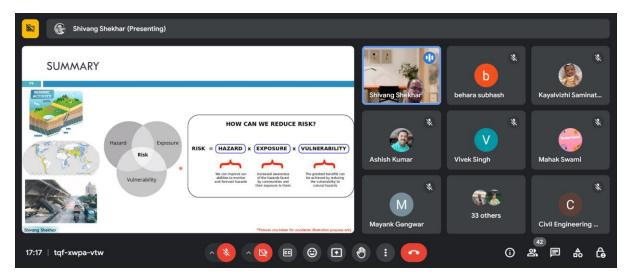






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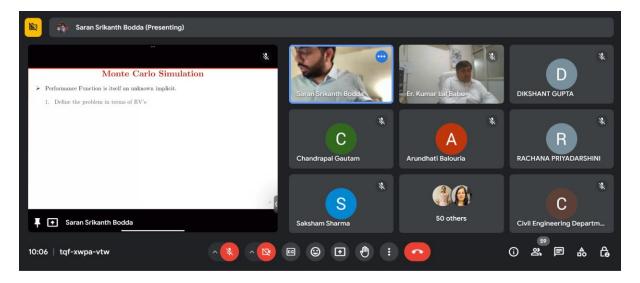
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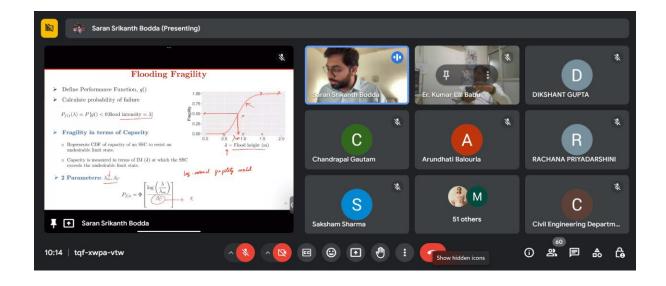




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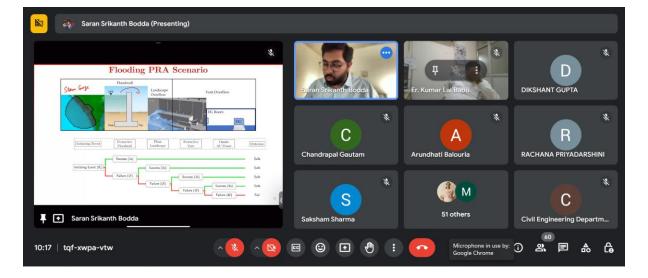


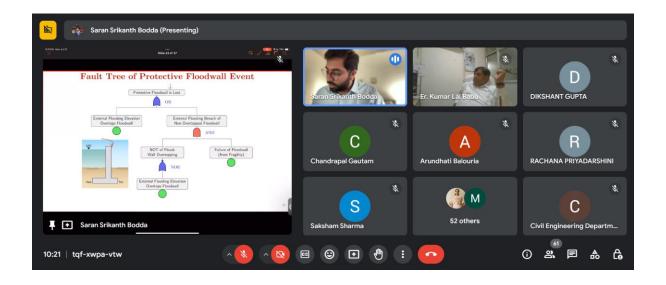


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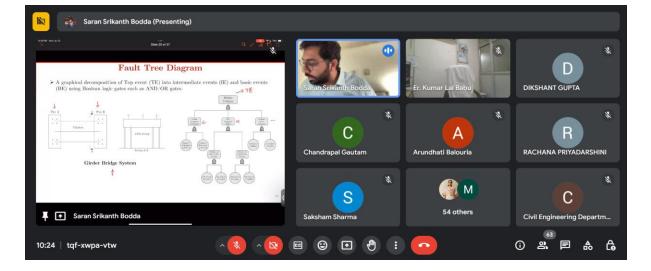


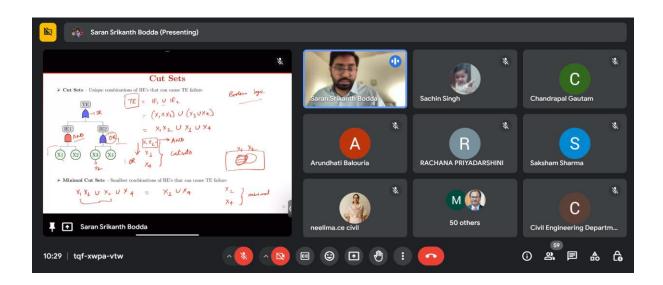


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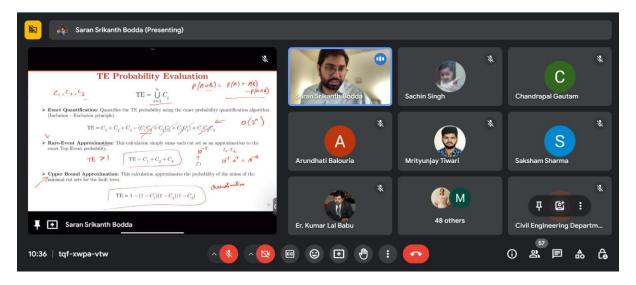


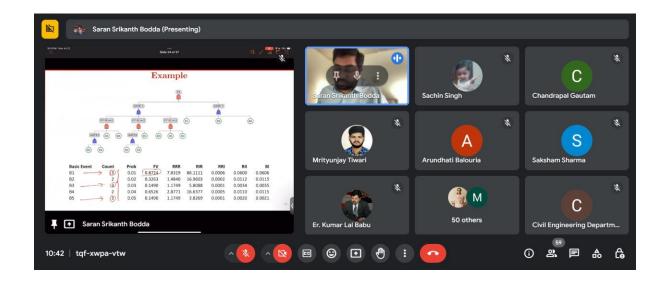




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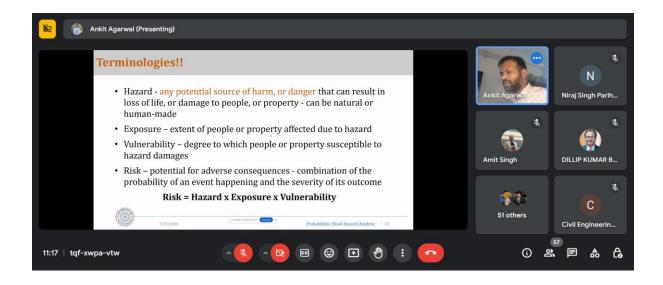




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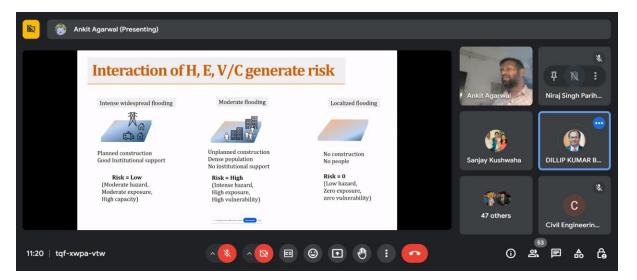


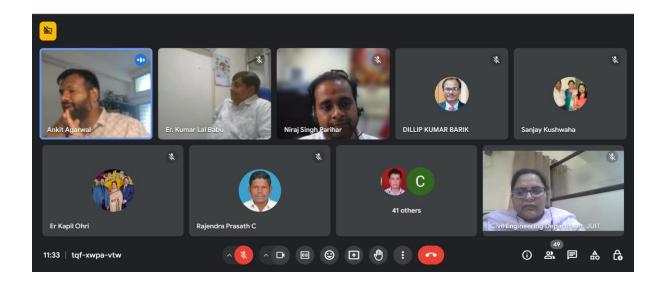




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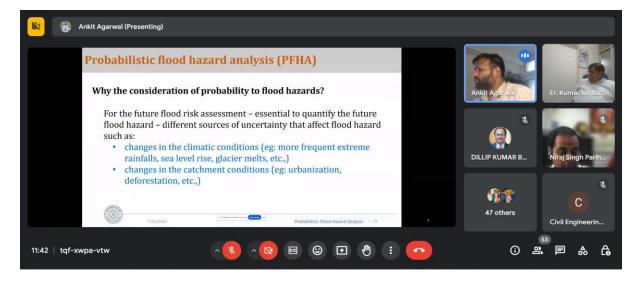






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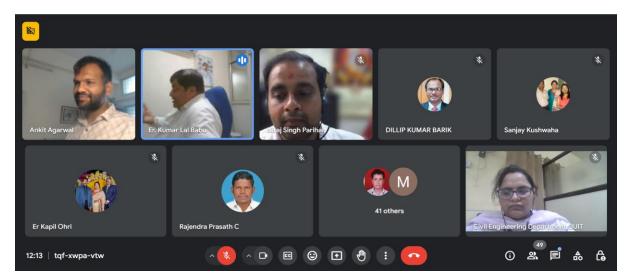


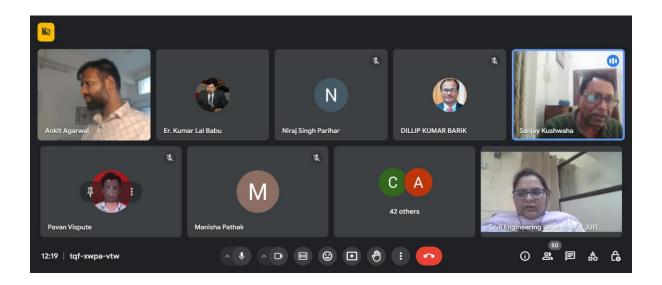




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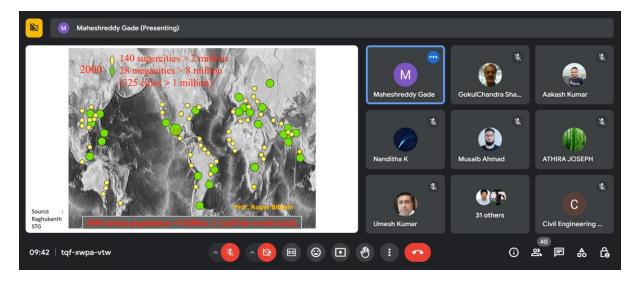
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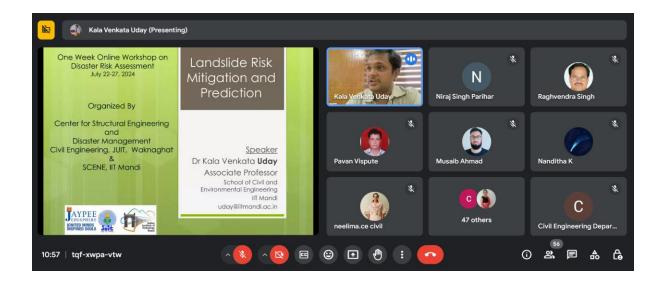




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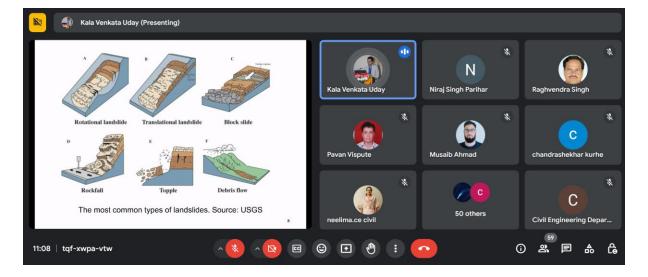




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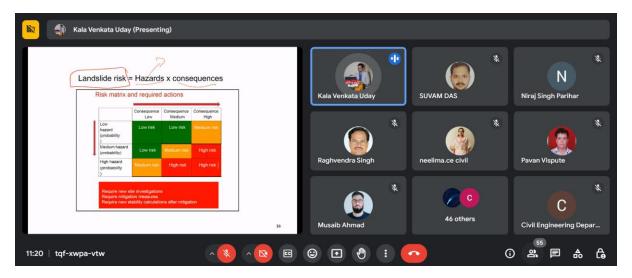


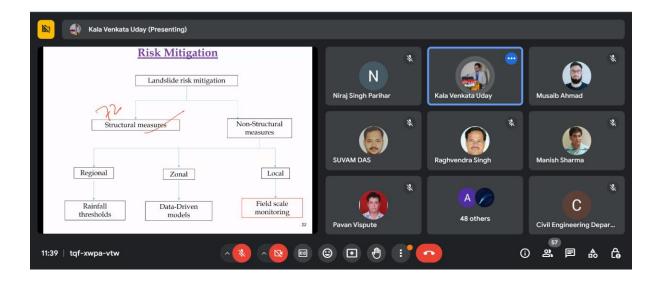




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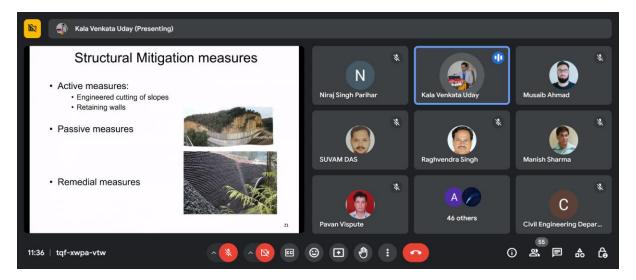


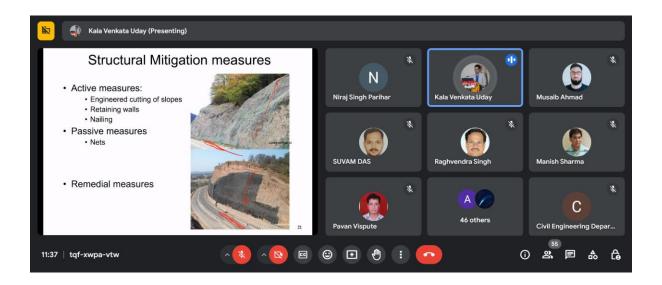




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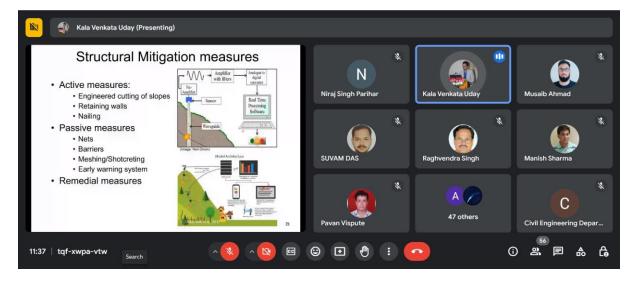


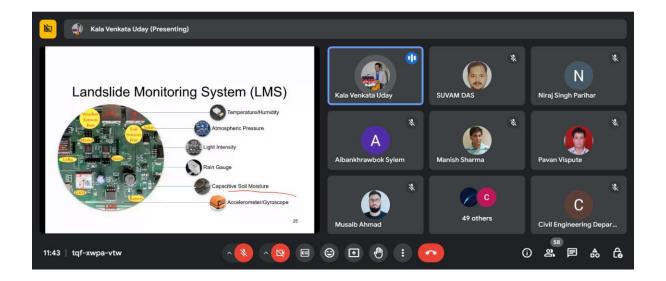




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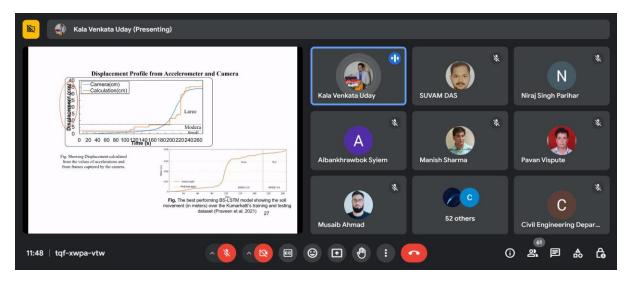


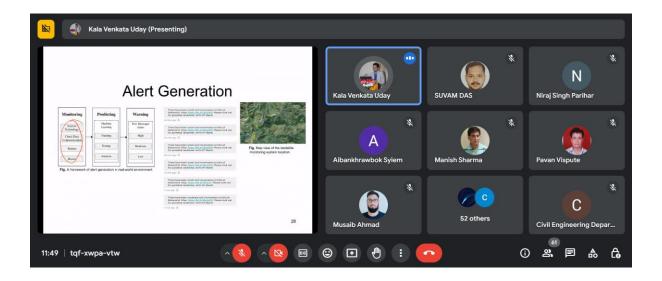




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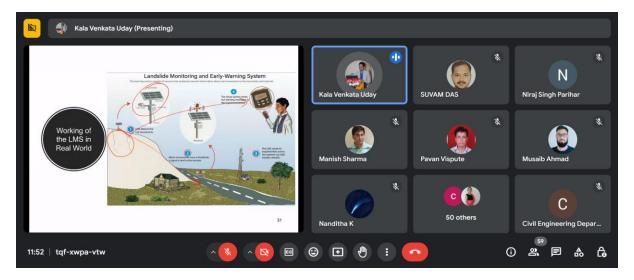


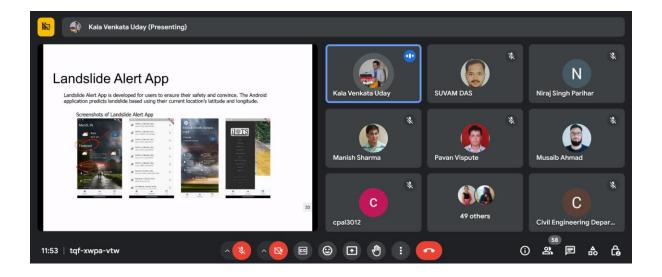




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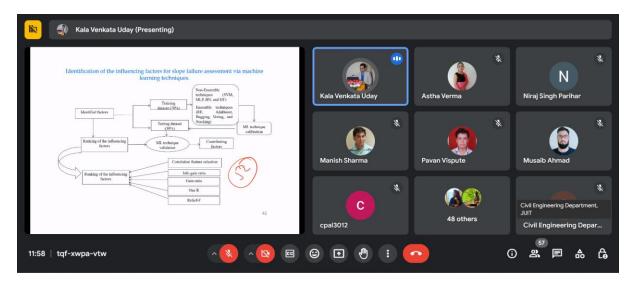


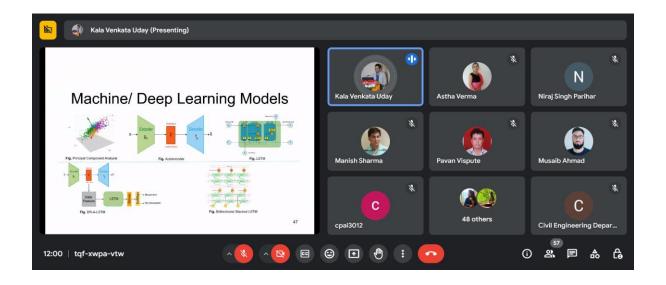




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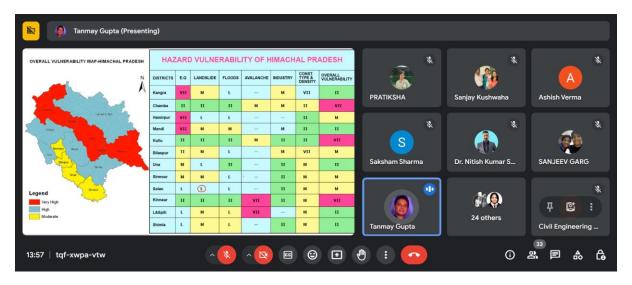


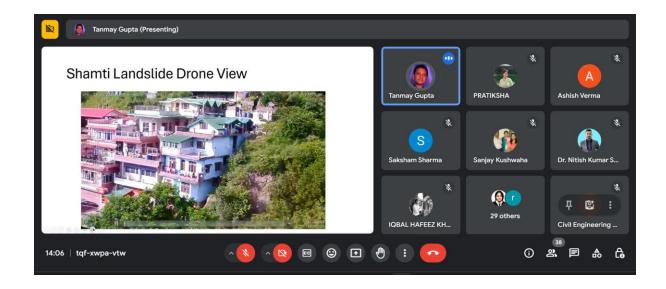




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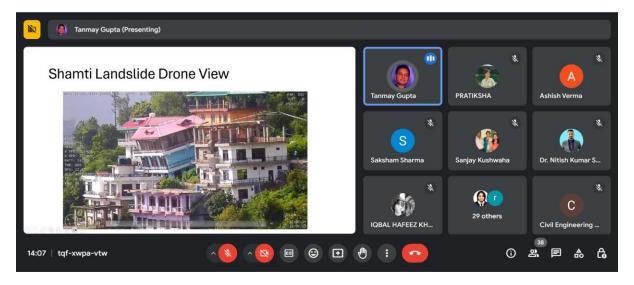


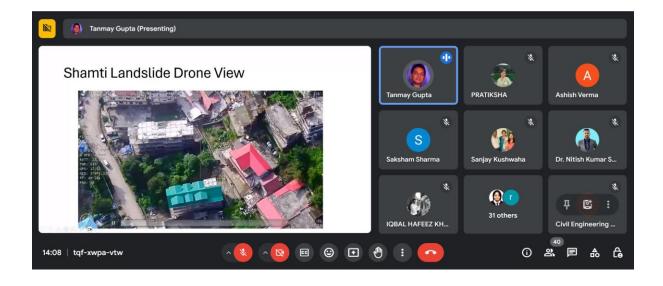




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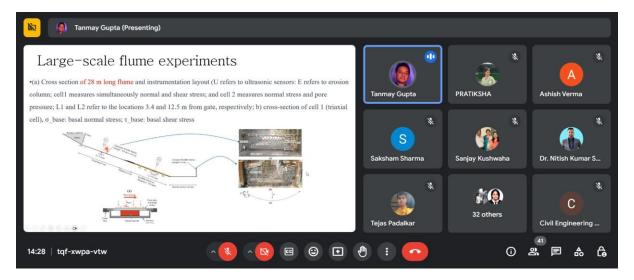






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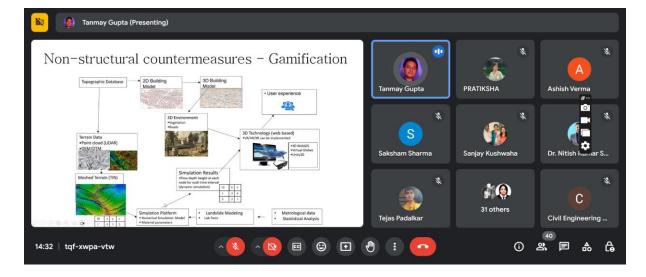




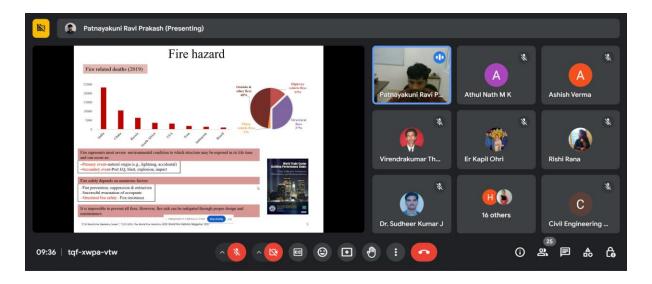
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Day 4:



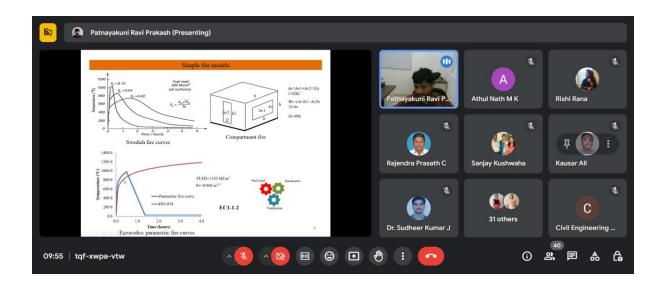




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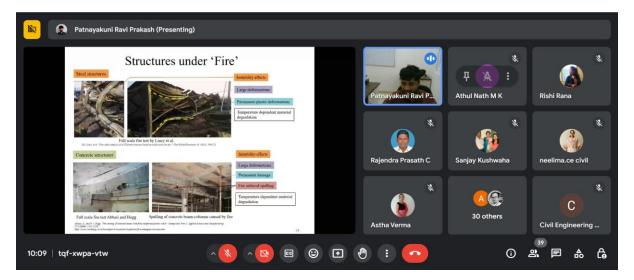


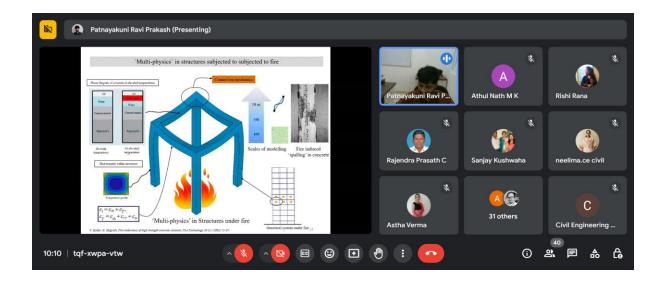




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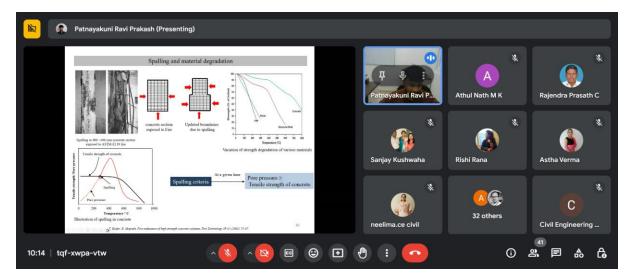


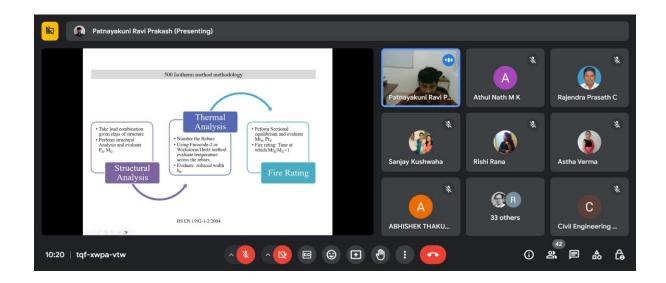




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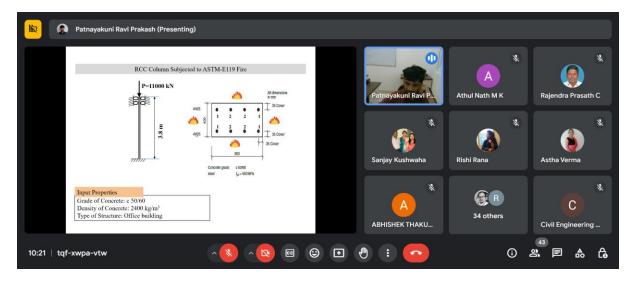


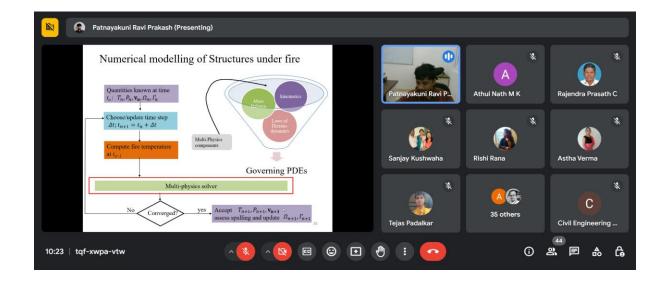




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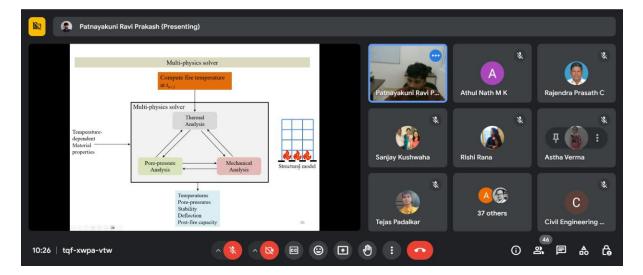


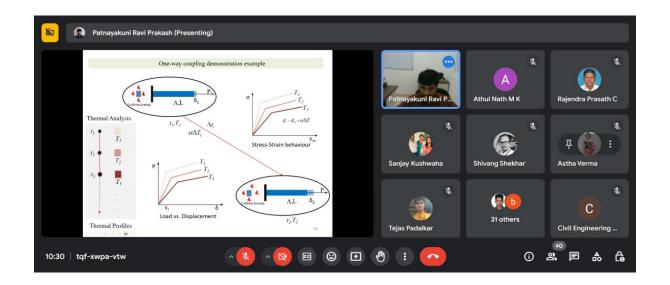


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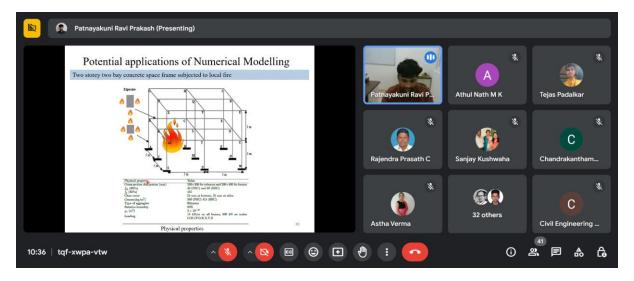


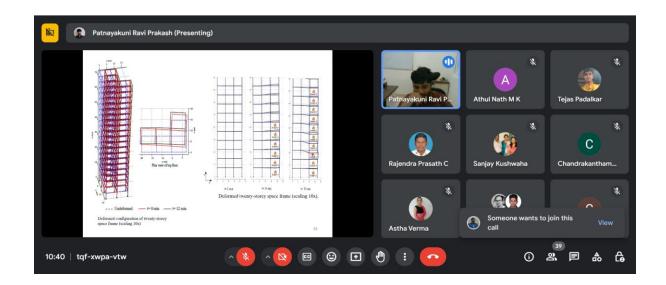




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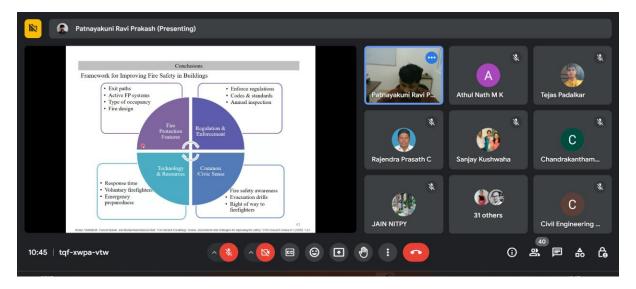






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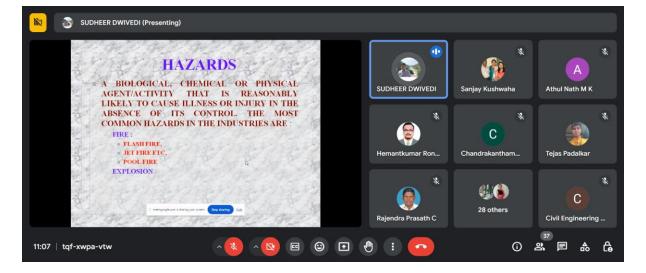


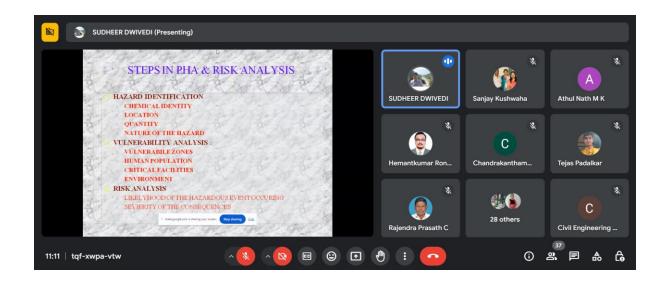


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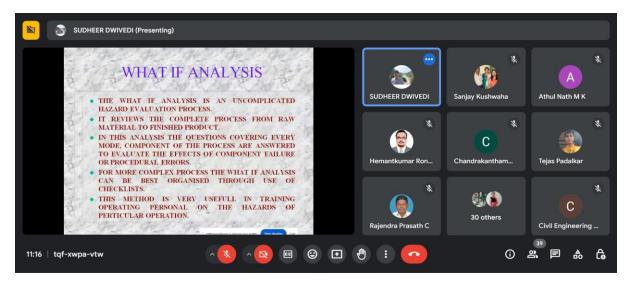


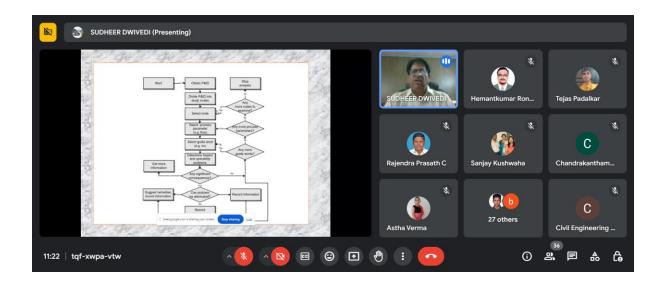




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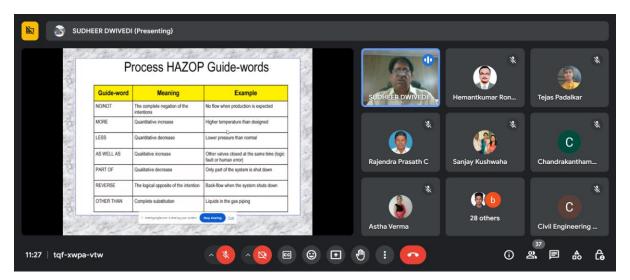






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(Established by H.P. State Legislature vide Act No. 14 of 2002)



Day 5:



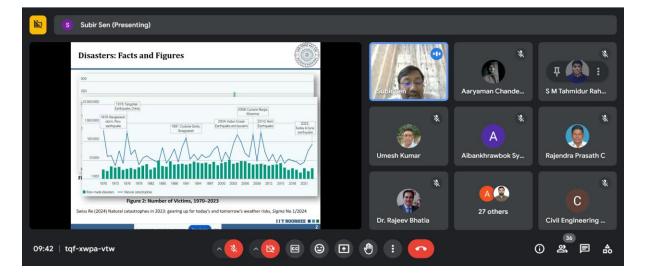


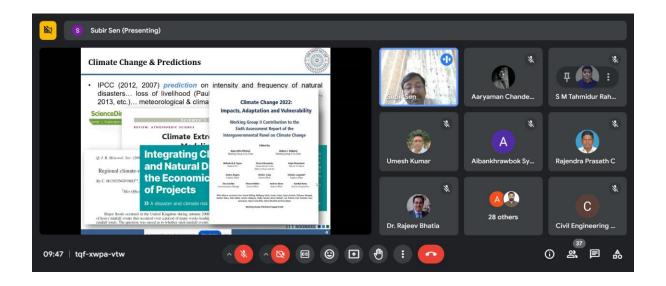


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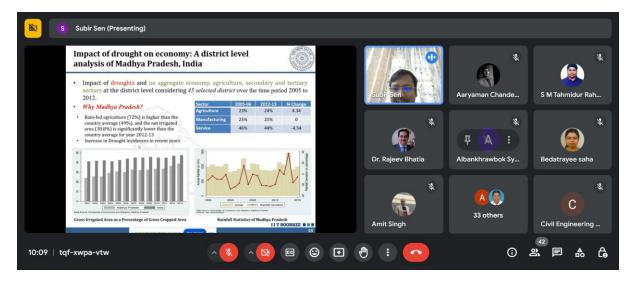


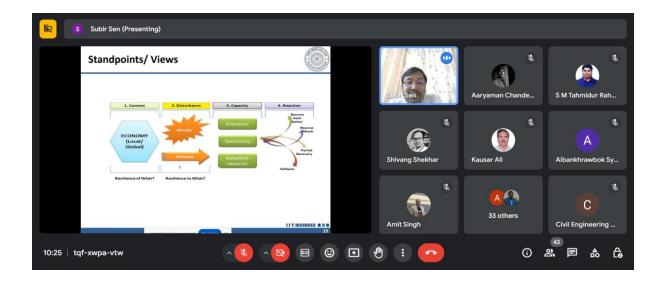




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