



One Week Short Term Course on “Sustainable Construction Practices for Sustainable Environment”

A one-week short term course (in hybrid mode) on ‘*Sustainable Construction Practices for Sustainable Environment*,’ was organized by the Department of Civil Engineering, Jaypee University of Information Technology (JUIT), Wagnaghat from April 22–27, 2024. The program was successfully completed under the auspices of:

- **Prof. Rajendra Kumar Sharma:** Vice Chancellor, JUIT, Wagnaghat, and Patron of the organized short-term course by Civil Engineering Department.
- **Prof. Ashok Kumar Gupta:** Dean (Academics & Research), JUIT, Wagnaghat, and Patron of the organized short-term course by Civil Engineering Department.
- **Prof. Ashish Kumar:** Head, Civil Engineering Department, JUIT, Wagnaghat, and Program Chair of the organized short-term course by Civil Engineering Department.
- **Dr. Amardeep:** Assistant Professor, Civil Engineering Department, JUIT, Wagnaghat, and Program Convener of organized short-term course by Civil Engineering Department.
- **Dr. Rishi Rana:** Assistant Professor, Civil Engineering Department, JUIT, Wagnaghat, and Program Convener of organized short-term course by Civil Engineering Department.
- **Mr. Akash Bhardwaj:** Assistant Professor, Civil Engineering Department, JUIT, Wagnaghat, and Program Coordinator of organized short-term course by Civil Engineering Department.

The short-term course (STC) on ‘**Sustainable Construction Practices for Sustainable Environment**’ hosted various invited and guest lecturers from renowned institutes covering multifaceted aspects on progress, developments, legislations, and existing trends in sustainable construction practices with applications of software and models. The course was specifically designed for the HPPWD engineers from various regions of Himachal Pradesh. STC provided a comprehensive overview of the principles, techniques, and strategies essential for fostering environmentally responsible construction practices. Throughout the duration of the course, participants were immersed in a dynamic learning environment that combined theoretical knowledge with practical applications, equipping them with the necessary skills and insights to



contribute to sustainable development in the construction industry. The course emphasized the importance of adopting a holistic approach to sustainable construction, encompassing various aspects such as energy efficiency, resource conservation, waste management, and green building design. Participants gained a deeper understanding of the interconnectedness between construction activities and environmental impacts, as well as the potential of sustainable practices to mitigate these impacts and promote resilience in the face of climate change. Through engaging lectures, interactive discussions, hands-on activities, and insightful guest presentations, participants were exposed to a diverse range of perspectives and best practices from leading experts and practitioners in the field. Case studies showcased innovative sustainable construction projects from around the world, inspiring participants to think creatively and apply sustainable principles in their own professional endeavors.

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 STC on *"Sustainable Construction Practices for Sustainable Environment"*, April 22-27, 2024 (in hybrid mode)

Date	Time	Events
22-04-2024	09:30 AM	Inaugural speech by Prof. (Dr.) Rajendra Kumar Sharma, Vice-Chancellor, JUIT
	09:45 AM	Inaugural speech by Prof. (Dr.) Ashok Kumar Gupta, Dean (Academics and Research), JUIT
	10: 00 AM	Motivational Lecture by Prof. (Dr.) Ashish Kumar, HCED, JUIT
	10:15 AM	Expert Talk by Dr. Amardeep, Assistant Professor, CED JUIT
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Dr. Ran Bir Singh, Assistant Professor, CED CUH
	2:30 PM	Expert Talk by Dr. Rishi Rana, Assistant Professor, CED JUIT
	3:30 PM	High Tea



	4:00 PM	Expert Talk by Dr. Senthil Kasilingam, Assistant Professor, CED, NIT Jalandhar
23-04-2024	10:15 AM	Expert Talk by Dr. Tanmay Gupta, Assistant Professor, CED JUIT
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Dr. Ran Bir Singh, Assistant Professor, CED CUH
	2:30 PM	Expert Talk by Dr. Saurabh Rawat, Associate Professor, CED JUIT
	3:30 PM	High Tea
	4:00 PM	Expert Talk by Dr. Dr. Senthil Kasilingam, Assistant Professor, CED, NIT Jalandhar
24-04-2024	10:15 AM	Prof. (Ar.) Jit Kumar Gupta- Former Director, College of Architecture IET Bhaddal, Punjab
	11:30 AM	High Tea
	12:00 PM	Prof. (Ar.) Jit Kumar Gupta- Former Director, College of Architecture IET Bhaddal, Punjab
	2:30 PM	Expert Talk by Dr. Bhupendera, Assistant Professor, CED IIT Jodhpur
	3:30 PM	High Tea
	4:00 PM	Expert Talk by Dr. Niraj Parihar, Assistant Professor, CED, JUIT
25-04-2024	10:15 AM	Expert Talk by Dr. Saurav, Assistant Professor, CED JUIT
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Ar. Vaibhav Gupta-Partner and Principal Architect Lucknow, UP
	2:30 PM	Expert Talk by Dr. Sugandha Singh, Assistant Professor, CED JUIT



	3:30 PM	High Tea
	4:00 PM	Expert Talk by Dr. Bhupendra, Assistant Professor, CED IIT Jodhpur
26-04-2024	10:15 AM	Expert Talk by Dr. Ankit Kathuria, Assistant Professor, CED IIT Jammu
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Dr. Nikhil Saboo, Assistant Professor, CED IIT Roorkee
	2:30 PM	Expert Talk by Ar. Vaibhav Gupta - Partner and Principal Architect Lucknow, UP
	3:30 PM	High Tea
	4:00 PM	Enjoy JUIT festival
27-04-2024	10:15 AM	Expert Talk by Dr. Ankit Kathuria, Assistant Professor, CED IIT Jammu
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Dr. Nikhil Saboo, Assistant Professor, CED IIT Roorkee
	12:30 PM	Closing Ceremony

Feedback from participants has been overwhelmingly positive, with many expressing appreciations for the practical relevance of the course content, the expertise of the instructors, and the opportunity to network with peers who share a common commitment to sustainability. As we reflect on the achievements of this course, it is evident that education and training play a crucial role in driving positive change within the construction industry and advancing towards a more sustainable future.

Table 2: Summary of participation Details in the STC 2024

Total Number of Registered participants	20
Total Number of external participants	12

Other Salient Features

- Video Recording of all lectures by the speakers for the STC available with the organizing committee.
- Presentation slides of all lectures by the speakers for the STC available with the organizing committee and has been distributed to participants.
- Certificates of participation are issued to all registered participants.
- Certificates of resource persons issued to all the listed speakers.
- Feedback collected from participants for further improvement in conducting such future Courses.
- Feedback collected from speakers for their input in conducting such future courses.

Summary Statistics of Feedback received from Participants and Speakers are summarized below in Tables 3 and 4 respectively.

Table 3: Participant feedback details of the STC, 2024

Total number of participants feedback	20
Overall average feedback score	Excellent (75%); Very Good (22%); Good (3%) Based on a 5-point scale rating system (1–5: poor to excellent)

Table 4: Speaker feedback details of the STC, 2024

Total number of Speaker feedback	10
Overall average feedback score	Excellent (71%). Very Good (29%). Based on a 5-point scale rating system (1–5: poor to excellent)

Photos



Dr. Ashish Kumar Facilitating to Dr. Bhupendra (IIT Jodhpur)



Dr. Ashish Kumar Facilitating to Ar. Vaibhav Gupta (Lucknow)



Dr. Bhupendra (IIT Jodhpur)



Dr. Ankit (IIT Jammu)



Hands on Training to HPPWD officials



Hands on Training to HPPWD officials



A Group Photograph of HPPWD officials with Prof. Jit Kumar Gupta



Dr. Ashish Kumar Facilitating to Dr. Ran Bir Singh (CUH)



Dr. Ashish Kumar Facilitating to Dr. Ankit (IIT Jammu)



Group photograph with HPPWD officials