Short-Term Course (STC) on "Highways in Hilly Region (HHR-2024)"
In Hybrid mode
To commemorate 75th Year celebrations of Indian Independence

17th January – 21st January 2024

About the Institute

National Institute of Technology Uttarakhand is one of the thirty-one NITs of the country. Established in 2009 under the Act of Parliament by the Ministry of Education (Shikha Mantralaya), NITUK is the Technical Education Hub in the green and clean lap of the Himalayas, precisely located in the land of gods (Known as Dev Bhoomi), the state of Uttarakhand. The Institute offers Bachelor, Master, and Doctoral programs in Engineering and Sciences. Various programs serve the purpose of building a comprehensive foundation of knowledge and enhancing confidence, creativity, and innovation in its students.

About the Department

Department of Civil Engineering, NIT Uttarakhand was established in 2013. Taking advantage of its geographical location, the institute plans to build a systematic and sustainable model for hilly development and rehabilitation. The department offers a four-year course leading to a bachelor’s degree in civil engineering. Department of Civil Engineering has an advanced academic structure with core courses and a variety of elective courses so that the student's knowledge is not only enhanced in the core discipline but also in the related disciplines. The department also offers postgraduate courses in Structural Engineering and Transportation Engineering, along with a Ph.D. degree program in all the specializations of Civil Engineering. Department has set up various lab facilities to provide students better learning environment. Also continuously organized industrial tours and department seminars make studying at the department refreshing.

Patron
Prof. Lalit Kumar Awasthi
Director, NIT Uttarakhand

Convener
Dr. Smita Kaloni
Head, Department of Civil Engineering, NIT Uttarakhand

Coordinator’s
Dr. Aditya Kumar Anupam
Assistant Professor, Department of Civil Engineering, NIT Uttarakhand

Dr. Shashank Bhatra
Assistant Professor, Department of Civil Engineering, NIT Uttarakhand

Dr. Abhinav Kumar
Assistant Professor, Department of Civil Engineering, NIT Uttarakhand

Dr. Akhilesh Nautiyal
Assistant Professor, Department of Civil Engineering, NIT Uttarakhand

Contact Details
Dr. Akhilesh Nautiyal
Email: akhilesh.nautiyal@nituk.ac.in
Mob.: +91-9410351618

Dr. Abhinav Kumar
Email: abhinav.kumar@nituk.ac.in
Mob.: +91-8430586247
The Civil Engineering Department, National Institute of Technology, Uttarakhand is organizing one-week Hybrid Short Term Course (STC) on “Highways in Hilly Region (HHR-2024)” during 17th January 2024 to 21st January 2024 at NIT Uttarakhand. The Civil Engineering Department welcomes UG/PG students, researchers, engineers, and industry professionals to an open forum where recent developments in the field of Transportation Engineering in hilly regions will be shared. The program will feature keynote lectures delivered by eminent experts from the various leading institutes and Industries. The course will encompass broad topics within the realm of all domains of Transportation Engineering in hilly regions for research and professional development of engineering fraternities. The course aims to provide a platform for the faculties, students, research scholars, and practicing engineers to enlighten their knowledge on the various recent aspects of Transportation Engineering in Hilly regions.

### Objectives

- To understand the challenges associated with road construction in hilly regions.
- To master the principles of effective road design and geotechnical aspects specific to hilly terrains.
- To examine traffic patterns and develop strategies for efficient traffic management on hilly roads.
- To investigate maintenance planning and cutting-edge technologies for mountainous areas.

### Topics to be Covered

- Challenges in Hill Road Construction
- Road Design and Alignment
- Traffic Analysis
- Geotechnical Considerations
- Advance Construction Materials & Techniques
- Aerial Survey and GIS Applications
- Pavement Maintenance and Planning
- Case studies and best practices

### Resource Persons

The lectures will be delivered by renowned speakers. The tentative list is as follows:

- **Prof. Yusuf Mehta** (Rowan University, US)
- **Prof. Tsai Yi-Chang J** (Georgia Institute)
- **Prof. Praveen Kumar** (IIT Roorkee)
- **Prof. J.T. Shahu** (IIT Delhi)
- **Prof. Arvind K. Swamy** (IIT Delhi)
- **Prof. Rajan Choudhary** (IIT Guwahati)
- **Prof. Indrajit Ghosh** (IIT Roorkee)
- **Dr. Girish Chandra Joshi** (USDMA)
- **Prof. Umesh Sharma** (PEC-Punjab)
- **Prof. Shriniwas S. A.** (SVNIT Surat)
- **Prof. Gaurang Joshi** (SVNIT Surat)

### Important Dates

- **Last date (Online Registration):** 16-01-2024
- **Confirmation by E-mail:** 16-01-2024
- **STC Duration:** 17-01-2024 to 21-01-2024

### Eligibility

This program is open to faculty members, scientists, research scholars, PG & UG Students and industrial personnel.

### How to Apply

Interested candidates must deposit the nonrefundable registration fee through RTGS to the following Account:

- **Account Name:** National Institute of Technology, Uttarakhand
- **Account Number:** 37530603172
- **Bank Name:** State Bank of India
- **Branch Name:** Srinagar (Garhwal)
- **IFSC:** SBIN0003181
- **MICR Code:** 246002902

Generate the payment slip and attach it with the registration form available at the following link.

[https://forms.gle/zf6iA8c1FvZkYr6FA](https://forms.gle/zf6iA8c1FvZkYr6FA)

*Applications will be accepted on first come-first serve basis.

*Venue: NITUK/Through Google Meet. The link for the online course will be shared through email later.

### Certification

Certificates will be provided to the participants, with at least 80% attendance, upon successful completion of the program.