PATRON

Prof. Shyam Lal Soni

(Director, NIT Uttarakhand)

CONVENER

Dr. Aditya Kumar Anupam

Head of the Department

COORDINATORS

Dr. Kranti Jain

Dr. Vikas Pratap Singh

Dr. Shashank Bhatra

Mr. Muskan Mayank

CONTACT

Dr. Aditya Kumar Anupam
Email: ak.anupam@nituk.ac.in
Mobile: +91-8909702825

Dr. Shashank Bhatra
Email: shashankbhatra991@nituk.ac.in
Mobile: +91-8791140701

NIT UTTARAKHAND

National Institute of Technology, Uttarakhand is located in the hilly terrain of Srinagar, Pauri Garhwal, Uttarakhand. NIT Uttarakhand was established in 2009 under the Act of Parliament of India by the Ministry of Human Resource Development and designated with the status of "Institute of National Importance". The institute has made a rapid growth in the recent past in terms of starting new academic programs and development of laboratories and infrastructure.

CIVIL ENGINEERING DEPARTMENT

Department of Civil Engineering established in the year 2014 intends to be the propagator of development and research in the field of Civil Engineering. Taking advantage of its geographical location, the institute plans to build a systematic and sustainable model for hills development and rehabilitation. The department offers four-year undergraduate program in Civil Engineering and postgraduate courses in Structural Engineering and Transportation Engineering along with Ph. D. degree program.

(TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-III)

TEQIP-III

FIVE DAYS

SHORT TERM COURSE

on

"Forensic Engineering and Rehabilitation of Structures"

(05th – 09th September, 2020)

Organized by

Department of Civil Engineering
National Institute of Technology
Uttarakhand
Srinagar, Pauri Garhwal
India-246174

INTRODUCTION

The course will focus on various engineering aspects pertaining to forensic structural practice and rehabilitation process. With rapid economic development, increased design sophistication, more-and-more daring construction technology and accelerated project delivery the proliferation of structural and geotechnical engineering failures throughout the world. To address the aging infrastructure, numerous researches are in progress worldwide. To meet the increasing needs for tackling natural disasters, infrastructure sustainability that can accommodate the rapid growths in technological development have become essential. It is an urgent requirement to address approaches in order to prevent potential system-level failures, so that the mitigation costs can be minimized and thus addressing the economic burden.

The course will focus on the forensic aspects of structural and geotechnical engineering practices apart from introducing the basics for the investigation of failures and understanding some of the pertinent legal aspects. It is an aim to prepare the participants for eventual practice of forensic engineering. The course includes data collection to field investigations, hypothesis generation and testing techniques, report findings of most likely forensic causes and consequences, and improving engineering design as per the forensic engineering cases.

One of the benefits of forensic investigations is the lessons learned from failures and the use of those lessons to improve codes, standards and practices in order to limit future occurrence of failures. Therefore, the purpose of the course is not only to teach forensic investigation of failures and providing technical support in the consequent dispute resolution process, but also to show how to avoid failures and what the consequences of failures may be.

COVERAGE

- Basics on forensic aspects of structural and geotechnical engineering,
- NDT and When to use non-destructive testing of reinforced concrete structures: an overview
- Rehabilitation Technique for Reinforced Concrete Structures after the natural hazards.
- Environmental Problems and Natural Hazards.
- Learning from failures: Case studies on structural, geotechnical and environmental forensics.

REGISTRATION FEES

Delegates	Fees*
Faculty, Engineers and consultants	1000/-
Students	500/-

*non-refundable

No fee for the students of TEQIP funded institutions.

For online payment the NIT Bank account details :

A/C Name	National Institute of Technology Uttarakhand
Bank Name	SBI, Srinagar-Garhwal
A/C No.	37530566069
IFSC Code	SBIN0003181

SPEAKERS

- Senior Persons from Industry
- Subject experts from reputed organizations (IITs/NITs/CBRI)

WHO MAY PARTICIPATE

- Engineers from Civil Engineering Background
- Scientists from research and development (R&D) organizations
- Students and Faculty members from engineering colleges
- Practicing engineers and design consultants

REGISTRATION FORM

TEQIP-III

Five Days Short Term Course
on

"Forensic Engineering and Rehabilitation of Structures"

(05th – 09th September, 2020)

Name: _____

Designation & Official Address: _____

_____

Highest Academic Qualification: _____

Address for Correspondence: _____

_____Pin:_____

Mobile Number: _____

Email: _____

Signature of Applicant: _____

Authorized Signatory
With Seal

(Filled registration form / scan copy may be emailed to civil_activitites@nituk.ac.in on or before 3rd Sep. 2020)