



NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA

## TEQIP-II Sponsored

Short Term Course on  
**Analysis, Design and Health  
Monitoring of Structures  
(ADHMS-2016)**

**30 Sept-02 Oct, 2016**  
**[Registration Form]**

1. Name:
2. Position:
3. Department:
4. Organisation:
5. Address:
  
6. E-mail Address:  
Mobile No.:  
Telephone  
No.: Fax No.:
7. Educational background:
8. Areas of research interests:
  
9. Accommodation Required: Yes / No

Date: Signature of the Applicant

Place:

Forwarded through Organization

## DEPARTMENT OF CIVIL ENGINEERING:

The Civil Engineering Department at NIT Rourkela is earnestly working to develop solutions to major sustainability challenges of the country and committed to produce leaders impacting the society at large. The Department is actively involved in basic and applied research in the field of Structural Engineering, Geotechnical Engineering, Transportation Engineering, Water Resources Engineering and Environmental Engineering along with high quality technical advisory support to various organizations through R&D projects and consultancy.

## IMPORTANT DATES:

Last Date for Receipt of Registration Form:

**September 24, 2016.**

Selection Letter to be e-mailed:

**September 25, 2016.**

Course duration:

**September 30 to October 2, 2016.**

## ADDRESS FOR CORRESPONDENCE:

**Prof. Shishir Kr. Sahu, Coordinator \***

Phone: 0661-2462322 (O), 9437145236

e-mail: [sksahu@nitrrkl.ac.in](mailto:sksahu@nitrrkl.ac.in),  
[sksahu.nitrkl@gmail.com](mailto:sksahu.nitrkl@gmail.com)

Department of Civil Engineering, NIT  
Rourkela, Odisha- 769008, India

**Note:** Applicants are requested to send the scanned copy of Signed Registration Form in the following email id for early registration: [sksahu.nitrkl@gmail.com](mailto:sksahu.nitrkl@gmail.com)

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**30 Sept-02 Oct, 2016**



**Prof. Shishir Kr. Sahu  
(Coordinator)**

**Dr. P. Sarkar and Dr. R. Davis  
(Co-coordinators)  
ORGANIZED BY**



DEPARTMENT OF CIVIL ENGINEERING  
NATINAL INSTITUTE OF TECHNOLOGY  
ROURKELA, ODISHA-769008, INDIA

## ABOUT NIT ROURKELA:

National Institute of Technology Rourkela is a premier institution of India for higher technical education, basic and applied research. Established more than 50 years ago NIT Rourkela is now recognized as an Institute of National Importance by Govt. of India. The institute presently has 20 departments and nine multi-disciplinary centers that offer undergraduate, postgraduate and research courses leading to B. Tech., M Tech Dual degree, M. Tech., M. Sc., MBA, Ph.D. and D.Sc. Degrees. Spread across 647 acres carpeted by a lush green cover, the campus of NIT Rourkela is situated right at the confluence of the hills of Rourkela in the Eastern part of India.

## SCOPE:

The primary objectives of the course are to help understand (a) important aspects of structural modelling and analysis using commercial software STAAD-Pro and SAP2000 (b) vibration behaviour of structures under dynamic loading (c) appropriate design methods to be adopted for structures against earthquake loading (d) condition assessment/ structural health monitoring (e) maintenance and repair of industrial structures.

This course attempts to respond to some of the frequently asked questions regarding behaviour of industrial structures under different load conditions.

It will provide training on how to model the realistic behaviour of structures, and how to capture the different load effects on structures. Appropriate analyses methods will be introduced to design safe and economic structures.

The course will also introduce the concepts of structural vibration with special emphasis on earthquake protection of structural elements.

Condition assessment of existing structures, repair and rehabilitation of damaged structures are of utmost importance in recent civil engineering industry. This course will attempt to give an overview of the above aspects including maintenance of structures.

The aim of this short term course is also to bring together practicing civil engineers from Industry to discuss the developments in the related fields and to network. The organizers look forward to learn the industry needs and discuss possible collaborative projects for the growth of the organizations symbiotically.

## TOPICS TO BE COVERED:

**Modelling and Analysis of Structure using STAAD-Pro and SAP2000, Structural Vibration, Structural Design for Earthquake Load, Condition Assessment of Structures and , Structural Health Monitoring, Maintenance and Repair**

**Who can attend: Officers from various industries.**

## REGISTRATION FEE:

**Registration is free for all participants.**

**(Registration kit, course materials, Accommodation\* Food and Refreshments will be provided)**

**(\* Free Accommodation may be provided in the Institute Guest House based on availability)**

The filled in registration form should be sent to:

**Prof. Shishir Kr. Sahu  
(Coordinator: ADHMS -2016)  
Department of Civil Engineering,  
NIT Rourkela,  
Odisha- 769008, India  
Phone: 0661-2462322 (O), 9437145236  
[sksahu@nitrkl.ac.in](mailto:sksahu@nitrkl.ac.in)**

**Last Date for Registration  
20 September, 2016**