

**CEP Short Term Course**  
**On**  
**Recent Advances in Structural Dynamics and Structural Health**  
**Monitoring (RASD & SHM-2019)**  
**25<sup>th</sup> -27<sup>th</sup> March, 2019**  
**REGISTRATION FORM**

Name: .....

Designation: .....

Address: .....

Pin No ..... Mobile No .....

E-mail: .....

Highest Academic Qualification:.....

Experience: .....

Registration Fee Rs:.....UTR No.....

Please register me for the course “Recent Advances in Structural Dynamics and Structural Health Monitoring” to be held at IIT (BHU) Varanasi

Place: ..... Signature of the Applicant  
Date: .....

**SPONSORSHIP**

Prof./Dr./Mr./Ms./Mrs./\_\_\_\_\_ is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the Short-Term Course “Recent Advances in Structural Dynamics and Structural Health Monitoring” at IIT (BHU) Varanasi during March 25-27, 2019, if selected.

Date: ..... Signature of Sponsoring Authority  
Designation: .....  
Official Seal: .....



**Continuing Education Program Short term Course**  
**On**  
**RECENT ADVANCES IN STRUCTURAL DYNAMICS**  
**AND STRUCTURAL HEALTH MONITORING**

**Date: 25<sup>th</sup> -27<sup>th</sup> March, 2019**  
**Venue: Seminar Hall, Department of Civil Engineering**



Organized by  
Department of Civil Engineering  
Indian Institute of Technology  
(Banaras Hindu University) Varanasi-221005

## ABOUT COURSE

Over the last few decades, there are huge number of civil structures has been constructed around the world. But during their service life, civil engineering structures are unavoidably subject to be damaged. Damage may be due to changes in the material properties and to the time varying applied loads. Structural health monitoring is an essential for old structures such as old bridges which are subjected to different dynamics loads. There are many important structures that were constructed without doing exact dynamic analysis. The process of implementing a damage identification strategy for civil engineering infrastructure is referred to as structural health monitoring (SHM). Structural health monitoring data analysis is basically a logical inference problem, wherein we attempt to gain information on the structural state based on sensor responses. This course is devoted to theoretical, numerical and experimental developments in structural dynamics and their application to all types of old structures and assessment of their health. The course will reflect the state-of-the-art of structural dynamics and structural health monitoring in engineering practice.

## THEMES OF THE COURSE

Following main themes are to be covered

- I. Fundamental of structural dynamics
- II. Soil Structure Interaction
- III. Advances on Force identification for Structural Dynamics
- IV. Vibration based Structural Damage detection
- V. Different type of sensor and its applications in SHM

## CHAIRMAN

Prof. Prabhat Kumar Singh  
Head, Department of Civil Engineering, IIT (BHU)

## COORDINATOR

Dr. Pabitra Ranjan Maiti  
E-mail: prmaiti.civ@itbhu.ac.in  
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## CO-COORDINATOR

Dr. P. Bala Ramudu  
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## TREASURER

Dr. Supriya Mohanty  
Email-supriya.civ@iitbhu.ac.in

## REGISTRATION

Academician / Field Engineer -INR 17,700.00  
Research Scholar -INR 11,800.00  
M. Tech student- INR 9440.00  
Course fee inclusive 18% GST  
Registration fees must be paid by electronic / online transfer.

The Bank Details:

1. Account Name- IIT(BHU)- Main Account (Special Fund)
2. Account No. - 32778803937
3. Account Type- Current
4. Account Holder Name- Registrar, IIT (BHU)
5. Name of Bank & address- SBI, IT-BHU Branch
- 6 IFSC- SBIN0011445

Registration fee includes Registration kits, course materials, working lunch etc. for the course duration.

**LAST DATE FOR REGISTRATION: 20<sup>th</sup> March, 2019**

## ACCOMMODATION

Accommodation may be arranged in the IIT (BHU) Guest House in twin basis on first come first service basis or in the institute premises depending on the availability. No TA/DA shall be paid to the participants by the organizers.

## ABOUT VARANASI

Varanasi is credited to be the oldest living city in the world. The antiquity of the city has been aptly described by Mark Twain as "Banaras is older than history, older than tradition, older than even legend, and looks twice as old as all of them put together!"

## HOW TO REACH

Varanasi is around 780 km from Delhi on Delhi -Howrah rail route. The city is well connected to all major towns of India through rail and air routes. Varanasi Cantt junction, DDU Railway station and Babatpur airport is around 10 km, 22 km and 35 km respectively from IIT(BHU) campus. The climate in March is pleasant at Varanasi.