

## ABOUT NIDM

National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India is a premium Institute and a Statutory Body (under Disaster Management Act 2005) for training, research, documentation, awareness and human resources and capacity development in the field of disaster mitigation and management. The Institute lays emphasis on multi-stakeholder interdisciplinary cross-sectoral approach for an efficient proactive continuum disaster risk management based on participatory integrated multi-risk management concept. It aims towards a disaster free / resilient India.

## ABOUT DTU

With a history stretching back over 69 years, providing an academic milieu amid adequate space for ingenious research as an integral part of curriculum design, Delhi Technological University is strongly identified with engineering education in India. The University has been a forerunner, and led the way in reform movement maintaining a compatibility with values and professional morality. DTU takes pride in being one of the major contributors in planning and construction of India's infrastructure. In DTU we endorse and cultivate the purity of mind as the strongest currency, with an impressive resolve to renovate and upgrade our knowledge infrastructure. DTU aspires to be ranked amongst the leading universities globally. Consequently, DTU's mission is to edify individuals to be competitive not only in India, but all over the world.

## PATRONS

**Maj. Gen. Manoj K Bindal, VSM**  
Executive Director, NIDM

**Prof. Yogesh Singh**  
Vice Chancellor, DTU

## CHAIRMAN

**Prof. Nirendra Dev**  
Head, Department of Civil Engineering, DTU

## PROGRAMME COORDINATORS

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## ONLINE REGISTRATION

Detailed online registration form available on following link

<https://forms.gle/2uQpZQeBvSQhdMrBA>

Last Date of  
Registration

**November 20, 2020**

**NO REGISTRATION FEE**

One-Week  
Online Short Term Training Programme  
on

## STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY

November 24 - 28, 2020



**nidm**

Resilient India : Disaster free India



Organized jointly by

**National Institute of Disaster Management**

Ministry of Home Affairs, Govt. of India  
New Delhi – 110 001

&

**Delhi Technological University**

Shahbad Daulatpur, Main Bawana Road,  
New Delhi – 110 042

## ABOUT STTP

India on account of geo-physical setting is highly prone to earthquakes of varying intensities. The country has faced several devastating earthquakes in the past. Many such events had caused untold misery to the affected community and enormous damage to infrastructure and public and private property. The frequent occurrence of damaging earthquakes clearly demonstrates the high seismic hazard of the country and highlights the need for a comprehensive earthquake risk mitigation programme.

Considering Delhi and NCR under Seismic Zone – IV, based on seismic zoning map of India, structural safety audit of the built environment is required in this region. Poor structural integrity and insufficient safety measures can have disastrous consequences. Structural safety audit is an overall health and performance check-up of buildings not only from earthquake point of view but also due to aging etc. It is important for a building to check its safety and need to be sure that it is not posing any risk to the society/occupants. Structural safety audit is a process of analysis of building which suggest required repairs and retrofitting measures for the buildings. This will help the building to perform better in its service life. It is a required tool to know the actual health status of the old buildings.

The present Short Term Training Programme (STTP) on “Structural Audit for Earthquake Safety” intends to sensitize, institutionalize and promote information, knowledge, and innovation for seismic stability of the built environment comprising of residential and commercial buildings and critical infrastructure like hospitals and schools etc. The STTP is being organized with an aim to strengthen human capacity to reduce risks from impending earthquakes. Through

this STTP efforts would be made to share and disseminate experiences, knowledge, information, innovations and ideas on seismic safety of structures as per the National Building Code and latest instructions issued by the Honbl'e High Court of Delhi to make the existing buildings seismic compliant.

## LIST OF SPEAKERS

- Prof. Ravi Sinha, IITB
- Prof. C.V.R. Murthy, IITM
- Prof. Chandan Ghosh, IITJ
- Sh. R. C. Sharma,  
*Chief Delhi Fire Services (formerly)*
- Dr. Sandeep Donald Shah,  
*Taylor Devices India*
- Dr. Ajay Chaurasia, CSIR-CBRI
- Prof. Pradeep K. Ramancharla,  
*IIT Hyderabad*
- Sh. Alok Bhowmick, MD, BSECPL
- Prof Amit Srivastava, DTU
- Dr. Girish Chandra Joshi, USDMA
- Mr. Arun Kumar, BIS
- Prof. Raju Sarkar, DTU
- Dr. Shilpa Pal, DTU

## TOPICS TO BE COVERED IN THE STTP

- Challenges of Seismic safety of built environment in Indian Scenario
- Roles & Responsibilities of Structural Engineer
- Seismic Conceptual Design of Buildings
- Geotechnical investigations
- Rapid Visual Screening of Buildings
- Retrofit Analysis & Design for Masonry Buildings – A Case Study

- Safety Evaluation of Critical Lifeline Infrastructure
- Vulnerability Analysis and Design of Retrofit Strategy for RC buildings
- Good Construction Practices
- Audit of Non-Structural Elements for Earthquake Safety
- Seismic Evaluation of existing Building in Hilly areas
- National Building Code-2016 provisions for Earthquake Risk Mitigation
- Retrofitting Techniques for Seismic Safety
- Fire Safety Considerations in Buildings

## TARGET GROUP

This programme is primarily designed for people across the humanitarian to development spectrum, who may in some capacity be involved in construction activities at different levels. The programme will be useful for architects, engineers, planners, administrators, and teaching faculties involved in teaching and research related to built environment.

The target group for this programme would be senior and middle level functionaries of the central/state governments, PSUs, Municipal Corporations involved in planning, design, construction and maintenance of buildings and representing various departments including CPWD, PWD, Rural Development, Municipalities, Town Planning, Faculties/ Researchers at Universities/IITs/NITs and Industries/R&D facilities dealing in upcoming innovation in sustainable constructions.

## CERTIFICATE

A Certificate will be awarded to the participants on successful completion of the course.