



Capsule Course on
**Disaster Mitigation
and Management**

10-11 February 2025



**NATIONAL INSTITUTE OF TRAINING FOR STANDARDIZATION
BUREAU OF INDIAN STANDARDS**

**Ministry of Consumer Affairs, Food & Public Distribution
Government of India**

Bureau of Indian Standards (BIS) being the National Standards Body of the country discharges multitude of functions and services for enhancing the quality ecosystem in the Country. The activities of BIS include standards formulation at national and international level, conformity assessment schemes (Product Certification, Systems Certification, Registration and Hallmarking) testing and training. All these activities are carried out through their network of headquarters, regional and branch office and labs spread throughout the country.

During the last two decades, significant number of natural disasters such as earthquakes, landslides, cyclones etc. had occurred in our country leading to a huge loss of life and property. These losses have shown that the built environment was fragile, and needed adequate attention. It has been found that most of the casualties occurred in these devastating events are due to the collapse of buildings and structures, which had no safeguarding features or are not properly designed. This emphasizes the need for taking many initiatives, including strict compliance of municipal bye-laws and design codes in India and creating awareness among concerned stakeholders for implementation of the various provisions in the concerned standards.

Adoption of the latest standards in this field is the key solution to make disaster resilient infrastructure. Design codes must also be effectively enforced to ensure that buildings and their occupants benefit from advances in the provisions and guidelines covered in them.

BIS has formulated a number of standards in the field of disaster mitigation. These standards provide the good practices for structural design of buildings and enhance the resilience and safety of structures during natural disasters. Other standards relating to assessment and retrofitting of buildings provide guidance to improve the structural stability and resilience of the existing buildings. In addition to above, BIS Standards relating to societal safety, such as those for early warning system, planning for mass evacuation etc. are also important to effectively deal with emergency situations. Here are some key standards that contribute to disaster mitigation and management -

1. **IS 1893 (Part 1): 2016 – Criteria for Earthquake Resistant Design of Structures**
2. **IS 4326: 2013 – Earthquake Resistant Design and Construction of Buildings - Code of Practice**
3. **IS 13920: 2016 – Ductile Design and Detailing of Reinforced Concrete Structures Subjected to Seismic Forces - Code of Practice**
4. **IS 15498: 2023 – Improving the Cyclonic Resistance of Low-Rise Houses and Other Buildings - Guidelines**
5. **IS 17163: 2020 – Site Specific Investigation and Stability Analysis of Landslides — Guidelines**
6. **IS 14680: 1999 – Landslide Control - Guidelines**
7. **IS 17164: 2020 – Design and Construction of Cyclone Shelters — Guidelines**
8. **IS 17848: 2022 – Confined Masonry for Earthquake Resistance Code of Practice**
9. **IS 17951: 2023 – Method for Determination of Performance Relating to Safety of External Building Envelope Impacted by Wind Borne Debris**
10. **IS 18168: 2023 – Earthquake Resistant Design and Detailing of Steel Buildings - Code of Practice**
11. **IS 18289: 2023 – Post - Earthquake Safety Assessment of Buildings — Guidelines**
12. **IS/ISO 22315: 2014 – Societal Security — Mass Evacuation — Guidelines for Planning**
13. **IS/ISO 22322: 2015 – Societal Security — Emergency Management — Guidelines for Public Warning**
14. **IS/ISO 22328-1: 2020 – Security and Resilience — Emergency Management — Part 1 General Guidelines for the Implementation of Community Based Disaster Early Warning System**

Capacity building and awareness of professionals and concerned authorities on the latest provisions in the above standards is crucial for Disaster Mitigation to ensure the safety and resilience of structures during natural disasters for mitigating potential risks to life and property. It is also pertinent to train them about conducting post disaster needs assessment for long term recovery and reconstruction. Accordingly, Two-Day capsule courses are being organized by BIS at NITS, Noida to sensitize the stakeholders about these standards for their copious implementation.

Who should attend?

- Buildings Professionals such as Architects, Engineers, Town Planners, and officials of Town and Country Planning Departments, Development Authorities, Municipal Corporations, State Housing Boards, State PWDs, State Disaster Management Authorities and all those concerned with city planning, building regulation, and planning, design, construction and maintenance of disaster resilient buildings & built assets and facilities and officials involved in emergency management.

Course Schedule & Duration

- The Course is of 2 days duration scheduled during **10-11 February 2025** at **National Institute of Training for Standardization (NITS), Noida**. The Course is classroom-based and will be held in physical mode only.

Fees

- Rs. 1,500/- plus applicable GST (for two-day course).
*No training fees for Government officials (Central/States/UTs) officially nominated by the Head of their Department/Organization.

How to Apply?

- Application has to be made through BIS Training Portal through the following link www.manakonline.in or by emailing filled-up application form to nits@bis.gov.in. (please see the details given after the Training Module).

Criteria for Selection and Batch Size

- Batch size – 40
- Selection on First come First serve basis

Certification

- Certificate of participation on completion of the course.

Venue

- **The course will be run by NITS, Noida at its campus at:**
National Institute of Training for Standardization
A-20&21, Institutional Area
Sector 62, Noida
Pin 201309
(Uttar Pradesh)
- **Hostel facilities at NITS, Noida can be availed on payment basis.**

TRAINING MODULE

TWO-DAY CAPSULE COURSE ON DISASTER MITIGATION & MANAGEMENT 10-11 FEBRUARY, 2025

Time	Topic	Faculty
Day 1 (10 February 2025, Monday)		
09:30 h - 10:00 h	Registration	-
10:00 h - 11:30 h	Seismic Risk Mitigation	
11:30 h - 11:45 h	Tea Break	
11:45 h - 13:15 h	Water and Climate Change related Risk Mitigation	
13:15 h - 14:15 h	Lunch Break	
14:15 h - 15:45 h	Cyclonic Risk Mitigation	
15:45 h - 16:00 h	Tea Break	
16:00 h - 17:30 h	Lightning Protection	
DAY 2 (11 February 2025, Tuesday)		
10:00 h - 11:30 h	Societal Security and Emergency Management	
11:30 h - 11:45 h	Tea Break	
11:45 h - 13:15 h	Landslide Risk Mitigation	
13:15 h - 14:15 h	Lunch Break	
14:15 h - 15:45 h	Disaster Risk Reduction and Capacity Building	
15:45 h - 16:00 h	Tea Break	
16:00 h - 17:30 h	Retrofitting of Structures	

National Institute of Training for Standardization (NITS) Bureau of Indian Standards

CAPSULE COURSE ON DISASTER MITIGATION AND MANAGEMENT

10-11 February 2025 AT NITS, NOIDA.

PROCEDURE

The Application has to be made through BIS "Training Portal" as explained below

VISIT the **E-BIS Website:** www.manakonline.in

CLICK on the "**Training**" Head

LOGIN by clicking on the blue "**LOGIN**" button on the top right corner

SIGNUP by clicking on "**SIGNUP**" on the Member Login Page if you are not a member otherwise "**SIGN IN**" using your credentials

FILL OUT all the fields and click on "**REGISTER**" and complete the registration process.

CHOOSE the course you want to apply for, fill in the required information and "**PAY**" the requisite fee.

For any further queries, you may contact:

Smt. Madhurima Madhav
Scientist-E/Director (NITS)
madhurima@bis.gov.in
Mobile: 9560886417

Shri Rishabh Sharma
ME (NITS)
nits@bis.gov.in
Mobile. 8196040400



राष्ट्रीय मानकीकरण प्रशिक्षण संस्थान, नौएडा
NATIONAL INSTITUTE OF TRAINING FOR STANDARDIZATION, NOIDA
भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Nomination Form

Name of the Programme			
Date of the Programme		Venue:	
Sponsoring Organization (OR In Individual Capacity) with complete Address			
Telephone /Mobile Number			
Organization/Firm GST No.			
Email ID			

Participants Details

Sl. No.	Name (IN CAPITAL LETTERS)	Designation	Contact No.	Email
1.				
2.				
3.				
4.				
5.				

Will you stay in Hostel?		If Yes, Please mention the date and time					
Yes	No	Arrival	Date	Time	Departure	Date	Time

Details of Payment (in Rupees)

Training Fees *	Hostel Charges *	GST ##	Discount, if any	Total amount

Mode of Payment

Name of Bank	UTR No. & Date of transaction # (for NEFT/Net banking/ IMPS/UPI payment)	Amount (in Rs.)

* For Training/hostel fees, see NITS Training Calendar at BIS website www.bis.gov.in. (Stay in hostel is charged on Night stay basis).

For payments by NEFT, Payment should be made to Bureau of Indian Standards, Savings A/c No. 712210100000650, Bank of India, Sec-62 Noida, Branch Code 7122, IFSC Code BKID0007122.

NITS GST No. 09AAATB0431G2Z8, SAC Code: 999294 Applicable GST@ 18% on Training fee and Hostel fee.

Date: _____

Signature and Seal _____

The nomination form should preferably be scanned and e-mailed to nits@bis.gov.in, hnits@bis.gov.in and reach NITS at least one week before the programme date. For sending hard copy may be addressed to:

**Head, National Institute of Training for Standardization (NITS), Bureau of Indian Standards, A
– 20 & 21, Institutional Area, Sector – 62, NOIDA - 201309, U.P.**

Phones: 0120 – 4670227, 4670232, Email: nits@bis.gov.in, hnits@bis.gov.in, Website: <http://www.bis.gov.in>

Important:

1. Participants are requested to get the confirmation from NITS, whether, nomination has been accepted or not **before attending the programme.**

2. Rules for Refund of Training & Hostel Fees:

- A refund of full fees shall be made when cancellation/withdrawal of nomination is made **at least 15 days** in advance of the date of the training.
- Cancellation/withdrawal of nomination is made **less than 15 days** in advance of the date of the training programme or is not informed, a **cancellation charge of 25%** of the training fees would be levied. The balance amount after deducting the cancellation charges would be returned.



राष्ट्रीय मानकीकरण प्रशिक्षण संस्थान
National Institute of Training for Standardization



Reach Us

National Institute of Training for Standardization
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