

Capsule Course on National Building Code of India 2016

"<u>Structural Design</u>" 13 - 15 February 2024



BUREAU OF INDIAN STANDARDS

Ministry of Consumer Affairs, Food & Public Distribution Government of India **National Building Code of India 2016 (NBC 2016)** is a prestigious publication of Bureau of Indian Standards (BIS) which is widely used by the various stakeholders, such as building regulatory departments, government construction departments, builders/developers, private construction agencies/contractors, building material manufacturers and suppliers, building professionals (like civil engineers, structural engineers, architects, urban designers, landscape architects, town planners and building services engineers) and consultants, academic institutions and R&D organizations.

NBC 2016 is intended to help regulate and guide the building construction activity in the whole of the country, particularly the municipal corporations, municipalities, development authorities and other local bodies, public works departments and other construction departments and agencies dealing with land development and building construction. NBC 2016 thus serves as a model for adoption by PWDs and other construction departments, local bodies and other construction agencies. The Code focuses on functionality, accessibility, sustainability and safety covering structural safety, fire safety, health safety and public safety. The Code covers aspects such as administration; development control rules; general building requirements; fire and life safety; selection of building materials; structural design using various material streams; construction project management, practices and safety; various building and plumbing services; sustainability in buildings and built environment; and asset and facility management.

The country is on the path of rapid urbanization and development. Considering the importance of the Code in ensuring quality and safety of the buildings and related infrastructure, it is important that various stakeholders contributing to building planning, design, construction and operation and maintenance are well aware of the provisions of NBC 2016 for judicious implementation of the provisions and intent of the Code. Bureau of Indian Standards (BIS), being the National Standards Body of the country through its training arm, the National Institute of Training for Standardization (NITS) has designed the following short-term courses on NBC 2016 for national capacity building:

- 1. Accessibility in Buildings and Built Environment;
- 2. Fire and Life Safety;
- 3. Structural Design;
- 4. Soil and Foundation Engineering;
- 5. Air Conditioning, Heating and Mechanical Ventilation; and
- 6. Plumbing Services.

Learning Objectives

- Bridging the competence gap in the skills of personnel currently involved & working with the municipal corporations, municipalities, development authorities, public works departments and other construction agencies, builders/developers, building professionals, etc. involved in land development and building construction activities.
- Making participants skilled enough to be achieving proficiency in building design and construction including matters relating to quality, safety and accessibility.

Who should attend?

 All those concerned with city planning, building regulation, and planning, design, construction and maintenance of buildings and built assets and facilities.

Course Schedule & Duration

 The Course is of 3 days duration scheduled during 13 – 15 February, 2024 at NITS, Noida.

Fees

• Rs. 2,000/- for 3-day Course*

*Plus 18 % GST

How to Apply?

 Application has to be made through BIS Training Portal through the following link www.manakonline.in or through emailing filled up application form to nits@bis.gov.in.

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.

Training Module

Module for Trai	ining on National Building Code of India 2016 - Structural Design (13 – 15 February, 2024)								
Time	Торіс								
DAY 1: 13 February 2024									
10:00 h - 11:30 h	Introduction								
	Framework of NBC 2016 Chapters and Provisions								
	Loads, Forces and Effects								
11:30 h - 11:45 h	Tea Break								
11:45 h - 13:15 h	Masonry								
	Materials, masonry design including earthquakeresistant building design								
	Confined masonry								
13:15 h - 14:15 h	Lunch Break								
14:15 h - 15:45 h	Plain, Reinforced and Prestressed Concrete								
	Fundamentals of design and analysis								
	Limit state design								
47.471.48.881	Fundamentals of Liquid retaining RC structures								
15:45 h - 16:00 h	Tea Break								
16:00 h - 17:30 h	Plain, Reinforced and Prestressed Concrete								
	Fundamentals of prestressed concrete								
	Example and case study								
	DAY 2: 14 February 2024								
10:00 h - 11:30 h	Steel Design								
	Materials & basic concepts in steel structure design								
	Example and case study								
10:30 h - 11:45 h	Tea Break								
11:45 h - 13:15 h	Plain, Reinforced and Prestressed Concrete								
	Concrete making materials								
	Concrete durability, mix proportioning, production, placing and compaction, etc.								
	Concreting under special conditions								
	Quality control and acceptance criteria								
13:15 h - 14:15 h	Lunch Break								
14:15 h - 15:45 h	Timber and Bamboo								
15:45 h - 16:00 h	Tea Break								
16:00 h - 17:30 h	Discussions on defects in construction leading toadverse impact on structural								
	performance								
DAY 3: 15 February 2024									
10:00 h - 11:30 h	Prefabricated Concrete								
11:30 h - 11:45 h	Tea Break								
44 45 1 40 45 1	Glass and Glazing								
11:45 h - 13:15 h									
11:45 n - 13:15 n 13:15 h - 14:15 h	Lunch Break								
	Lunch Break Soil and Foundation								
13:15 h - 14:15 h									
13:15 h - 14:15 h	Soil and Foundation								
13:15 h - 14:15 h	Soil and Foundation • Subsurface investigation								

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

CAPSULE COURSE ON NBC 2016 – STRUCTURAL DESIGN 13 - 15 FEBRUARY, 2024 AT NITS, NOIDA

PROCEDURE

60万元 的现在分词,在1000年间,1000年

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:

Mohit Sharma
Course Coordinator
nits@bis.gov.in
Mobile: 8447267418



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

BUREAU OF INDIAN STANDARDS

Nomination Form

Name o	of the Program	nme												
Date of the Programme								Venue:	Venue:					
(OR In	oring Organiza Individual Complete Addr	apacity)						l						
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Email ID														
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Training Fees*			Hostel Charges *			GST ##]	Discount, if any		Total amount			
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	Name of Ba	ınk				Mode of Payment UTR No. & Date of transaction # Amount (in Rs.)								
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before the progaramme 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, www.bis.gov.in, hnits@bis.gov.in, http://www.bis.gov.in, http://www.bis.gov.in, http://www.bis.gov.in, hnits@bis.gov.in, hnits@bis.gov.in, hnits@bis.gov.in, hnits@bis.gov.in, http://www.bis.gov.in, <a

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) 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.
- b) 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.
- c) Hostel fees if any, paid in advance shall be returned in full.



Reach Us

National Institute of Training for Standardization Bureau of Indian Standards A 20&21, Institutional Area, Sector 62, NOIDA 201309, UP

Phone: +91 120 4670227 / 232

Email: nits@bis.gov.in, hnits@bis.gov.in



bis.gov.in

