





Capsule Course on National Building Code of India 2016-

Soil and Foundation Engineering

20-21 February 2025



NATIONAL INSTITUTE OF TRAINING FOR STANDARDIZATION

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:

- Accessibility in Buildings and Built Environment;
- 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 2 days duration scheduled during **16-17 January 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 a Two-day course).

How to Apply?

• Application has to be made through BIS Training Portal through the following link www.manakonline.in or by emailing the 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 a 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 a payment basis.

Training Module

Two-Day Capsule Course on National Building Code of India 2016 – Soil and Foundation Engineering Date: 20-21 February 2025

Venue: National Institute of Training for Standardization, Noida

Time	Торіс								
DAY 1: 20 February 2025 (Thursday)									
10:00 h - 11:30 h	Introduction								
	a. Decodete we freeze events in the equation								
	Regulatory framework in the country Overview of provisions on Soil and Soundation Engineering in NRS 2016.								
	Overview of provisions on Soil and Foundation Engineering in NBC 2016								
11:30 h - 11:45 h	Tea Break								
11:45 h - 13:15 h	Sub-surface Investigation								
	Necessity of sub-surface investigation								
	Stages of investigation								
	Field investigation								
	Boring								
	• Sampling								
	• In-situ testing								
	- m sica cesting								
13:15 h - 14:15 h Lunch Break									
14:15 h - 15:45 h	Sub-surface Investigation								
	Laboratory testing of soil								
	Classification and identification of soil								
	Determination of bearing capacity								
	Evaluation of liquefaction potential of soil								
	General requirements for foundations								
	Selection of foundation								
	Preparation and analysis of Sub-surface Investigation reports								
15:45 h - 16:00 h	Tea Break								
16:00 h - 17:30 h	Shallow Foundations								
	Pad or spread and strip foundations								
	Raft foundations								
	Ring and shell foundations								
	Shallow foundations on rocks								

Training Module

Two-Day Capsule Course on National Building Code of India 2016 – Soil and Foundation Engineering Date: 20-21 February 2025

Venue: National Institute of Training for Standardization, Noida

Time Topic									
DAY 2: 21 February 2025 (Friday)									
10:00 h - 11:30 h Deep Foundations									
	Pile foundations								
	Static load test of piles								
	NDT test of piles								
	Pile foundations on rocks								
11:30 h - 11:45 h	Tea Break								
11:45 h - 13:15 h	Ground Improvement								
	Stone columns								
	Pre-consolidated vertical drains								
	Use of geo-synthetics and geo-textiles								
	Soil nails and rock anchors								
13:15 h - 14:15 h	Lunch Break								
14:15 h - 15:45 h	Case Studies								
15:45 h - 16:00 h	Tea Break								
16:00 h - 17:30 h	Discussions – Special Projects, Experiences & Learnings								



CAPSULE COURSE ON NBC 2016 – Soil and Foundation Engineering

20-21 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 Course Coordinator nits@bis.gov.in Mobile. 8196040400



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

Nomination Form

Name	of the Program	nme											
Date of the Programme						Venue:							
Sponsoring Organization (OR in Individual Capacity) with complete Address													
Telephone / Mobile Number													
Organization/Firm GST No.													
Email ID													
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2.													
3.													
4.													
5.										<u> </u>			
Wi	ll you stay in l	Hostel?				If Ves. D	lease me	ention the d	late and time				
Yes		No	No Arrival				Time			Date Time			
					s of Pa	ayment (in R	upees)						
Training Fees*			Hostel C	harges *		GST ##		D	Discount, if any		Total amount		
					Mod	e of Payment							
Name of Bank					Wiou	UTR No. & Date of transaction # (for NEFT/Net banking/ IMPS/UPI payment)					Amount (in Rs.)		
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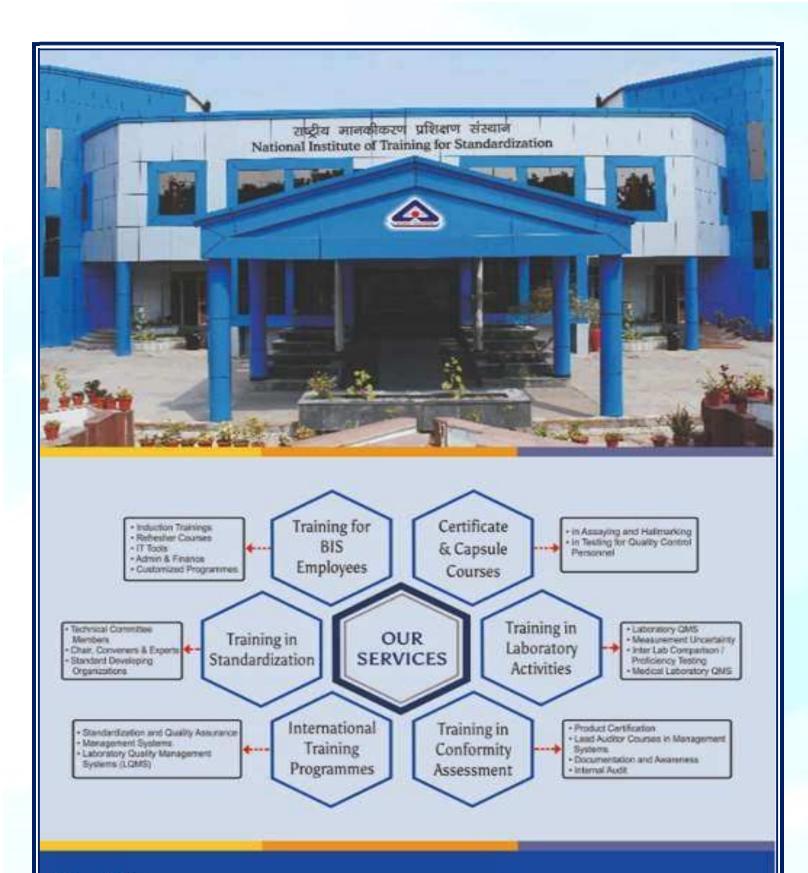
The nomination form should preferably be scanned and e-mailed to nits@bis.gov.in, hnits@bis.gov.in, and reach NITS at least one week before the programme date. For sending hard copy may be addressed to:

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) 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

