



***Capsule Course on
National Building Code of India
2016***

**“Soil and Foundation Engineering”
08 – 09 August 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 2 days duration scheduled during **08 – 09 August, 2024** at **NITS, Noida**.*

Fees

- *Rs. 1,500/- for 2-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 at its campus at:
National Institute of Training for Standardization
A-20&21, Institutional Area
Sector 62, Noida
Pin 201301
(Uttar Pradesh)*

Training Module

Module for Training on National Building Code of India 2016 – Soil and Foundation Engineering	
Time	Topic
DAY 1: 08 August 2024	
10:00 h - 11:30 h	Introduction <ul style="list-style-type: none">• Regulatory framework in the country• 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 <ul style="list-style-type: none">• Necessity of sub-surface investigation• Stages of investigation• Field investigation• Boring• Sampling• In-situ testing
13:15 h - 14:15 h	Lunch Break
14:15 h - 15:45 h	Sub-surface Investigation <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Pad or spread and strip foundations• Raft foundations• Ring and shell foundations• Shallow foundations on rocks

Training Module

Module for Training on National Building Code of India 2016 – Soil and Foundation Engineering

Time	Topic
DAY 2: 09 August 2024	
10:00 h - 11:30 h	Deep Foundations <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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



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

**CAPSULE COURSE ON NBC 2016 –
SOIL AND FOUNDATION ENGINEERING
08 – 09 AUGUST, 2024 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 Yajur Digvijay Singh Brar
Course Coordinator
nits@bis.gov.in
Mobile: 9463049901



राष्ट्रीय मानकीकरण प्रशिक्षण संस्थान, नोएडा
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.
- Hostel fees if any, paid in advance shall be returned in full.



राष्ट्रीय मानकीकरण प्रशिक्षण संस्थान
National Institute of Training for Standardization



Reach Us

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