





Capsule Course on National Building Code of India 2016Soil and Foundation Engineering

07-08 November 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;
- 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 **07-08 November 2024** at **NITS, Noida**.

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 201301 (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: 07-08 November 2024

Venue: National Institute of Training for Standardization, Noida

Time	Topic									
DAY 1: 07 November 2024 (Thursday)										
10:00 h - 11:30 h	Introduction									
	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									
	Necessity of sub-surface investigation									
	Stages of investigation Field investigation									
	Field investigation Reging									
	Boring Sampling									
	Sampling In situ testing									
13:15 h - 14:15 h	In-situ testing Lunch Break									
13:13 h - 14:13 h 14:15 h - 15:45 h	Sub-surface Investigation									
14.13 11 - 13.43 11	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: 07-08 November 2024

Venue: National Institute of Training for Standardization, Noida

Time	Topic										
DAY 2: 08 November 2024 (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										
	Editor 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

07-08 November 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:

Shri Manish Kumar Shukla Graduate Engineer Trainee (NITS) Manishshukla.ms79@gmail.com Mobile. 7007045055 Smt. Madhurima Madhav Scientist-E/Director (NITS) madhurima@bis.gov.in Mobile: 9560886417



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

Nomination Form

Name	of the Program	me											
Date of the Programme						Venue:							
(OR in	oring Organiza Individual Ca omplete Addre	pacity)											
Teleph	one /Mobile N	lumber											
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Email	ID												
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2.													
3.													
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5.													
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Will you stay in Hostel? Yes			No	Arrival				Time			Date Time		
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Training Fees *		Hostel Charges *			GST ##			Discount, if any		Total amount			
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Date:								Si	gnature and Seal:_				

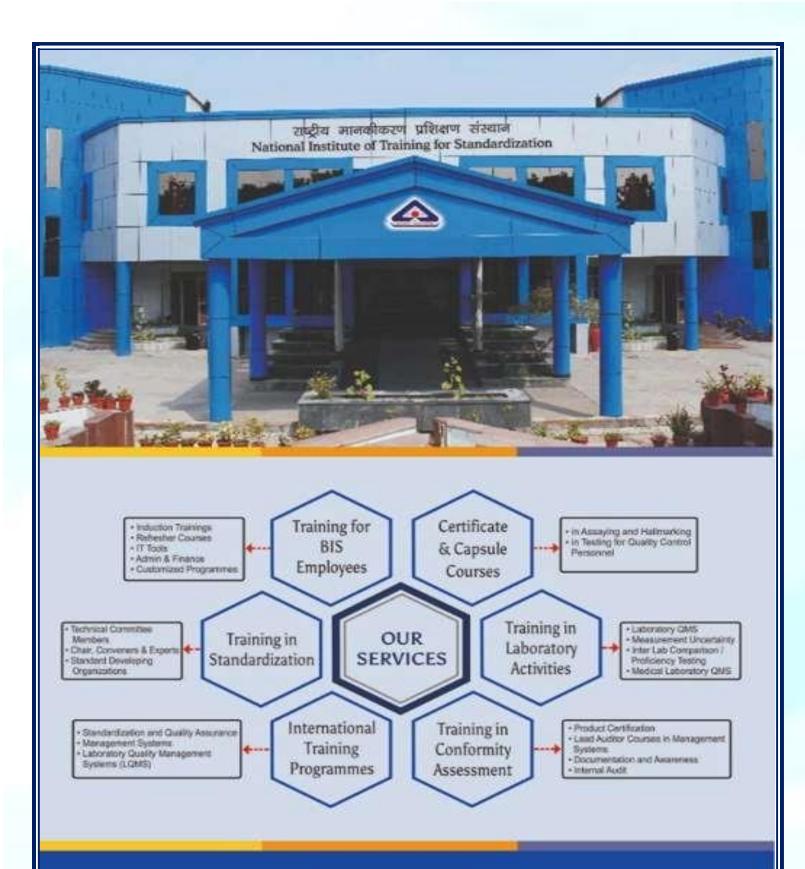
The nomination form should preferably be scanned and e-mailed to mits@bis.gov.in, hnits@bis.gov.in. and reach NITS at least one week before the programme date. For sending hard copy may be addressed to:

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

