



***Capsule Course on  
National Building Code of India 2016 –  
“Structural Design”***

***28 – 30 August 2025  
at HYBO, BIS, Hyderabad***



**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:

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 **28 – 30 August, 2025** at **HYBO, BIS, Hyderabad**.*

### **Fees**

*Rs. 2,000/- plus applicable GST (for three-day course)*

### **How to Apply?**

- *Application has to be made through BIS Training Portal through the following link **[www.manakonline.in](http://www.manakonline.in)** or through emailing filled up application form to **[nits@bis.gov.in](mailto: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 HYBO, BIS, Hyderabad:*  
**HYDERABAD BRANCH OFFICE**  
**Plot No.1, Survey No.367/1, ZTS-NFC Main Road,**  
**Industrial Development Park,**  
**Moula-Ali, Hyderabad-500 040**

## Training Module

### National Building Code of India 2016 - Structural Design (16 – 18 July, 2025)

<i>Time</i>	<i>Topic</i>
<b>DAY 1: 28 August 2025 (Thursday)</b>	
<b>10:00 h - 11:30 h</b>	<b>Introduction</b> Framework of NBC 2016 : Chapters and Provisions Loads, Forces and Effects
<b>11:30 h - 11:45 h</b>	<b>Tea Break</b>
<b>11:45 h - 13:15 h</b>	<b>Masonry</b> Materials, masonry design including earthquake resistant building design Confined masonry
<b>13:15 h - 14:15 h</b>	<b>Lunch Break</b>
<b>14:15 h - 15:45 h</b>	<b>Plain, Reinforced and Prestressed Concrete</b> Fundamentals of design and analysis Limit state design Fundamentals of Liquid retaining RC structures
<b>15:45 h - 16:00 h</b>	<b>Tea Break</b>
<b>16:00 h - 17:30 h</b>	<b>Plain, Reinforced and Prestressed Concrete</b> Fundamentals of prestressed concrete Examples and case studies
<b>DAY 2: 29 August 2025 (Friday)</b>	
<b>10:00 h - 11:30 h</b>	<b>Glass &amp; Glazing</b>
<b>10:30 h - 11:45 h</b>	<b>Tea Break</b>
<b>11:45 h - 13:15 h</b>	<b>Plain, Reinforced and Prestressed Concrete</b> Concrete making materials Concrete durability, mix proportioning, production, placing and compaction, etc. Concreting under special conditions Quality control and acceptance criteria
<b>13:15 h - 14:15 h</b>	<b>Lunch Break</b>
<b>14:15 h - 15:45 h</b>	<b>Timber and Bamboo</b>
<b>15:45 h - 16:00 h</b>	<b>Tea Break</b>
<b>16:00 h - 17:30 h</b>	<b>Discussions on defects in construction leading to adverse impact on structural performance</b>
<b>DAY 3: 30 August 2025 (Saturday)</b>	
<b>10:00 h - 11:30 h</b>	<b>Prefabricated Concrete</b>
<b>11:30 h - 11:45 h</b>	<b>Tea Break</b>
<b>11:45 h - 13:15 h</b>	<b>Steel Design</b> Materials & basic concepts in steel structure design Examples and case studies
<b>13:15 h - 14:15 h</b>	<b>Lunch Break</b>
<b>14:15 h - 15:45 h</b>	<b>Soil and Foundation</b> Subsurface investigation Concepts of foundation design
<b>15:45 h - 16:00 h</b>	<b>Tea Break</b>
<b>16:00 h - 17:30 h</b>	<b>Open Discussion and Clarification</b>





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

**CAPSULE COURSE ON NATIONAL BUILDING CODE OF INDIA 2016 –  
STRUCTURAL DESIGN  
28 – 30 AUGUST, 2025 AT HYBO, BIS, HYDERABAD**

**PROCEDURE**

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

**VISIT** the E-BIS Website: [www.manakonline.in](http://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 Yajur Digvijay Singh Brar  
ME & Course Coordinator (NITS)  
[nits@bis.gov.in](mailto:nits@bis.gov.in)  
Mobile: 9463049901



## 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](mailto:nits@bis.gov.in), [hnlts@bis.gov.in](mailto:hnlts@bis.gov.in)



[bis.gov.in](http://bis.gov.in)

