



PG Program in
**RCC STRUCTURE &
BIM TECHNOLOGY**

STRUCTUREX PVT. LTD.

ISO 21001 : 2018 Certified Company
MSME Certified
7+ Year in Industry

INTRODUCTION

we are designer engineer architecture planner technical specialists and trainer. we operate in the innovation and revolutionary changing field of designer and engineering construction installation and infrastructure educational services rank top in relate with civil/structure/infrastructure



We have a global community of engineers, technician and expert to deliver quality of training and services community of 10000+ and still counting Our trainee are from South east Asia Europe, Australia and UAE.

Our corporate training program and engineering educational services ranked top in INDIA and all over the world by most recognized organizations. We provide courses relate with civil/structural/infrastructure engineering.

ABOUT PROGRAM

PG Diploma in RCC Structure & BIM Technology

is a full flange training program which enable you to carrier in different technical positions due to technical advancement in design and engineering worldwide professional qualification are not satisfying current MNC company job demand so structurex department of corporate training design this course for professional, fresh Graduate and Technical Specialist. Real challenge for Engineers and technical

specialist are increasing day by day due to project complexity and environment factor by adapting data driven technology this course enable you to accept that challenges



STRUCTURE ANALYSIS & DESIGN

RCC STRUCTURE Analysis & Design is a complex process of implementing engineering solving complex problem and challenge. n this program we follow steps by steps analysis and design process with theory codes concept and software. We also focus on sustainable technology and digital twins, on current industry Demand . Performing Deep Research with various national& International Code of Practice , Research and Journals.

Building Information Modeling (BIM) is the holistic process of creating and managing information for a built asset.Based on an intelligent model and enabled by a cloud platform, BIM integrates structured, multi-disciplinary data to produce a digital representation of an asset across its lifecycle, from planning and design to construction and operations.

PROGRAM OUTLOOK

PG in RCC Structure & BIM Technology

Learning Module Detail

08 Months DURATION	160-170 TOTAL HOURS	10+ PROJECTS	IS/ACI/ASCE/BS CODE STANDARDS
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Program Overview

This 8-month, industry-focused program is designed for civil and structural engineers who want to become composite Structural & BIM Design Engineers. It combines core RCC design principles with hands-on training on CSI ETABS, CSI SAFE, SAP2000, Autodesk Revit, and Autodesk Navisworks. Learners gain practical skills in structural analysis, detailing, 3D modelling, and 4D/5D BIM integration, backed by global code exposure and real-world project work.

Curriculum at a Glance

- ▶ Module 01 — Theory & Code of Practice
- ▶ Module 02 — Analysis & Design of RCC Building (CSI ETABS)
- ▶ Module 03 — Checks on Superstructure (CSI ETABS)
- ▶ Module 04 — Sub-structure, Slab & Staircase Design (CSI SAFE)
- ▶ Module 06 — BIM Technology: 4D & 5D BIM (Revit + Navisworks)
- ▶ Module 07 — Detailing of Structure (CSI Detailer / RCDC)
- ▶ Module 08 — Infrastructure Projects (CSI SAP2000)
- ▶ Module 09 — Project Report & Final Submission

Software & Tools Covered

CSI ETABS • CSI SAFE • SAP2000 • Autodesk Revit (Structure) • Autodesk Navisworks • CSI Detailer / RCDC

Design Codes & References (Only Required code will be taken as reference for particular use)

IS 456 • IS 875 • IS 1893 • IS 800 • IS 13920 • IS 16700 | ACI 318 • BS 8110 • CEB-FIP 2010 • UBC 97 • ASCE 7-16 • FEMA • Eurocode

Live Projects Include (Note**Building Upto G+35 only)

Residential Structure • Hospital Structure • Apartment Building • Commercial Complex • Tower Building • Overhead & Underground Water Tank • Dome Structure • Retaining Wall • Transmission Tower

PROCESS INVOLVE TO DELIVER PROJECTS



Report (Management)



Design (Codes and Concept)



Analysis (Codes and conceptual)



BIM (Building information modelling)



Concept design

Learning Module

Module 01 — Theory & Code of Practice

Conceptual Foundation | Structural Theory + Global Codes

- ▶ Structural fundamentals: FEA/FEM methods
- ▶ Shell and membrane concepts, diaphragm modal analysis
- ▶ Earthquake engineering, seismic analysis, and wind analysis
- ▶ Indian codes: IS 456, IS 800, IS 875 (Parts 1–3), IS 13920, IS 1893, IS 16700 introduction
- ▶ International codes: BS 8110, ACI 318, CEB-FIP 2010, UBC 97, ASCE 7-16, FEMA introduction

Module 02 — Analysis & Design of RCC Building

CSI ETABS

- ▶ Gravity load analysis, equivalent static analysis, and wind static analysis
- ▶ FEM analysis, modal analysis, and dynamic behavior
- ▶ Wind dynamic analysis, response spectrum, and time history analysis
- ▶ Pushover analysis and P-Delta analysis
- ▶ Torsional irregularity and creep & shrinkage analysis
- ▶ Axial column shortening analysis and auto construction sequence analysis
- ▶ Vibration analysis
- ▶ Design of beams, columns, and flexural walls

Module 03 — Checks on Superstructure

Code-based Verification

- ▶ Stability checks as per code
- ▶ Lateral stability check and vertical deflection check
- ▶ Storey drift check and overturning moment check
- ▶ Deflection control check and modal analysis checks

Learning Module

Module 04 — Sub-structure, Slab & Staircase Design

CSI SAFE

- ▶ Software algorithm, capabilities, strengths, and limitations
- ▶ Modelling of foundations, basements, and footings (2D and 3D import methods)
- ▶ Design of strips and FEM-based slab design methodology
- ▶ Design of slabs, rafts, and piles
- ▶ Punching shear reinforcement design (stud rails), detailing, and reporting techniques
- ▶ Differential settlement of foundations and its control
- ▶ Combined complex foundation systems, punching shear, and nonlinear uplift
- ▶ Soil-structure interaction and mastering result interpretation

Module 05 — BIM Technology: 4D & 5D BIM

Autodesk Revit(structure) + Autodesk Navisworks

- ▶ ISO standard for BIM
- ▶ BIM (Building Information Modelling) for structure
- ▶ BIM analysis: energy, wind, and heat analysis
- ▶ Advanced BIM: 4D scheduling/sequencing/cost/quantity integration

Module 06 — Detailing of Structure

CSI Detailer / RCDC

- ▶ Detailing techniques and rebar detailing of structure
- ▶ Schedule preparation, reporting, and presentation

Module 07 — Infrastructure Projects

CSI SAP2000

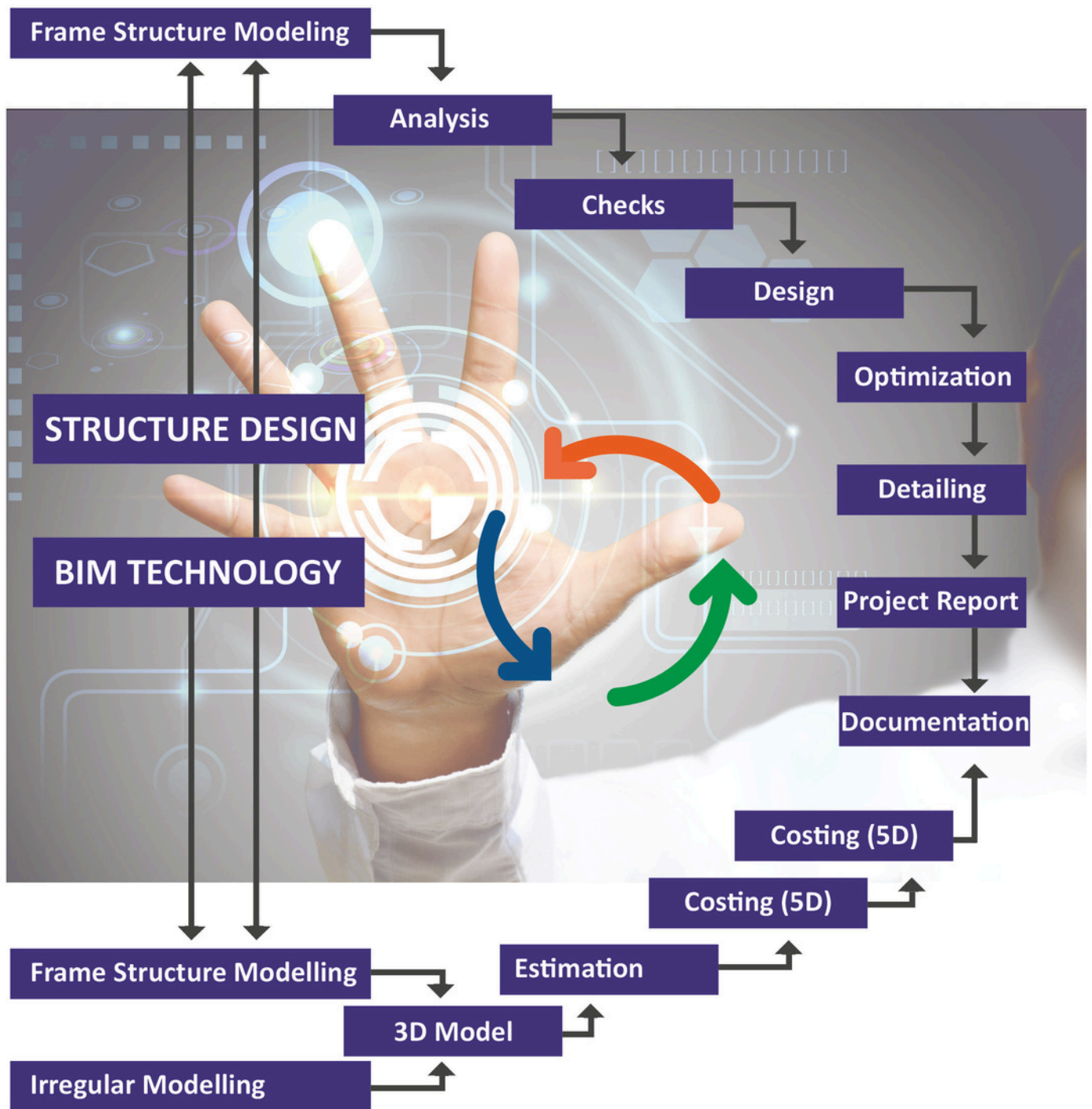
- ▶ Design, analysis, and detailing of overhead water tanks
- ▶ Design, analysis, and detailing of underground water tanks
- ▶ Retaining wall design
- ▶ Transmission tower design

Module 08 — Project Report & Final Submission

Cross-software Collaboration

- ▶ Projects and collaboration between different software platforms
- ▶ Finalizing project report and proof-checking

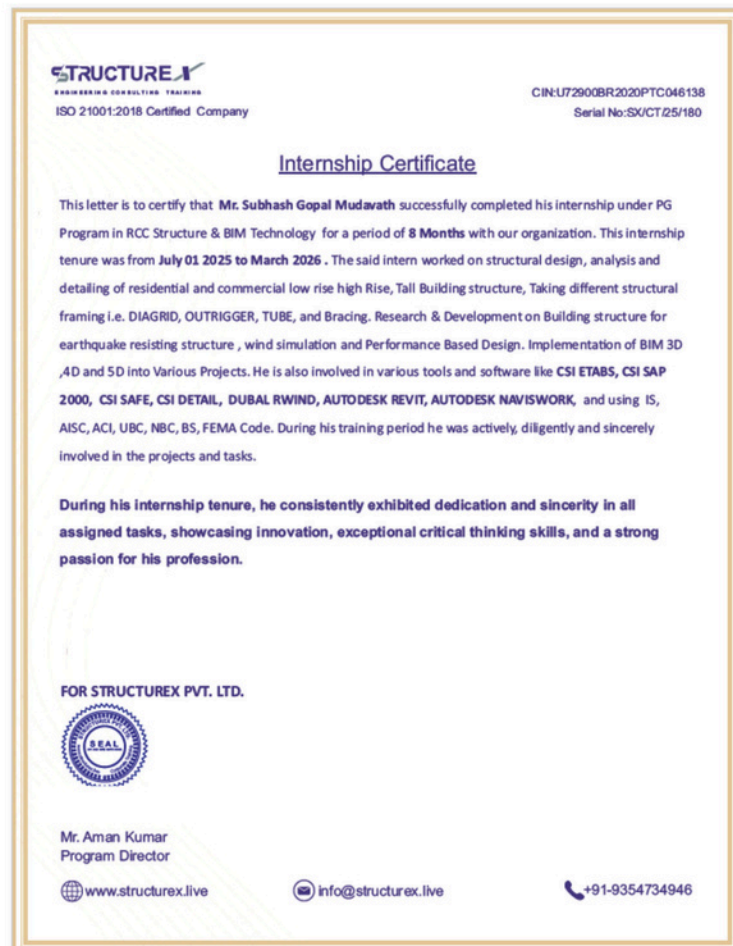
STRUCTURE & BIM COLLABORATION



CERTIFICATE

List of certificate (T & C Applied)

1. PG Certificate
2. 8 Month Internship Certificate
3. Project Experience Certificate(only after submission of projects)



Course Delivery Steps

From enrollment to certification, here's exactly how your learning journey unfolds over the 8-month program.

01

1. Enrollment & Registration

Apply online at structurex.live/pg-diploma-registration, complete document verification, and confirm your seat with the program fee payment via the secure gateway.

02

2. Onboarding & LMS Access

Receive your login credentials for the StructureX Academy LMS (academy.structurex.live), get access to the batch WhatsApp group, and attend a welcome/orientation session outlining the roadmap, schedule, and support channels.

03

3. E-Learning + Live Interactive Classes — Module 01 to 09

Progress through nine structured modules covering RCC theory & code, superstructure & substructure design, and structural checks, via live instructor-led sessions on CSI ETABS, CSI SAFE, and SAP2000, aligned with IS, ACI, ASCE, and BS/Eurocode provisions.

04

4. Hands-on Live Projects

Apply concepts directly on 10+ real-world projects — from a G+6 residential structure to a G+35, Water Tank, — reinforcing each module with practical, project-based learning.

05

5. BIM Integration — 4D & 5D

Move from structural design into Building Information Modelling using Autodesk Revit and Navisworks, learning 4D construction sequencing and 5D cost/quantity integration.

06

7. Doubt Resolution & Mentorship

Get continuous faculty support through live Q&A sessions, dedicated mentorship touchpoints, and lifetime access to recorded sessions for revision at your own pace.

07

8. Project Report Submission

Compile and submit your final project report covering cross-software collaboration between structural and BIM platforms, reviewed and evaluated by faculty.

08

9. Certification & Career Support

Earn your PG certification recognized under StructureX, MSME & ISO partnerships, and access 100% career support including mock interviews, portfolio building, and placement assistance.

EXCLUSIVE CAREER SUPPORT

From Learning to Landing the Job — Every StructureX Learner Gets It

100%

Career Support

2+

Guided Career Sessions

1000+

Professionals Trained

4.8 ★

Google Rating

What's Included

Resume & Portfolio Building

One-on-one guidance to build an industry-ready resume and project portfolio showcasing your live project work and software proficiency.

LinkedIn & Professional Branding

Optimize your LinkedIn profile and professional presence to get noticed by recruiters and industry connections in the AEC space.

Mock Interviews

Practice technical and HR interviews with experienced faculty, with structured feedback to sharpen your interview performance.

Guided Career Sessions

10 dedicated career mentorship sessions covering job search strategy, salary negotiation, and industry expectations.

Employer & Placement Connect

Access to StructureX's industry network and placement assistance to connect you with hiring companies and consultancies.

Lifetime Alumni Network

Stay connected with the StructureX alumni community for referrals, mentorship, and ongoing career opportunities beyond the program.

Note Carrer opportunity depend on marketing opening and learner performance.**

Structurex do not guarantee of placement after taking this course.

CAREER PROSPECTIVE

GLOBAL HIRING COMPANY

	 Member of the SNC-Lavalin Group		
	 Expect More. Experience Better.		
			
			
	 Design & Consultancy for culture and built assets		

CAREER OUTCOME

STRUCTURAL
ENGINEER

BIM
ENGINEER

CIVIL DESIGN
ENGINEER

BIM
MODELLER

STRUCTURAL
CONSULTANT

FEATURES , ELIGIBILITY & FEE STRUCTURE

Key Features:

1. Mode of Program: E-Learning + Online Live session
2. Platform : MS - Team or other
3. Duration: 08 Month
4. Recording of live class
5. Access of E-Library
6. 1.5 Year access of e-learning

Qualification Needed:

Bachelor/Master/PHD in civil engineering or relevant work experience in AEC Industry

Program Fee:

INR 75,000/- (Including 18% GST)

Other then Indian & African subcontinent : USD 1200/-

For Training & Refund Policy visit our page
<https://structurex.live/course-and-certification-term-condition/>

Contact Us:

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THANKS FOR BEING WITH US

Online Program For Civil/Mechanical Program

- ① PG in High Rise & Tall Structure
- ② PG in Bridge Design & Technology
- ③ PG in Steel Structure & BIM Technology
- ④ PG in PM & BIM Advance

For more Information Visit



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