

## **Bachelor of Science in Architecture (B.Arch) at North South University (NSU)**

### **Overview**

The **Bachelor of Science in Architecture (B.Arch)** at **North South University (NSU)** is a dynamic and interdisciplinary program that blends art, science, and technology to shape future architects. The program emphasizes creativity, sustainability, and practical application, preparing students to design and build innovative structures while addressing societal and environmental challenges.

### **Program Structure & Curriculum**

The **B.Arch** program follows a rigorous curriculum that integrates architectural theory, design principles, technical skills, and hands-on studio work. The coursework is designed to meet international standards and prepare students for a successful career in architecture.

#### ***Core Courses:***

- Architectural Design Studios I-VII
- Architectural History & Theory
- Building Materials & Construction
- Structural Systems in Architecture
- Environmental Control Systems
- Sustainable Architecture & Green Building Technologies
- Urban Design & Planning
- Digital Architectural Visualization
- Interior Architecture & Space Planning
- Landscape Architecture

#### ***Mathematics & Science Courses:***

- Engineering Mathematics for Architects
- Building Physics & Environmental Science
- Structural Mechanics & Strength of Materials
- Acoustics & Lighting in Architecture

### ***Specialized Electives:***

Students can customize their studies by selecting from various electives, such as:

- Advanced Computational Design & Parametric Architecture
- Architectural Conservation & Heritage Management
- Smart Cities & Urban Resilience
- High-rise & Commercial Building Design
- Bioclimatic & Vernacular Architecture

### ***Capstone Project & Internship:***

The program requires students to complete a final-year capstone project, where they develop comprehensive architectural designs based on real-world challenges.

Additionally, students undergo internships with top architecture firms, urban planning agencies, and construction companies to gain professional experience.

## **Faculty & Research**

The **Department of Architecture** at NSU comprises experienced faculty members with international academic and professional backgrounds. Faculty members actively engage in research areas such as:

- Sustainable & Green Architecture
- Urban Regeneration & Smart Cities
- Adaptive Reuse & Heritage Preservation
- Digital Fabrication & Computational Design
- Climate-Responsive Architecture

## **Laboratories & Facilities**

NSU provides state-of-the-art facilities to enhance architectural education and research, including:

- **Design Studios** equipped with modern drafting and modeling tools.
- **Digital Fabrication Lab** featuring 3D printers, CNC machines, and laser cutters.
- **Building Material & Construction Lab** for hands-on exploration of materials.
- **Environmental Simulation Lab** for energy efficiency analysis in building design.

- **Virtual Reality Lab** for immersive architectural visualization.

## Industry Collaboration & Career Prospects

The **B.Arch** program maintains strong partnerships with leading architecture firms, urban planning bodies, and construction industries. Graduates from this program have successfully pursued careers in top organizations such as:

- Arup
- Foster + Partners
- Zaha Hadid Architects
- Local and international urban planning and construction firms

Career opportunities for graduates include:

- Architectural Designer
- Urban Planner
- Interior Designer
- Landscape Architect
- Sustainable Building Consultant
- Heritage Conservation Specialist

## Extracurricular Activities & Competitions

Students are encouraged to participate in design competitions, exhibitions, and workshops. NSU students actively engage in:

- International Architecture Design Competitions
- Urban Design & Planning Workshops
- Sustainable Architecture Challenges
- Architectural Exhibitions & Conferences

The **Bachelor of Science in Architecture (B.Arch)** at **North South University (NSU)** is a premier program designed to produce visionary architects. With a well-structured curriculum, a strong research focus, industry collaborations, and advanced facilities, the program equips students with the knowledge and skills needed to excel in the evolving field of architecture.