

Department of Architecture and Planning

A Centenary Initiative of Indian Institute of Technology (BHU) Varanasi



Academic Program

Architecture is the art that provides us the physical environment we live in.

It is a deep expression of human civilization in a particular era and it endures and outlive us in forms of monuments that future generations will study and strive to understand.

This unique department will blend science and art to perfection and will deal with human technology.

Both architecture and planning will be conceived as discipline as well as profession.

The courses will be structured in a way that enhances the teaching-learning experience, giving the students in-depth technical knowhow, exposure to state of the art laboratories and freedom to apply their creative minds to the hilt.

The department will also draw strength from the sister departments and faculty members of mechanical, civil, electrical engineering, humanities and social sciences among others.

At present only two IITs namely IIT Roorkee and IIT Khargpur are having such a Department. Visualizing the large infrastructural development in the country, this Department will serve the society by producing able Architects and Planners.

Pertinent research area

Architectural design
Building Materials
Community and regional planning
Community and Behavioral studies in Planning
Green and sustainable habitat
Conservation of Heritage architecture.
Smart City and town planning

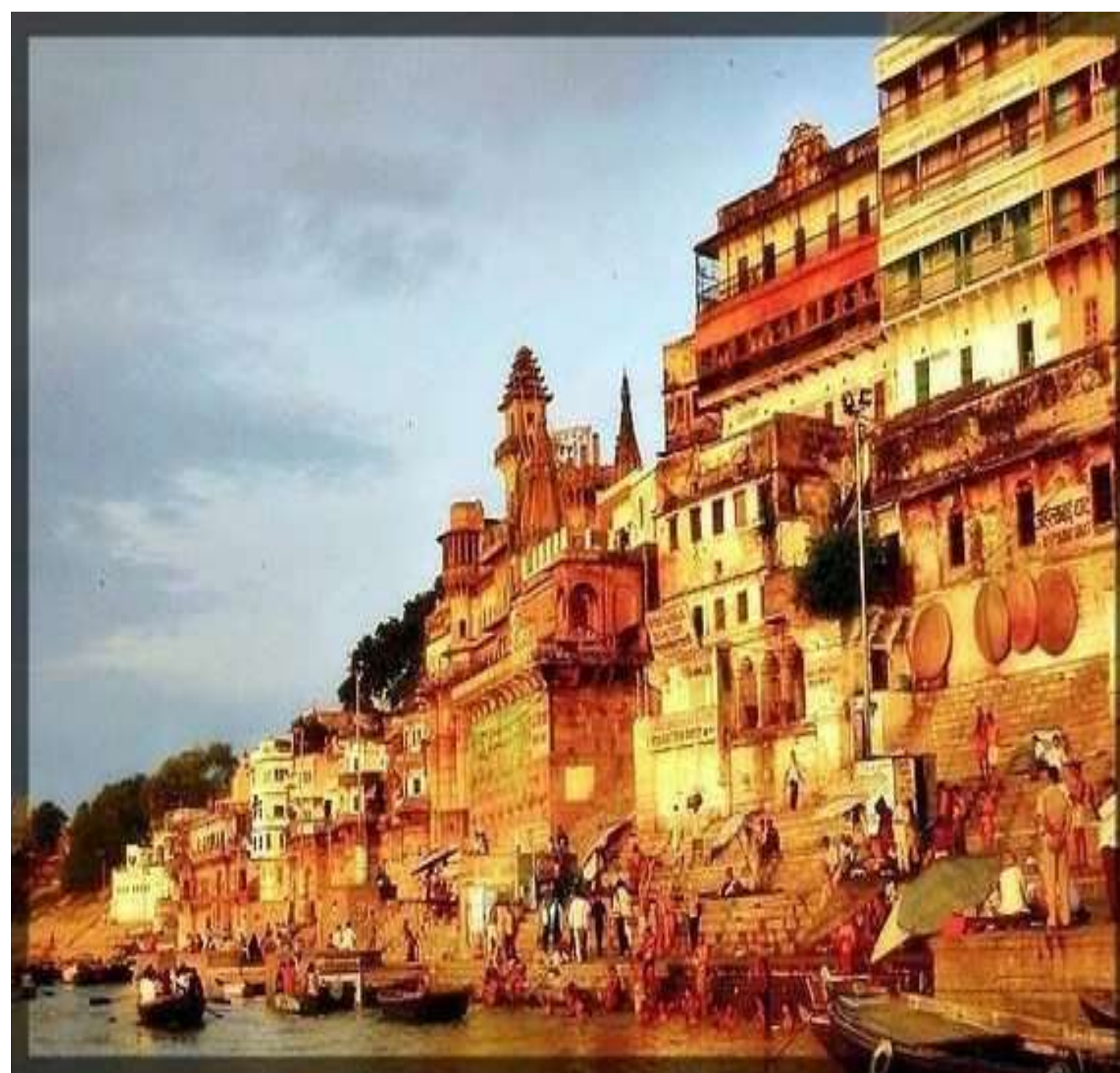
Objectives

Re-engineering of existing urban settlements to enhance their efficiency and functionality.
Research issues in development of Architectural blue print of urban settlements and cities.
Providing solutions for efficient use energy, water, and other resources
Protecting occupant health and improving employee productivity.
Reducing waste, pollution and environmental degradation.

National Priorities

According to the United Nations, by 2050, more than 80% of the world population (estimated to be 9.3 billion) will be living in urban areas.
The biggest contributors to this drastic change in the landscape of urban/rural population are the developing nations from Asia.
Over the next four decades (2010 to 2050), India will add another 497 million to its urban population.
The challenges brought on by this drastic increase in urban population among the developing economies will stretch the limits of how societies function and how they can sustain productive economic and socio-cultural activities among its citizens.
The latest advances in science and technology have to be brought to bear on these problems, without losing sight of the economics involved as well as the end-customer who will consume these technologies.

- The Varanasi urban agglomeration consists of seven urban sub-units, with an estimated urban population of about 3,676,841.
- However, since tourism is a very important sector for Varanasi, with over 3 million domestic and 200,000 foreign tourists visiting annually – there is a significant strain on city infrastructure.
- The department intends to deal with present problems and introduce efficient solutions.



- The department will also cater the services to various govt. departments and agencies like Archeological survey of India, Ministry of Culture, Housing and Urban planning departments etc..



Beneficiaries

- The department, by large, will benefit the whole society, but a few specific beneficiaries may be following:
- Urban and rural development bodies.
 - Departments of culture and tourism.
 - National construction agencies.
 - National Disaster Management Authority
 - Green and sustainable development agencies.
 - Smart Cities Mission.
 - State infrastructure development agencies.
 - Sanitation and health development agencies.
 - Industries.
 - Non-Government Organizations (NGOs) etc.

Time line

- BoG resolution on 30/11/2017 for creation of Department of Architecture and Planning.
- Senate resolution on 30/06/2018 for creation of Department of Architecture and Planning
- DAP proposal submitted to MHRD for funding under 18 DAP scheme.
- Notification for admission process in January 2019
- Admission for 20 B.Arch seats in July 2019.

Our Strength

- IIT (BHU) is a green campus with buildings having identical façade offering a natural architectural feeling. The planning of BHU is of a unique style.
- Sister departments like civil, electrical ,electronics etc. have immense knowledge to share.
- Department of Civil Engineering renders its consultancy services to various govt. and non- govt. agencies.
- These facilities will support the upcoming department in following ways :
 - ❑ Experienced faculties in planning and designing of the structures.
 - ❑ Well equipped laboratories of materials and computer modeling and simulations.
 - ❑ Advanced research facilities .
 - ❑ Proven long term relationships with agencies.
 - ❑ Availability of eco-friendly green space for creation of new department.
 - ❑ Good National and International connectivity
 - ❑ Heritage landmarks

Courses to be offered

1. Bachelor of Architecture:

- This is the first program to be started. In 2019, twenty students will be admitted, which will be raised to 120 in two years. The curriculum is structured for five years and is divided into two stages.
- The first stage consists of three years of full time study followed by practical training in professional offices or at construction sites for 20 weeks.
 - The second stage consists of full time study for one and a half year, whereby each student is required to write a research based dissertation, prepare for a seminar and present a design thesis along with the advanced level of compulsory and elective theory courses.
 - The students gradually learn that architecture has always evolved under the influence of at least four, occasionally conflicting, forces that is history and culture, social aspirations, climate and evolving technologies.

In later years following more programs will be started-

2. Bachelor of Planning

- Planning, development and management of human settlements is becoming an increasingly important task.
- As a result of technological advancements and integration of societies and economies of the world, planning of cities and regions has become very complex.
- Professionally trained town and country planners are therefore needed in order to evolve new options for the development and management of human settlements.
- This applies not only to the planning of metropolitan areas but also to small cities, towns and villages. Being the pioneering institution in these fields, the Indian Institute of Technology (Banaras Hindu University), Varanasi is planning to start the Bachelor of Planning programme.
- Students admitted to this four years intensive training programme are provided with broad knowledge and skills necessary to plan for integrated and balanced development of human settlements and areas of varying sizes.

3. Masters and Research Programs

- Department will offer masters and research programs in the leading areas of architecture and planning .