Global Initiative of Academic Network

Ministry of Human Resource Development
Government of India

HOUSING FOR ALL :

AN URBAN DISTRICTS AND AREA - BASED APPROACH TOWARDS SUSTAINABILITY

Venue - Continuing Education Centre,
Indian Institute of Technology, Roorkee

November 04-10, 2016

Organised By
Indian Institute of Technology Roorkee

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Registration
Register through the GIAN portal:
http://www.gian.iitkgp.ac.in/GREGN or
contact the program coordinator.

Introduction

The proposal is an attempt to understand the potential of a space and its interlinked areas as a whole to achieve sustainable urban development. In the quest for potential spaces that might mediate between the global challenges of climate change and the local structures in a specific setting, many research questions arise regarding the sustainable urban development. How it is affected by area based approach, from where to start, how to mediate between property and context, what all points should be considered and most important where the potential lies in interaction between a building and its district.

Comprehensive scientific study/workshop in this program will provide the much needed shift towards all the arising questions and area based approaches for sustainable urban development. The outcomes of this study/workshop is to be carefully calibrated into a structured document, which would ignite discussion among policy makers, citizens, academicians and researchers on the rationality of existing approach of area based planning and comparative analysis with the inclusive approach of urban district and area based planning.

Objectives

A building or a house is not only situated in a particular place, but also firmly bound up in the context of its district and city, an inseparable part of the cityscape and landscape. Sustainable urban development must enhance the quality of properties, locations, and processes, but where exactly do we start when contemplating the integration of a building into its setting? How can we mediate between a property and its context, and between the urban built structure and open spaces? Even in terms of energy demand, energy supply and livability it´s worthwhile taking a closer look and networking our knowledge at the building level with our knowledge about urban typologies, technical infrastructures, energy sharing models and the microclimate. What potential lies in the interaction between a building and its district? There are distinct goals to be achieved through an integrative contemplation of building and district. In the context of India's approach to provide housing for all; all these matters are of huge concern. The main point is always to design an urban realm with a high quality of life; however, in light of climate change, it is also important to improve the urban climate (ventilation/ thermal load/ water conservation) and to enhance energy efficiency by means of:

- Cybernetic building models (low tech instead of high tech) that draw on passive solutions for autochthonous building typologies,
- The networking of existing facilities,
- Harnessing as yet untapped potentials,
- Coupling energy-producing with energy-consuming buildings,
- Expanding the network to include regenerative elements.

In the quest for potential spaces that might mediate between the global challenges of climate change and the local structures in a specific setting, many research questions arise. Important there is to understand the theme of energy efficiency not as a technical standard, but rather as an intelligent solution tailored for a particular location.

Course Modules

Module A:
Housing for all

Module B:
Planning and Design of Housing

Module C:
Housing in a Community

Module D:
Resilience and Housing

Module E:
Housing for Poor

Module F:
Housing and Urban Environment

Expected participants

- Architects, Planners, Executives, engineers and researchers from manufacturing, service and government organizations including R&D laboratories.
- Student at all levels (B.E./B.TECH B.Arch/B.Plan/M.Arch/MURP/M.plan/M.Tech/PhD) or Faculty from reputed academic institutions and technical institutions.

About the Organising Institute

Indian Institute of Technology Roorkee is amongst the foremost institutes of national importance in higher technological education and applied research. Since its establishment, the Institute has played a vital role in providing the technical man power and know-how to the country and in carrying out research. The Institute ranks amongst the best technological institutions in the world and has contributed to all sectors of technological development. The institute offers Bachelor's Degree courses in 21 disciplines including Architecture and Engineering. It offers Post-Graduate Degree in 55 disciplines of Applied Science, Architecture & Planning, Engineering, Computer Applications and Business Administration.

Course Team

Patron

MHRD
GIAN

Course Coordinator

Dr. Arindam Biswas

International Expert

Prof. Dr.-Ing. Annette Rudolph-Cleff

** Other experts of National Repute will also join.*

How to reach

Roorkee is well connected to Delhi by rail and road. It is situated on National Highways 58 and 73. Easiest way to get to Roorkee is by train. Nearest Railway Station is in Roorkee, situated 3 Km. from the campus and nearest airport is Dehradun's Jolly Grant airport.

How to Register

Register through the GIAN portal:
http://www.gian.iitkgp.ac.in/GREGN
or contact the program coordinator.
The participation fees for taking the course is as follows:

Participants from abroad: **US $500**
Industry/ Research Organizations: **Rs. 15,000**
Academic Institutions: **Rs. 7,500**
Students: **Rs. 3,500**

The above fees include all instructional materials, computer use for tutorials, 24 hour free internet facility.

Accomodation

IIT Roorkee will provide accommodation to a limited number of participants on a first come first serve basis. Depending upon availability of rooms at the guest houses and hostels, accommodation will be provided on single/twin sharing basis.