





URBAN ANALYTICS EVALUATING AND MEASURING SUSTAINABILITY OF CITIES

(A NITI Aayog & GIAN collaborative)

Venue - Continuing Education Centre Indian Institute of Technology Roorkee

JUNE 04-09, 2018

Organised by:

Indian Institute of Technology Roorkee

International Expert Dr. Subhro Guhathakurta

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Registration

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

Overview

This course discusses the con-

cerns and challenges faced by

cities today. Apparently itaccommodates over half of the world's population. Our predominantly urbanworld has been made possible by farreaching institutional, organizational,infrastructural, and technological advances that have enabled high rates of productivitygrowth as well as improved public health. Yet, the increasing pace of growth of urbanpopulations is threatening to overwhelm scarce natural resources such as food, energy, and fresh water. Expansion of urban infrastructure and services is failing to keep pacewith urbanization leading to higher levels of pollution, congestion, and disruptions inessential services that is degrading quality of life in many cities. These impacts of rapidurbanization are being felt differentially across different parts of the world as well asamong different social groups within the same region. This course provides a criticalreview of these and other forces driving urban growth together with focused discussionsabout strategies that show promise of sustainable urban development. The review ofchallenges and possible solutions will be conducted within a comparative, cross-culturalframework. It will raise critical questions about the processes and substance ofsustainable planning while navigating through debates about the issues as they havecoalesced over almost a halfcentury.

Objectives

This course will provide students with knowledge and resources to: 1) understand the implications of urbanization for sustainable development; 2) appreciate the drivers ofurban growth and its uneven impact on different places and peoples; 3) evaluate the conditions of sustainability in different urban regions using conceptual and analytical tools; and 4) critically examine the current debates within sustainability as it relates tourban areas and be able to contribute to that debate.

Course Modules

The course would provide interactive learning platform in GIS

Module A

Understanding sustainability concepts and their evolution

Module B

State of sustainability in the world's cities(part I)

Module C

State of sustainability in the world's cities (Part II)

Module D

Planning for sustainable development: Tools and strategies (part I)

Module E

Support Planning for sustainable development: Tools and strategies (part II)

Module F

Public Participation in sustainable planning

Module G

Approach to be sustainable Indian city

Course Team

Patron

NITI Aayog, MHRD & GIAN

Course Coordinator
Dr. Arindam Biswas

International Expert

Dr. Subhro Guhathakurta

How to reach

Roorkee city is well connected to Delhi by rail and road.

It is situated on National Highways 58 and 73 and is on Amritsar-Howrah main rail route. Trains between Delhi and Roorkee are New Delhi-Dehradun-New Delhi Shatabdi Express and Dehradun-New Delhi-Dehradun Janshatabdi Express. The nearest airport is located at Jollygrant, (Dehradun). But most preferable airport nearest from Roorkee is the New Delhi International Airport which is about 180 kilometers away.

Expected Participants

- Planners, architects, geographers, engineers, executives and researchers from service and government organizations including R&D laboratories.
- Student students at all levels (BTech / B.Arch / M Arch/ MPlan / MSc / MTech / PhD) or Faculty from reputed academic institutions and technical institutions.

How to Register

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

Participants from abroad

US \$ 250

industry / Research Organizations

INR 10,000

Academic Institutions

INR 6000 Students

INR 3000

Accomodation

IIT Roorkee would provide accommodation to limited participants on first-come-first-served basis. Rooms would be provided depending on availability.