URBAN ANALYTICS
EVALUATING AND MEASURING SUSTAINABILITY OF CITIES
(A NITI Aayog & GIAN collaborative)

Venue - Continuing Education Centre
Indian Institute of Technology Roorkee

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Organised by:
Indian Institute of Technology Roorkee

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Overview
This course discusses the concerns and challenges faced by cities today. More than half the world’s population now live in urban regions. Our predominantly urban world has been made possible by far-reaching institutional, organizational, infrastructural, and technological advances that have enabled high rates of productivity growth as well as improved public health. Yet, the increasing pace of growth of urban populations is threatening to overwhelm scarce natural resources such as food, energy, and fresh water. Expansion of urban infrastructure and services is failing to keep pace with urbanization leading to higher levels of pollution, congestion, and disruptions in essential services that is degrading quality of life in many cities. These impacts of rapid urbanization are being felt differentially across different parts of the world as well as among different social groups within the same region. This course provides a critical review of these and other forces driving urban growth together with focused discussions about strategies that show promise of sustainable urban development. The review of challenges and possible solutions will be conducted within a comparative, cross-cultural framework. It will raise critical questions about the processes and substance of sustainable planning while navigating through debates about the issues as they have coalesced over almost a half-century.

Objectives
This course will provide students with knowledge and resources to: 1) understand the implications of urbanization for sustainable development; 2) appreciate the drivers of urban 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 to urban 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
Planning for sustainable development: Tools and strategies (part II)
Module F
Public Participation in sustainable planning
Module G
Strategies for making Indian cities more sustainable

Course Team
Patron
NITI Aayog, MHRD & GIAN

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

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

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Participants from abroad
US $ 250
Industry / Research Organizations
INR 10,000
Academic Institutions
INR 6000
Students
INR 3000

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

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 Janshtabadi Express. The nearest airport is located at Jollygrant, Dehradun. But most preferable airport nearest to Roorkee is the New Delhi International Airport which is about 180 kilometers away.