Overview
This course discusses the concerns and challenges faced by cities today. Apparently it accommodates over half of the world’s population. 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 to essential services that is degrading quality of life in many cities. These impacts of rapid urbanization are being felt differently 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 they relate to urban areas and be able to contribute to that debate.

Course Modules
The course would provide an 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

Registration
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.
- Student students at all levels (B.Tech / 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
Academic Institutions
INR 10,000
Academic Institutions
INR 8000
Students
INR 3000

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