

GLOBAL INITIATIVE OF ACADEMIC NETWORK [G I A N]

Scenario Analysis for Planners and Policymakers

OVERVIEW

This course teaches theories and tools of scenario analysis, a set of techniques useful for making plans and creating more sustainable future cities. Scenario analysis can be used to think about multiple facets of a problem simultaneously and for addressing the uncertain future in light of the limited cognitive and computational capacity of individuals and organizations. Urban planners and policymakers are adopting and extending scenario approaches to envision the future, analyze decisions, and identify robust strategies in situations as varied as comparing projected outcomes of alternative routes for highway investment, to making decisions in situations when formal regulatory mechanisms may be lacking. Such techniques can be particularly useful in exploring questions central to urban planning in India such as regulating greenfield development, financing affordable housing and infrastructure, addressing spatial inequality, and preparing for natural disasters. Scenario analysis can also assist in planning large-scale projects such as Delhi-Mumbai Industrial Corridor and the Smart Cities initiative.

The need for knowledge and skills in this area is reflected in – (1) the growing use of scenario analysis as a required method in many government-funded planning initiative around the world, (2) new courses and workshops offered by urban planning programs and professional trainers, such as the American Planning Association and Planetizen, and (3) the sprouting of scenario planning support tools, such as Envision Tomorrow and Community Viz. This course addresses a gap in urban planning education and practice by making the theories and tools of scenario analysis accessible and useful to urban planners. The course draws upon Prof. Arnab Chakraborty's experiences from playing leadership roles in actual scenario planning processes, working with modelers and tool developers, navigating implementation challenges with state and local policymakers, teaching scenario planning at UIUC and in workshops for practitioners, and writing more than a dozen peer-reviewed articles on scenario analysis to advance the field.

OBJECTIVES

This course has the following objectives-

- i) It will expose participants to key principles of scenario analysis, and how they apply to urban planning and related fields
- ii) It will enrich participants' ability to think about the future more systematically, and consider how planning decisions interact with future uncertainties
- iii) It will help participants explore tools that can simulate alternative futures and engage divergent stakeholders
- iv) It will help participants understand how scenario analysis can advance the broader goals of development plans and policies, as well as help devise strategies in specific situations such as natural disasters and investment choices

WHO CAN ATTEND?

The course is designed for urban planning educators and practitioners in the private and public sectors. Urban policymakers and administrators are also welcome to attend.

The course will be especially beneficial to those in the areas of development planning, regional planning, city management, and public engagement.

The course is open to urban planning students and research scholars, as well as interested students from design, civil engineering, management and social science backgrounds with a particular interest in cities or urban areas

IMPORTANT DETAILS

DATES: 25 - 29 July 2016

VENUE: COMPUTER LAB &
SEMINAR ROOM, SPA
BHOPAL

COURSE CONDUCTOR:
Prof. ARNAB CHAKRABORTY
Department of Urban and Regional Planning
University of Illinois, USA

COURSE CO-ORDINATOR:
Prof. BINAYAK CHOUDHURY
Department of Planning
School of Planning & Architecture, Bhopal

FEES:

INTERNATIONAL PARTICIPANTS: US \$300

**INDUSTRY/RESEARCH ORGANIZATIONS/ ACADEMIC
INSTITUTIONS:**

RS. 5,000 (WITH LODGING & FOOD)

RS. 2,000 (WITHOUT LODGING & FOOD)

SPA - BHOPAL STUDENTS: RS. 200

[The above fees includes all instructional materials, computer use for tutorials & assignments, laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided with accommodations on payment basis only]

CONTACT DETAILS:

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ABOUT THE COURSE CONDUCTOR

Dr. Arnab Chakraborty is Associate Professor of Urban and Regional Planning and Dean's Fellow at the University of Illinois at Urbana Champaign (UIUC). Prof. Chakraborty holds concurrent appointments in the Institute of Sustainability, Energy, and the Environment, the Center for Global Studies, and the Center for South Asian and Middle Eastern studies at UIUC, and at the National Center for Smart Growth Research and Education at the University of Maryland. In 2014, he was a visiting associate professor at the Centre for Urban Science and Engineering at IIT-Bombay. Prof. Chakraborty's research has been supported by the Federal Highway Administration, the Lincoln Institute of Land Policy, the Urban Institute, and the National Science Foundation. An expert of land use and regional planning, he has published more than a dozen peer-reviewed articles on scenario planning and, most recently, wrote a practitioners guide for scenario analysis in the Journal of the American Planning Association. He conducts regular scenario workshops for practitioners on behalf of the American Planning Association.

Prof. Chakraborty has advised and consulted on various scenario planning, comprehensive planning and transport projects both in the U.S. and abroad, and given many workshops and invited lectures, most recently in India, China, Taiwan, Curacao and The Netherlands. In addition to his academic appointments, he is a co-founder of the Urban and Regional Sustainability Lab (URSULA) and a co-PI for the Land Use Evolution and Impact Assessment Laboratory (LEAM), which uses land use change models to simulate and analyse future scenarios. Prof. Chakraborty teaches Communication for Planners, Plan Making, and Regional Planning and Policy on a regular basis. Occasionally, he teaches Environmental Policy and Planning, and Technology and Megacity Studio, which most recently focused on Mumbai. His courses stress the importance of critical thinking and the need to connect techniques learnt in the class to real-world planning situations. He features regularly on UIUC's list of teachers ranked excellent by their students. Prof. Chakraborty's doctorate, masters and undergraduate degrees are from University of Maryland, University of Illinois, and IIT-Kharagpur, respectively. In the past, he has taught at the Johns Hopkins University and worked for the Chicago Transit Authority. He is a member of the American Institute of Certified Planners (AICP) and a member of the Site Visitors Pool of the Planning Accreditation Board.



ABOUT THE COURSE CO-ORDINATOR

Binayak Choudhury is the Professor and Head in the Department of Planning at SPA, Bhopal. He holds a Masters in Economics and Regional Planning and PhD in Regional Economics. His core academic interests include Urban and Regional Economics, Municipal Finance and Governance and Quantitative Applications in Urban and Regional Planning.



MODULES

- Module 1: Overview: Planning Future Cities
- Module 2: Scenario Applications for Urban Planning
- Module 3: Developing a Planning Information System
- Module 4: Open Data and Civic Technology
- Module 5: Land Use, Transportation, and Land Policy Analysis
- Module 6: Computer Tools for Scenario Creation
- Module 7: Organizing a Scenario Planning Process
- Module 8: From Scenarios to Planning Actions