



Online Training Programme on

SUSTAINABLE URBAN INFRASTRUCTURE

Dates: 15 to 17 July 2021

Timings: 11:00 - 14:00 IST

CEPT Research and Development Foundation (CRDF), CEPT University, Ahmedabad in partnership with Piloo Mody College of Architecture (PMCA), Cuttack and GIZ India is organizing an online training programme on '**Sustainable Urban Infrastructure**' topic for government officials, academicians, researchers and professionals engaged with the urban development and urban infrastructure sector in Odisha.

This 9-hour online training will be delivered virtually for 3 days, i.e. 3 hours daily.

Key Focus



Climate Change
& Urban Water
Management



Nature based
Solutions



Challenges & Solutions
for Sustainable Urban
Infrastructure Planning

Background

Cities are epicenters of environmental modification, often leading to degradation and fragmentation of ecosystems at local and regional scales. Furthermore, these trends cause a growing threat experienced by urban areas: the risk from meteorological and climatological hazards, accentuated by climate change. Ecosystems and their services, though often overlooked or degraded, can provide multiple hazard regulating functions such as surface flood regulation, water retention, temperature regulation and erosion control. Engineering or grey approaches often do not tackle the root causes of risk and can increase the vulnerability of populations over the long-term. Moreover, its utility is confined to an urban infrastructure service. Therefore, current network designs based on conventional methods need to be redefined.

The Nature based Solutions have come up as a solution to promote resilience and reinstate the wellbeing of ecosystems. It acts as a link amongst hydrological functions with planning, urban design, landscape design and natural ecosystem considering the risks involved. It uses blue (water) and green (parks, gardens, plazas, and other natural entities), to guard against flooding, water scarcity and further impacts of Climate Change. While doing so, the Nature based Solutions performs variety of functions within an area such as improving living conditions of the city, fostering economic growth and inclusion, thereby, enhancing sustainable infrastructure development and ecosystem services.

Learning Objectives

- ❖ Understand & develop linkages between Climate Change, Cities and Infrastructure.
- ❖ Conceptualize Sustainable and Nature based Infrastructure in the planning practice.
- ❖ Analyze and apply Nature based Solutions principles as alternatives.
- ❖ Devise strategies for implementation of Nature based Solutions.

Content

- Module 1**
Introduction to Sustainable Urban Infrastructure
- Module 2**
Case Studies on Sustainable Urban Infrastructure Initiatives - I
- Module 3**
Case Studies on Sustainable Urban Infrastructure Initiatives - II
- Module 4**
Localizing SUI for Cities in Odisha

