"Interdisciplinary course on Smart Cities"
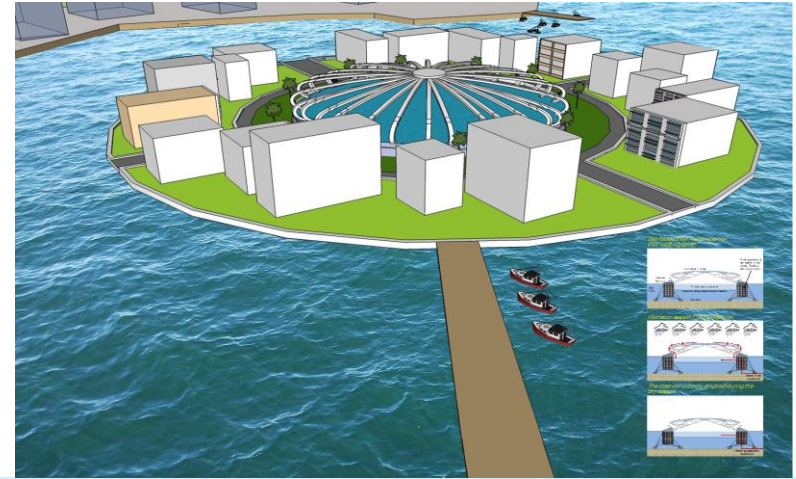
Objective:

➢ to build a deep understanding of the Smart City concept and the technology that underpins it.

➢ to help the students develop innovative concepts and prototypes for a sustainable smart city

# What are the Learning outcomes of the course

- **Decode the Smart City concept** & different models of Smart cities in the world

- **Application of technological innovations** for smart city enablement

- **Identify and measure requirements of a smart city – KPI development**

- **Project work:** Generate innovative solutions for smart city as projects outcome, through the following stagegates:

  - ✓ Sector analysis - Project wise

  - ✓ Primary Research work - Project wise

  - ✓ Ideation for Innovative concept proposals for resolving issues in Smart cities

# What was the **Process followed** in the course

i.      Classroom lectures to discuss perspectives, definitions, characteristics and components of smart cities

ii.     Industry interaction & inputs from professionals who have worked in the Smart cities area

iii.    Field visit to Shirpur town for 4 days that has taken a number of initiatives to make the town smart

iv.     Unique pedagogy using Design thinking for conceptualizing Innovative ideas

v.      Exhibition cum presentation of Prototypes of Solutions for Smart cities, where the jury was from premier academic institution and industry

# Field Trip to Shirpur Town for studying the "Smart" initiatives

Electric bicycles-Clean & healthy transportation

Glow-in-the-dark Roads made using spl. materials



A 3 layered Smart city prototype

# Prototypes