MERCURY

Innovation for Sustainable Urban Living:
The Path to Smart Cities

23 Feb - 06 Mar 2025
Dubai (UAE)

Innovation for Sustainable Urban Living: The Path to Smart Cities

Ref.: 15180_255423 **Date:** 23 Feb - 06 Mar 2025 **Location:** Dubai (UAE) **Fees:** 8000 **Euro**

Introduction

In today's increasingly urbanized world, where 60% of the population resides on just 2% of the land, traditional urban development and sustainability practices are insufficient to meet the needs of densely populated areas. To address the challenges posed by this urbanization, technology has emerged as a crucial solution for accommodating a large number of people in limited spaces. The investment in smart cities is projected to reach $135 billion by 2022, reflecting the growing recognition that smart cities are not merely a trend but a necessity for the modern world. Smart cities hold the key to our future, integrating technology to create a harmonious living environment that efficiently utilizes resources and enhances the quality of life. However, technology alone cannot transform cities. Across the globe, there is a growing dissatisfaction with the government and public sector services. Therefore, it is imperative for governments aspiring to develop smart cities to focus on innovation and transformation of public sector practices.

Targeted Audience

- Professionals in the public sector.
- Professionals involved in Public-Private Partnerships.
- Researchers, Students, and Practitioners in the Internet of Things IoT.
- Professionals in Applied Mathematics.
- Technology Engineers, CTOs, and CIOs.
- Strategic Development Personnel.
- Project Managers.
- Government Employees.
- Urban Planners.

Course Objectives

- Understand the categories of public sector innovation.
- Gain insight into the Smart City paradigm and its components.
- Comprehend the role of Big Data in smart city development.
- Connect the Internet of Things IoT to the creation of smart cities.
- Recognize the significance of intent-based networking.
- Prepare public sector organizations for the cities of the future.
- Enhance their understanding of public sector organization and principles.
- Learn to make citizen-oriented recommendations.
- Fully grasp the applications of IoT in smart cities.
- Introduce a fresh perspective into public sector innovation requirements.
- Identify gaps in the current public sector organization.
- Address sources of dissatisfaction with public sector services.
- Learn to identify and respond to the intent of the city.
- Understand how to upgrade public sector services effectively.
- Acquire foundational knowledge of the Internet of Things IoT.

Course Topics

Unit 1: Foundations of Smart Cities

- Defining and Understanding Smart Cities
- Factors Shaping Smart Cities: Technology, Human, and Institutions
- The Philosophy and Goals of Smart Cities

Unit 2: Public Sector Innovation in Smart Cities

- Drivers for Innovation in the Public Sector
- Leveraging E-Government Initiatives
- Types of Innovation in the Public Sector
- Integrating IoT into the Public Sector
- Measuring Smart City Performance

Unit 3: Creating an Innovative Culture in Public Sector Organizations

- Embracing the Concept of Intent-Based Networking
- Fostering Innovation and Smart Mobility
- Smart Energy Solutions for Smart Cities

Unit 4: Human-Smart Device Interaction in Smart Cities

- Understanding Artificial Intelligence AI Applications
- Balancing Privacy Concerns in the Public Sector's Use of Smart Devices
- Leveraging Social Networking for Public Sector Services

Unit 5: Putting Citizens at the Heart of Smart Cities

- Prioritizing Citizen-Centric Approaches
- Interpreting and Meeting Citizen Needs
- Adapting to Citizen Requests
- Shaping the Smart City Profile from the Residents' Perspective

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