BLACKBIRD FOR TRAINING

Advanced Urban Planning and Smart Infrastructure Development

22 – 26 November 2026
Cairo (Egypt)

UK Traininig
PARTNER



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Ref: 3254644_316274 **Date:** 22 – 26 November 2026 **Location:** Cairo (Egypt) **Fees:** 4900 GBP

Introduction

Welcome to the course focused on sustainable urban planning and the integration of smart infrastructure into urban environments. This course will provide advanced strategies for urban planning while addressing the challenges of creating sustainable, smart cities. Participants will explore cutting-edge solutions such as IoT, AI, and data-driven decision-making that are transforming urban landscapes. By the end of this course, you'll gain the knowledge and skills to lead smart city initiatives and design urban spaces that are future-proof, resilient, and sustainable.

Course Objectives

- Understand the principles of sustainable urban planning and the concept of smart cities.
- Learn how to integrate smart infrastructure technologies like IoT and AI into urban planning.
- Explore best practices for developing modern, resilient, and sustainable cities.
- Develop skills in data-driven decision-making for effective urban planning.
- Analyze the impact of smart infrastructure on the quality of urban life.
- Gain insight into urban mobility, smart transportation, and connectivity solutions.
- Learn to design energy-efficient, resilient urban spaces with smart infrastructure.
- Understand the challenges and opportunities in implementing smart cities and their effects on urban systems.
- Explore innovative solutions for sustainable urban design and green infrastructure.
- Discuss financing models for smart cities and how to overcome technical, financial, and social barriers.

Course Outlines

Day 1: Introduction to Sustainable Urban Planning and Smart Cities

- Understand the concept of smart cities and their role in urban planning.
- Learn about the evolution of cities and the need for smart infrastructure.
- Explore the principles of sustainable urban planning and the role of smart technologies.
- Discuss the importance of policy, governance, and regulation in smart city planning.



Day 2: Integrating Smart Infrastructure in Urban Environments

- Understand the role of IoT in transforming urban infrastructure.
- Explore smart grids, smart water systems, and smart waste management solutions.
- Learn how data analytics optimizes urban systems and infrastructure management.
- Examine real-world examples of successful smart city projects globally.

Day 3: Sustainable Urban Design and Development

- Study strategies for designing sustainable, energy-efficient cities.
- Explore the integration of green infrastructure to enhance environmental sustainability.
- Learn about urban renewal and redevelopment as part of smart city initiatives.
- Understand the impact of urban design on the quality of life for residents.

Day 4: Urban Mobility, Smart Transportation, and Connectivity

- Explore smart transportation systems and their role in improving urban mobility.
- Discuss the impact of electric vehicles, autonomous transportation, and public transit.
- Learn how to design urban mobility networks for enhanced connectivity.
- Discover how digital platforms improve traffic management in urban environments.
- Examine smart mobility solutions to reduce congestion and pollution.

Day 5: Implementation, Challenges, and the Future of Smart Cities

- Discuss the challenges in implementing smart infrastructure and the barriers to smart city projects.
- Explore the financial, technical, and social challenges in infrastructure development.
- Learn about public-private partnerships in financing smart infrastructure.
- Understand the future trends in smart cities and urban planning.

Why Attend This Course: Wins & Losses!

- Gain expertise in advanced urban planning and the integration of smart infrastructure.
- Learn how to design and implement sustainable cities using smart infrastructure solutions.
- Acquire practical skills in data-driven decision-making and leveraging IoT and AI in urban planning.
- Enhance your ability to lead smart city initiatives that prioritize sustainability, resilience, and energy efficiency.
- Stay ahead in the rapidly evolving field of urban planning and smart city development.
- Learn strategies to improve urban mobility, connectivity, and sustainability.
- Build a professional network with industry leaders in smart city development and urban planning.
- Contribute to creating more livable, efficient, and sustainable cities for future generations.



Conclusion

By attending this course, you will acquire the skills, knowledge, and strategies needed to lead innovative urban planning and implement smart infrastructure solutions. You'll be equipped to tackle the challenges of designing sustainable cities, integrating technology, and improving urban living for communities.

Don’t miss the opportunity to be at the forefront of smart city development and the future of urban planning.

