



# Jansons Institute of Technology

Karumathampatti, Coimbatore - 641 659

Approved by AICTE and Affiliated to Anna University

An ISO 9001:2015 certified institution

Industry Readiness Course - Syllabus

**Department of Computer Science and Engineering**

**Technologies Enabling Smart Cities**

2023 - 2024 (ODD Semester)

## **Learning Objectives**

- To understand the concept of smart city and associated challenges.
- To understand latest technologies used in intelligent building.
- To understand process of planning and drafting a plan for smart city.
- To understand the importance of different smart system.

## **Learning Outcomes**

- Acquaint knowledge on smart cities planning and development
- Develop work break down structure, scheduling and project management of smart cities
- Work out the most energy efficient technique

## **MODULE 1**

Introduction to Smart cities - Introduction to city planning - Concept, Principal stakeholders, key trends in smart cities developments

## **MODULE 2**

Smart Cities Planning and Development - Understanding smart cities - Dimension of smart cities - Global Standards and performance benchmarks, Practice codes - Smart city planning and development - Financing smart cities development - Governance of smart cities

### MODULE 3

Project management in Smart Cities - Phases, Stages of project and work break down Structure - Project organization structure, Planning, Scheduling and CPM - Project cost analysis, resource allocation & leveling, Line of balancing technique - Project monitoring and control, Project risk management - Green building in smart cities - Introduction to green buildings, Rating system, Energy saving system

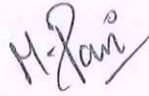
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Principal

