Mindluster Platform

About the course Smart buildings and intelligent architecture

Course Presenter : IIT Roorkee July 2018

Discover the transformative potential of smart buildings and intelligent architecture through this comprehensive online course tailored for engineering professionals in the Middle East and beyond. As cities grow and technology advances, the demand for innovative, sustainable, and energy-efficient building solutions continues to rise. This course equips you with the essential knowledge and skills to design and implement intelligent architectural systems, making you a valuable asset in the evolving engineering landscape. Throughout this training course, you will learn how to integrate cutting-edge technologies into building design, optimize energy consumption, and enhance occupant comfort and safety. The course covers a wide range of topics, including IoT applications in building management, sustainable design principles, automation systems, and the latest trends in intelligent architecture. What you will learn: - Fundamentals of smart building technologies and their applications - Integration of IoT and automation systems in architecture - Sustainable design practices for energy efficiency - Building management systems and control strategies - Data analysis and security in intelligent buildings - Future trends shaping the engineering sector in smart infrastructure This course is ideal for engineering professionals, architects, facility managers, and technical specialists seeking to expand their expertise in smart building solutions. Whether you aim to enhance your professional skills or stay ahead in the competitive job market, this training course provides the knowledge you need. Why choose this platform for your learning journey: - Access to expert-led training from industry leaders - Flexible online learning suited to busy schedules - Recognized certificate to validate your skills - Continuous support and practical insights for real-world application - Designed to promote career growth in the engineering and smart infrastructure sectors Upon completing this certified course, you will earn a professional certification that enhances your credibility and career prospects in the Middle Eastâ€™s rapidly expanding smart buildings industry. Gain the confidence and expertise to lead innovative projects and advance your career in engineering, architecture, or facility management. Enroll today to elevate your professional journey and become a pioneer in intelligent architecture. IIT Roorkee July 2018

Engineering Category's Courses

Course Lesson(41)

Lesson 1 : **Intelligent and Smart Buildings in the Context of Futuristic Architecture**

Lesson 2 : **Lecture 01 Origins of the Futurist Movement**

Lesson 3 : **Lecture 03 Ideology and Principles of Futurist Architecture**

Lesson 4 : **Lecture 04 Introduction Futuristic Architecture**

Lesson 5 : **Lecture 05 Arcology**

Lesson 6 : **Lecture 06 Futurist Aesthetic and Technology**

Lesson 7 : **Lecture 07 Impact and Legacy of Futurist Architecture**

Lesson 8 : **Lecture 08 Revival and Reinterpretation of Futurist Architecture**

Lesson 9 : **Lecture 09 Transition to Smart and Intelligent Buildings**

Lesson 10 : **Lecture 10 Definition and Core Concepts of Intelligent Buildings**

Lesson 11 : **Lecture 11 History and Evolution of Intelligent Buildings**

Lesson 12 : **Lecture 12 Benefits and Challenges of Intelligent Buildings**

Lesson 13 : **Lecture 13 Basic Components and Technologies of Smart Buildings**

Lesson 14 : **Lecture 14 Building Automation Systems BAS Structure and Functions**

Lesson 15 : **Lecture 15 BAS Design Implementation and Integration**

Lesson 16 : **Lecture 16 Case Studies of BAS in Intelligent Buildings**

Lesson 17 : **Lecture 17 Control Strategies for Energy Efficiency and Comfort**

Lesson 18 : **Lecture 19 Smart Lighting Fundamentals and Protocols**

Lesson 19 : **Lecture 20 Smart Lighting Case Studies**

Lesson 20 : **Lecture 18 Integration with HVAC Lighting and Security**

Lesson 21 : **Lecture 22 Intelligent HVAC AI Optimisation**

Lesson 22 : **Lecture 23 Intelligent HVAC Integration Tools and Challenges**

Lesson 23 : **Lecture 24 Building Security Access Control and Surveillance**

Lesson 24 : **Lecture 25 Building Security Networked Systems and Standards**

Lesson 25 : **Lecture 26 BIM Fundamentals**

Lesson 26 : **Lecture 28 Virtual Reality in Architecture**

Lesson 27 : **Lecture 27 BIM for Intelligent Building Design and Management**

Lesson 28 : **Lectue 29 Data Driven Architecture**

Lesson 29 : **Lecture 30 Trans Architecture â€" Beyond Physical Boundaries**

Lesson 30 : **Lecture 21 Intelligent HVAC Core Components**

Lesson 31 : **Lecture 02 Founding of Futuristic Manifesto**

Lesson 32 : **Lecture 31 Designing Intelligent Buildings**

Lesson 33 : **Lecture 32 Evaluating Intelligent Buildings**

Lesson 34 : **Lecture 33 Green Buildings and Human Performance**

Lesson 35 : **Lecture 34 Thermal Environment Productivity and Environmental Factors**

Lesson 36 : **Lecture 35 Sick Building Syndrome**

Lesson 37 :
Lecture 36 Planning Design and Management Recommendations for Intelligent Buildings

Lesson 38 : **Lecture 37 Net Zero and Carbon Positive Intelligent Buildings**

Lesson 39 : **Lecture 38 AI and Machine Learning in Building Management**

Lesson 40 : **Lecture 39 Intelligent Buildings within Smart Cities**

Lesson 41 : **Lecture 40 Future Frontiers and Course Synthesis**

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