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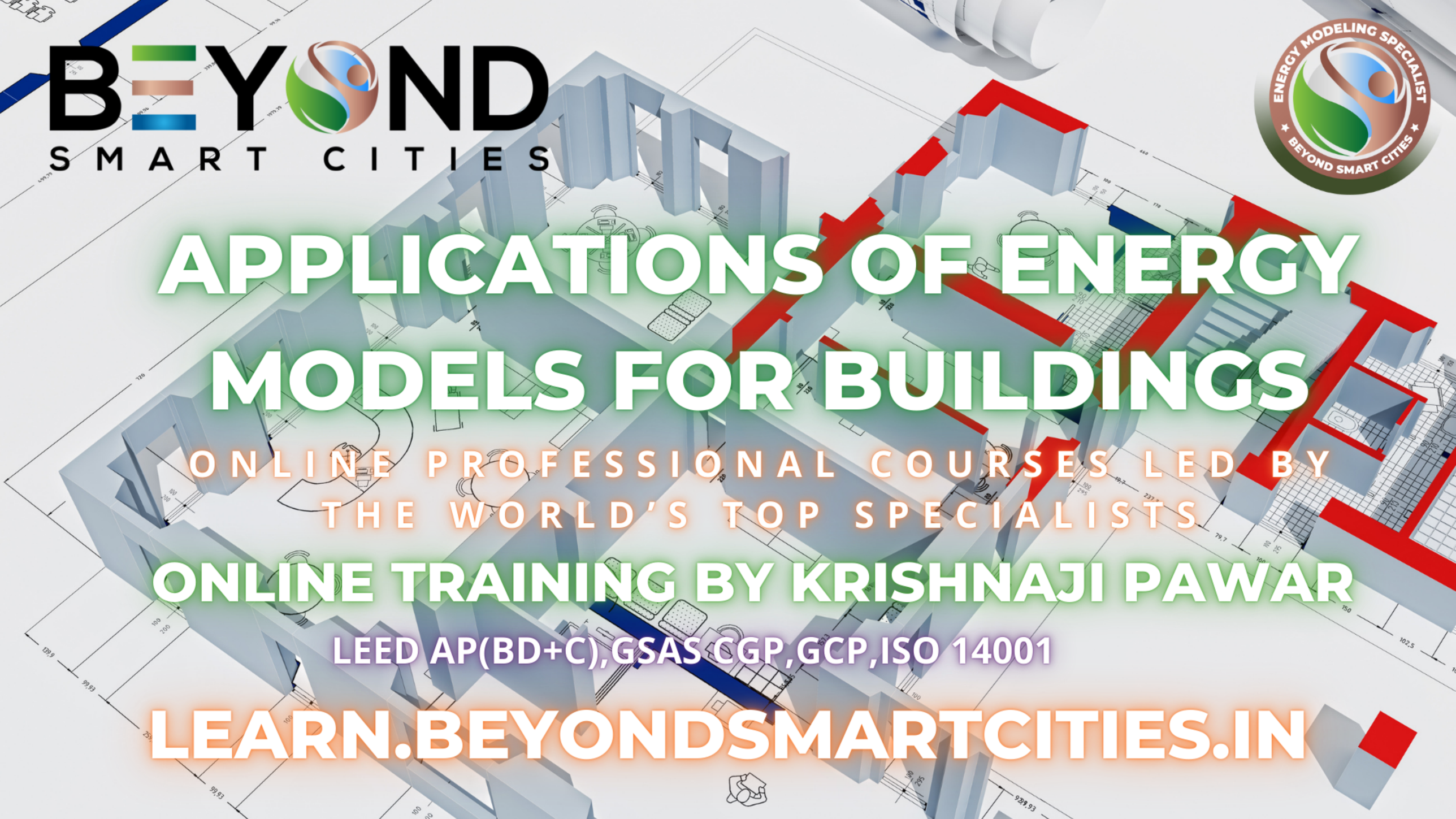
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ENERGY MODELING SPECIALIST
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APPLICATIONS OF ENERGY MODELS FOR BUILDINGS
ONLINE PROFESSIONAL COURSES LED BY THE WORLD'S TOP SPECIALISTS
ONLINE TRAINING BY KRISHNAJI PAWAR
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MODULE L12

Collaborating Within Project Teams in Building Energy Modeling

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APPLICATIONS OF ENERGY MODELS FOR BUILDINGS

The ANSI/ASHRAE/IBPSA Standard 209-2024 is a significant advancement in energy modeling and building design, developed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the International Building Performance Simulation Association (IBPSA). It aims to provide a structured framework for practitioners in implementing building energy simulation tools throughout the design and construction phases of projects.

Learning Objectives

- Introduction and Course Outline
- Simulation Comparisons
- Modeling Energy Performance
- Evolution of Simulation Techniques
- Baseline Building Models
- Communicate Analysis Results
- Collaborating Within Project Teams in BEM
- Applications of Energy Models for Building
- Case Study: Application of BEM
- Summary and Resources
- BEMP Practice Test V.5.1

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INTRODUCTION

- Crucial tool for early integration of energy modeling into design decisions.
- Analyzes design scenarios using energy simulations to maximize natural light and minimize heat gain.
- Provides technical expertise on energy-efficient technologies and strategies.
- Advocates for adoption of variable refrigerant flow (VRF) systems for lower operational costs and reduced carbon footprint.
- Facilitates interdisciplinary collaboration across disciplines to align energy modeling objectives with project goals.
- Plays a multifaceted role in project teams, ensuring energy considerations are integrated into the design process for more energy-efficient and sustainable buildings.

INTEGRATING BEM INTO THE DESIGN PROCESS

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- BEM professionals advocate for early integration of energy modeling into the design process.
- This proactive approach allows energy considerations to shape design choices from the initial stages.
- Early BEM integration helps project teams navigate potential energy inefficiencies, aligning the final design with sustainability goals.

PROVIDING TECHNICAL EXPERTISE

- BEM professionals provide technical expertise regarding energy-efficient technologies and strategies.
- They interpret simulation outcomes and offer insights that can significantly influence project design and performance.
- This role is similar to that of a financial advisor who analyzes various investment strategies.

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FACILITATING INTERDISCIPLINARY COLLABORATION

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- BEM professionals must work alongside architects, engineers, and sustainability consultants to align energy modeling objectives with broader project goals.
- In a mixed-use development project, BEM professionals can engage in collaborative workshops with architects and engineers to identify energy performance targets.
- This collaborative effort is comparable to a symphony orchestra, where each musician plays a distinct role but all contribute to a unified performance.

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