

Report on Webinar

“Green Rating for Integrated Habitat Assessment (GRIHA) Rating System”

Date: 9th September 2024

Time: 11:00 a.m. – 1:00 p.m.

Resource Person : Ar. Sahil Singh Kapoor

Participants: Architecture Students (Third to Fifth Year) and Faculty Members

An **online webinar** on “*Green Rating for Integrated Habitat Assessment (GRIHA) Rating System*” was organized for all students and faculty members of MBS School of Planning and Architecture on **9th September 2024**, from **11:00 a.m. to 1:00 p.m.** The session was conducted by **Ar. Sahil Singh Kapoor**.



Ar. Sahil Singh Kapoor holds a **Bachelor of Architecture** and **M.Tech in Urban Development and Management** from TERI University, along with a **Post-Graduate Diploma in Urban Environmental Management & Law (PGDUEML)** from WWF India and the National Law University, New Delhi. He is associated with **Intercontinental**

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Consultants and Technocrats Pvt. Ltd. (ICT), New Delhi, and has contributed to several Government of India schemes such as **HRIDAY**, **Smart Cities**, and **AMRUT**. He has also presented numerous research papers at national and international conferences, published by reputed publishers including the **Taylor and Francis Group**.

During the session, Ar. Kapoor provided a comprehensive **overview of the GRIHA rating system**, elaborating on its **history, objectives, and evolution since 2000**. He explained the concept of **Green Buildings** and discussed the involvement of various Indian ministries such as the **Ministry of New and Renewable Energy (MNRE)**, **Ministry of Housing and Urban Affairs (MoHUA)**, **Bureau of Energy Efficiency (BEE)** under the **Ministry of Power**, and the **Central Public Works Department (CPWD)** in adopting and promoting the GRIHA framework.

Scale	Calculation
Wellness Scale	1-7 divided by 7
Thought Control Scale	8-13, divided by 6
Active Coping Scale	14-20, divided by 7
Social Ease Scale	21-26, divided by 6
Tension reduction Scale	27-28, divided by 2
Spiritual Practice Scale	29-32 divided by 4
Overall Score	sum of the scale scores above, divided by 6

The speaker explained the **34 criteria** under the GRIHA system, which focus on **Site Planning, Building Design, Energy Efficiency, Water and Waste Management, Sustainable Building Materials, and Occupant Health and Comfort**. Students were guided through the **point-based evaluation system**—how projects are assessed on a **scale of 100 points** to qualify for GRIHA certification.

Further, Ar. Kapoor elaborated on the role of **ADaRSH (Association for Development and Research of Sustainable Habitats)**, the organization responsible for evaluating project documents and assisting clients with **registration, documentation, and certification** processes. He also described the **GRIHA registration and evaluation procedure**, along with the structure of the **evaluation report** submitted to the committee.

The webinar included engaging **case studies of notable 5-star GRIHA-certified buildings**, such as:

- **HAREDA (Haryana Renewable Energy Development Agency), Panchkula**
- **Suzlon One Earth, Pune**

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- **Centre for Environmental Science and Engineering (CESE), IIT Kanpur**

The session concluded with an interactive Q&A segment where students clarified their queries regarding the **implementation of sustainable design principles** in architecture and the **practical applications of GRIHA standards** in real-world projects.

Overall, the webinar was highly informative and provided valuable insights into **sustainable architectural practices** and the importance of integrating **environmental responsibility** in the design and planning process.

Sign and Date	
Academic Co-Curricular Team	Director



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Report on Webinar: “Modernistic Landscape of Delhi – Inspirations, Influence and Identities”

Date: 21st October 2024

Time: 10:30 a.m. – 12:30 p.m.

Venue: Online Webinar

Resource Person: Ar. Iqtedar Alam

Participants: Architecture Students (First to Third Year) and Faculty Members

An **online webinar** on “*Modernistic Landscape of Delhi: Inspirations, Influence and Identities*” was organized for the students of all years and faculty members of MBS School of Planning and Architecture on **21st October 2024**, from **10:30 a.m. to 12:30 p.m.** The session was conducted by **Ar. Iqtedar Alam**, a distinguished architect and academician.



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Ar. Iqtedar Alam is an architect and urbanist specializing in the **regeneration of historical urban precincts**. His academic and research interests span **urban conservation, cultural geography, urban ecologies, symbolism, and architectural history**. Beyond architectural studies, he engages in the design and curation of works related to **ethnomusicology, cultural landscapes, and socio-religious ephemera**.

A **gold medallist** from **Jamia Millia Islamia, New Delhi**, Ar. Alam completed both his **Bachelor's in Architecture** and **Master's in Urban Regeneration** from the same university. He has previously worked with the **Aga Khan Trust for Culture, New Delhi**, and is currently a faculty member at Jamia Millia Islamia. Over the years, he has presented and published numerous papers and participated in several academic workshops.

The session began with an insightful introduction to the **concept of Modernism** in the architectural and urban context of **Delhi and other Indian cities**. Ar. Alam discussed the **evolution of modernist thought** and its **influences on Delhi's architectural identity**, setting a theoretical foundation for understanding how the city's built environment has responded to global design movements.

He discussed the works of prominent modernist architects, beginning with **Aldo Rossi**, highlighting his approach to building design and his philosophical understanding of urban form. Ar. Alam elaborated on the **public perception of modern architecture**, its **critical reception**, and how it mirrored **cultural and technological transformations** in India and beyond.

The presentation also included a discussion on **Paul Klee's "Angelus Novus" (1920)** — a work symbolizing the **continuity of the past** and the **dialogue between history and modernity**. Through such examples, Ar. Alam emphasized the triad of **utility, beauty, and firmness** as guiding principles in architecture.

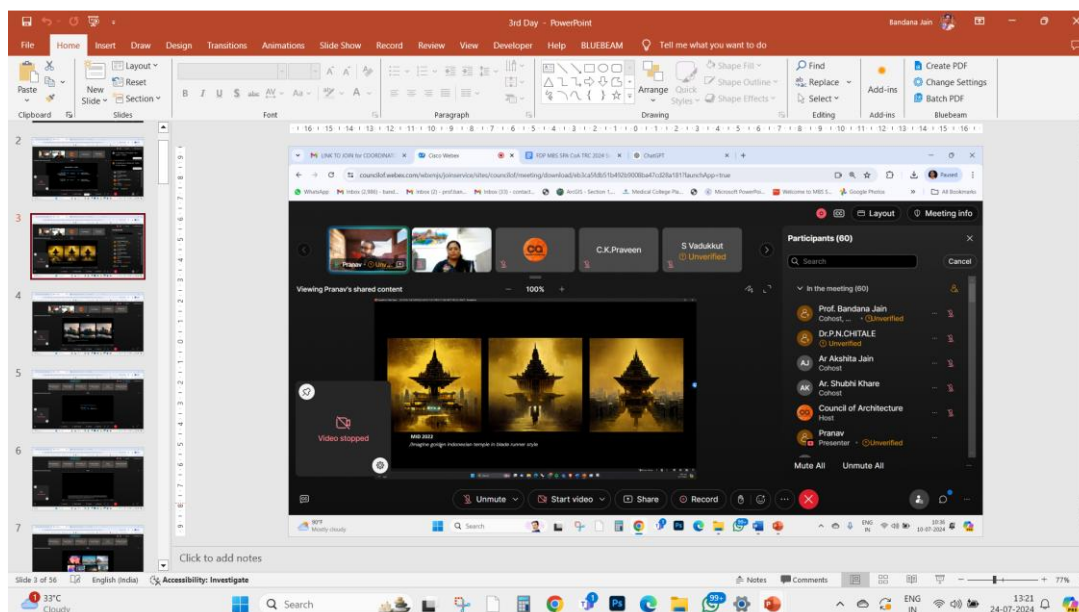
He further elaborated on major **urban and architectural movements** such as the **City Beautiful Movement** and the **Garden City Movement**, explaining their origins, ideologies, and global impact. Ar. Alam skillfully connected these historical developments to the **modern and postmodern architectural narratives**, helping participants visualize a **chronological and conceptual timeline** that linked global events to India's own architectural evolution.

The session concluded with an engaging **question-and-answer segment**, where students inquired about various aspects of **Modernism, sustainability, and architectural identity**. Ar. Iqtedar Alam addressed each question with depth and clarity, inspiring students to think critically about the relationship between design philosophy and urban identity.

The webinar was highly enriching and provided valuable insights into the **evolution of Delhi's modernistic landscape**, encouraging young architects to appreciate the city's layered history and its architectural transformations.

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The MBS School of Planning and Architecture expressed its sincere gratitude to **Ar. Iqtedar Alam** for sharing his expertise and delivering such an enlightening and thought-provoking session.



Sign and Date

Academic Co-Curricular Team

Director



Report on Webinar: “Eco-Niwas Samhita (ENS) 2018”

Date: 24th January 2025

Time: 11:00 a.m. – 1:00 p.m.

Venue: Online Webinar

Resource Persons: *Team of Experts from PwC (PricewaterhouseCoopers Pvt. Ltd.) and Bureau of Energy Efficiency (BEE)*

Participants: *B.Arch 3rd Year and 4th Year Students*

An **online webinar** on “*Eco-Niwas Samhita (ENS) 2018*” was organized by **MBS School of Planning and Architecture**, Dwarka, New Delhi, in collaboration with **PricewaterhouseCoopers Pvt. Ltd. (PwC)** and the **Bureau of Energy Efficiency (BEE)** on **24th January 2025 from 11:00 a.m. to 1:00 p.m.** The webinar was part of the national initiative on “**ENS Awareness, Training, and Capacity Building**”, specially designed for architecture students.

The **Eco-Niwas Samhita (ENS) 2018**, formulated by the **Ministry of Power** and the **Bureau of Energy Efficiency**, serves as the **Energy Conservation Building Code (ECBC)** for residential buildings. It sets **minimum standards for energy efficiency** in building design and construction to promote sustainability and reduce energy consumption in the residential sector. **PwC** is the implementing agency for this initiative in selected Indian states including **Delhi, Punjab, and Uttar Pradesh**.

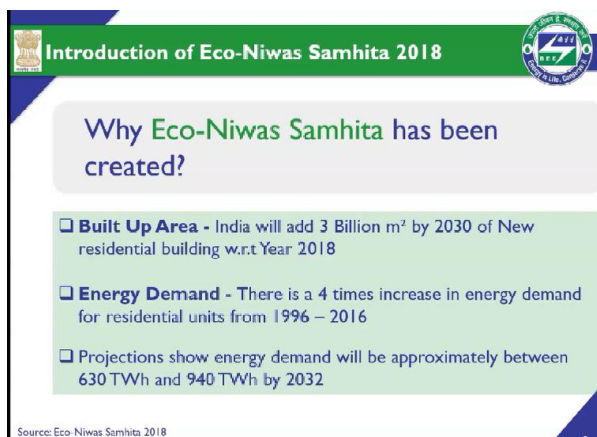
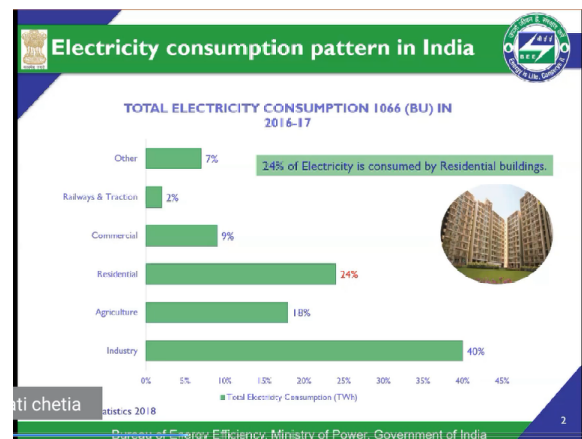
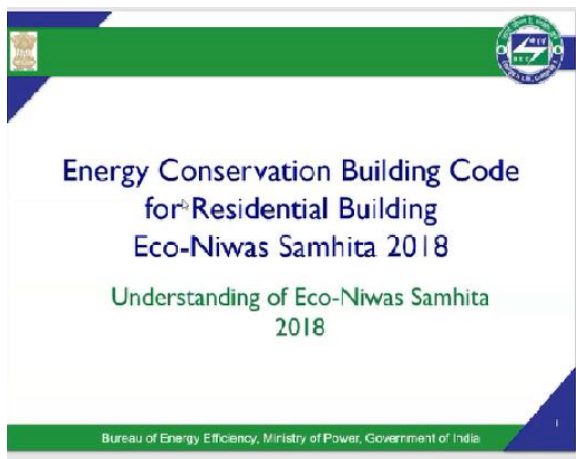


The session commenced with a **welcome address** by **Ar. Manisha Singh Taneja**, Assistant Professor at MBS SPA, who welcomed the panelists, experts, and students. **Ms. Pooja Aggarwal** from PwC initiated the session, followed by **Mr. T. C. Sharma** (PwC) who introduced the objectives of the webinar and explained the **applicability of ENS for the composite climate of Delhi**.

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Subsequently, **Ms. Akanksha Krishan** and **Mr. Vikas Ranjan**, members of the expert team, discussed the **growth and energy demands of India's residential sector**. They highlighted that **buildings account for 34% of the total energy consumption in India**, out of which **24% is consumed by residential buildings** alone. They emphasized the role of **Eco-Niwas Samhita** in regulating residential construction practices to ensure reduced energy consumption and promote sustainable living.

The next segment of the session was conducted by **Ms. Shaswati Chetia**, *Master Trainer of ECBC ENS-2018*, Architect, and Environmental Planner, currently serving as *Senior Programme Officer* at the **Indo-Swiss Building Energy Efficiency Programme**. She elaborated on the **concept, objectives, and structure of ENS 2018**, explaining how the transition from traditional low-rise buildings to modern high-rise constructions has resulted in increased energy demand. She further explained the **technical methods, calculations, and design strategies** that form part of ENS, which can help architects design **energy-efficient and green residential buildings**.



Following her presentation, **Ms. Prachi** from the ENS team delivered an insightful talk on **sustainable building materials** and their role in **reducing energy consumption**. She explained how thoughtful material selection can contribute to thermal comfort, reduced operational costs, and environmental conservation.

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The webinar concluded with an **interactive question-and-answer session**, during which the panelists addressed various queries raised by the students. To make the session engaging, the ENS team also organized a **quiz competition**, which was both educational and enjoyable for the participants.

The event concluded with a **vote of thanks** to the **PwC and BEE teams** for their time, effort, and valuable insights. The session proved to be highly beneficial, enhancing students' understanding of **energy-efficient building design** and the **importance of sustainability in residential architecture**.

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Report on Webinar: “Conceptualizing Digital Built Environment with Focus on BIM / Emerging Technologies in Built Environment”

Date: 21st March 2025

Time: 2:00 p.m. – 3:30 p.m.

Venue: Online Webinar

Presenter: Prof. Shrutiniwas Sharma

In Collaboration with: RICS School of Built Environment, Amity University

Participants: B.Arch 4th Year Students

The **MBS College, Dwarka**, organized an online webinar on “*Conceptualizing Digital Built Environment with Focus on BIM / Emerging Technologies in Built Environment*” in collaboration with the **RICS School of Built Environment, Amity University** on **21st March 2025** from **2:00 p.m. to 3:30 p.m.** The session was specially designed for **fourth-year architecture students** to provide industry-oriented exposure and deepen their understanding of emerging technologies in the built environment.



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As part of its ongoing initiative to provide **learning beyond academics**, MBS College regularly hosts interactive sessions with eminent architects, distinguished educators, and industry leaders. These webinars serve as a platform for students and faculty to gain practical insights into the evolving trends shaping architectural practice today.

The guest speaker for the session, **Prof. Shrutiniwas Sharma**, is an accomplished academician and professional with extensive experience in **Building Information Modelling (BIM)** and **Virtual Design and Construction (VDC)**. He has previously worked as a **BIM Manager** in the Operations Department at **Shapoorji Pallonji Engineering & Construction**, focusing on BIM implementation at both organizational and project levels. He has also served as a **Research Engineer at Saint-Gobain Research India** and is currently an **Assistant Professor of Architecture at Amity University, Haryana**. Prof. Sharma holds a **Bachelor's degree in Architecture** from **NIT Bhopal** and an **M.Tech in Construction Engineering and Management** from **IIT Delhi**.

During the session, Prof. Sharma provided a comprehensive overview of the **challenges faced by the Indian construction industry**, including low levels of research and innovation, workforce shortages, lack of process standardization, and cultural barriers to adopting new technologies. He emphasized that **low productivity, limited predictability, and weak knowledge transfer** between projects continue to hinder the sector's progress.

The screenshot displays a webinar session. At the top, two video feeds show the speakers: Abhishek Panchal and Prof. Shrutiniwas Sharma. The main content area features a presentation slide titled "Grand challenges for the Indian construction industry" by RICS School of Built Environment, AMITY UNIVERSITY. The slide contains a complex flowchart with a central box labeled "Grand challenges for the Indian Construction Industry". This central box is connected to several other boxes and ovals, including: "Streamline land acquisition and land procurement procedures", "Streamline and standardize project approvals and statutory sanctions", "Strengthen accountability, transparency and governance in public sector projects", "Standardize contracts, contractual procedures, procurement systems and project delivery methods", "Provide investments in sectorial skills development with industry support", "Ensure worker welfare and well-being", "Establish national construction quality, sustainability and safety benchmarks", "Promote modern time-bound dispute resolution and prevention techniques", "Encourage adoption of project management and lean principles over the entire life cycle of a project", "Non-performing contractors", "Lack of awareness", "Graduate skill upgradation", "Problems in the planning stages", "Standardization and uniformity", "Updating standards and specifications", "Lack of accountability", "Lack of transparency", "Adopting technology", "Lack of implementation", "Unaccounted money", "Lack of good quality consultants", "Labour shortage", and "Negligent Government". The right side of the screenshot shows the webinar interface, including a participant list with names like Abhishek Panchal (Organizer), Manisha Singh (Panelist, M), Prof. Shrutiniwas Sharma (Organizer), and RICS SBE (Organizer). A chat window at the bottom right displays the text "Conceptualizing Digital Built Environment..." and "Webinar ID: 769-627-395".

Prof. Shrutiniwas Sharma presenting the Webinar

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Cyber-physical systems (CPS): Introduction

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AMITY UNIVERSITY

- CPs is an umbrella concept that can represent intelligent systems such as:
 - the Internet of Things (IoT),
 - Machine-to-Machine (M2M),
 - Industrial Internet,
 - Smart City,
 - Smart Grid, etc.
- The CPS are systems of interconnected physical and digital duals- **Concept of Digital Twin**
- *A digital twin is a virtual asset or simulation, running concurrently in real time with its physical twin, with digital and physical twins reciprocally connected by sensors and actuators.*

Physical Digital

Digital Twin

GoToWebinar

He then introduced the concept of the **Fourth Industrial Revolution (4IR)** and its application within the **Construction 4.0 framework**, highlighting how digital transformation can redefine **production, business models, and value chains** in the built environment. He explained the role of **Cyber-Physical Systems (CPS)** — mechanisms monitored and controlled by computer-based algorithms — in creating **Digital Twins**, virtual representations of physical systems that enable real-time analysis and optimization.

Dynamic relevance

RICS School of Built Environment
AMITY UNIVERSITY

- ▶ Journey of digitization of built environment practices
- ▶ Continuously evolving tools
- ▶ Evolving data management issues
- ▶ Evolving data security issues

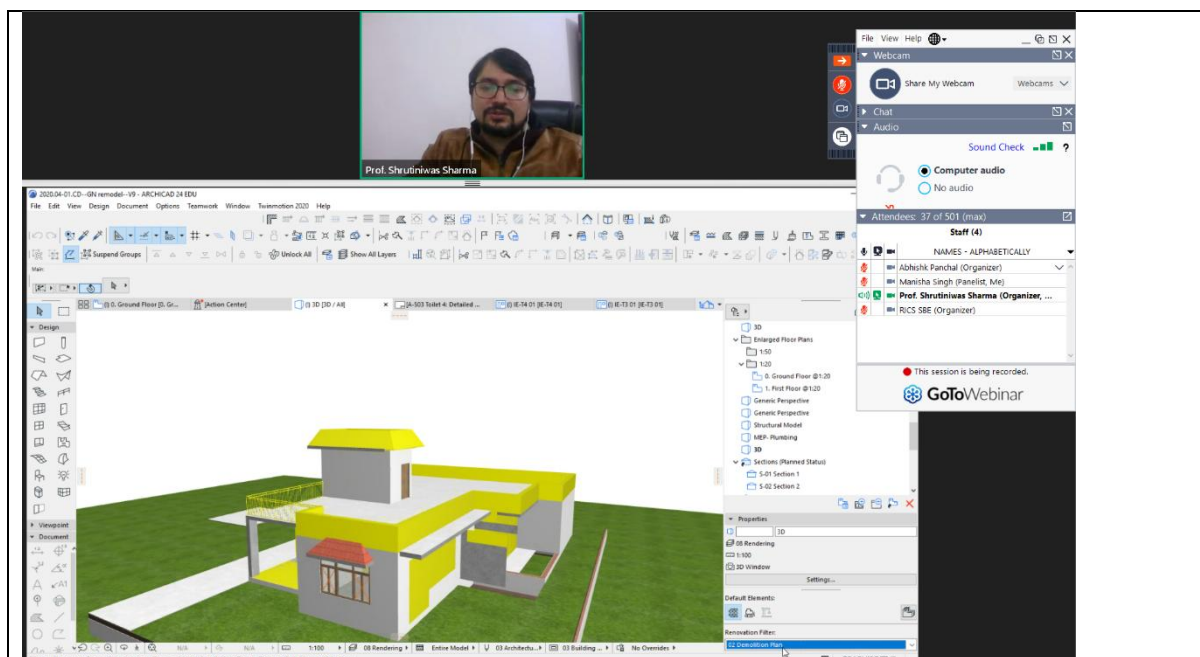
Attendees: 33 of 501 (max)

Staff (4)

NAMES - ALPHABETICALLY

- Abhishek Panchal (Organizer)
- Manisha Singh (Panelist, Me)
- Prof. Shrutiwas Sharma (Organizer, ...)
- RICS SBE (Organizer)

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The presentation also delved into the integration of **BIM (Building Information Modelling)** as a vital tool for enhancing efficiency, collaboration, and sustainability in architectural practice. Prof. Sharma showcased his own **project examples demonstrating BIM implementation**, illustrating how digital tools are revolutionizing the design and construction process.

The webinar concluded with a **vote of thanks** to Prof. Shrutiniwas Sharma and the **RICS School of Built Environment** for organizing such an enlightening and forward-thinking session. The event provided students with invaluable exposure to **emerging digital technologies**, preparing them to adapt to the rapidly evolving demands of the architecture and construction industries.

Sign and Date	
Academic Co-Curricular Team	Director

A handwritten signature in blue ink is placed next to a circular blue stamp. The stamp contains the text 'MBS COLLEGE' at the top, 'DWARKA' in the center, and 'NEW DELHI' at the bottom, separated by stars.