



## **Report on**

### **Guest Lecture on 'Enhancing Building Design with Simulation'**

**Date:** Thursday, 07<sup>th</sup> December 2023.

**Venue:** Room No. C 206, C Block, K.R. Mangalam University.

**Event Type:** Guest Lecture

**Mode of Activity:** Offline

**Target Group:** 1<sup>st</sup> and 2<sup>nd</sup> Yr. B.arch and BID students

**Resource Person (if any):** Dr. Bandana Jha, Professor, SPA Delhi

**Coordinators:** Ar. Nisha Sharma

**Organized by:** School of Architecture & Design

**Number of Participants:** 35 students

Building simulation is a way to test how elements of building design will perform under real-world conditions. This is done using a mathematical model that re-creates conditions in a virtual environment. These computer-based simulations enable architects and engineers to evaluate the performance of their designs. SOAD conducted guest lecture on 'Energy Building Simulation' for B.arch students on 7th December 2022 in C206 organized by Ar. Nisha Sharma. The objective of the guest lecture was to make students aware of the building energy simulation concepts and how this could be achieved with help of computer based applications. Dr Bandana Jha, (Professor at SPA Delhi, an architect, project manager, green building consultant) was invited as a speaker in offline mode 10 to 11.30 a.m. where she explained the concepts through her presentation and also she delivered a demonstration of calculation of energy loads with the help of eQuest software. Students understood the concept of Building energy simulation and also learnt from the demonstration how to calculate the energy loads in different types of building shapes of buildings and how the building shape affects the energy consumption inside a building. Students can further practice calculation building loads on their own and can compare how different factors affects the building loads.





