



Five day Intensive Workshop on Green Buildings & Energy Conservation Building Codes for the Students of Final Year B.Arch

A Five Day Certified workshop was held between 25th to 29 June, 2018 at Thakur School of Architecture & Planning as a part of Training Initiative. The Extensive training received an overwhelming response as the students were exposed to variety of softwares and tools required for analyzing and generating designs with Green Building principles & alignment with Energy Conservation Building Codes

The initiative was part of Training and Placement activity of TSAP to prepare the students for the requirement of Industry.

Program Title : Green Buildings & Energy Conservation Building Codes
Expertise : ICMQ (Institute for Certification and Quality Mark)
Date : 25th to 29th June 2018

About ICMQ

ICMQ (Institute for Certification and Quality Mark), is a leading Italian certification body established in 1998 with the mission of promoting quality, durability and sustainability in the realms of building products and construction. Headquartered in Milan, ICMQ's members include all the Italian associations of companies involved in the construction business including producers, consumers, academicians and designers. Its members also include three Italian ministries (Economic

Development, Infrastructure and Environment), ENEL (Italian Energy Board) and the Italian Railways.

ICMQ has always believed in using the most innovative technologies. The company works in conjunction with a strong network of research and technical bodies which enables cutting-edge processes across Europe, USA and India.

Contents of the Program

Date	Particulars of the Program
25 Jun	GREEN BUILDINGS (Site Planning and water management)
26 Jun	Building Envelope Design And Optimization
27 Jun	GREEN BUILDINGS (Rating Systems, Indoor Environment Quality (IEQ) and Case Studies)
28 Jun	Energy Conservation Building Code (ECBC)
29 Jun	Innovative Green Building Materials & Eco-labelling
30 Jun	SITE VISIT: CRISIL HOUSE, Powai, Mumbai.

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Background and Objective of the Training

India, the world's fourth-largest carbon emitter, is responsible for 6% of the global CO2 emissions. One of the largest sectors contributing to the greenhouse gas emissions is the Indian construction sector. It is estimated that about 70% of the buildings that will exist in India in 2030 are yet to be built. The challenge for a developing country like India is to find a balance between the developmental needs and minimizing the negative impacts on environment associated with resource use.

The recently launched National Building Code of India 2016 has a new chapter on **"Approach to Sustainability"** for buildings that includes environmental concerns and human health and safety aspects related to building materials, minimizing greenhouse gas emissions and life cycle analysis approach. The workshop has been designed to encompass this approach to sustainability in building construction.

About Live Case study of CRISIL House

As part of the workshop, a site visit has been organized to CRISIL House, a LEED Platinum rated green building, on 30 June 2018. The design of CRISIL House includes energy-efficient building envelope and systems, day-lighted spaces as well as recycling of water and water-efficient fixtures. A roof garden insulates against heat and absorbs emissions.



TSAP Student and ICMQ Mentor Team at CRISIL House visit for live case study.



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Stellar team of Mentors from ICMQ for the conduct of the Workshop



Ar. Roshni Udyavar Yehuda is Vice President, Sustainability, ICMQ Certification India Pvt. Ltd. She is a certified Master Trainer for the Energy Conservation Building Codes (ECBC) of India awarded by the Bureau of Energy Efficiency (BEE)-UNDP-GEF (February 2015) and BEE-empanelled energy efficiency expert professional.

Dr. S. R. Kashyap has worked extensively in the field of water management spanning a career of more than 30 years. He has a Ph.D. in microbiology and MSc. in Biophysics from Mumbai University. He was Senior Manager, Purification, System, Eureka Forbes limited for 9 years till March 2011 and has worked in various capacities in water purifications and water recycling systems.



Mr. Avinash Kubal is the Deputy Director of Maharashtra Nature Park Society since October 2000. Armed with a post graduation in Physics and a deep knowledge of ecology, Kubal worked as a forest officer for 15 years during the initial part of his professional life. His expertise is in the field of Sustainable Practices and Ecological Restorations, Water Harvesting and Water Conservation, Wildlife Conservation, Nature Education and Awareness, Land Management, Eco-Tourism, Innovative Ecological Projects.

Dr. Apeksha Gupta is a dynamic architect with pragmatic design skills and technical expertise in the field of sustainable building technology. Has a strong background in building information and energy modeling and applying it effectively in delivering energy-efficient buildings. PhD degree in developing a renewable energy modelling tool compliant with the Industry Foundation Classes. Apeksha is currently Assistant Manager at Ecofirst Services Ltd. (Tata Consulting Engineers).



Er. Shirish Deshpande is qualified Chemical Engineer with more than 25 years of experience. He is a Certified Energy Auditor, BEE accredited ECBC Master Trainer, LEED Accredited Professional as well as GRIHA Trainer and Evaluator. He is Director of Energetic Consulting Pvt. Ltd., a consultancy organization working in the areas of energy, water conservation and green building certification.

Ar. Prajкта Adhikari graduated from Pravara Rural college of Architecture in 2011 and later secured Master's Degree in Environmental Architecture from Rachana Sansad's Institute of Environmental Architecture in 2013 with Distinction. She conducts workshops on Bricks, Brick Joints and Arch building, taking forward the knowledge gained from extensive workshops attended at Laurie Baker Centre, Trivandrum and Auroville.



Ar. Sneha R. Taishete graduated from Pillai's College of Architecture in 2006 and later secured Master's Degree in Environmental Architecture from Rachana Sansad's Institute of Environmental Architecture in 2008. She is the Principal Architect at SRT Consultants as well as an Associate Architect at Rajeev Taishete and Associates.

Ar. Neeta Sarode (M.Arch. Environmental Architecture). A practicing architect since last 20 years. Practice in Architectural and Interior projects. Expertise in corporate interiors.





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Participation of Mentors with students in conducting evaluation of data and interpretation



Experts from ICMQ guiding and evaluating the results of hands on exercise during the workshop



Hands on exercise through models evaluation for identifying contextually relevant building orientation



Peer group interactive learning through discussion and analysis



ICMQ Expert inputs for analytical studies in responsive design



Mentored Studio work on detailed calculations and identification of appropriate strategies

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Students group presentation on the design strategies on interpretation and application



TSAP students attending orientation at CRISIL during site visit



Experts from CRISIL presenting on the strategic building design

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