



blue planet

10 Day Workshop on 'Design Thinking for Sustainability'

Certain Key Ideas

- 1) Sustainability is not to start afresh - it is the tiny adjustments and connections to the way we view and conduct ourselves in the world It's a way of life.
- 2) It's about a scalar recognition of the fact that we need to think larger than ourselves, as a part of the larger system of existence.

Process

This workshop will include

- Introduction - small sessions- each session with something of an idea and some tools for applying the knowledge
- Collaborative Approach - Different subject matter experts present their viewpoints
- Culture - a session talking of why and how it impacts sustainable decision
- Social processes - it's applicability for decision makers and future thinkers
- Exercise- how design thinking can be a path to sustainability - and why is that important
- Final assignment - Presentation by student teams on an innovative solution to an identified real problem (at the village level or urban level), applying the learned concepts of sustainability.
- End note/ questions - Presentation, Interaction & Discussion with the Local Experts and / or a debate

STRUCTURE & CONTENT OF THE WORKSHOP

Structure

Target Audience: Entire batch of Architecture & Interior Design students - the future influencers and specifiers of the products, systems and processes of the built environment.

Group Size: 24 participants.

Schedule: 10 Consecutive Days.

Duration: **4 sessions of 1hr 30mins each day.**

An Introductory Session, and a Concluding interactive brainstorming discussion on the way forward. These sessions are subject to customization in consultation with the Director, Faculty of the Program and invited subject matter experts

Speakers: Technical and subject matter experts are invited (depending on their availability) to pool in their knowledge & experience to provide a wider perspective and underscore the collaborative approach of the workshop.
Probable Expert Faculty includes

DAY	Workshop Schedule			
	1st Session 9:30am - 11:00am	2nd Session 11:30am - 1:00pm	3rd Session 2:00pm - 3:30pm	4th Session 4:00pm - 5:30pm
1	Design and Choice: Impact of Choice Gaia Theory & Systems Thinking Holistic Approach to Sustainability: Environment, Economic, Social & Cultural	Eco Criteria - Embodied Energy, Life Cycle Analysis, Life Cost Analysis	Group Exercises on Analysis of Manufactured & Natural Materials - Costs & Life Cycle.	Students Presentation on LCA
2	Circular Design Thinking Interpreting Circularity through different Economic Models for Sustainable Design Thinking.	Concept of Circularity & Innovation for Value Creation & Growth in the Indian Context - Built Environment, Mobility & Agriculture	Biologics: Learning from Nature to Coordinate, Cooperate & Provide Ecosystem Like Services. Identify Strategies & Models in Nature (organisms & ecosystems) for Patterns & Relationships for Social Responses.	Brainstorming Exercises on Circular Design Thinking for Opportunities & Innovations.
3	Energy Conservation - Alternative Sources of Energy Passive Systems	Active Systems	Integrated Systems Approach to Energy Conservation in the Built Environment.	Practical Exercise on Energy Audit of the premises.
4	Water - A Precious Resource - Conservation of Water - Rain Water Harvesting	Importance of Wetlands, Mangroves Estuaries Waste Management	Field Visit to explore Watershed Management	Interaction with the Community to Understand the Challenges Leading to the prevalent situation.
5	Waste - Pollutant or a Resource Solid Waste Management	Waste Water Management - Recycling Waste Water: Challenges & Opportunities	Field Visit to Safai Vidyalaya	Interaction with the Community to Identify Problems & Proposed Solutions.
6	Eco Credentials of Materials - Pollution: Soil, Water & Air Quality Sustainability, Health & Well Being	Machine made Vs Hand made - The Human Factor	Traditional Wisdom in the Contemporary Context	Walk through the City Trace the evolution (through Photographs) of Natural & Man made Materials from Traditional to the Contemporary Built Structures.
7	Social Sustainability (Social Capital) - Collaboration & Co-creation - Socially Responsible & Responsive Design	Inclusive Planning for the People with the People	Social Inclusion in Myanmar Social Audit of an Indian Village	Brainstorming & Discussion Selection of the Assignment
8 & 9	2 Day Assignment Application of the Theoretical Concepts to Real Life Situations. - Systems Approach to Sustainable Thinking for the Built Environment in the Indian Context. - Circular Design Thinking for Value Creation in the Indian Context.			
10	End Note - Presentation, Interaction, Discussion & the Way Forward Conclusion - Chai at Gandhi Ashram / Safai Vidyalaya			