

"Water and its role in designing the built environment"

7th to 11th August 2023 | Time: 2.30 pm to 5.50 pm

Water is an inevitable topic of discussion and debate, for architects and especially, for teachers in the architectural field when it comes to designing the built environment. Water is connected to architecture as a building material used during construction, as a landscape feature that beautifies, an important part of the climate response in the built environment. Water is connected to building services, while planning for water supply, drainage, surface run off and water harvesting. It connects to history when one studies how ancient civilisations have flourished next to rivers such as the Indus and the Nile. When urbanisation and development get discussed next to lakes, rivers and other water bodies in cities today, we think of urban design and planning. The frugal and smart usage/ recycling of water becomes important to us, especially as a sustainable measure.

SDG Goal 6 stands for clean water and sanitation. The United Nations has also set a few targets related to water to be achieved by 2030. Aligning to this context, this faculty development programme aims to inform the participating teachers at architectural colleges about the different roles that water takes and the issues related to water while designing the built environment which they can assimilate into their studio and theoretical activities in their respective colleges. The following streams have been identified for the expert sessions.

Water and the City (Urban Design)

Water and Heritage

Water and Services

Water, Landscape, Sustainability

Water and Urbanscape

Two expert speakers per theme have been identified and they will be speaking over a course of 5 days through the online mode. Each session would entail a lecture presentation followed by Q&A / discussions/ Interactive sessions with the audience.

OBJECTIVES OF THE FDP

- To understand the importance of water and its inevitable role in the design process through expert talks from diverse fields
- To understand how water may be considered as a resource in various contexts of design
- To become aware of the various initiatives taken in cities to utilise water as a resource sustainably
- To be able to implement the learnings received from the expert talks into the Studio

Convenor

Prof. Jayashree Deshpande,
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DAY 1: WATER AND THE CITY



Sneha Singh
ATTREE

Strategies for Wastewater Reuse in Bengaluru
Bengaluru is grappling with increasing freshwater demand, just as most Indian cities, due to rapid urbanization and exponential population growth. Treated water could become a potential alternative to freshwater as Bengaluru has a decentralised water treatment and zero liquid discharge policy. However only a fraction of the treated water is currently being reused due to various factors. This presentation will shed light on the challenges and opportunities for reusing treated wastewater in Bengaluru.



Shubha Ramachandran

Biome Environmental Solutions Pvt Ltd.
Sustainable Urban Water Management : Learnings from Bengaluru City

While the city of Bengaluru is often spoken about in the context of the frothing Bellandur lake, the tanker mafia, the encroachments of raja kaluves and the flooding of underpasses and gated communities; it is also the city where the largest treated waste water transfer project is underway, where citizens and governments are working together to revive lakes, where there is an attempt to acknowledge the true cost of water and a campaign to promote shallow aquifer management. The talk will cover these specific examples.

DAY 2: WATER AND HERITAGE



Pankaj Modi
INTACH

Role of water structures in historic cities
For centuries, people staying in cities have found various ways to sustain themselves, including water. Responding to the local climate, and the context, people have developed different systems for making water available to the community. This knowledge of developing indigeneous systems have to be understood and respected in the process of development. Through this workshop we will explore methods to understand such systems with cases of Bangalore and Jodhpur.



Roshini Muralidhara

Assistant Professor, REVA University

Intangible aspects of water and heritage - Karaga tradition in South India

Water is an integral element of the cultural landscape of any place. It has played a unique role in human livelihood through both tangible and intangible manifestations as seen across various civilizations. India, as a country has stood testimonial to a rich interaction of water with heritage - both cultural and natural. Apart from being a very important source of life and its various applications in different forms, water is considered to be sacred and holy and is intrinsic to many cultural traditions and rituals across different religions in India. This presentation will discuss the dynamic and intangible values of water and its association with the ecology and cultural landscape of a place with a focus on the 'Karaga' festival in South India.

DAY 3: WATER AND SERVICES



Debapratim Pandit
IIT Kharakpur

Smart solutions for water conservation
The science behind water conservation revolves around the interconnectedness of consumption data, storage technology, and groundwater recharge. By understanding consumption patterns, implementing effective storage technologies, and promoting groundwater recharge, we can achieve a comprehensive approach to water conservation, ensuring a sustainable and secure water future.



Manoj Kumar Tiwari

IIT Kharakpur

Integrated Urban Water Management for Sustainable Water and Sanitation Services

This talk addresses the concept of integrated water management and its significance in urban areas. It highlights how adopting integrated approaches can lead to the provision of effective and efficient water and sanitation services, fostering resilience and environmental sustainability.

DAY 4: WATER, LANDSCAPE, SUSTAINABILITY



Michael Little
IDEA Design Landscape Architecture

Designing for Living Water Landscapes
Michael will share and discuss various landscape projects in South India where water is central to the design. From a small private garden pond to natural swimming pool to a large wetland restoration park Michael will explore the value to creating living aquatic systems in our designed landscapes.



Namrata Narendra
Bengaluru Sustainability Forum

Communities, Conservation and Governance

The relationship we share with water systems in our city is not always visible but they are integral to our everyday lives. For some communities, livelihoods revolve around ground water levels. This session will discuss issues of degradation and disappearance of lakes and wetlands, conservation efforts by citizens and community practices around water bodies. We will also trace the citizen participation and awareness surrounding urban commons such as lakes and rivers in our city.

DAY 5: WATER AND URBANSCAPE



Varun Thautam
Varun Thautam Architects

Water cycle and its planning methods at the urban household
From sources of water to the sinks of water, the flow of water through its multiple uses in an urban household has to be strategically designed. The interactive lecture uses systems design as a lens to guide designers through the design methods, aimed for the conservation and regeneration of this valuable resource.



Naresh Narasimhan
Venkatraman Associates

A Citizens Waterway | The K100 story : proposal for the revitalisation of the Raja Kaluve network, Bangalore

This project is a proposal for the revitalisation of the Raja Kaluve network (Storm Water Drains) in the city of Bengaluru. The design proposal for the pilot program aims to restore these storm water drains as an integral part of the city's ecosystem.

REGISTRATION DETAILS

Registration Deadline: **4th August 2023**

End of the Program Tutorial (EoPT):
11th August 2023 from 6:00PM to 7:00PM

Registration Fee : **Rs 1500/- (Rupees One thousand five hundred only)**
(for both Academicians & Professionals)

Registration Link : <https://forms.gle/Ao4XS2JH9E7PZRseA>

Payment Link : <https://eazypay.icicibank.com/eazypayLink?P1=K00kQYjNFb8LZHkyuUDx6Q==>

Nomination Link : https://drive.google.com/file/d/1zWcFkLsLqBGAxc70VgOTzuFx4M9lwJlac/view?usp=share_link

- Teachers/ architects who wish to register for the training program either under Collaborative Training Program (CTP 2022-23) or as independent individuals may do so by filling up the Google form available on the given link.

- To confirm registration, kindly upload proof of payment towards the registration fees /nomination form on college letterhead before submitting the registration form.

- Link to join the program will be shared one day prior to the program

- This program is not for students.

- E-Certificate of said training program shall be send via email on registered email id of participants, after successful completion of training program by participant i.e. attending all sessions and submitting all assignments, EOPT and feedback form of training program