



Organised Jointly by



Department of Architecture and Regional Planning,
SOE, Gautam Buddha University
In Collaboration with



CSIR-CBRI Roorkee

Introduction

Heritage means something inherited, and often refers to material or immaterial items which have historical, cultural, symbolic, social and/or aesthetic values. A distinction is often made between tangible heritage, which are material elements such as historic cities, collections, archives, natural landscapes, and technological achievements, as opposed to intangible heritage which includes immaterial aspects like knowledge, skills, traditions, craftsmanship, beliefs, social practices, and values. Cultural heritage implies a sense of belonging and can be interpreted as a shared bond within a community. Climate change has become in recent years one of the main threats to cultural and natural heritage, as it can cause the degradation or loss of tangible heritage as well as intangible heritage.

Among preservation measures, Digitalization is regarded as a promising tool that can “enhance access to cultural heritage and the benefits which derive from it” according to the Faro Convention. Indeed, more and more advanced Information and Communication Technology (ICT) and image processing tools allow both a form of digital preservation of heritage and the possibility to remotely discover or explore an artefact or a site through the development of virtually generated versions of it, usually in three-dimensional and interactive visualizations. From 3D configuration of ancient artifacts to applying artificial intelligence to shed new light on how we perceive the lineage of humanities, cultural heritage is headed toward a digital future.

Only 15 percent of the world’s cultural heritage is currently available in a digitalized format. Regardless of how well they have been protected and preserved, a great majority of ancient artifacts and sites are naturally prone to corrosion due to age. In addition, there are incidents of unexpected natural and manmade calamity, as in the recent cases of fire that engulfed the 200-year-old National Museum of Brazil and its collection and the UNESCO World Heritage Site Notre Dame Cathedral in France. Other barriers can come along the way as in the reconstruction of Rani Pokhari in Nepal in 2015, where the contractors were found guilty of using cement over traditional material to minimize the cost. In the wake of such calamities, there has been a growing voice and movement to digitize cultural heritage to preserve them in the face of potential hazards such as climate change, natural disaster, poor policy or inadequate infrastructure.

The transition to digitally sourced preservation efforts provides exciting new opportunities to better protect endangered cultural heritage and expand the scope of knowledge beyond what was imagined in the pre-digital era. Data-driven technology will enhance research capacities and possibly lead ways to constructing macro perspective on humanities. For a better prospect for cultural heritage in the digital era, preparatory measures should be taken to ensure the structural and technical support for digital-based initiatives. Appropriate implementation of digital technology will help safeguard existing heritage and open a pathway to comprehensive digital humanities for posterity.

Objectives

- To define the terms and concepts in Heritage.
- To identify the dimensions of Heritage
- To describe application of AI in Heritage Conservation.
- To demonstrate through an exercise the importance of Lime in Heritage Conservation.
- To assess the role of BIM in Heritage.

Target Group

The target group for this programme would be UG and PG Students, Research Scholars, Faculty and Professionals from fields of Architecture, Conservation, Heritage, Historians, Civil and ICT.

Why this training?

Lack of adequate knowledge, skills and information about Heritage and technologies which have been developed for conservation of Heritage have aggravated the losses and prolonged the recovery process. Informed, skilled and trained human resources can play a significant role in Heritage Conservation, management and loss reduction. The training aims to fill this gap in a proactive mode through such courses.

About Gautam Buddha University

Gautam Buddha University is a university established by the Uttar Pradesh Gautam Buddha University Act 2002 (UP Act No. 9 of 2002) and came into existence in 2008. It is approved by UGC under section 12-B and accredited by NAAC with B+ grade. It is located in Greater Noida, Gautam Buddha Nagar in Uttar Pradesh, India. It is one of Uttar Pradesh's state government universities which commenced its first academic session in the year 2008. The university and offers Bachelors, Masters and Doctoral degrees in Architecture, Interior Design, Urban and Regional Planning, Engineering.

About Department of Architecture and Regional Planning

The Department of Architecture and Planning, SOE,GBU, was established in the year 2008, offering a five year Bachelor Degree Course in Architecture, four year Degree course in B.Des (Interior Design) ,two year PG Programme in MURP. The Department of Architecture and Regional Planning is committed to excellence in the field of architectural education and the discipline of architecture, Planning and Interior Design through its pedagogical, research, extension and outreach activities, directed towards the betterment of the world that we inhabit, in all realms shaped by architecture. It shall uphold universal moral and ethical values in all endeavors that it undertakes and be exemplary in creating positive transformations.

About CSIR-CBRI Roorkee

The CSIR-Central Building Research Institute, Roorkee has been actively involved in generating, cultivating and promoting building science and technology in the service of the country since more than six decades. The institute has been assisting the building construction and building material industries, rural and urban housing, energy conservation, efficiency, fire hazards, structural and foundation problems and disaster mitigation.

Heritage and its Dimensions- Venue and Duration

The programmed will be held at Auditorium Block, Gautam Buddha University, Greater Noida. It will commence from Tuesday, October 3rd , 2023 and will conclude on Saturday, October 7th , 2023. The duration of the training programmed will be 5 days.

Registration : Registration will start on 25.08.23.

Registration fees: Rs 4000 for delegates (Including Food & Accommodation)
Rs 2000 for delegates (without Food & Accommodation)
Rs 1500/-for students (without Food and Accommodation)

Payment Details: RTGS/NEFT at

A/c No.- 6660000100000672

Bank- Punjab National Bank

IFSC Code- PUNB0666000

Branch- Gautam Buddha University, Greater Noida

Registration Form Link:

https://docs.google.com/forms/d/e/1FAIpQLSfI8NBY2EN44bk_eqoDm8iIyasEiKXTMvz4owGH4xseqqsWZQ/viewform?usp=pp_url

Number of Seats: Limited to maximum 40 seats. Participants are selected by organizers on first come first serve basis.

Programme Details

The programme details including the Work Schedule and List of Resource Persons along with their contact details are given in the leaf on Tentative Schedule of the programme.

Evaluation of the Programme

The final session of the programme will be devoted to evaluation and valediction. The participants will be supplied with an evaluation Proforma, which may be completed and handed over to the Programme staff.

Certificate

A Certificate will be awarded to each participant on the successful completion of the programme.

Organizing Team

PATRON

Honourable Vice Chancellor, Prof. R.K. Sinha

Co-Patron

Honourable Registrar, Dr. Vishwas Tripathi
Dean, SOE, Dr. Kirti Pal

Overall Supervision & Guidance:

1. Ar. Madhuri Agarwal, Head of Department, Department of Architecture and Regional Planning, SOE, GBU
2. Dr. Achal Mittal, Chief Scientist, CSIR-CBRI, Roorkee

Course Faculty Coordinator :

1. Ar. Anant Pratap Singh, Asst Prof, Department of Architecture & Regional Planning, SOE, GBU
2. Ar. Pooja Poply, Asst Prof (contract), Department of Architecture & Regional Planning, SOE, GBU
3. Ar. Rajesh Kumar, Asst Prof (contract), Department of Architecture & Regional Planning, SOE, GBU
4. Ar. Garima Rani, Asst Prof (contract), Department of Architecture & Regional Planning, SOE, GBU

Course Coordinator for CSIR-CBRI :

1. Dr. Debduitta Ghosh, Senior Scientist
2. Dr. Siddhartha Behera, Senior Scientist

Technical Assistance : Dr. Sandeep Rana

FOR FURTHER DETAILS, PLEASE CONTACT

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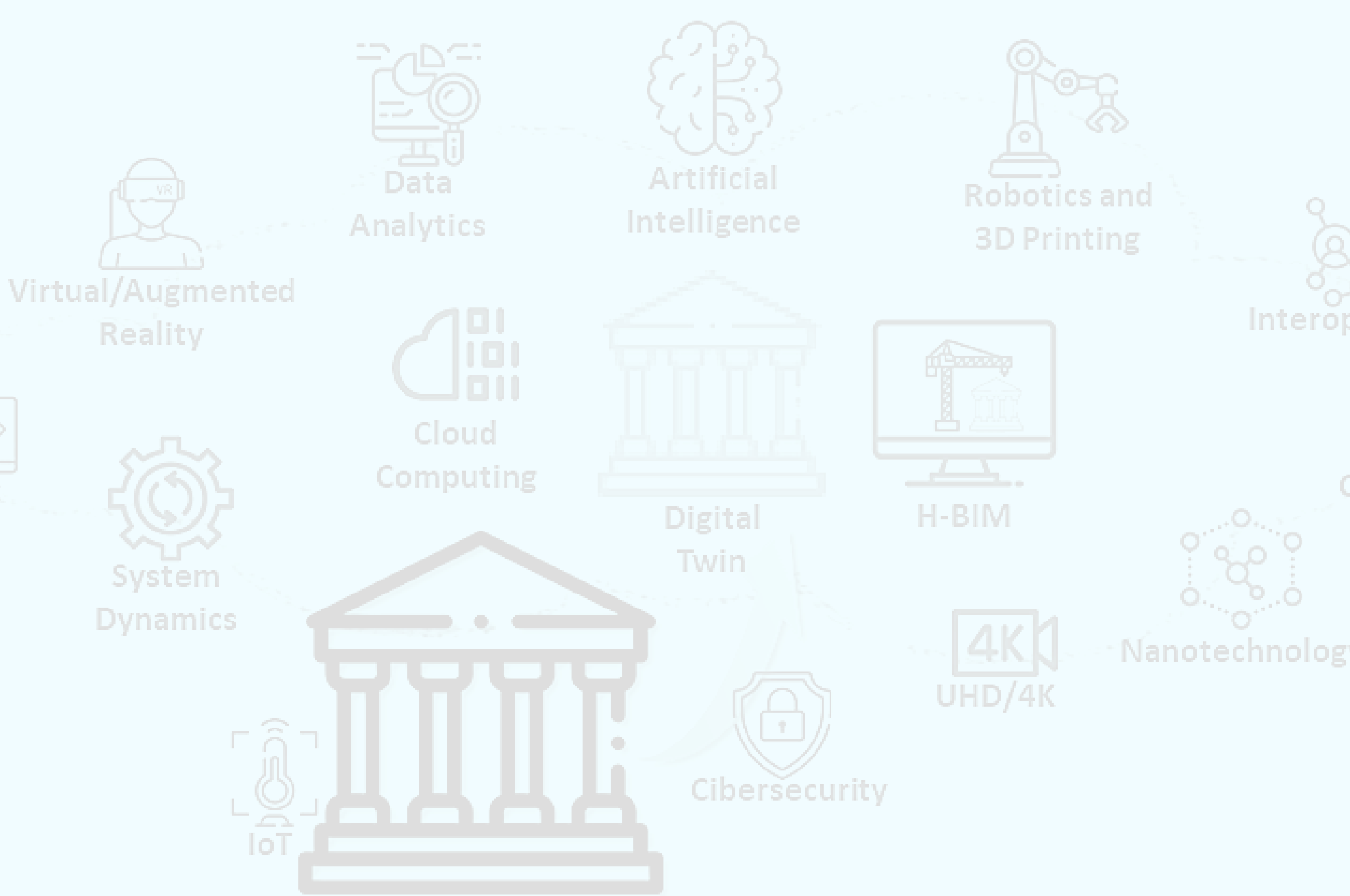
Student Coordinator

Lakshya Kumar, Mob: 8851073787

Dhires Singh, Mob: 9044483779

Proposed Schedule of Training Course on Heritage and its Dimensions (03.10.23-07.10.23)

Hours	Oct 03, 2023	Oct 04, 2023	Oct 05, 2023	Oct 06, 2023	Oct 07, 2023
09.00 - 09.30	Registration	-			
09.30 - 10.30	Inauguration Ceremony				
10.30 - 11.30	Introduction to Conservation of Indian Heritage Dr. Achal Mittal (Chief Scientist, CSIR-CBRI)	Static Analysis of Heritage Structures Mr. Siddharth Behera (Senior Scientist, CSIR-CBRI)	Heritage Materials Dr. L P Singh / Dr. Srinivasa Rao Nai (Principal Scientist, CSIR-CBRI)	Community and Tacit Knowledge in Heritage (Prof. Smriti Saraswat, IIT Roorkee)	Tech based Heritage Conservation for Marginalized Communities (Ar Imamur Hossain) (Asst Professor, Sonargaon University)
11.30 - 11.45	High Tea/Tea Break				
11.45 -12.45	Case Studies on Heritage Structure Conservation by CBRI Dr. Achal Mittal (Chief Scientist, CSIR-CBRI)	Repair and Retrofitting of Heritage Structures Ms Hina Gupta (Senior Scientist, CSIR-CBRI)	Foundation Feature Investigations, Design of Heritage Structures: Case Studies Dr. Manojit Samanta (Principal Scientist, CSIR-CBRI)	Restoration Tool Box, Dr.Aishwarya Tipnis (Architect/ Conservationist/ Visiting Faculty SPA, New Delhi)	Hands on Lime Workshop Dr. Debductta Ghosh (Senior Scientist, CSIR-CBRI)
12.45 - 14.00	Lunch Break				
14.15 - 15.15	Non-Destructive Evaluation (NDE) Techniques for Heritage Structures Dr. Debductta Ghosh (Senior Scientist, CSIR-CBRI)	Dynamic Analysis of Heritage Structures Dr. Debductta Ghosh (Senior Scientist, CSIR-CBRI)	Foundation studies of Cultural Heritage sites using Non-Invasive Techniques Dr. P.K.S. Chauhan (Senior Principal Scientist, CSIR-CBRI)	Restoration of Heritage structures: A Case Study Dr.Mala Mohan (Director/ Founder Thetics Design)	Feedback Session
15.15 - 15.30	High Tea/Tea Break				
15.30 - 16.30	Heritage BIM Mr. Siddharth Behera (Senior Scientist, CSIR-CBRI)	Online Monitoring of Heritage Structures Ms Hina Gupta (Senior Scientist, CSIR-CBRI)	AI in Heritage Conservation Ar Anant Pratap Singh (Asst Prof, , Department of Architecture & Planning, SOE, GBU)	Conservation of Traditional Art form & Structures Ar Madhuri Agarwal (HOD, Department of Architecture & Planning, SOE, GBU)	Valedictory



Cultural Heritage Digitisation