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CIRCULAR

Subject: Workshop on Climate Crisis Responsive Curriculum, Pedagogy, Skill Building and Training regarding...

Reference:

1. email from Savitha Narayanamurthy fairconditioning foundation, dated: 15.10.2024
2. The Hon'ble Vice-Chancellor's approval dated: 04.11.2024

VTU, in partnership with the Fairconditioning Foundation, is conducting a series of Teacher Training workshops aimed at enhancing curriculum development and pedagogy refinement.



The upcoming workshop, scheduled from **November 25-to-28, 2024**, at VTU's Nagarbhavi campus in Bangalore, will cater to 30 professors from colleges across Bangalore-Mysore.

We request all Directors/Heads of Department and the School of Architecture and Planning to:

1. Share this information with concerned teachers.
2. Ensure participation of at least **one faculty** member from each School of Architecture.
3. Submit the participating faculty member's details to the undersigned.

Registration is mandatory; please use the link provided in the invitation letter."

Warm regards,


REGISTRAR


To,

The Directors/ Heads of the Department, School of Architecture and Planning are under the ambit of the University.

Copy to:

- The Vice-Chancellor through the secretary to the VC for information.
- The Chairperson and Members Board of Studies in Architecture VTU Belagavi for information
- The Director(I/c) ITI SMU VTU Belagavi for information and to upload the circular on the VTU web portal.
- The Regional Director, VTU Bengaluru, to arrange tea and working lunch for all participants and accommodation for resource persons and outstation faculty attending the workshop.
- Office Copy

Teacher Training Workshop
Visvesvaraya Technological University (VTU)
in collaboration with
Fairconditioning Foundation

Workshop on

Climate Crisis Responsive Curriculum, Pedagogy, Skill Building and Training

Background: Buildings consume one third of the global energy output and produce 20% of the total Greenhouse Gas (GHG) emissions. With the Climate crisis being the reality of the current times, the energy demand of the buildings is increasing and at the same time, making the marginalized population more vulnerable with increasing climate extreme events such as heat stress, floods, droughts, etc. There is a need for the building sector to reduce the environmental impact of building, with construction of energy efficient sustainable buildings and at the same time cater to climate resilient design. Less than 25% of the architecture colleges offer courses that embed energy efficiency or sustainable design knowledge into the student's critical thinking and design skill set. Furthermore, professors across architecture and engineering colleges are left to grapple with a dearth of high-quality teaching aids: physical scale-models and virtual resources. The only way to address the aforementioned concerns, is to build capacity within India's architecture and engineering colleges (those that teach Refrigeration & Air Conditioning – RAC design) to focus on horizontal and vertical integration, where relevant subjects are infused with sustainable design principles.

The current architectural curriculum of the university has been upgraded keeping in mind the above articulated realities, challenges and therefore needs. VTU is organizing series of Teacher Training workshops for the professors to absorb these changes in the curriculum and build, refine their pedagogy accordingly, in collaboration with Fairconditioning Foundation.

Fairconditioning is a not for profit programme operated by cBalance registered as Fairconditioning Foundation. It is an evidence-based policy support programme that is creating a cohesive sustainable cooling ecosystem and deriving from it, a critical mass of evidence for institutionalizing academic, professional and corporate level transformation to achieve behavior change.

VTU is organizing the third of the Teacher Training workshop series from 25th Nov – 28th Nov 2024 for colleges across Bangalore-Mysore, to be held offline in physical setup at VTU Nagarbhavi campus in Bangalore. The workshop is intended to be quite immersive and interactive supported by hands-on tools and activity based learning.

Key focus and takeaways for participants is:

- Understanding and absorbing the content and pedagogical changes in the curriculum.

- Refreshing technical skills related to Building physics, energy efficient building design, sustainable cooling technologies, bioclimatic design/passive design interventions for new buildings as well as retrofitting.
- Learning sustainable cooling technologies and passive design principles through demonstration of and hands-on operation of the physical teaching models, as well as learning to integrate them in building designs using Smart Energy software.
- Sensitization of the issue of heat stress and exploring and expanding potential and responsibility of architecture enabling thermal comfort in Informal settlements.
- Co creating horizontally and vertically integrated sustainable design approach and deliberately interconnected lesson plans for courses, across the primary subject streams in the 5 year time span of the entire course.

The workshop will accommodate around 30 professors. Kindly register using this link [VTU Teacher Training Workshop 3 \(google.com\)](#)

fAIR CONDITIONING

Supported by the State of Geneva, Switzerland, The Oak Foundation and Shakti Sustainable Energy Foundation, India

A Training of Trainers Program for VTU updated curriculum 2021-22

Transforming Architectural education and pedagogy in the praxis of Climate crisis

Organized by
Visvesvaraya Technological University
&
Fairconditioning Foundation.



Who can Participate?

**Architecture Professors
teaching Technical Courses**

Date

25th Nov- 28th Nov 2024

Time

9.00 am to 5:00 pm

Venue

Visvesvaraya Technological University,
Regional Center Bengaluru,
RHCS Layout Annapoorneshwarinagar,
Nagarbhavi, Bengaluru-560091.

Topics Include

- ✓ Understanding the Architecture curriculum changes
- ✓ Building Life Cycle Assessment, Sustainable Cooling Technologies
- ✓ Thermal Comfort, Passive Cooling Psychrometry
- ✓ Pedagogy Rethinking
- ✓ Cocreating a sustainability integrated curricula-lesson plans
- ✓ Informal Housing Perspectives

For more information: contact hasan@cbalance.in | [+919769729964](tel:+919769729964), shruti@cbalance.in | [+91-7625027620](tel:+91-7625027620)
or visit www.fairconditioning.org/acip



fAIR CONDITIONING

Supported by the State of Geneva, Switzerland, The Oak Foundation and Shakti Sustainable Energy Foundation, India

Transforming Architectural education and pedagogy in the praxis of Climate crisis A Training of Trainers Workshop for Architecture Professors teaching Technical Courses to integrate climate resilience & sustainability perspectives in Architectural curricula

Day 1	<ul style="list-style-type: none">• Examining the role of technical subjects in Architecture• Nexus between Climate Justice, Built Space and Architecture Education-Part 1• Nexus between Climate Justice, Built Space , Architecture and missing narrative of Informal Housing -Part 2• Life Cycle Assessment of a building and Sustainable materials
Day 2	<ul style="list-style-type: none">• Circularity in buildings• Building heat transfer, Passive Design & Cooling• Psychrometry and use of Psychrometric chart in Climate Analysis
Day 3	<ul style="list-style-type: none">• Thermal Comfort & Active Cooling• Sustainable Cooling technologies - Evaporative Cooling and Structure and Radiant Cooling• Energy Conservation in Buildings
Day 4	<ul style="list-style-type: none">• Water & waste management in Buildings• Rethinking Pedagogy• Co-creation of Lesson Plan.• Classroom Learning Aids Demo• Feedback from the participants.• Closure.
Focused Objective	Pedagogy Support for delivering content from the lenses of Climate Change.

Register before **20th Nov2024**

<https://forms.gle/zJBYX1Ka5N9ngaiC8>