

# RACHNA 2.0

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

Two-Day Awareness Programme for Architecture students on

‘Innovative Construction Technologies , Best construction practices & Thermal comfort For Affordable housing’

Location: Department of Planning & Architecture

Mizoram University, Aizawl | Date :27<sup>th</sup>– 28<sup>th</sup> February 2023 , Monday & Tuesday | Time : 9:30 AM to 5:30 PM

## ABOUT THE TRAINING:

The Ministry of Housing & Urban Affairs (MoHUA) in partnership with GIZ and Building Material and Technology promotion Council (BMTPC) is hosting series of trainings/workshops on Innovative Construction Technologies & Thermal Comfort for Affordable Housing named RACHNA (Resilient, Affordable and Comfortable Housing through National Action). The prime focus of this training is thermal comfort and its necessity in the affordable housing sector. The training covers the thermal comfort basics, material influences, low-cost solutions & codes that are available in India to create Climate-Smart Buildings. The outcome of the training would be to make the stakeholders in the affordable housing sector understand the need for thermal comfort & urge them to include no cost or low-cost strategies in upcoming projects.

## JOIN US AT:

Department of Planning and Architecture ,  
Mizoram University , Aizawl

For Further Details, Please drop an email to  
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## TARGETED STAKEHOLDERS



Senior Govt.  
Officials &  
Policy makers



Built-environment  
professionals &  
Govt. Departments



Building Sector  
Stakeholders



Technograhis

## 'Innovative Construction Technologies , Best construction practices & Thermal comfort For Affordable housing'

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### AGENDA – DAY 1

DURATION	TOPIC	SPEAKER
9:30-10:00	Registration	CSB East cluster cell
10:00-10:15	Welcome Address	Prof. Zaithanzauva Pachuau Dean, Department of Planning & Architecture, Mizoram University
	Special Address	Ar. Vineet Shrivastava HOD , Department of Planning & Architecture, Mizoram University
10:15-10:45	Introduction to MoHUA's Housing for All Programme, GIZ, and the Bilateral Programme – Climate Smart Buildings (CSB) New age innovative technologies along with 6 LHP construction technologies	GIZ Team
10:45-11:00	TEA - BREAK	
11:00-12:00	Session 1: Thermal Comfort: a) Indices, b) Thermal comfort in Affordable Housing c) Passive strategies & Building Physics, d) Case studies, e) Live Exercise (passive architectural design strategies, building construction material )	Smt. Ragini Goswami ECBC Master Trainer certified by Bureau of Energy Efficiency
12:00-13:00	Session 1: (Contd.) Thermal Comfort: a) Standards, b) IMAC, c) ASHRAE, d) Effects of materials on Thermal Comfort , case studies & Best Practices	
13:00-14:00	LUNCH BREAK	
14:00-15:00	Session 2: ENS 2018 brief With technical exercise (Calculating RETV etc.) Session 2: Eco Niwas a) Low Energy Comfort Systems & BEE Star Labelling, b) Indian & International Best Practices	Smt. Ragini Goswami ECBC Master Trainer certified by Bureau of Energy Efficiency
15:00-16:00	Session 2: (Contd.) Green Buildings: a) Brief, b) Green measures, c) Indigenous & low-embodied materials, d) Best practices	Smt. Ragini Goswami ECBC Master Trainer certified by Bureau of Energy Efficiency
16:00-16:15	TEA - BREAK	
16:15-17:00	Session 2: (Contd.) a) Low Energy Comfort Systems & BEE Star Labelling, b) ENS 2021 Compliance , Recommendation to current & future Affordable Housing projects ,Thermal comfort and Case studies	Smt. Ragini Goswami ECBC Master Trainer
17:00-17:30	Q&A	CSB East cluster cell

**CLOSE**

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### AGENDA – DAY 2

DURATION	TOPIC	SPEAKER
9:30-10:00	Registration	CSB East cluster cell
10:00-10:30	Session 3: a)Affordable Housing Design Challenge b)Design Problem Introduction and group division	Smt. Ragini Goswami ECBC Master Trainer certified by Bureau of Energy Efficiency
10:30-13:00	Session 3: Design Challenge Exercise	CSB East cluster cell
13:00-14:00	LUNCH BREAK	
14:00-16:00	Session 3: Design Challenge Exercise	CSB East cluster cell
16:00-16:15	TEA - BREAK	
16:15-17:15	Design Challenge Judgement and winner Announcement	CSB East cluster cell
17:15-17:30	Vote of Thanks	GIZ / Climate Smart Buildings (CSB) Cell

**CLOSE**