



K. S. School of Engineering and Management

Kanakapura Road, Bengaluru -560109

Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC

www.kssem.edu.in

Department of Management Studies

Session: 2023-24 (ODD Semester)

REPORT ON EXPERT GUEST LECTURER

Event name: “Sustainable Built Environment”

Date and time: Wednesday, 31-01-2024, 1:00 – 03.00 pm

Resource Person: Ar. Thrivikram, Principal, KS School of Architecture.

Audience: II year MBA students

Venue: Architecture Seminar Hall KSSA

Number of participants attended: 50

Event Coordinator: Arundathi K L

KEY POINTS COVERED:

- ❖ Sustainability and its importance
- ❖ Types of carbon buildings
- ❖ Energy consumption & CO₂ emissions in the Construction industry
- ❖ Strategies to reduce CO₂ emissions & Energy Consumption in the construction cycle

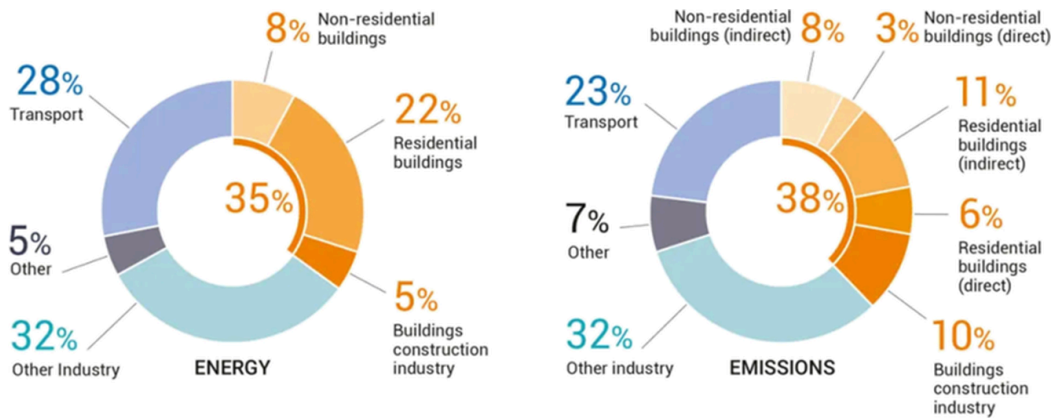
Ms. Namratha welcomed and introduced guest of the day Ar. Thrivikram.

Ar. Thrivikram addressed the students regarding sustainability and its need in the current scenario. Sustainability is adaptation & continuous survival of a system, entity or life forms within the boundaries of resources in a given environment.

The importance of three main pillars of Sustainability represent, the Environment, Social responsibility, & the Economic. These three pillars are also informally referred to as People, Planet, Purpose, & Profits

Ar. Thrivikram has shared the importance of sustainability by highlighting Carbon footprint. Carbon footprint refers to the increase in the amount of harmful greenhouse gas like CO₂ in the atmosphere due to the actions and choices of people both individually and as a community. Sir also shared the Carbon footprint /person -Illustration.

Sir, has explained about Energy consumption & CO2 emissions in the Construction industry. It helped to identify the key components contributing to Energy consumption & CO2 emissions.



Sir, throw light on types of carbon buildings like embodied carbon and operational carbon, Carbon footprint & Energy consumption during Construction stages.

Strategies and methodologies to reduce CO2 emissions & Energy Consumption in the construction cycle.

By using materials:

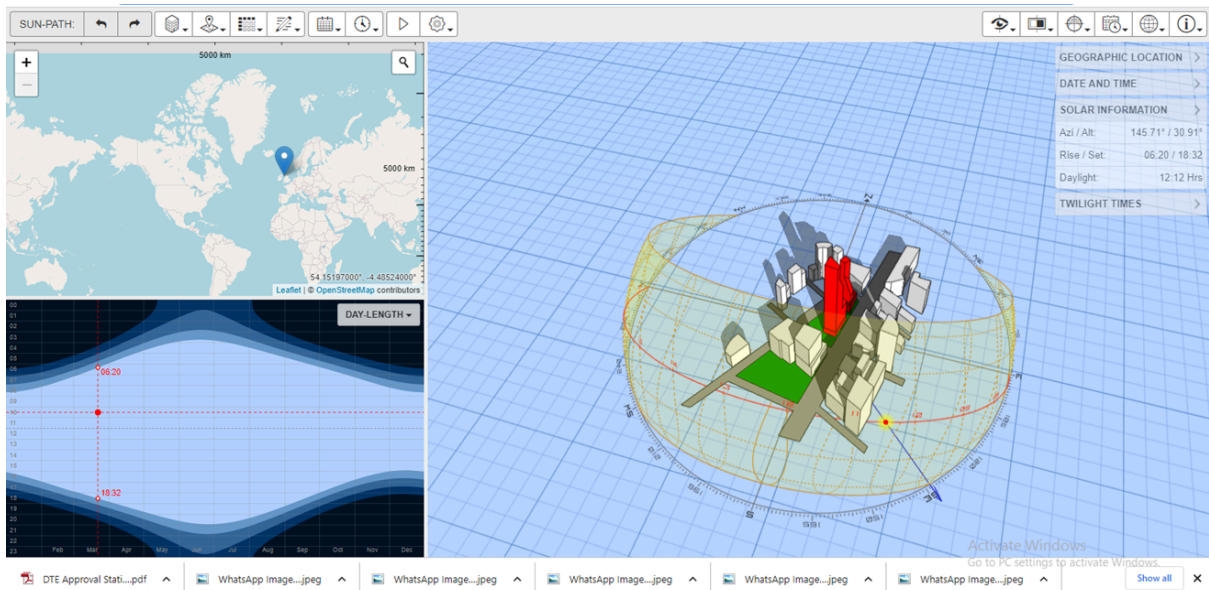
1. Using Traditional Techniques of Manufacturing reduces by 75-80%
2. Sundried bricks
3. Attangudi tiles
4. Locally available stones /Bamboo
5. Examples like Making of Attangudi tiles (Chettinaad Style)

To be achieved through DESIGN

1. To reduce Embodied & Operational CARBON
2. To minimize ENERGY consumption during construction & operation

Net - Zero Energy Buildings / Green Buildings

1. Sun Path Study (<https://drajmarsh.bitbucket.io/sunpath3d.html>)
2. Shadow Study ,
3. Daylight Study



Tribes: Worlds only Sustainable Communities

1. Navajo Indian tribe : Native American
2. IGLOO: Frigid Zones
3. Hopi tribal : Africa
4. Zemez tribal house: Native American
5. Rabri tribal house: Rajasthan
6. Rural Village House : Jaisalmer

Contemporary Net - Zero Energy / Green Buildings by using renewable energy sources like solar, wind, hydro and bio energy.

CONTEMPORARY NET ZERO ENERGY / GREEN BUILDINGS



Poster:



KAMMAVARI SANGHAM (R), 1952
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
APPROVED BY AICTE-1-5279601, NEW DELHI; AFFILIATED TO VTU, BELAGAVI
ACCREDITED BY NAAC

**DEPARTMENT OF MANAGEMENT
STUDIES & RESEARCH CENTER**

**ISR CLUB PRESENTS
A GUEST LECTURE ON
“SUSTAINABLE BUILT
ENVIRONMENT”**



**AR. THRIVIKRAM
PRINCIPAL
KS SCHOOL OF ARCHITECTURE**

**ON 31-01-2024
1 PM
ARCHITECTURE SEMINAR
HALL**



**COORDINATOR
PROF ARUNDHATI K L**

**PRINCIPAL
DR. K RAMA NARASIMHA**

**CEO
DR. K. V. A BALAJI**

Social Media link:

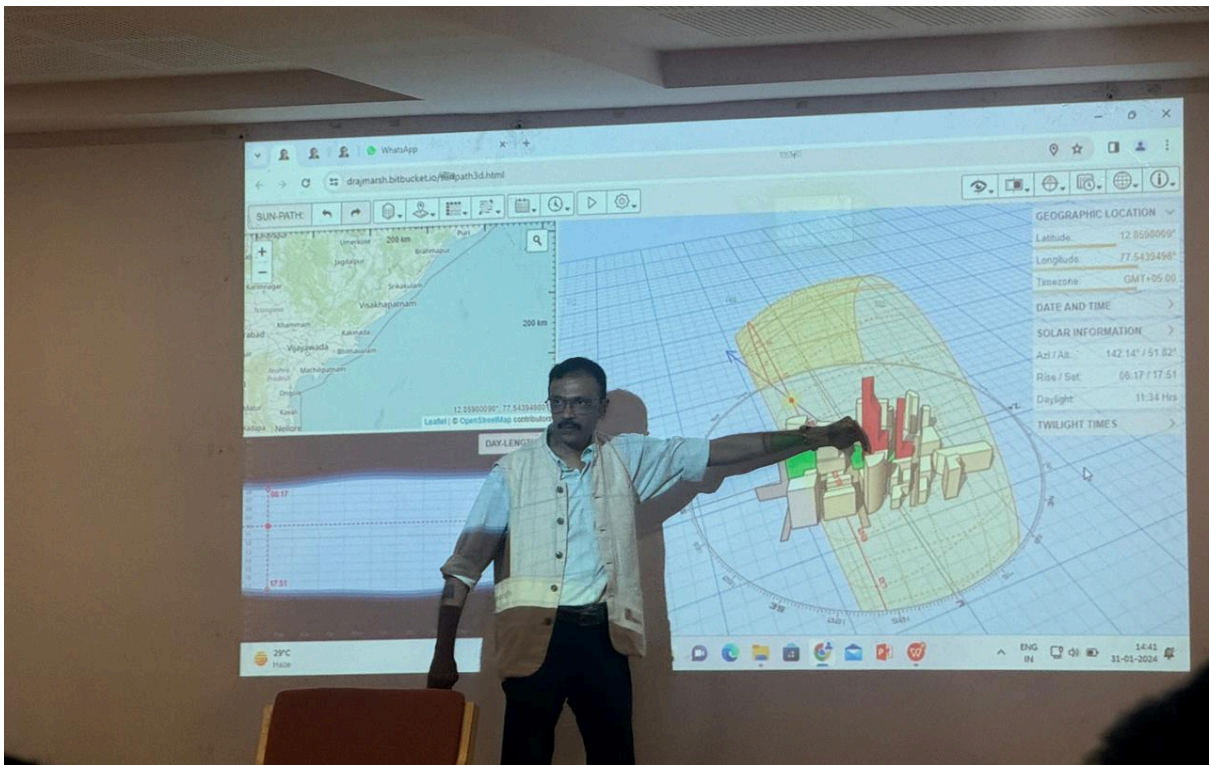
Instagram: <https://www.instagram.com/p/C1ECrRCP5h0/?igsh=d3M4amF6dmZhdWRv>

LinkedIn:

https://www.linkedin.com/posts/kssem-mba-department-394b50211_ksgi-kspuc-kssea-activity-7145303992326107136-aO5Z?utm_source=share&utm_medium=member_android

Pictures of the Event:





Picture of speaker and brief profile:

Founder & Principal Architect, at SPACES (architecture of humane spaces), Bengaluru, Practicing freelance Architecture since 1998 till date, involved in designing several typologies like residential, commercial, hospitality, institutional, Industrial spaces with 24 years of industry experience, Registered with Council of Architecture, New Delhi since 2000 IAD Award 2009 for Best Architect Hospitality for Hotel East End, at Coorg In recognition of participation Empanelled Arbitrator at Hyderabad Arbitration Center, involved in resolving disputes arising out construction contracts of domestic and international in nature.

Education profile:

Bachelor in Architecture from BMS College of Engineering 1998

Master in Architecture (Construction Project Management) 2020 from SJB SAP, Bengaluru

Academic profile:

Former Associate Professor at Sir M.V.S.A, Bengaluru.2020-21

Former Professor and Course coordinator(PG) at SJB SAP, Bengaluru-2021-22

Authored and Published 2 papers in

IJSR IJSR-ART2020113 -Flood disaster-Risk response & reduced response time

IJSR-ART20201731-Deconstruction & Material reuse Role of Architects

Sthala Vol-1 Jan 2021 ISSN ONLINE: 2582-941-Post Disaster Reconstruction: Urban Context

Sthala Vol-2 Jan 2022 ISSN ONLINE: 2582-941-Success rate of Indian construction industry in reaching global Climate Change targets set in CoP26 (2021): A critical analysis.

Currently working on Post disaster reconstruction management, disaster resilience Climate change and Architecture, humane-built forms-and context adaptability

CO-ORDINATOR**Mrs. Arundathi K L****HOD-MBA****Dr. Shekar H S****PRINCIPAL/DIRECTOR****Dr. K Rama Narasimha**