

# Topics of Workshop

1. Seventeen sustainable development goals of United Nations to be achieved by 2030: Action planning and Implementation for Civil Engineers with the evaluation of Ecological footprint , Water footprint and Carbon footprint - Dr.Mohammed Hussain, Professor & Founder Coordinator , Centre for Sustainable Technologies for Ecosocial Resilience to Global Climate Change (CST-ERG), GRIET.
2. River Flood Mitigation Measures : Case Studies - Er.M.K.Srinivas, Former Chairman (Retd), Ganga Flood Control Commission, Govt. of India.
3. My relentless journey of discovery of Innovative Weaving Machine -Sri M.Shiva Kumar , a grassroot level innovator and entrepreneur . His innovative weaving machine is a solution to the physical distress of handloom weavers and he has won the award of Telangana State Government.
4. Green Buildings as sustainable construction & Procedure to become Accredited Professionals of Indian Green Building Council (IGBC)- Experts from Indian Green Building Council (IGBC)
5. Nature Cure Methods to improve our immune systems for sustainable health – Dr. M.Nagalakshmi, Senior Medical Officer, Govt.Nature Cure Hospital, Govt. of Telengana, Begumpet, Hyderabad
6. Field visit to nearby Platinum rated green building in Hi-Tech city in Hyderabad



## Organizing Committee

**Chief Patrons** : Dr Jandhyala N. Murthy, Director, GRIET  
: Dr. K.V.S. Raju, Sr. Administrative Officer, GRIET

**Patron** : Dr J. Praveen, Principal, GRIET

**Convenor** : Dr Mohammed Hussain, Professor ,  
Dept. of Civil Engineering, GRIET

**CoConvenor** : Dr. G.V.V.Satyanarayana  
Professor & HOD,  
Dept. of Civil Engineering, GRIET.

## Coordinators

Mr. Y. Kamala Raju, Assistant Professor, GRIET  
Mr. A. Prakash - Assistant Professor, GRIET.  
Mrs. G. Swetha, Assistant Professor, GRIET  
Mr. C. Vivek Kumar Assistant Professor, GRIET

## Address for Communication

**Dr. Mohammed Hussain, Professor**

Convenor, STEPS - 2023,  
Department of Civil Engineering  
Gokaraju Rangaraju Institute of Engineering and  
Technology (GRIET), Bachupally,  
Kukatpally, Hyderabad – 500 090.

Email :[steps2012@griet.ac.in](mailto:steps2012@griet.ac.in)

(Off): 7207344440

## Boarding & Lodging

All the participants of the seminar will be provided with working lunch.

The boarding and lodging at local hotels will have to be borne by the participants. However, the hotel room will be reserved on prior intimation.

## Registration fee

There is a registration fee of Rs 100/- per participant.



**13<sup>th</sup> Annual National Workshop on  
Sustainable Technologies in Civil Engineering:**

**Perspectives and Strategies**

**STEPS - 2023**

**20 December 2023**



## Organized by

Department of Civil Engineering  
Centre for Sustainable Technologies for Eco Social  
Resilience to Global Climate Change (CST-ERG)  
&  
Centre for Water Resources Engineering and  
Management (CREAM)

Gokaraju Rangaraju  
Institute of Engineering and Technology  
(Autonomous)  
Bachupally, Kukatpally, Hyderabad-500090  
Website: [www.griet.ac.in](http://www.griet.ac.in)

## GRIET

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET) is a premier institute of engineering, established in the year 1997 under the patronage of the Gokaraju Rangaraju Educational Society. The college is approved by AICTE and it is affiliated to JNTUH. It is a UGC autonomous Institute. The mission of GRIET is to achieve and impart quality education with an emphasis on practical skills and social relevance. The college is NBA accredited for all B. Tech programmes i.e. CE, ME, CSE, IT, ECE and EEE & four M. Tech programmes. The institute is accredited by NAAC with A++ grade. The college was recipient of TEQIP-II grant from World Bank. GRIET is SIRO recognized Institute with NIRF rank in the band of 101 to 150 in Engineering Category. GRIET is accredited by Tata Consultancy Services (TCS).

### Department of Civil Engineering

The Department of Civil Engineering is established in the year 2008. It is a fast growing discipline in tune with the infrastructure growth. The department has well equipped laboratories with an emphasis on practical skills and social relevance. The Department has experienced and well talented faculty which include six doctorates. The Dept. is offering PG course in M.Tech Structural Engineering. Centre for Sustainable Technologies for Eco Social Resilience to Global Climate Change (CST-ERG) & Centre for Water Resources Engineering and Management (CREAM) are established to encourage students and faculty to engage in projects with an emphasis on the environment friendly technologies and water conservation management.

### Inner Nonverbal Meaning of STEPS -2023 Logo

The logo contains the figures of Globe, Polar Ice caps (top and bottom circles) and Drop. The drop represents water drop, oil drop, flame and leaf emphasizing the importance of global conservation of water, oil, energy and environment respectively. The logo contains the caption: Let us together think globally and act locally for sustainable development.

### About the workshop

United Nations sustainable development summit held during 25-27, September 2015 is an indication of global action on sustainable development. United Nations 2030 agenda for sustainable development includes seventeen (17) Sustainable development goals and 169 targets (<http://Sustainabledevelopment.un.org>). Sustainable Technologies in civil engineering have a major role in attaining these goals. They also improve World Happiness Index of every country, being published annually by United Nations Sustainable Development Solutions Network. India has ranked 126 out of 146 countries in World Happiness Index in 2023, FINLAND being the happiest country in the world. India has adopted the Paris Climate Change Agreement .On 2 October 2015 (Mahatma Gandhi Jayanthi), India has submitted its INDC (Intended Nationally Determined Contribution) to the UN Climate body UNFCCC (United Nations Framework Convention on Climate Change) ([newsroom.unfccc.int](http://newsroom.unfccc.int) & [treaties.un.org](http://treaties.un.org)). India has promised to reduce Greenhouse Gas Emissions (Emission Intensity of Gross Domestic Product) by 33 to 35 percent by 2030 from 2005 level ([envfor.nic.in](http://envfor.nic.in)).

**Objectives:** In the present millennium, “Sustainability” and “Healthy Environment” are increasingly becoming key social, political, scientific and engineering issues. Health is the state of beingness (not becomingness) in an unbroken and indivisible wholeness and completeness in continuous mode from moment to moment. Health is also the expansion of consciousness (Margaret Newman). Perspective expansion with mindful self-compassion ([self-compassion.org](http://self-compassion.org)) and right brain oriented three dimensional observation, creative imagination and visualization cause the expansion of consciousness.

Consciousness is the state of being able to use senses and mental powers to understand what is happening (Oxford Advanced Learner's Dictionary). High level of consciousness at Dr. David R. Hawkins 's calibration level above 600 (maximum 1000) and Dr. Stephen R Covey's abundance mentality (not scarcity mentality) are to be used by all stakeholders for designed thinking (not default thinking) to implement seventeen sustainable development goals. Transcendental and eternal vision of **noumenon** and temporal vision of **phenomenon** are both required (like two DNA strands) with burning aspiration of the **wholeheart** with still mind of **alpha brain waves** of ten cycles per second for mental wellbeing (<https://www.verywellmind.com/what-are-alpha-brain-waves-5113721>) for achievement of these goals. This causes the attitude of high **inner potential energy** (which spontaneously converts to high **outer kinetic energy**) with the integration of **higher order thinking** (six ascending levels of Bloom's cognitive domain development), **higher order feeling and valuing** (five ascending levels of Krathwohl's affective domain development ) and **higher order doing** (five ascending levels of Dave's psychomotor domain development). Let us together get inspired to involve in an effective daily action by the campaign of UNESCO "# Kindness Matters"(with 5, 095, 307 acts of kindness as on 13/12/2023) (<https://mgiep.unesco.org/kindness>) & "Act Now"(with 16,625,592 actions taken around the world as on 13/12/2023) (<https://www.un.org/actnow>) and the sustainability app for climate action "AWorld" (<https://aworld.org>) of United Nations.

Expansion of accurate self-awareness requires the joint function of continuous receipt of functional feedback from all people and all events & continuous appropriate self -disclosure from moment to moment (**JOHARI WINDOW**).

**Health** is a state of complete physical, mental and social well-being, and not merely the absence of disease or infirmity. **Public Health** is the art and science of preventing disease, prolonging life and promoting health through the organized community effort. **Occupational Health** is the promotion and maintenance of the highest degree of physical, mental and social well-being of workers in all occupations by preventing departures from Health, controlling Risks and the adaptation of work to people and people to their jobs (**World Health Organization**). In this context, the present national workshop with a focal theme on "**Sustainable Technologies in Civil Engineering: Perspectives and Strategies (STEPS-2023)**" is an attempt to emphasize the urgent need for creating awareness about environmentally sustainable technologies in Civil Engineering.



## Application Form

13<sup>th</sup> Annual National Workshop on “Sustainable Technologies in Civil Engineering: Perspectives and Strategies”  
**STEPS-2023**  
**20 December 2023**

### Applicant's Details

Name:.....

Designation:.....

Department:.....

Mobile No. :.....

Organization:.....

E-mail ID:.....

Qualification: .....

Experience: .....

**Declaration:** The information furnished above is true to the best of my knowledge. I agree to abide by the rules governing the course.

Place:

Date:

**Signature of the applicant**

Forwarded/ Sponsored by

**Signature and Seal of Principal/ Institute**

Place:

Date:

(Photo copies of the registration forms are permitted)