

Topics of Workshop

1. Seventeen Sustainable Development Goals of United Nations to be achieved by 2030: Action Planning and Implementation for Civil Engineers. **Dr. Mohammed Hussain**, Professor, GRIET.
2. Sustainable Practices of Construction in India and World : Case Studies - **Dr. Subramaniam Kolluru V.L.** Professor, Department of Civil Engineering, Indian Institute of Technology (IIT), Hyderabad.
3. Computer aided Decision Support Systems using Internet of Things (IoT), Geospatial Technologies and Management Information Systems for real time operation of Irrigation Projects towards Sustainable Water Management : Case Studies - Presentation by **M/s Vassar Labs**, Hyderabad.
4. "Water Hyacinth Removal Machine in water bodies" by **Sri Godasu Narsimha**, a farmer and Gross Root Innovator of many machines & Recipient of Sustainable Enterprize Award 2019 & Gandhian Young Technological Innovation Award 2016 by National Innovation Foundation of India & Many letters of appreciation from National and International organizations.
5. Field Visit to Indian National Centre For Ocean Information Services (INCOIS), Hyderabad. It is an Autonomous body under the Ministry of Earth Sciences, Govt. of India. Services being rendered by INCOIS: Marine Fisheries Advisories, Ocean State Forecast, Tsunami Early Warnings, Storm Surge Warnings, Coral Bleaching Alerts, Algal Bloom Information Service, Coastal Geospatial Applications, Updates of Climate Indices such as El Nino
(Source: www.incois.gov.in)



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

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Dr. T. Srinivas, Professor, GRIET
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Registration Fee is Rs.100/- Per Participant
(Rupees One Hundred only)

Coordinators

Mr. Y. Kamala Raju, Assistant Professor, GRIET
Mr. S.P. Raju, Assistant Professor, GRIET
Mrs. G. Swetha, Assistant Professor, GRIET

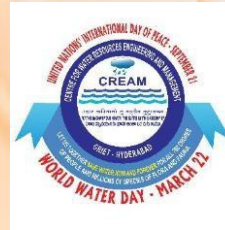
Registration Link In Google Form:
<https://forms.gle/bQ5YC5GaysGtdA619>

Address for Communication

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12th Annual National Workshop on
Sustainable Technologies in Civil Engineering:

Perspectives and Strategies

STEPS - 2022

28 December 2022



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

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 is affiliated to JNTUH. It is 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 six B. Tech programmes i.e. CE, ME, CSE, IT, ECE and EEE & five 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 of 148 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 seven doctorates. The Dept. is offering PG course in M.Tech Structural Engineering with an intake of thirty students.

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

These centers are established to encourage students and faculty to engage in research projects with an emphasis on the environment friendly technologies and water conservation management.

Inner nonverbal meaning of STEPS -2022 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://Sustainable.development.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 136 out of 146 countries in World Happiness Index in 2022, 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 & treaties.un.org). India has promised to reduce Greenhouse Gas Emissions (Emission Intensity of Gross Domestic Product) by 45 percent by 2030 from 2005 level (envfor.nic.in).

Objectives: In the present millennium, "Sustainability" and "Healthy Environment" are increasingly becoming key social, political, scientific and engineering issues. According to the principle of organic agriculture, health is the wholeness and integrity of living systems. It is not simply the absence of illness, but the maintenance of physical, mental, social and ecological well being. Immunity, resilience and regeneration are key characteristics of health. Organic agriculture sustains and enhances the health of soil, plant, animal, human and planet as one and indivisible.

Health is also the expansion of consciousness (Margaret Newman). Perspective expansion with mindful self-compassion (self-compassion.org) and right brain oriented three dimensional observation, creative imagination and visualization cause the expansion of consciousness.

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-2022)" is an attempt to emphasize the urgent need for creating awareness about environmentally sustainable technologies in Civil Engineering. Towards the goal of creating a healthy environment which uses resources in a sustainable manner, recycles more of the wastes, this workshop invites all those involved in this endeavor to attend for technical enrichment.



Application Form

National Workshop on "Sustainable Technologies in Civil Engineering: Perspectives and Strategies"
STEPS-2022
28 December 2022

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)