

About GITAM

Founded in 1980, GITAM was inspired by the ideals of Mahatma Gandhi. With 12 schools across four campuses, we dedicate ourselves to nurturing minds and spirits in a pursuit of educational enlightenment.

Vision

GITAM will be an exceptional knowledge-driven institution advancing on a culture of honesty and compassion to make a difference to the world.

About Conference

This conference aims to provide an opportunity for the participants to critically analyze and explore the topics in Telugu. As per NEP 2020, the frontier Technologies such as AI, IoT and Big Data Analytics will be covered by the speakers in the fields of Green Energy, Energy Harvesting and Global Warming.

Who Should Participate

Faculty Members of AICTE Approved Institutions, Research Scholars, MTech Scholars/Research Fellows, Working Professionals from Industry.

Important Information

All the participants must register on or before the deadline. Certificates will be issued only to registered participants who attend the three days of the Conference.

Registration Details

Participants need to register as a participant on the ATAL portal:

<https://atalacademy.aicte.gov.in/>

Objectives

- To discuss the recent advancements in renewable energy sources including solar, wind, tidal, biomass, hydro and geothermal.
- To assess the implications of renewable energy sources for sustainability, economic development and social equity.
- To explore necessary knowledge for informed decision-making in the renewable energy sector.
- To discuss the renewable energy role in global energy transformations.
- To analyze the net impact of frontier technologies on climate.

Themes

1. National Green Hydrogen Mission: Regulations and Standards

- India: Global Hub for Production, Usage and Export of Green Hydrogen

2. Frontier Technologies for Energy, Sustainability and Climate Change: Laboratory and Real-World Implementations

- Role of AI, IoT and Advanced Materials

3. Goal of SDG7 by 2030 and Global Primary Energy Supply by 2050

- Clean and Affordable Energy for Agriculture, Transportation, Healthcare, Education, Communications and Business
- Electrification, Investments in Renewable Energy Sources and Improve Electricity Grids

4. Green Energy Solutions for Urban and Rural Areas in India

- Solar Microgrids, Rooftop Solar, Smart Grids and Waste-to-Energy Plants

5. Understanding Impacts and Limiting Global Warming to 1.5⁰C

- Global Warming Linked to Extreme Weather

Expected Outcomes

- Publication of the research papers in Telugu.
- Ideas to create roadmap for upcoming projects and possibilities for opening new avenues for research.
- Content creation in Telugu.
- Collaborations between institutions and industry.
- Creating knowledge base in Telugu and to encourage creation of treasure of latest technical knowledge incorporating the newest developments in Telugu.
- Promotion of Telugu in technical education.

Introduction

The local language communication in India is vital for effective developmental action. According to Census of India, 122 major languages and 1599 other languages out of which 30 languages are spoken by over a million native speakers in different parts of India. Disseminating knowledge and strengthening the learning process through the medium of Indian languages thus becomes a necessity to achieve the Viksit Bharat 2047 dream.

Objective

To promote high standards in technical education in Indian languages by way of extending opportunities to the academicians and working professionals by providing a forum for sharing their knowledge, experiences, innovations and inventions in emerging field: Energy, Sustainability & Climate Change.

Important Dates

Conference: 29.10.2025 – 31.10.2025

Accommodation

Accommodation will be at University Hostels as per the request of the delegates. Please contact the Coordinator for more information.

Venue

Conference Hall, J-211, GITAM University Hyderabad.

Chief Patron

Sri Sribharat Mathukumilli
President
Prof. Virander Singh Chauhan
Chancellor

Patron

Prof. Errol D'Souza
Vice Chancellor
Prof. Sambasiva Rao Degala
Pro Vice-Chancellor

Chairperson

Prof. Rama Sastry Vedala
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Sri DVVSR Varma
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Advisors

Dr. Akhilesh Chepuri
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**Three-Day Conference
On
Transformative Impact of Frontier
Technologies:
Green Energy, Energy Harvesting
and Global Warming**

29.10.2025 - 31.10.2025



**Organized
by
Department of Civil and Mechanical Engineering
GITAM University
Hyderabad-502329, TG, India**