

WHO CAN ATTEND

Students (UG & PG)
Faculty Members
Research Scholars
Consultants and Industry Professionals

VENUE

Seminar Hall, CBIT(A), Gandipet, Hyderabad, 500075

ORGANISING COMMITTEE

PATRON

Prof. C. V. Narsimhulu
Principal

CHAIRMAN

Dr. K. Jagannadha Rao
Professor & Head
Department of Civil Engineering, CBIT (A)

CONVENOR

Dr. Jnana Ranjan Khuntia
Assistant Professor
Department of Civil Engineering, CBIT (A)

CO-ORDINATORS

Smt. K. Manasa
Sri E Maheshwar Reddy
Sri Ramanrayan Sankriti
Dr Kamalini Devi
Dr. D. Bharath Kumar
Assistant Professors,
Department of Civil Engineering, CBIT(A)

ORGANISING COMMITTEE

All the Faculty and staff of Civil Engineering Department

REGISTRATION LINK: <https://forms.gle/3KzYZNVaVLopCk4F9>

No Registration fee, Registration is mandatory
E-Certificate will be issued to all the registered participants.

CONTACT:

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**CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY**

An Autonomous Institute | Affiliated to Osmania University
Kotapet Village, Gandipet Mandal, Hyderabad, Telangana-500075. www.cbit.ac.in



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

45
years



ONE DAY SEMINAR

ON

“FUTURE PROJECTIONS OF MONSOON PATTERNS
UNDER CMIP6 SCENARIOS: IMPLICATIONS FOR
WATER RESOURCES AND AGRICULTURE”

In honor of
Sri R. Ranga Reddy
On attaining Superannuation

31st August 2024



Organized by

DEPARTMENT OF CIVIL ENGINEERING
In Association with Civil Engineering Association (CEA)

Chaitanya Bharathi Institute of Technology

(Autonomous under UGC)

Affiliated to Osmania University

Accredited by NAAC-UGC and NBA-AICTE

ISO 9001:2015 Certified Institution

Gandipet, Hyderabad, 500075, Telangana, INDIA

ABOUT THE COLLEGE

Chaitanya Bharathi Institute of Technology, established in the Year 1979, esteemed as the premier engineering institute in the states of Telangana and Andhra Pradesh. It is located in idyllic surroundings of Gandipet Lake, Hyderabad. The Institute, committed to education and innovation and over the 45 years, has emerged as a dream destination for students with a rewarding career and corporates to source well- rounded engineers. Best academic practices with quality education enabled the Institute to establish its Identity in the Technical Education in both the Telugu Speaking States. The great learning experiences in the institute have enriched the lives of students and helped them to develop into a multi-skilled and multi -tasking personalities that ensured success in their careers and occupations. With the students being the singular objective, the institute has established excellent infrastructure such as state-of – the art laboratories, spacious library with printed and digital collection of books and journals, sports, hostel, and other infrastructure for extra and co-curricular engagements with a total built-up area of about 57,714 m² in the serene ambience of 50 acres to inspire, encourage and pursue academics. In its relentless strive for Academic excellence, CBIT has scaled great heights both nationally and internationally in industry and global universities.

ABOUT THE DEPARTMENT

Civil Engineering Department of the institute started functioning right from the inception of the institute, in the year 1979. It has well qualified, experienced and dedicated faculty and committed supporting staff. The laboratories of the department are well equipped with advanced and sophisticated instruments, to cater the needs of students, research and consultancy needs of the department as well. The department offers one UG programme (Two Sections) and one PG Programme (Structural Engineering). Conducting seminars, workshops and conferences on the latest developments in civil engineering, arranging expert lectures and industrial visits for the benefit of staff & students, is a regular practice in the department.

Department of Civil Engineering has conducted two Faculty Development Programs, three Industrial visits, one workshop, three guest lectures, one outreach program, one training program and one seminar this year.

An Industry-Academia collaboration project by Apaar Infratech Pvt. Ltd. of worth Rs. 2 lakhs and one International collaborative work with Imam University, Saudi Arabia of worth 13.89 lakhs were sanctioned and are being carried out.

Three in-house projects, valued at approximately Rs. 5 lakhs, have been sanctioned and are currently being conducted by faculty members. Additionally, the department is engaged in a consultancy project for Telangana Foods worth Rs. 21.95 lakhs and got third-party quality control work from GHMC. A faculty member has received approval from the Science & Engineering Research Board (SERB) under the International Travel Scheme for financial assistance to participate in "River Flow 2024 - The 12th International Conference on Fluvial Hydraulics" in the United Kingdom. Apart from giving their best in academics, the students of the department are highly enthusiastic & actively participating in various co-curricular & extra- curricular activities. Recently, over 65 alumni from the department were elected as Assistant Executive Engineers (AEE) in various Engineering Departments through the TGPSC.

ABOUT THE EVENT

This seminar is envisaged to provide a platform for the research community, academicians, practicing engineers, under graduate, post graduate Student of civil engineering, industry people, and government agencies to jointly discuss various aspects of, civil engineering in general and the Future Projections of Monsoon Patterns under CMIP6 Scenarios: Implications for Water Resources and Agriculture in particular and also sustainable solutions to the practical challenges in the said fields.

OBJECTIVES:

- ✓ Evaluate Model Performance: Assess the ability of CMIP6 models to accurately simulate historical monsoon patterns, including onset, duration, and intensity.
- ✓ Project Future Changes: Forecast future changes in monsoon systems under various climate scenarios, focusing on potential shifts in timing, intensity, and distribution of monsoon rainfall.
- ✓ Understand Climate Feedbacks: Investigate the role of climate feedback mechanisms, such as land-atmosphere interactions and ocean-atmosphere coupling, in influencing monsoon dynamics.

RESOURCE PERSON

- ✓ Dr. Kulkarni Shashikanth, Professor, Osmania University

Topic: Modelling of Monsoon system under CMIP6.

Modelling of Monsoon system under CMIP6 the Coupled Model Intercomparison Project Phase 6 (CMIP6) is an important initiative for climate modeling that provides a standardized framework for comparing the outputs of different climate models. Monsoon systems, particularly the South Asian Monsoon, are complex climate phenomena that are crucial to understand, especially in the context of climate change.