

**Two Day Virtual
National Conference**
on
Recent Advances
in
Civil Engineering Infrastructure
(rACEi-2021)

30th & 31st July, 2021



an **AUTONOMOUS**
Institution

Organized by

Department of Civil Engineering

ACE

Engineering College

Ankushapur (V), Ghatkesar (M), Medchal Dist – 501 301, T. S.

Approved by AICTE, Affiliated to JNTUH, NBA ACCREDITED

Website: www.aceec.ac.in



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Registration Fee

Students

: Rs. 500/-

Research Scholars

: Rs. 750/-

Academicians

: Rs. 1,000/-

R&D & Industry Delegates

: Rs. 2,000/-

Registration link:

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Interested candidates may pay the registration fee through online / NEFT to the below mentioned bank account:

Account Name	ACE ENGINEERING COLLEGE
Account No.	62204813356
Bank Name	STATE BANK OF INDIA
Branch	GHATKESAR
IFSC	SBIN0020450

Important Dates

On or before

Submission of Abstracts : 30th June 2021

Acceptance of Abstracts : 7th July 2021

Full Paper Submission : 15th July 2021

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About ACE Engineering College

ACE Engineering College was established by Yadala Satyanarayana Memorial Educational Society with the fundamental objective of nurturing the group of nascent talent of young minds aspiring to make career in engineering into a pool of valuable and employable engineers. In addition, they understand their responsibility to willfully render services to the society with dignity and accountability.

ACE Engineering College was established in 2007 in a sprawling campus spreading over 10 acres of land. Situated in serene locales on the suburbs of Hyderabad on Hyderabad – Warangal National Highway, ACE provides an excellent ambience conducive for fruitful engagement of learners and faculty. Surrounding lush greenery filled plains and adjoining urban forest department land add to the tranquility that reminds one of ancient Indian Gurukula. The college is well connected by road. It is just 20 Km from Uppal and about 28 Km from Secunderabad.

Mr. Y.V. Gopala Krishna Murthy, an Educationalist, Engineer, Motivator and the founder of ACE Engineering Academy is at the helm of academic affairs in the college. The Academy, a premier coaching center for GATE, IES and Public Service selections conducted by several state governments for recruitment of engineering graduates is the most sought after coaching center and has been consistently contributing toppers to all the premier technological institutions in India viz., IITs, IISc, NITs and other universities. The Academy, in the last two decades of its committed services in the training and coaching sectors for engineering graduates across the country has produced toppers in Engineering Services, as well for the state service Commission's recruitments.

Civil Engineering – Current Society demands

Civil Engineering is the backbone of any nation and directly measures the quality, standard of living, and prosperity of the nation. Traditionally, Civil Engineering, the oldest engineering profession, was concerned with design and construction of new facilities, such as housing, bridges, highways, dams,

treatment plants and tunnels etc. Technological innovations and advancements strongly influenced by the aspirations of modern society demand that today's civil engineer, in addition to focusing on preliminary needs of design and construction, must also analyze the effects of deterioration on infrastructure elements, consider system interdependencies and evaluate life-cycle impacts while also considering environmental and economic sustainability. Therefore it is imperative that civil engineers must equip themselves with in-depth knowledge of traditional, fundamental principles and new technologies in order to address the complex, interdisciplinary problems faced within society. To meet the expectations and fulfill the aspirations of the society and complete several infrastructural projects, a large number of competent civil engineers who are employable and productive from the beginning are required.

About the Civil Engineering Department

The Department of Civil Engineering was established in the year 2009 to offer B.Tech., course with the primary objective of filling the gap of demand versus supply of trained and talented civil engineers who are readily employable. The department is fully equipped with all the laboratories including a CAD lab with latest software. The present sanctioned intake is 60.

Overview of the Conference

Civil Engineering Infrastructure is the most significant factor in accelerating the pace of economic development of any country. The recent innovations and advances in the field of Civil Engineering have made a drastic impact on the Construction Industry. As the world population increases, environmental concerns rise and Civil Engineers are entrusted by the society to achieve a sustainable world and raise the quality of life globally. The balancing of economic, social and environmental objectives now and in the future are termed as Sustainable Development and is increasingly become a key driver at a range of organizational and spatial scales bringing real challenges to the Civil Engineering Profession.

The Two Day Virtual National Conference on “**Recent Advances in Civil Engineering Infrastructure (rACEi-2021)**” aims at exploring the new perspectives of development from eminent researchers, renowned professionals from academia and Industry. The Conference also focuses on the achievement of relevant Sustainable Development Goals. This event will be a platform to exhibit and deliberate research work, studies and contributions for developing new concepts in Civil Engineering Infrastructure. The Conference consists of keynote lectures on related themes by eminent personalities.

Essential Themes for Research

Structural Engineering	<ul style="list-style-type: none">▪ Sustainable Materials and Construction▪ Smart Structures▪ Sustainable design and construction practices▪ Structural Health Monitoring, Retrofitting and Rehabilitation▪ Seismic Resistant Analysis and Design▪ Precast Construction Technology▪ Green buildings
Geotechnical Engineering	<ul style="list-style-type: none">▪ Ground Improvement Techniques▪ Geo Synthetics▪ Geo-environmental Engineering▪ Seismic Resistant Design of Foundations
Water Resource Management	<ul style="list-style-type: none">▪ Water Resource Planning & Management▪ Sustainability in Water supply▪ Remote Sensing & GIS Applications in Irrigation▪ Case Studies
Transportation Engineering	<ul style="list-style-type: none">▪ Sustainable Materials and Pavements▪ Traffic Systems Analysis▪ Traffic Safety and Security▪ Intelligent Transportation System
Construction Management	<ul style="list-style-type: none">▪ Cost Effective▪ Construction Technologies▪ Innovative Construction Methods▪ Smart Construction Materials▪ Construction Planning & Control▪ Construction Safety▪ Conflict Management & Resolution▪ Risk & Delay Assessment in Construction Projects
Environmental Engineering	<ul style="list-style-type: none">▪ Water and Waste Water Treatment▪ Air quality monitoring and Management▪ Solid and Hazardous Waste Management and Auditing▪ Solid-liquid separation technologies▪ Climate issues