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Department of Civil Engineering

Kakatiya Institute of Technology & Science, Warangal -15

Newsletter



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Vision of the department :

- The Vision of the department is to become a leading centre of excellence in producing quality human resource in civil engineering by developing a sustainable technical education system to meet the changing technological needs of the Country. The Department will make significant contributions to the economic development of the state, region and nation.

Mission of the department

- To produce outstanding Civil Engineering graduates with highest ethics
- To impart quality education in civil engineering to raise satisfaction level of all stake holders.
- To serve society and the nation by providing professional civil engineering leadership to find solution to community, regional and global problems and accept new challenges in rapidly changing technology.

Programme Educational Objectives (PEOs) : The Programme Educational Objectives (PEOs) of the civil engineering program are designed to produce skilled engineers who are ready to contribute effectively to the civil engineering profession and are ready to handle the challenges of the profession. The Programme Educational Objectives (PEOs) are defined considering the opinion of all the stakeholders.

PEO1	Apply fundamental technical knowledge and skills to find creative solutions to challenges and problems in various areas of basic sciences and engineering.
PEO2	Able to analyze, design and use skills in order to formulate and solve civil engineering problems.
PEO3	To practice civil engineering in a responsible, professional and ethical manner to implement eco- friendly sustainable technologies for the benefit of industry and society.
PEO4	Able to take up higher education, engage in research and development in civil engineering and allied areas of science and technology

Program Outcomes (POs) : Engineering Graduates will be able to

PO1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	Engineering knowledge
PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	Problem analysis
PO3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	Design/development of solutions
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	Conduct investigations of complex problems
PO5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations	Modern tool usage
PO6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	The engineer and society:
PO7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	Environment and sustainability
PO8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	Ethics
PO9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	Individual and team work
PO10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	Communication
PO11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	Project management and finance
PO12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	Life-long learning

Program Specific Outcomes (PSOs) :

PSO1	Apply fundamental computational methods and elementary analytical techniques in sub-disciplines related to civil engineering.
PSO2	Design civil engineering structures, component or process to meet desired needs with appropriate consideration for the public health and safety, cultural, societal, sustainability and environmental considerations
PSO3	Appreciate professional and ethical responsibility concerning legal, contemporary, environmental & cultural issues and consequent responsibilities relevant to the professional engineering practices and norms of civil engineering practice code.
PSO4	Appreciate the role of research in civil engineering practice and recognize the need for and to engage in life-long learning in civil engineering and allied domains as relevant to rapidly changing technology.

“ANYONE WHO HAS NEVER MADE A MISTAKE HAS NEVER TRIED ANYTHING NEW”

- Albert Einstein



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EVENTS ORGANIZED BY THE DEPARTMENT

CIVIGNAN'15

A Two Day National Level Student Technical Symposium had organized by the department in 2014-15. The symposium is hosted keeping in mind the demands of the present day competitive world. The symposium aims not only the creative and enthusiastic zeal in the students but also in different activities & events like Bridge Design and Fabrication, Model Making, Adventure Survey ...



ACTIVITIES

It is the culture of CIVIL department to organize different workshops and seminars with eminent personalities as a part of Civil Engineering Activities (CEA) to bring awareness among the budding engineers of recent advancements in the field of civil engineering. Some of them include:

- Entrepreneurship development skills by Personnel from Indian School of Business, Hyderabad.
- Software application on Auto Desk by team of experts

Dr.M.Andal, Associate Professor of our department has published a paper on “Probabilistic Assessment on flexural strength of Steel Fiber Reinforced Concrete Members” in International Journal of Engineering Research and General Science, Vol.3, Issue 1, Jan-Feb 2015.

Md. Shakeel Abid, “A study on Reinforced Embankments”, Glacier Journal of Scientific Research, ISSN-2349-8498,2014.

ENCOURAGING IGNITING MINDS

Ultratech is the company that is associated with the department to encourage the student who secures the highest marks in Concrete Technology by awarding a cash prize.

It is the custom of the department to award a prize to the top GATE cracker.

TCS awards a windfall to the best project for the outgoing batch.

“ALWAYS DO YOUR BEST. WHAT YOU PLANT NOW, YOU WILL HARVEST LATER.”



STUDENTS ACHIEVEMENTS

Several students of our department brought laurels not only to our department but also for our institute by placing themselves into various companies such as TCS, Cadfem and Ram boll India and cracking GATE, GRE and various competitive exams.

NAME	COMPANY
Andra Karthik Roy	TCS
Tatipally Mani Teja	TCS
Chunduri Siri Mounica	TCS
Vodapalli Shravani	TCS
Gande Siva Kumar	Ramboll India
Narahari Prashanth	Cadfem

Sportsmanship

NAME	EVENTS	POSITION
T. Srujan and A. Jaya Bharati (IV)	Carom mixed doubles	I
A.Naveen and V. Divya (IV)	Carom mixed doubles	II
M.Steeven and K. Navya	Carom mixed doubles	III
G. Thirupathi (III/IV)	Table Tennis singles	II
K. Venkatesh (II/IV)	Long Jump	I
Ch. Prathyusha(II/IV)	Javelin throw	II
S. Ganesh (II/IV)	Javelin throw	III
G. Ravi Teja (III/IV)	Cycling	I

THINGS TO KNOW

The Burj Khalifa is 2.5 times taller than Eiffel Tower. To withstand high winds and earthquakes, this super scraper is designed with a 'buttressed core' – three wings set at 120 degrees to each other, anchored around a central hub. Each wing supports the others, so when the wind blows on two of the wings, the third resists force.



The Pearl Bridge located in Japan is the world's largest cable bridge and there are no pillars for the supports. It has the longest central span of any suspension bridge in the world, at 1,991 meters (6,532 ft). It carries part of the Honshu-Shikoku Highway.



The CN Tower held the record as the tallest building, tower, freestanding structure for over three decades. It remains the tallest in the Western Hemisphere. As of 2015, the CN Tower held the as the World's Highest Outdoor Walk on a Building.