Department of Civil Engineering

Kakatiya Institute of Technology & Science, Warangal -15

NEWSLETTER

Estd- 1980

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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.

It gives me immense pleasure in welcoming NEWSLETTER, on behalf of the entire campus community of KITS Warangal. This newsletter will serve to reinforce and allow increased awareness, improved interaction and integration among all of us. This inaugural issue is a brief account of the important events of Civil Department. It would be a snapshot of the various activities and advancements for Civil that reflects the progress and achievements by the students and faculty members. I congratulate all those who have contributed in bringing out this issue. I hope this newsletter will inspire all of us for a new beginning enlighten with hope, confidence and faith in each other.   -   Dr.K. Ashoka Reddy

Editor Message:

I was given the privilege to serve as the chief editor of this newsletter which gives me great opportunity to present the first issue of this newsletter. In this context, these editorial standards are set forth to give readers and contributors a clear idea of what they can and should expect from the newsletter.

-   Prof. S.G. Narayana Reddy

Editor In-charge Message:

It is with great honour and great pleasure for me to involve in laying the groundwork of this newsletter. I congratulate the Editorial Team for their hard work in producing this Newsletter. I am absolutely certain that the best is yet to come. I hope that you will enjoy reading this newsletter.   - Sri.M. Srikanth,

Student Achievements

1	11016T0005	VODAPALLI	SHRAVANI	TCS
2	11016T0027	TATIPALLY	MANITEJA	TCS
3	11016T0029	CHUNDURI	SIRI MOUNICA	TCS
4	11016T0054	ANDRA	KARTHIK ROY	TCS
5	11016T0002	NARAHARI	PRASHANTH	Cadfem
6	11016T0019	GANDE	SHIVA KUMAR	Ramboll India

S.No	Name of the student	Roll Number	GRE / IELTS/ TOEFL	Detailed Scores
1.	E. APROOP REDDY	11016T0032	GRE,TOEFL	305, 85
2	CH.VIKAS	11016T0003	GRE	298
3.	KRANTHI KUMAR	11016T0004	GRE	282

PUBLICATIONS BY THE FACULTY

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

CIVIL 'IN'CHARGE

Memorandum of Understanding (MoU) withdifferent organizations:

The Department has an MoU with the NCL industries, Hyderabad. As per the MoU, the NCL industries will provide internships, industrial visits, project works, consultancy supports, support for innovations, incubation and for organizing symposia for a period of 3 years.

The Department has an MoU for testing of input materials, work in progress and finished items of Civil Engineering works and for professional expertise for a period of 3 years

The Department has a MoU with M/S TRANSWAT, Hyderabad showing willingness to take up third party quality control consultancy services for Civil Engineering works in the state of Telangana for a period of 3 years.

INNOVATIVE PROJECTS IN OUR ARENA

Cheap bricks using waste material like sludge generated by Sewerage Treatment Plant (STP) and fly ash. The cost of such a brick is only 64 paisa.

Department of Civil Engineering

"KNOWLEDGE IS NOT ENOUGH, WE MUST APPLY. WILLING IS NOT ENOUGH WE MUST DO."

Newsletter

THINGS TO KNOW :

Hoover Dam, once known as Boulder Dam, is a concrete arch-gravity dam in the Black Canyon of the Colorado River, on the border between the U.S. states of Nevada and Arizona. It was constructed between 1931 and 1936 during the Great Depression and was dedicated on September 30, 1935, by President Franklin D. Roosevelt. Its construction was the result of a massive effort involving thousands of workers, and cost over one hundred lives. The dam was controversially named after President Herbert Hoover.

Hoover Dam fulfilled the goal of disseminating the one-wild Colorado River through the parched Southwest landscape, fueling the development of such major cities as Los Angeles, Las Vegas and Phoenix. Capable of irrigating 2 million acres, its 17 turbines generate enough electricity to power 1.3 million homes. The dam was designated a National Historic Landmark in 1985 and one of America's Seven Modern Civil Engineering Wonders in 1994. It receives some 7 million visitors annually, while Lake Mead, the world's largest reservoir, hosts another 10 million as a popular recreation area.