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# Department of Civil Engineering

Kakatiya Institute of Technology & Science, Warangal -15

Newsletter



Vol 2, Issue 1

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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.

“Don’t expect anything in life, expectations hurt. When you don’t expect, every moment is a surprise and every surprise brings happiness.”

**Chief Editor Message :**

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 honor 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.

- Smt. M. Andal

**CIVIL ‘IN’CHARGE**

**Memorandum of Understanding (MoU) with different 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.

“Take pride in how far you have come. Have faith in how far you can go.  
 Don’t count every hour in the day, make every hour in the day count.”

### Students Achievements

S.No	Name of the student	Roll Number	GATE Percentile/rank	Appeared in the Year
1	Md. Mumtaz Ali	10016T0020	689	2013
2	S. Sri Hari	10016T0055	871	2013
3	T. Vidyavathi	10016T0019	1803	2013
4	V. Shiva Prakash	10016T0033	2688	2013
5	A. Prathyusha	10016T0014	3834	2013
6	P. Aparna	10016T0060	5374	2013
7	CH. Krishna	10016T0037	6400	2013
8	Shaik Imran	10016T0002	11073	2013
9	N. Manohar	10016T0031	13334	2013
10	Abhinav Rapol	10016T0056	15530	2013
11	M. Manaswitha	10016T0044	21373	2013

### HANDS TO CIVIL

A Faculty Development Programme (FDP) was conducted by Prof M. Veera Reddy on ‘RECENT ADVANCES IN CONSTRUCTION MATERIALS’ on 20<sup>th</sup> and 21<sup>st</sup> September 2013, aided by AICTE.

### FACULTY PUBLICATIONS

Ravi Dakshina Murthy Nemani , “A Durability performance study on bacterial concrete embedded with bacillus subtilis in ordinary grade concrete.” Pp 7-15 ICI, Apr-Jun 2013, Vol.14, No.1 (ISSN 0972 – 2998)

Ravi Dakshina Murthy Nemani , "Behavior of Blended Mortars under Acid Environment" The IUP Journal of Structural Engineering. ICFAI May 2013. Issue. pp 17-32 (ISSN – 0733 – 9445).

### Guest / Expert lectures arranged:

S. No.	Date	Topic	Delivered by ( please give the details of speaker)	Attended by
1.	17-06-2013	OFF SHORE STRUCTURES	Sri.B.HariKiran Reddy	II,III,IV/IV B.Tech I sem, Faculty
2.	15-07-2013	INSITE OF OPPORTUNITIES IN CONSTRUCTION SECTOR	Juluri Kaushik	II,III,IV/IV B.Tech I sem, Faculty
3.	22-07-2013	Transportation systems	N.Raghavender	II,III,IV/IV B.Tech I sem, Faculty



“Don’t spend your energy in talking but meditate in silence and become a dynamo of spirituality.”

To expose the engineering students to the current trends in the areas of communications and allied ones, the department has a tradition of conducting a national level technical symposium every academic year.

SUMSHODINI -13- a 2 day national level student technical symposium was conducted for the Academic Year 2012-13, on 4<sup>th</sup> & 5<sup>th</sup> of March 2013.

SUMSHODINI -13 covered many events in the emerging fields of engineering aimed at creative interaction among student participants and experts in the fields.

