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Department of Civil Engineering

Kakatiya Institute of Technology & Science, Warangal -15

Newsletter

DECEMBER 2016 **Vol 5, Issue 1**

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 modelling 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.

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 hope this newsletter will inspire all of us for a new beginning enlighten with hope, confidence and faith in each other.

- Dr.P.Venkateswara Rao

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. L. Sudheer 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. -Dr. M. Andal

Students Achievements

S.No	Name of the Candidate	Roll Number	Company
1	Mohammad Yakubpasha	13016T0024	Tech. Mahindra
2	Sunkakara Maneesha	13016T0025	Tech. Mahindra
3	Kakarla Venkatesh	13016T0031	Tech. Mahindra
4	Rama Prathyusha	13016T0069	Tech. Mahindra

The Kelpies

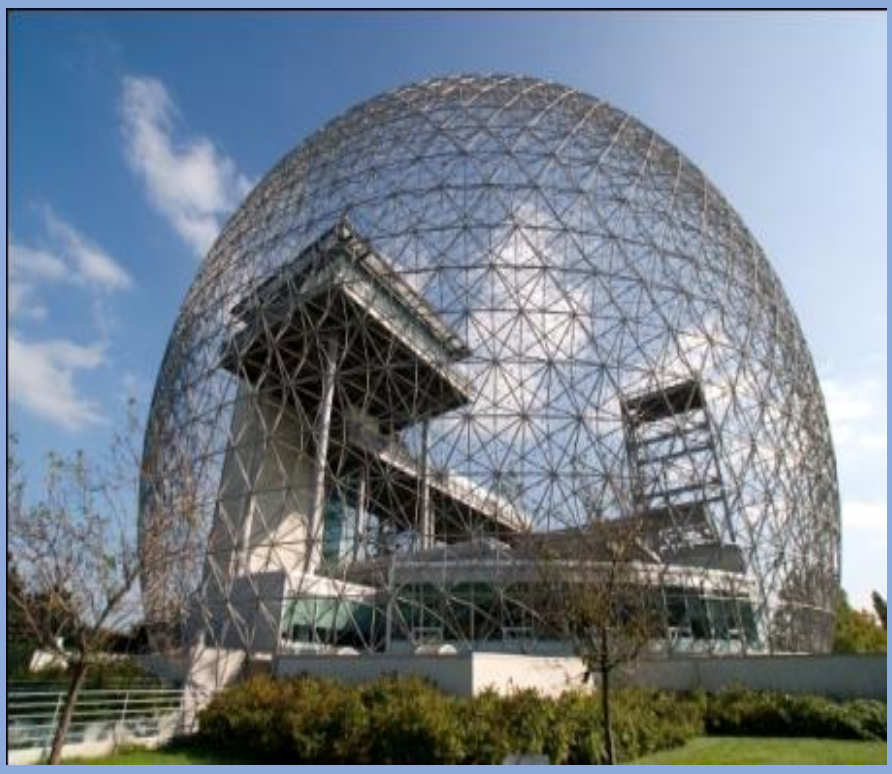
Their patterned skin, made of stainless steel, is held aloft by an intricate steel framework. At night the two statues glow in unison as the glow of upward-pointing spotlights spills out round the gaps in their surface.

They borrow their names from mythological horses which haunt lochs and rivers in Celtic legend. Kelpies were said to be able to transform into beautiful women to ensnare travellers. The massive sculptures, designed by Glaswegian Andy Scott, pay tribute to the working horses which once fired Scotland's economic prosperity by dragging industrial barges along the extensive network of canals.

Construction work on the sculptures was completed in November, and the towering, luminescent artworks will be opened to the public later this month. Mr Scott has said of his sculptures: 'They are the embodiment of the industrial history of Scotland.'

The largest man-made waterfall in Asia has opened to the public in Kunming in China's Yunnan Province. The waterfalls is 12.5 meters high and 400 meters wide, and was created as part of a project designed to divert water from the Niulan River into Dianchi Lake, the biggest freshwater lake in Yunnan. The diversion will not only help reduce flooding in the Niulan River but will also function as a water supply for emergencies. The project took two years to finish at a cost of 1.1 billion yuan (roughly 170 million US dollars). A p ark was created around the waterfalls for public viewing free of charge.

Montreal Biosphere - Montreal Canada



- The structure was the United States pavilion for the 1967 World Exhibition - Expo 67.
- In 1995 the structure was refurbished to house the Environment Canada museum.
- The structure is located in Parc Jean Drapeau on Ile Sainte-Hélène in Montreal.
- The original structure was a sphere of steel and acrylic cells, 76 meters (250 feet) in diameter and 62 meters (200 feet) in height.
- A fire burnt away the building's acrylic bubble in 1976, but the steel latticework remained.

UPCOMING EVENTS

SUMSHODINI – 17

Sumshodini – 17, a National Level Technical Symposium is being conducted collaboratively by all the departments of KITSW.

This event includes many departmental activities such as Paper Presentations, Project Presentation, Terra mind, Beat-d-euclid, Concretia, Criar and Spot events.