



**JANUARY-JUNE 2016**

**VOLUME 3  
ISSUE 1**

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PEOs - POs  
IN HOUSE EVENTS  
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AND MORE....



# NIRMAAN

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## THE NEWSLETTER

# CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING  
HYDERABAD





#### **COLLEGE VISION**

“Striving for the symbiosis of technological excellence and human values”.

#### **MISSION**

“To arm young brains with competitive technology and nurture holistic development of individuals for a better tomorrow”.

#### **DEPARTMENT VISION**

To strive for excellence in order to make the students better citizens with technical knowledge and social awareness.

#### **MISSION**

To impart knowledge in the latest technologies to the students of Civil Engineering to fulfill the growing needs of the society.

## **EDITORS**

#### **FACULTY**

**Dr. B. Sridhar**

**Professor & HOD.**

**Dr. M. V. Rama Rao**

**Professor.**

**Mr.M. Bhaskar**

**Assoc. Professor.**

**Dr. K. Jayasree**

**Asst. Professor.**

**Mrs. Kumari Koutsuvey**

**Asst. Professor**

#### **STUDENT TEAM**

**Mr. Abdul Wasae Syed**

**B.E 3/4**

**Ms. I.Priyanka**

**B.E 3/4**

**Ms. Keerthi Reddy**

**B.E 3/4**

## **PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

At the end of the programme, the graduates will be able

1. To provide a better understanding of basic sciences and fundamentals of Civil Engineering .
2. To develop competence in latest technologies to serve the industry or pursue higher studies.
3. To inculcate professionalism with effective communication skills and ethical values.

## **PROGRAM OUTCOMES (POs)**

Engineering graduates will be able to:

- 1.Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- 2.Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics,natural sciences and engineering sciences.
- 3.Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified need with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations
- 4.Conduct investigations of complex problems: 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
5. Modern Tool Usage: 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
6. The Engineer and Society: 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
- 7.Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development Understand the impact of construction of civil engineering structures on environment and design the structures that provide sustainable development.
- 8.Ethics:Apply ethical principles and commit to professional ethicsand responsibilitiesand norms of the engineering practice
9. Individual and Teamwork: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
10. Communication: 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
11. Project Management and Finance: 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.
12. Lifelong Learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.



# STAFF ACTIVITIES

1. Dr. B. Sridhar, Professor & Head attended the 3rd International Conference on Transformations in Engineering Education (ICTIEE-2016) held on 10 January 2016 at College of Engineering, Pune.
2. Mr. S. Vijaya Kumar & Dr. BLP Swami along with a co-author published a technical paper titled "Effect of mixed fibres (Steel & Polypropylene) on structural properties of fibrous self compacting concrete" in the International Research Journal of Engineering & Technology (IRJET) V-03, Issue -02, Feb-2016.
3. Dr. BLP Swami, Ms P. Ramyasri & Ms. P. Divyavani presented a technical paper on "Use of Dual Fibres for improved Strength & Ductility characteristics of Fibre Reinforced Concrete (FRC)" in the 3rd International Conference on Recent Innovations in Science, Engineering & Management, ICRISEM-16 on 27 Feb, 2016 at Sri Venkata Swami College of Engineering & Technology, Srikakulam.
4. Dr. K. Jayasree, Assistant Professor attended a workshop on 'Outcome based Education' at Dr. Y. Patil Institute of Engineering & Technology, Pune from 9-10 January, 2016.
5. Mr. Siddharth Banerjee & Mrs. Kumari Koustuvee, Assistant Professor attended a two day workshop on Research Methodology held on April 11-12, 2016 at BITS PILANI, Hyderabad.
7. Dr. BLP Swami, Ms. Ramyasree & Ms. Divyavani published a technical paper on "Mixed Fibre Reinforced Concrete with & without Micro Silica- Study of Strength Properties" in the International Journal of Advance Research in Science & Engineering (IJARSE), V-05, Issue-02, March 2016.
8. Dr. BLP Swami, Mr. M. Bhaskar & Ms. Ramyasri published a technical paper on "High Strength Concrete with Fly ash & Silica Fume" in the Research Inventory: International Journal of Science & Engineering (IJES), V-06, April-2016.
9. Mr. S. Vijaya Kumar and Dr. BLP Swami published a technical paper on "Study on the Structural Properties of Mixed Fibrous Reinforced Self Compacting Concrete with Mineral Admixtures" in the International Journal of Research in Engineering & Technology (IJRET), V-02, Issue-05, May-2016.
10. Dr. BLP Swami, Ms. Ramyasri & Ms. Divyavani published a technical paper on "Flexural Behaviour of Mixed Fibre (Steel & Glass) for Reinforced Concrete Beams (PROTOTYPE)" in the International Journal of Advanced Research in Science & Engineering (IJARSE), V-05, Issue-01, May 2016.

# STUDENT ACTIVITIES

1. A Poster Presentation contest was held for the students of B.E 2/4, 3/4 & 4/4 students on 5th February, 2016 on the theme of 'Green Civil Engineering'.
2. A Survey Quiz (Prelims) in association with Geo-Map Society (GEMS) and GIS India as part of National Survey Day Programme was conducted for B.E 2/4 and 3/4 students on 16th March, 2016.
3. An abstract writing contest, 'Abstract It' was conducted on 18th March, 2016 for the students of B.E 2/4, 3/4 & 4/4.



First Place,  
Poster Presentation & Abstract It,  
Abdul Wasae Syed, B.E 2/4



First Place, Survey Quiz, M.  
Anila & K. Sathvika,  
B.E 2/4



# GUEST LECTURES

A guest lecture was conducted on "CAREER GUIDANCE" by Mr . G . Kamalasan, Assistant Executive Engineer ; Irrigation & CAD on 11 . 03 . 2016 for BE 3/4 Civil Engineering.

A guest lecture was conducted on "ROAD SAFETY" by ER . Nayemullah ; Deputy Chief Engineer, R& B Department ; Government of Telangana , on 23 . 02 . 2016 for BE 3/4 Civil Engineering.

A guest lecture was conducted on "TOTAL STATION - DEMONSTRATION AND APPLICATIONS" by Mr . K. Ramesh ; Lawrence & Mayo Pvt . Ltd. , Hyderabad on 17 . 02 . 2016 for BE 3/4 Civil Engineering.

A guest lecture was conducted on "DIFFERENT TYPES OF ROADS AND BRIDGES" by Mr.D. Srikanth, Senior Engineer (Structures), BSCPL, Raipur, on 12 . 02 . 2016 for BE 3/4 Civil Engineering students.

A guest lecture was conducted on "DIFFERENT TYPES OF HIGHWAY BRIDGES AND PAVEMENT DESIGN STRATEGIES" by Mr.D .Srikanth, Senior Engineer, BSCPL, Raipur on 03.02.2016 for BE 4/4 Civil Engineering students.

A guest lecture was conducted on "RECYCLING OF INDUSTRIAL BYPRODUCTS FOR CONSTRUCTION " by M. Rajinikanth Reddy, Head, Co-Products, Hasco Ltd. ; on 23.01.2016 for BE 3/4 Civil Engineering students.

An interactive session was conducted for B.E.2/4 Civil Engineering students with Mr. Sai Sujeeth, Assistant Software Engineer, Accenture Ltd. on 8.01.2016.



**SAHAAY**

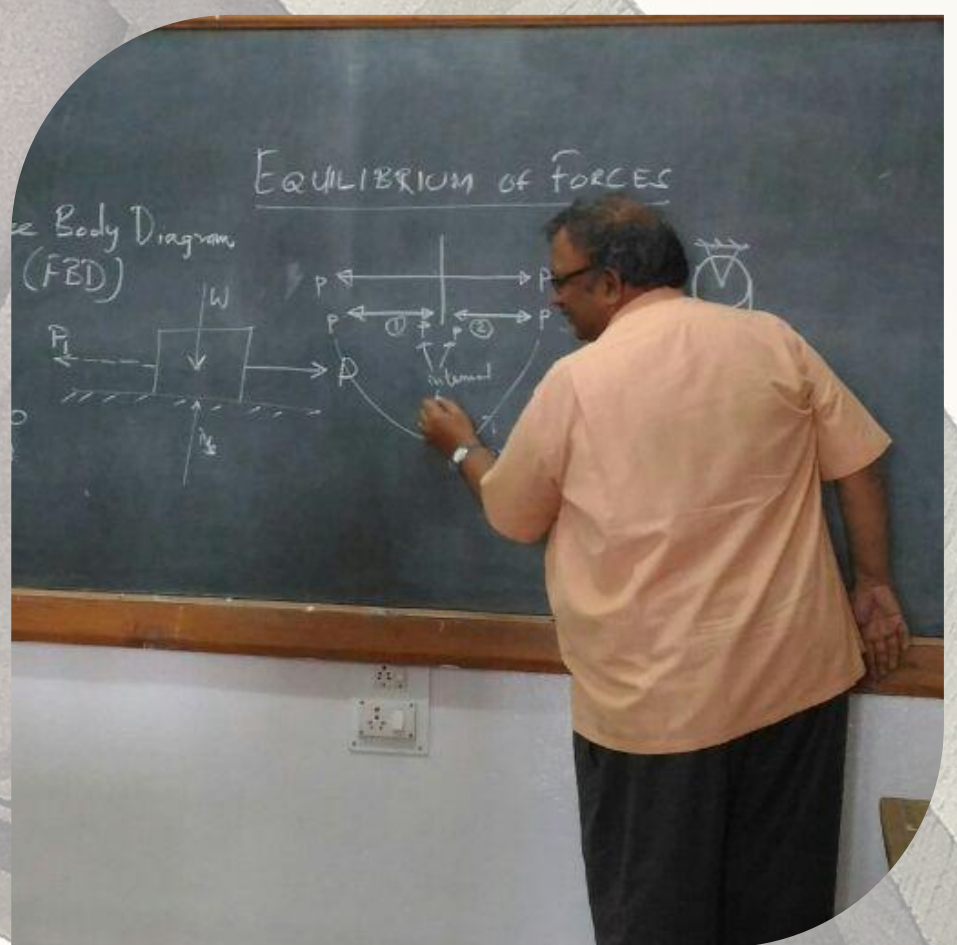
Its not how much  
we donate  
but how much  
we love we put into  
giving.

Funds collected  
are used  
for students of  
ambition  
but in need of  
an opportunity.



# INTERACTIONS

1. An interactive session between B.E 4/4 & B.E 2/4 Civil Engineering students was organised on 10/02/2016 from 12:15 pm to 12:45 pm. This must play as an important role in building a harmonious relationship and also orienting the anxious first timers helping them settle down and guiding them with requirements of college.
2. An interactive session between B.E 4/4 Civil Engineering students & B.E 3/4 Civil Engineering students was on 03/02/2016 from 03:40 am to 4:30 pm under co-curricular activities .
3. An interactive session on the subject of Engineering Mechanics was conducted for the faculty members in the Department on 3/06/2016 as a part of co-curricular activities. Mr. Siddharath Banerjee & Mrs. Kumari Koustuvee , Assistant Professors delivered lectures on different topics on Engineering Mechanics. Dr. B. Sridhar & Dr.M.V Rama Rao reviewed the lectures which has helped the faculty members in effectively dealing with the subject.
4. An interactive session between B.E 4/4 & B.E 2/4 Civil Engineering students was organized on 27/01/2016 from 11:40 am to 1:20 pm on Prospects after Engineering.





# INDUSTRIAL VISIT

Students of BE 2/4 Civil Engineering attended the annual Survey Camp in the month of June as a part of Industrial Visit for a week. They were taught about modern survey techniques, Total station and GPS applications. A detailed survey of the campus of Survey of India followed by its map generation was successfully executed.

Students of BE 2/4 Civil Engineering attended the Professional Practice Sessions (PPS) for a week. Students visited different Civil based Construction companies in groups to acquire knowledge and participate in site work. A very rewarding experience indeed!





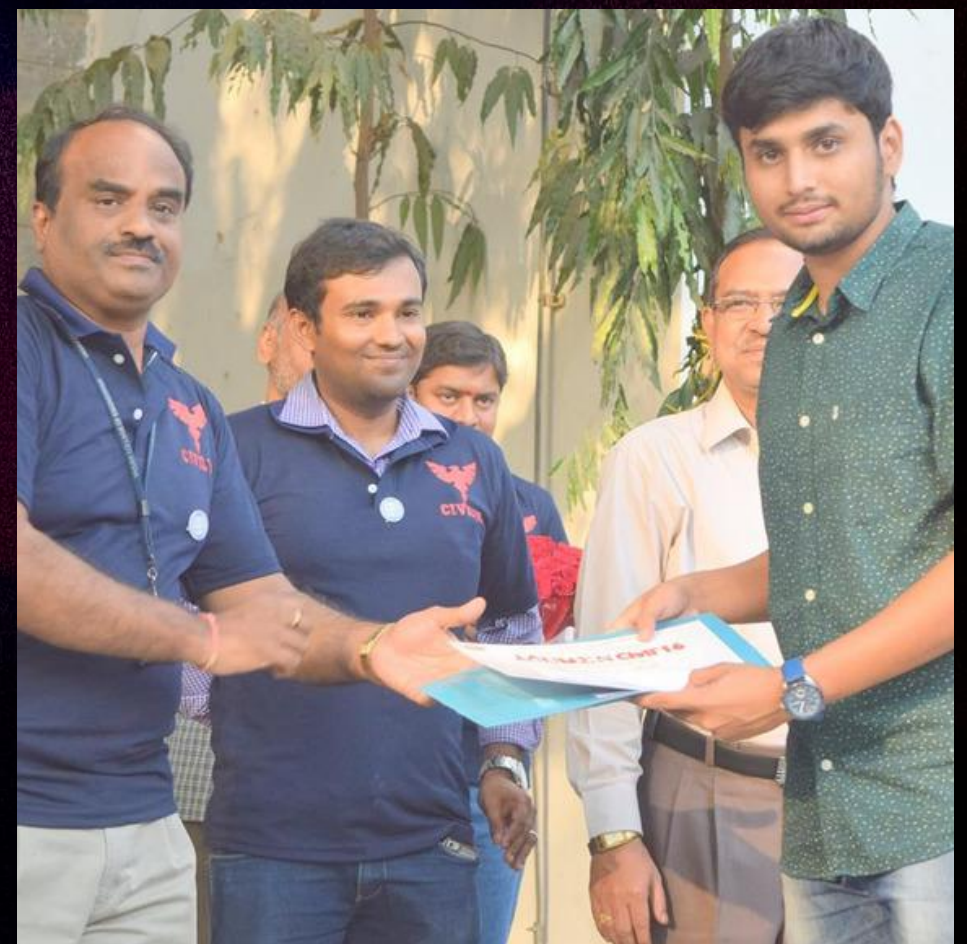
# TECHNICAL FEST

ACUMEN 2K16

The  
C.E.D

V.C.E

The annual technical fest, "ACUMEN 2K16" held in the month of March, 2016 received an enthusiastic response by the students. Events like Paper Presentation, Poster Presentation in addition to the events, Bridge the Gap, Royal Quiz, Building Blocks, Treasure Hunt etc. were conducted in which the students of Civil Engineering and other departments also participated with zeal and initiative. Merit certificates and Participation Certificates were presented to winners and participants alike.







THE SHARD,  
LONDON, U.K

95% Recycled Materials  
Influenced by Shattered Glass

MIAMI BRIDGE, MIAMI,  
FLORIDA, USA

Girder Bridge built replacing Cantilever.  
First Inland Crossing Bridge

Design is where  
Science and Art  
break even.....

ROYAL MUSEUM,ONTARIO,CANADA

Inspired by Diamonds, Discovey & Foray  
75% Mirrored Facade