

# *Nirmaan*

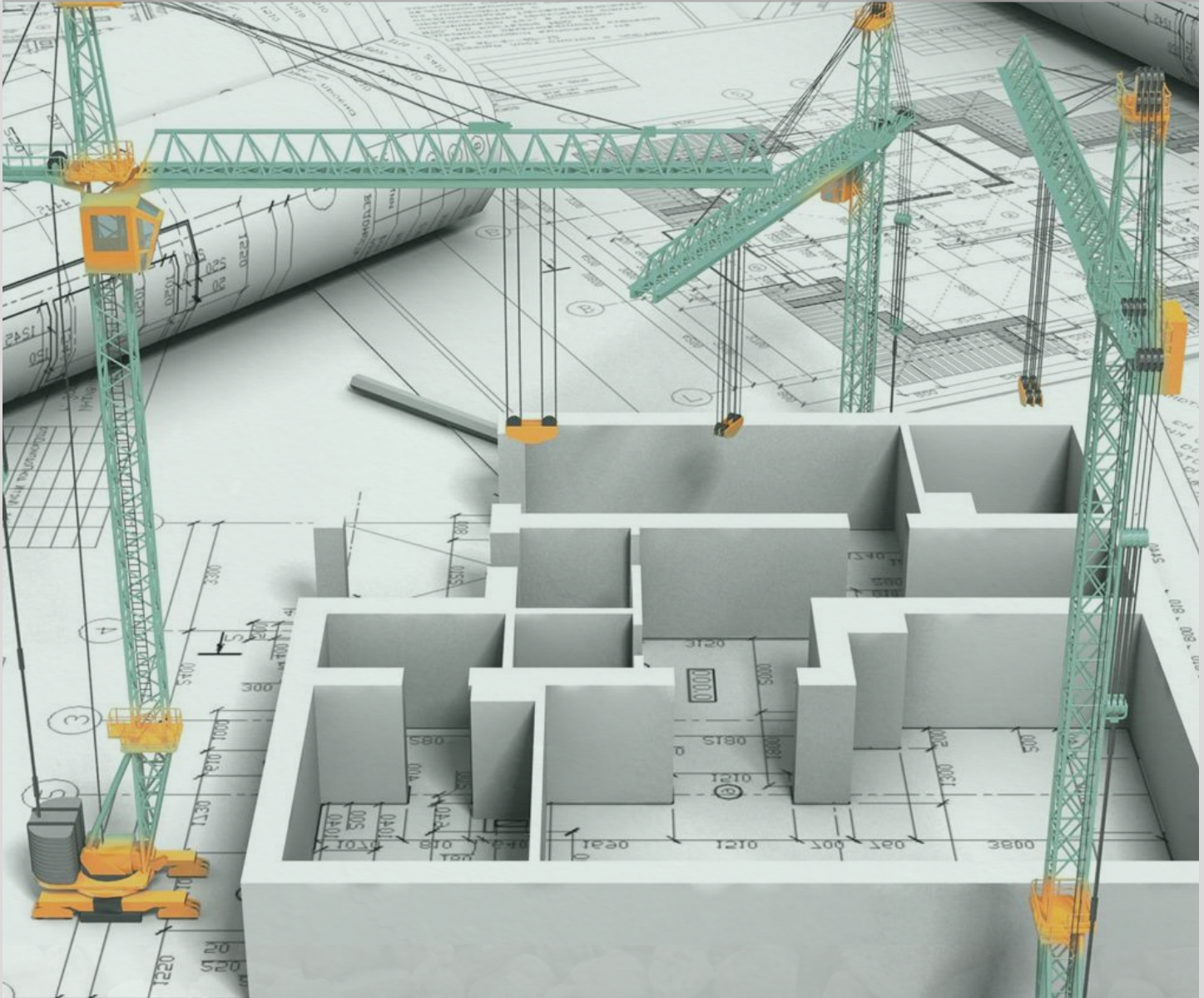
-The Newsletter

Department of Civil Engineering  
Vasavi College of Engineering



Volume 3 Issue 2

July 2016-December 2016



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## College VISION:

*"Striving for a symbiosis of technological excellence and human values."*

## MISSION:

*"To arm young brains with competitive technology and nurture holistic development of the 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."*



## Editorial Board

### FACULTY

**Dr. B. Sridhar**  
Professor & Head  
**Dr. M.V. Rama Rao**  
Professor  
**Sri. M. Bhasker**  
Associate Professor  
**Dr. K. Jayasree**  
Assistant Professor  
**Mrs. Kumari Koustuvee**  
Assistant Professor

### STUDENTS

P.Satyajit  
(B.E. Civil-2/4)  
Y.Aasritha  
(B.E. Civil-2/4)  
K.Manisha Reddy  
(B.E. Civil-2/4)

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

1. To provide a better understanding of basic sciences and the 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 needs 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 modeling 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.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: 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. Life-long learning: 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.



# In House Events Organised



A two day National Workshop on Computer Applications in Civil Engineering (CACE-2016) was organized by the Department of Civil Engineering, VCE under TEQIP II during 21-22 October, 2016. Dr. C. Mohanlal, Associate Professor was the Convenor of the Workshop. Eminent Resource Persons from IISc-Bangalore, BITS Pilani-Hyderabad Campus and Osmania University delivered lectures on solution of Civil Engineering Problems using Artificial Neural Networks, Fuzzy Logic etc.



## Engineer's Day

As part of Engineers Day Celebrations in remembrance of Sir Moskshagundam Visveshwaraya, several events were conducted for B.E. 2/4, 3/4 & 4/4 Civil Engineering students.

Model Presentation Contest on the theme 'Olympic Village' was organised. Syed Abdul Wasae and G.S.Sachin of B.E 3/4 won the first prize. Other events like Quiz and Poster Presentation were also conducted



## Alumni Activity

The Department of Civil Engineering organised an Alumni meet on 23.12.2016 in the Computer Centre of the Department. A total of 21 alumni have attended the meet.

An alumni interaction session was arranged by the Department of Civil Engineering between 21st and 22nd of October 2016. Six members namely Mr. R. Srikanth Assistant Professor, Methodist College of Engineering and Technology, Hyderabad, Ms. Jayanthi and N.V. Pratyusha, Research Scholars in IIT Bombay, Mr. D.V.S. Gopal Krishna, Test Analyst, Infosys Hyderabad, Mr. A. Varun, Sr. Transport Partner, Ramboll India Private Ltd., Mr. Arun Samuel, IT Employee, New Life Agencies and Mr. C. S. Rohith, Design Engineer, Mission Bhagiratha interacted with the students.





## EMINENT VISITORS

A guest lecture on “Integration of Geoinformation Technology for Civil Engineering Applications” was conducted by Mr. G.S. Kumar, Former Director, Survey of India and Chief editor, GIS India on 13th July 2016 from 2.30 pm – 4.30 pm for B.E. 4/4 Civil Engineering students as a part of IEI Professional Bodies



A guest lecture on “Modern Surveying Techniques” was conducted by Mr.T.K.Sahu, Officer –Surveyor, Indian Institute of Surveying and Mapping, Survey of India, Uppal, Hyderabad on 18th October 2016 from 10.30 am -12.00 pm for B.E. 2/4 Civil Engineering students as a part of IEI Professional Body activities.

A guest lecture on “Why Indian Cities Are Not Performing Well? Introspection – Role of Civil Engineers” was conducted by Dr.S.M. Subhani, Managing Director, NCPE Infrastructure Private Limited on 16th August 2016 from 2.30 pm – 4.30 pm for B.E. 4/4 Civil Engineering students as a part of IEI Professional Body activities.



A guest lecture was delivered by Sri. P.Radha Krishna Prasad, Associate Professor, Department of Mechanical Engineering ,CBIT on “Career Guidance” on 24.08.2016.

A guest lecture on “Contracts and Tenders in Constructions” by Mr. P.Surya Prakash, Director, Satyavani Projects Khairtabad, Hyderabad was organized for BE 4/4 students on 07.10.16.

A Guest Lecture was delivered by Ms.J.Pratyusha, an Alumnus of 2012 Batch, pursuing Ph.D in IIT Bombay on “Career Guidance” for B.E.4/4 students on 26.10.2016.

Dr. S.V.N.Rao, Project Director, WAPCOS Ltd. delivered a lecture on “A Few Water Resources Projects” for B.E. 4/4 and 3/4 Civil Engineering students on 15.10.16.



## Staff Achievements

**Dr. M.V.Rama Rao, Professor, was awarded "Best Civil Engineer – Academician" by the Smart Infrastructural Engineering Services Trust (Smart Infra-EST) at Osmania University, Hyderabad.**



**Dr. G. Shravan Kumar, Associate Professor was awarded Ph.D Degree by JNTU Hyderabad for his research work entitled "Integrated Remote Sensing & Factor Analytic GIS Model for Evaluation of Ground Water Pollution Potential".**

**He has been elected as a Committee Member of Civil Engineering Division at Institution of Engineers(India) for Telangana State Centre Committee(TSCC). He also holds the position of Joint Honorary Secretary of TSCC and is a member of the editorial board for the period 2016-18.**

## Faculty Presentations

**A faculty presentation on "Integrated Remote Sensing and factor analytic GIS model for evaluation of ground water pollution" was made by Dr. G. Shravan Kumar, Associate Professor, Department of Civil Engineering, VCE on 03rd August, 2016 from 02.50 – 04.30 pm for B.E 4/4 Civil Engineering students under co-curricular activities.**

**A faculty interaction on "Engineering Mechanics" was conducted on 22nd August, 2016 in the Department of Civil Engineering under co-curricular activities. In the interaction session, faculty members Mr. Siddharth Banerjee, Assistant Professor and Mr. JYVS Shiva Bhushan, Assistant Professor delivered lectures on certain topics related to B.E. 1/4 Engineering Mechanics course of study. Dr. B. Sridhar, Professor and Head and Dr. M.V. Rama Rao, Professor were present for the session and reviewed the lectures.**

**A faculty presentation on "Geotechnical characterization of Construction and Demolished concrete (CDW) material" was made by Mr. J Y V Shiva Bhushan, Assistant Professor, Department of Civil Engineering, on 27th July, 2016 from 02.50 – 04.30 pm for B.E 4/4 Civil Engineering students under co-curricular activities. The lecture has provided an insight on the properties of CDW and its utilization as a backfill material in retaining walls.**



## Staff Participation

- Dr. C. Mohanlal, Associate Professor in CED, along with co-author Mr.V.Sai Srujan Reddy published a paper titled- "Properties of High Strength Fibre Reinforced Concrete Using Ultrafine Slag", in the journal of Applied Mechanics and Materials, ISSN:1662-7482, Volume.857, pp 183-188, Nov 2016, Trans Tech Publication, Switzerland.
- Dr. K. Jayasree, Assistant Professor, Mrs. P. Dhatri, Assistant Professor & Dr. B. Sridhar, Professor & HOD, Department of Civil Engineering published a paper titled "Recycling Pavements For Ecofriendly Roads" in the "77th Annual Session IRC - 2016" organized by R & B Telangana State, at HITECH, Hyderabad held on 15th - 18th December 2016.
- Dr. B.L.P. Swami and Mr. S. Vijaya Kumar, Associate Professor, Department of Civil Engineering published a paper titled "Mixed Fibre Reinforced Concrete - Study of Strength and Behaviour" in the "1st International Conference on Recent Innovations in Engineering and Technology (ICRIEAT-2016) organized by Aurora's Scientific, Technological and Research Academy, Chandrayanagutta, Hyderabad held on 22nd & 23rd December 2016. The paper was presented by Dr. B.L.P Swami.
- Dr.B.Sridhar, Professor, HOD, CED & Dr.M.V.Rama Rao, Professor, CED attended the interaction under Industry Institute Interaction to "Smart Summit" on 16th July 2016.
- Sri. S.Vijay Kumar, Associate Professor, attended the FESPA & STRAP seminar on 27th July 2016 at Marigold, Hyderabad.
- Dr.C.Mohan Lal attended the international conference on "Innovations in Structural Engineering and Constructions(ICISEC) on 29th and 30th July 2016 at Amal Jyothi College of Engineering, Kanjirapally, Kerala.
- DR. B.Narendar Assistant Professor attended a one day workshop on Earthquake Resistant design of structures on 24th September 2016 at IIT, Hyderabad
- DR. B.Narendar, Assistant Professor attended a two day national workshop on "Condition Assesment and Retrofitting of structures" on 26th and 27th September 2016 at CBIT, Hyderabad.
- Mr.J.Y.V.Shiva Bhushan & Mrs.Kumari Koustuvee attended a one day workshop on "Geo Disasters;Ground and Slope Instability" on 1st October 2016 at JNTUH.
- Dr.B.Narendar, Assistant Professor Civil Engineering attended a one week workshop on "Probabilistic Sesimic Hazard Assesment" between 21-26th October 2016 at IIT, Hyderabad.
- Mrs.P.Dhatri attended a two day workshop on "Design Construction Evaluation and Maintenance" on 21 and 22nd October 2016 at OU College of Engineering.
- Sri.S.Vijay Kumar and Dr.BLP swami along with co-authors presented a technical paper titled,"Self Compacting Concrete",with mixed fiber-Strength and Behaviour",in the National Conference(MITCONCEPT),held at M.I.T,Manipal during 26th-27th August,2016.
- Sri.S.Vijay Kumar and Dr.BLP Swami published a paper titled,"Impact and Permeability Properties of Fibers Triple Blended Self Compacting Concrete",in the International Conference on Recent Innovations in Civil and Mechanical Engineering(i-CAM 2K16)on 10-11 Dec,2016 held at CMR Technical Campus,Hyderabad.
- Sri M.Bhaskar and Dr. BLP Swami published a technical paper titled,"Strength Properties of Timber Reinforced High Performance Concrete Blended with Metakaolin and Condensed Silica Fume", in the International Conference on Recent Innovations in Civil and Mechanical Engineering(i-CAM2K16) on 10-11 December,2016 held at CMR Technical Campus,Hyderabad.
- Dr. BLP Swami with co-authors published a technical paper titled,"Structural Properties of Silica Fume,Modified Light Weight Aggregate(Cinder) Concrete",at International Conference on Recent Innovations in Civil and Mechanical Engineering(i-CAM2K16) on 10-11 December,2016 held at CMR Technical Campus,Hyderabad.
- Sri.S.Vijay Kumar and Dr.BLP Swami published a paper titled,"Influence of Fiber Percentage and Aspect Ratio as the Elastic Properties of Fibrous SSC",in the National Conference on Sustainable Materials and Management systems in Civil Engineering(NCS2ME 2016), held on 15-16 Dec,2016.
- Sri.Asvari Sultana,Sri.S.Vijaya Kumar and Dr. B.L.P. Swami has published a technical paper titled,"Utilisation of Copper Slab as a Replacement of Fine Aggregate in Concrete Mix,A study of strength properties in NCS2MCE 2016"held on 15-16 Dec,2016,CBIT,Hyderabad.
- Dr.B.L.P. Swami along with co-author published a technical paper,"Studies of Partial Replacement of Conventional Granite Stone Aggregate in Concrete with Emery Stone Aggregate",in NCS2MCE 2016",held on 15-16 Dec,2016 at CBIT,Hyderabad.
- Dr. K.Jayasree, Assistant Professor, attended a one day workshop on "Outcomes Based Education and Accreditation" at OU College of Engineering, Hyderabad on 18th December 2016.



## Technical Staff Contributions

- Mr.K.Gopal,Lab Technician ,took the initiative and got an apparatus fabricated for finding out the Specific Gravity of Coarse Aggregate in Transportation Engineering Laboratory. With the help of this equipment,civil engineering students are now able to determine the specific gravity of the coarse aggregate easily and are able to perform the experiment smoothly.
- Mr.D.S.V.Ramana,Lab Technician in CED at Fluid Mechanics Lab was involved in the fabrication of an apparatus consisting of a Hemispherical Vessel,by which the discharge of water flowing out from the bottom can be easily and accurately measured. With the help of this apparatus,the civil engineering students are now able to perform a new experiment in Fluid Mechanics Lab.This is very helpful to the lab and the students.
- Mr.M.Jaganiah,Lab Assistant was awarded M.Tech Degree in Transportation Engineering by JNTU-H in the year 2013.

## Student Activities



- Abdul Wasae of B.E Civil 3/4 won the 2nd prize for his paper presentation on the topic "Sustainable Housing and Construction Development in Developing Economies" in the Smart Infra-EST organized at JNTUH on 28th September 2016.
- G. S. Sachin of B.E 3/4 Civil won the third prize in Poster Presentation on the topic "Intelligent Transportation Systems" in the Smart Infra-EST organized at JNTUH on 28th September 2016.
- Shiva Ranjith and V.Roopika of B.E 2/4 Civil delivered a paper presentation on the topic "Replacement of Fine Aggregate" in the Smart Infra-EST organized at JNTUH on 28th September 2016.
- Y.Aasritha and Nabeel Ahmed of B.E 2/4 Civil delivered a paper presentation on the topic "Quality Protocol" in the Smart Infra-EST organized at JNTUH on 28th September 2016.
- Hima Bindu, G.Keerthi, T.Sai Shivani, K.Sainath, G.Aaryavardhan presented a model on the topic "Smart City" in the Smart Infra-EST organized at JNTUH on 28th September 2016.
- C.V.Vinay of B.E 4/4 Civil won Gold Medal in Boxing at Punjab Traditional Games held at Amritsar during 26-28 Aug,2016 and Jay Jalaram International School, Anand Gujarat during 2-3 oct,2016.
- Mr. Syed Ahmed Azeemuddin Zeeshan studying at Civil Engineering Department, Vasavi College of Engineering, has contributed to promote "Confluence 2016" in VCE,in his capacity as a Campus Ambassador.
- Ms. Mandira Devi, B.E 4/4 Civil Engineering was selected for second round of Army Services Selection Board (SSB) on 21st Dec,2016.



Mr.Vijay Mallangi of B.E. 4/4 has started Hyderabad Chapter of 5th Pillar Club at Vasavi College of Engineering,Hyderabad,with the mission to,"Encourage,Enable & Empower Every Citizen to Eliminate Corruption at All Levels of Society",they adopted Zero Rupee Note(ZRN) as their primary campaign tool for propagating their goals and ideals.Within no time,the ZRN assumed the power of a "Nonviolent Weapon of Non-Cooperation Against Bribery." It worked like a magic every time it was handed out by an honest citizen who chose not to pay the bribe.The ZRN acted as the substitute currency for paying the bribe(or not paying rather). It also shamed the bribe-seeking person and sent an underlying message of "I will report you if you don't deliver my service without stalling any more for want of a bribe."After the Launch of the club in our college, a wide number of activities were carried out by the club such as:

***Distribution of 3000 Zero Rupee notes in***

IbrahimBagh.

GNITS,

Aurora College.

Various other social platforms like, Vigilance Talk at Bharatiya Vidya Bhavans Public School,Jubilee Hills on 3rd Nov,2016. Speaker Presentation at H.E.R conference ISB,Hyderabad on 23rd Aug,2016 was conducted.

***A comprehensive survey of civic problems in the area of Ibrahimbagh was conducted, and the concerned officials in GHMC department were contacted in this regard.***

***They organized"AZAADI 70" Republic Day celebrations in the college and also launched the club in 2 other colleges. (GNITS and AURORA).***



## SAHAAY

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

Funds collected in this name are used for students of high ambition but requiring a financial aid.

### Program Specific Outcomes (PSOs):

1. Analyse and design civil engineering structural systems
2. Apply principles of fluid mechanics in solving problems of hydraulic engineering
3. Provide transportation engineering solutions integrating the concepts of sustainable development.

Lend your hands towards it at HOD's Office in Civil Department



Please send your feedback at [hodcivil@vce.ac.in](mailto:hodcivil@vce.ac.in)