

Nirmaan

The Newsletter

Department of Civil Engineering

Vasavi College of Engineering

From HOD's Desk...



Greetings!

I am very happy to present "NIRMAAN", the fourth issue of the biannual newsletter of the department. This newsletter outlines all the activities that took place at the department during the second half of year 2015. The Department is currently getting ready for NBA accreditation and is involved in the preparation of the Self-Assessment Report (SAR). The Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Department have been modified in accordance with the latest guidelines of NBA. The results of the first year of autonomy have been quite encouraging. The first year students of the Department secured an overall pass percentage of 85%.

The Department has successfully conducted the Engineers' day celebrations this year. I am happy to inform everyone that our students and faculty successfully participated in a number of activities in these six months. In addition, the period with marked with organisation of field visits, conferences and workshops for students and faculty members. Several of our faculty members carried out research work and published a number of papers in national and international conferences. We are looking for support of all stakeholders for expert lectures, field visits and industry-institute collaboration. Any new ideas and suggestions in this regard are most welcome.

We shape our buildings, thereafter they shape us.

— Winston Churchill

A good scientist is a person with original ideas. A good engineer is a person who makes a design that works with as few original ideas as possible

— Freeman Dyson

Art without engineering is dreaming; engineering without art is calculating

— Steven Roberts

Editorial Team

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Dr. M.V. Rama Rao

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In this Issue

PEOs, Pos and PSOs	2	Staff Participation and Achievements	4
In house Events organized	2	Student Activity	5
Eminent visitors at the Department	3	Faculty Presentation	6
Alumni activity	3	In house Photography Competition	6

College Vision

Striving for a symbiosis of technological excellence and human values.

College 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.

Department Mission

To impart knowledge in the latest technologies to the students of civil engineering to fulfil the growing needs of the society.

PROGRAMME EDUCATION OBJECTIVES (PEOs)

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 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 to connect any given place integrating the concepts of sustainable development.

PROGRAM OUTCOMES (POs)

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

1. Apply knowledge of basic sciences and engineering in solving the civil engineering problems.
2. Identify, formulate and analyze civil engineering problems using the principles of basic sciences and engineering concepts.
3. Design civil engineering structures with considerations for public health and safety.
4. Perform investigation of complex civil engineering projects using research based knowledge.
5. Identify techniques, skills and modern engineering tools necessary for civil engineering practices.
6. Acquire knowledge on the societal, legal and cultural issues related to construction.
7. Understand the impact of construction of civil engineering structures on environment and design the structures that provide sustainable development.
8. Adopt ethical values and professional responsibilities in the engineering practice.
9. Function effectively as an individual and as a member or leader in diverse teams.
10. Communicate effectively on civil engineering problems, write effective reports and design documents and make effective presentations.
11. Demonstrate the knowledge and understanding of civil engineering in project management, finance and working in multidisciplinary environments.
12. Engage in independent and lifelong learning throughout professional life.

IN- HOUSE EVENTS ORGANISED

A Two Day Workshop on “Design of High Rise Building using ETABS” was conducted under TEQIP-II by the Department of Civil Engineering on 28th and 29th of August, 2015. for B.E. 4/4 Civil Engineering students. Mr. Jaweed Jilani Khan, Managing Director, Metropro Consultants Pvt. Ltd. Hyderabad attended and addressed the workshop

A One Day Workshop and Training on “Concrete Mix Design” (CMD-2015) for B.E. 3/4 & 4/4 Civil Engineering students was organised by the Department of Civil Engineering in association with ICI, ASCE & RMCMA and supported by Ultratech Cements Ltd, Hyderabad Er. Raghava Hari Narayan, and Mr. B.V.R.K. Swami Senior Executives, M/s Ultra Tech Cements Ltd. addressed the workshop



EMINENT VISITORS AT THE DEPARTMENT

- A Webinar Session on “Waste Water Treatment” was organised for B.E. 4/4 Civil Engineering Students on 21.07.15. Mr. Balaji Seshadri, Head— Engineering (Mechanical) and Service and Mr. Krishna Kumar, Solutions Engineer from GRUNDFOS addressed the session.
- Sri. Suresh Nallagoni, Sales Manager, BASF India Ltd, Hyderabad delivered an Expert Lecture on “Use of Chemicals and Admixtures in the area of Construction Practices” for B.E. 4/4 Civil Engineering students on 03.08.15.
- Mr. P. E. Alladi Kumar, CEO and President, Radise International L.C. and Smart Structures delivered a guest lecture on “Advanced sensing and monitoring technologies – Smart Structures” for B.E. 3/4 & 4/4 Civil Engineering Students on 24.09.15.



- Ms. Arunika Chandra, Planning and Operations Engineer, Freyr Energy Services delivered a Guest Lecture on “Career Options



for Civil Engineering Students after Graduation” for B.E. 2/4 Civil Engineering students on 28.10.15

- Mr. Chandra Mouli Vemury, Senior Lecturer in Structural Engineering, School of Science & Engineering, Teesside University (Alumni 2002) delivered an Expert Lecture on “Career Shaping and Research on Smart Materials for B.E. 3/4 Civil Engineering Students on 16.09.15.
- Mrs. Anitha Devi Bonala, Structural Consultant, M/s. Eshana Projects (Alumni 1997) delivered an Expert Lecture on “Self Employment & Goal Setting” for B.E. 4/4 Civil Engineering students 01.08.15
- An expert lecture by Prof. K. Ganesh Babu, presently Professor (Emeritus), Department of Civil Engineering, CBIT, Hyderabad (formerly Professor in Ocean Engineering Department, IIT Madras and also Director, CBRI) was arranged for the B.E. 4/4 Civil Engineering students on 2nd November, 2015. He has delivered a



lecture on “Advances in Concrete Constructions”.



ALUMNI ACTIVITY

- Alumni Meet-2015 and Silver Jubilee Reunion of 1986-90 Engineering Batch was organised on 24th September 2015. Eighteen alumni members of Civil Engineering attended the meet.
- The Department of Civil Engineering organized an Alumni meet on 19.12.2015 in the Computer Centre of the Department. A total of 26 Alumni attended the meet.
- An alumni interaction was arranged by the Department of

Civil Engineering on 10th October, 2015. Seven members (2012 batch) namely N.S.S.Aditya Manohar, PC,CBRE South Asia; N.Praveen Kumar, PA, CTS Hyderabad; M.VinayKanth, Project Engineer, United Developers; M.Pruthvi Raj, Mast Engineer, Reliance Industries; V.V.Charan, Assistant Manager, Aarvee Associates; Sri Vishnu, Senior Engineer, Dutco Balfour; A.Siva Sai, Graduate Engineer, Arcadis India Pvt. Ltd. interacted with the B.E. 3/4 & 4/4 Civil Engineering students.



STAFF PARTICIPATION

- Dr. M.V.Rama Rao, Professor in CED, along with co-authors Robert Mullen, and Rafi.L. Muhanna, published a paper titled “Geometric misfitting in trusses and frames: an interval-based approach” in International Journal of Reliability and Safety, Inderscience Publishers, UK.
- Dr. M.V.Rama Rao, Professor in CED, along with co-authors Robert Mullen, and Rafi.L. Muhanna, published a paper titled “Nonlinear FEA of Frames under Interval Material And Load Uncertainty” in a prestigious publication viz. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, *ASME J. Risk Uncertainty Part B* 1 (4), 2015
- Dr. BLP Swami along with co-authors Urooj Masood and A.K Asthana has published a paper titled “Study on Elastic Properties of Mixed Fibre Reinforced Concrete” in the International Journal of Research in the Engineering and Technology (IJRET), Volume – 04, Special Issue- 13. Dec 2015
- Dr. BLP Swami along with co-authors Dr. P. Srinivasa Rao, M. Bhaskar presented a paper titled ‘Study of Compressive Strength and Flexural Strength Characteristics of Triple Blended High Strength Fibrous Cement Concrete’ in the 4th Asian Conference on Ecstasy in concrete at Seiner City Calcutta organised by ICI- ACECON-2015, Dec 07-10. Dr. BLP Swami has presented another paper titled ‘Flexural Strength and Ductility Characteristics of mixed Fibre Reinforced Concrete Specimens’ along with co authors Urooj Masood and Dr. A.K. Asthana. The above papers are published in the proceedings of the International Conference
- Dr. BLP Swami delivered a special lecture on ‘Wind Effects on Structures’ at the 3 day Workshop on Design of Buildings Conducted by the National Academy of Constructions, for Engineers of PWD, Madhya Pradesh on 07-10-2015, Hyderabad
- Dr. B. Narender, Assistant. Professor in CED attended a short course on “Earthquake Resistant Design of Buildings” on 13th July 2015 at EERC - IIIT, Hyderabad and delivered a lecture on “Design procedure of IS:456-2000”.
- Dr. B. Narender, Assistant Professor in CED attended a One day National Symposium on “Earthquake Safety of Tall Buildings” on 17.07.2015 at EERC - IIIT, Hyderabad.
- Mrs. Aswari Sultana, Assistant Professor in CED attended a short course on “ Geotechnical Aspects of Earthquake Engineering “ on 23-25th July, 2015 at IIIT, Hyderabad.
- Dr. B.L.P. Swami, Professor in CED attended a training program on “Methodology and procedure for construction of PEB framed Godowns at various marketing yards in Telangana state” on 24.07.15 at Training Centre, Osmangunj, and delivered a lecture to Engineers of the Agricultural Marketing Department of Telangana State.
- Dr. K. Jayasree, Associate Professor in CED attended a two day workshop on “Outcomes – Based Education” from August 2-3, 2015 at BMS College of Engineering, Bangalore.
- Dr. M. Srinivas, Associate Professor in CED attended an awareness workshop on “Outcome Based Education and Accreditation” on 14th September, 2015 at JNT University Hyderabad.
- Dr. B.L.P. Swami, Professor in CED attended the First International Symposium of Asian Concrete Federation ACF 2015 on Ultra High Performance Concrete on 7th October, 2015 at Science City, Kolkata.
- Dr. B.L.P. Swami, Professor in CED attended the Fourth Asian Conference on Ecstasy in Concrete on Advancements in Structural Concrete during the period 8-10th October, 2015 at Science City, Kolkata.
- Sri. S. Vijaya Kumar, Associate Professor and Mrs. B. Soujanya, Assttand Professor in CED attended a one day workshop on “Engineering Graphics using AutoCAD” on 9th October, 2015 at OU College of Engineering, Osmania University, Hyderabad.
- Dr. T. Srinivas, Associate Professor, CED made a one day visit to Pennar Engineered Building Systems Ltd, Sadasivapet, Medak and Esennar Transformers, Patancheru by CII Green Bussiness centre as part of CII TEQIP Project on 26th November, 2015.
- Dr. C. Mohanlal, Associate Professor in CED attended a workshop on " Management Capacity Enhancement Programme" from 16th to 20th November, 2015 at IIM, Trichy (Chennai Campus).
- B. Hari Kiran, Assistant Professor in CED attended a National Conference on “Urban flood management: Technology Driven Solutions” from 20th to 21th November, 2015 at Civil Engineering Department, BITS-Pilani, Hyderabad Campus
- M.V.S.S. Sastri, Associate Professor in CED attended a AICTE sponsored Five Day Short Term Course on “Advanced Concrete Technology” from 29th November, 2015 to 4th December, 2015 at IIT Madras.

SAHAAY

ITS NOT HOW
MUCH WE
DONATE BUT
HOW MUCH LOVE
WE PUT INTO
GIVING...

FUNDS COL-
LECTED IN THIS
NAME ARE USED
FOR STUDENTS OF
HIGH AMBITION
BUT REQUIRING A

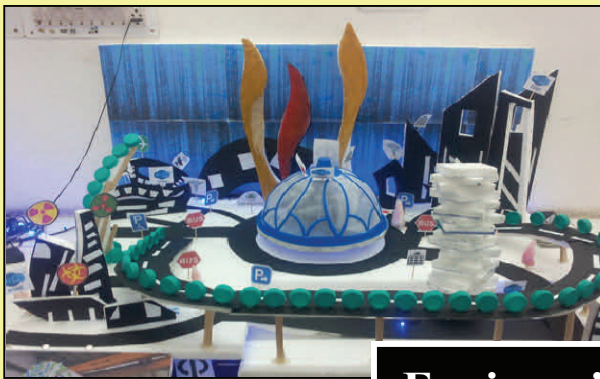
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STAFF PARTICIPATION

- Sri. M.V.S.S. Sastri, Associate Professor in CED presented a paper titled “Studies on Fibrous Recycled Aggregate Triple Blended High Strength Concrete” along with co-authors K. Jagannadha Rao and V. Bhikshma in an International Conference on “Innovations in Structural Engineering” (IC-ISE-205) during the period 14-16 December, 2015 at OU College of Engineering, OU, Hyderabad.
- Ms. P. Ramya Sree, Assistant Professor in CED presented a paper titled “Study of Compressive and Flexural Strength of Fibrous Triple Blended High Strength Concrete with Fly Ash and Condensed Silica Fume” along with co-authors Arunika Chandra, Mr. M. Bhasker, Associate Professor in CED and Dr. B.L.P. Swami, Professor in CED in an International Conference on “Innovations in Structural Engineering” (IC-ISE-2015) during the period 14-16 December, 2015 at OU College of Engineering, OU, Hyderabad.
- Dr. C. Mohanlal, Associate Professor in CED attended a two day “Bentley learning Conference” by the developers of STAAD Pro Software, the Bentley systems from 3rd to 4th December, 2015 at Bengaluru.
- Sri. Siddharth Banerjee, Assistant Professor in CED attended a two day conference on “An Industry Academia Conference on Construction Management” during the period 4th-5th December, 2015 at NICMAR, Hyderabad.
- Dr. B. Sridhar, Professor & H.O.D., CED; Dr. B.L.P. Swami, Professor, CED; Dr. M.V. Rama Rao, Professor, CED and Sri. S. Vijaya Kumar, Associate Professor, CED attended an International Conference on “Innovations in Structural Engineering” (IC-ISE-2015) during the period 14-16 December, 2015 at OU College of Engineering, OU, Hyderabad. Dr. B.L.P. Swami presented a paper on “Experimental Studies on Light Weight Aggregate (Pumice Stone) Concrete” with co authors N. Sivalinga Rao and V. Bhaskar Desai. He also presented a paper titled ‘Study on Elastic Property of Mixed Fibre Reinforced Concrete along with co-authors Urooj Masood and A.K. Asthana. Sri. S. Vijaya Kumar presented a paper on ‘Strength and Elastic Properties of Fibrous Self Compacting Concrete’ with co-author Dr. B.L.P. Swami. He also presented a paper titled ‘Study on Mixed Fibrous Reinforced Self Compacting Concrete with Mineral Admixtures’ along with co-authors B. Dean Kumar and B.L.P. Swami.

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.

“Essay Writing Competition” was organised where Rohith Reddy Singireddy and Harshvardhan Reddy of B.E 3/4 won the 1st and 2nd prizes respectively while Syed Abdul Wasae of B.E. 2/4 grabbed the 3rd prize.



Engineer's Day Celebrations



- Model Presentation Contest on the theme ‘Smart Cities’ was organised on 4th September. Syed Abdul Wasae and Kalinga Manoj Kumar of won the first prize. Mohammad Abdul, Sohail Gollapalli Sai Niharika Thota Samanvita won the second prize while R Rupender Reddy and Genershetty Sachin bagged the third. The winners are from B.E 2/4 Civil.
- Paper Presentation contest was held on 28th August, 2015. Syed Abdul Wasae and Trivedi Abhishek of B.E 2/4 Civil won the first prize, Yash Yogesh Parmar and Sai Vijay Reddy Mallingi of B.E 3/4 won the second while Thentu Jahnvi of B.E. 2/2 Civil won the third prize.

STUDENT ACTIVITY

1. Mr. V.Snehith Reddy of B.E. 2/4 participated in swimming competition during Osmania University Inter-College Sports and Games (2015-16) on 3rd September, 2015. He won 1st Prize in swimming (50mtrs butterfly), 2nd prize in swimming (50mtrs backstroke) and 2nd prize (100 mtrs backstroke).
2. Syed Ahmed Azeemuddin of B.E. 2/4 participated in Suit UP event during ATMOS'15, the National Techno-Management Festival from 8-11th October, 2015 at BITS Pilani, Hyderabad Campus.
3. Abdul Wasae Syed of B.E. 2/4 participated in Paper Presentation event during ATMOS'15, the National Techno-Management Festival from 8-11th October, 2015 at BITS Pilani, Hyderabad Campus.
4. K.Sainath of B.E. 1/4 presented a Working Model during SMART INFR-EST 2K15 – A Mega Knowledge Sharing Symposium in association with ACCE-I (Hyderabad) on 17.10.15 at MJCET, Hyderabad.
5. D.N.S.Nischith of BE 1/4 participated in Working Model, Spot Photography & Make in India during SMART INFR-EST 2K15 – A Mega Knowledge Sharing Symposium in association with ACCE-I (Hyderabad) on 17.10.15 at MJCET, Hyderabad.
6. S.Sathwik Abhinav of BE 1/4 participated in Debate, Working Model & Spot Photography during SMART INFR-EST 2K15 – A Mega Knowledge Sharing Symposium in association with ACCE-I (Hyderabad) on 17.10.15 at MJCET, Hyderabad.
7. P.Satyajit of BE 1/4 participated in Debate, during SMART INFR-EST 2K15 – A Mega Knowledge Sharing Symposium in association with ACCE-I (Hyderabad) on 17.10.15 at MJCET, Hyderabad.
8. Abdul Wasae Syed of BE 2/4 won first prize in paper presentation and second prize in Debate competition during SMART INFR-EST 2K15 – A Mega Knowledge Sharing Symposium in association with ACCE-I (Hyderabad) on 17.10.15 at MJCET, Hyderabad.
9. V.Arun Kumar and Mohd Faisal of B.E. 3/4 attended the IUCEE Workshop from 10.10.2015 to 12.10.2015.
10. G.Surya of BE 3/4 participated in Bridge Competition in Sudhee-15 on 30th September 2015 at CBIT, Hyderabad
11. C.V.Vinay of B.E 3/4 Won 3rdPrize in Inter College Boxing Tournament for Men during Osmania University Inter-College Sports and Games (2015-16) on 29th October,2015.
12. V.Snehith Reddy of BE 2/4 participated in Basket Ball competition during State Level Inter College Sports Tournament Ekalavya on 8th October, 2015 at MGIT, Hyderabad.
13. E.Sirisha of B.E. 2/4 Won 2nd Prize in volleyball competition during State Level Inter College Sports Tournament Ekalavya on 8th October, 2015 at MGIT, Hyderabad.

FACULTY PRESENTATION

Faculty presentation on “Earthquake Early Warning System ” was made by Dr. B. Narender, Assistant Professor, Department of Civil Engineering, on 24th July, 2015 for B.E 4/4 Civil Engineering students under co-curricular activities. The session has provided an overview of seismic waves, sensor location and network system and a brief understanding of the design and applications of Earthquake Early Warning System.



IN HOUSE PHOTOGRAPHY COMPETITION



Theme: Traffic intersections

The Department of Civil Engineering organized the third in-house photography competition on 5th September 2015 to raise the profile of the civil engineering department and help the public understand civil engineering. The theme was ‘Traffic Intersections’ and B.E 2/4, 3/4 and 4/4 Civil Engineering students participated. Akhil Davvuluri of B.E. 3/4 won the competition. The competition has inspired many to use photography as a powerful tool to show the beauty of the Civil Engineering profession.