

# NIRMAAN

-THE NEWSLETTER

DEPARTMENT OF CIVIL ENGINEERING

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**VASAVI COLLEGE OF ENGINEERING**  
**(AUTONOMOUS)**

IBRAHIMBAGH, HYDERABAD-500031, INDIA.



## *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."

## **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 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.
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.

### **Program Specific Outcomes (PSOs):**

1. Understand various concepts of basic engineering sciences and mathematics to learn advanced concepts and mathematics to learn advanced concepts of Civil Engineering and apply them to practical problems.

2. Apply principal of various specializations of Civil Engineering including structural engineering, transportation engineering, Environmental Engineering, Water resources Engineering and Geotechnical Engineering to tackle engineering problems.

3. Acquire knowledge of ethical practices, communication skills, technical report writing skills and collaborative effort leading to lifelong learning.

## *EDITORIAL BOARD*

**Dr. B. Sridhar**

(Professor & HOD)

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

(Professor)

**Sri. M. Bhasker**

(Associate Professor)

**Dr. K. Jayasree**

(Assistant Professor)

**Ms. R. Sowmya**

(Assistant Professor)

**CH Krishna Siddharth**

(B.E Civil)

1602-16-732-014

**K.Neharika Reddy**

(B.E Civil)

1602-16-732-014

**P.Sai Venkat**

(B.E Civil)

1602-17-732-038



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## Bombay Art Society, Mumbai

Architect Sanjay Puri has designed the building with inspiration from the Cubist sculptures and resembles European expressionist architecture, which will house three galleries. It is the only public building to be opened up in Mumbai in recent times, a space that will solely be dedicated to the arts and art community. Fluid forms enmeshed in each other, at parts emerging from each other constitute this building, housing art galleries, an auditorium, a cafeteria and a small office block.

The fluidity of form seen externally is carried through the interior volumes allowing spaces to flow into each other seamlessly while each space is yet defined within.

All the internal spaces are lit by skylights and the art gallery area walls flow into the roofs as a series of homogeneous fluid forms. A small office complex is perched 40'-0" above the galleries. This allows the galleries to be lit by skylights while defining the office block distinctly as a separate volume.

Thus within a small plot of 1400 sq. m, an area of 1050 sq. m comprising the art galleries and related spaces and an office block of 1050 sq. m are conceived together, each with its own identity. Exposed concrete would form the entire shell of this fluid sculptural structure.



➤ **SEMINARS/ WORKSHOPS/ GUEST LECTURES/ TUTORIALS/  
PERSONALITY DEVELOPMENT PROGRAMMES/ STAFF DEVELOPMENT  
PROGRAMMES ORGANIZED**

- ❖ Sri. Arunav Mukkapati, CEO, M/s. V.S.K. Software ,New Delhi, delivered Guest Lecture on" Constructions Management" to the BE 4/4 Civil Engineering Students on 01 August,2018.
- ❖ Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. Delivered a guest lecture on "Innovations and Carrier opportunity in Civil Engineering" to BE 1/4 Civil Engineering Students on 01 August,2018.
- ❖ T. Srinivas, Satya Vani, Projects and Consultants Pvt. Ltd. Delivered a Guest Lecture on " Advances in Civil Engineering" to BE 2/4 Civil Engineering Students on 07 August,2018.
- ❖ Dr.G.T.Vijay Kumar, Senior Subject Matter Expert-IIC Academy, Hyderabad. delivered a Guest Lecture on "Field Surveying Techniques" to BE 3/4 Civil Engineering Students on 08 August, 2018.



- ❖ Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. Delivered a Lecture on "Introduction to Reinforced Concrete Cement" to BE 2/4 Civil Engineering Students on 10 August, 2018.
- ❖ Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. Delivered a Lecture on "Project Management" on 10 August,2018 to BE 4/4 Civil Engineering Students.
- ❖ An Interaction session on "Career Guidance" for B.E. 3/4 Civil Engineering students by B. Sunanda, Systems Engineer, Infosys, Hyderabad Alumnus of 2017 Batch on 13 August,2018.
- ❖ An Interaction session on "Career Orientation" for B.E. 4/4 Civil Engineering students Mr. B. Santosh, Presently working as Structural Engineering, in Warley Parsons, Houston, USA. He is the Alumnus of 2003 Batch on 14 August,2018.
- ❖ An Interaction session on "Contracts and tenders" for B.E. 2/4 Civil Engineering students by G. Vishal Manager, Contracts & Claims, SEW Infrastructure Ltd, Hyderabad Alumnus of 2006 Batch on 14 August,2018.
- ❖ Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. Delivered a Guest Lecture on "Layout of plies & Infrastructures" to BE 2/4 Civil Engineering Students on 25 August,2018.
- ❖ One day workshop on "Applications of Water Resources in Civil Engineering (AWRCE-2018)" Organized by Dr. G. Shravan Kumar Associate Professor, Department of Civil Engineering, VCE for B.E. 4/4 & 3/4, Civil Engineering students on 18 September,2018.



- ❖ An Interaction session on “Higher Education” by Mr. Santosh Baredi, presently working as Research Person, Warley Parsons, Houston, USA to B.E. 4/4 Civil Engineering students on 27 September,2018.



- ❖ An Interaction session on “GATE Examination” by MVS Academy, Hyderabad for BE 3/4 Civil Engineering students on 8 October, 2018.
- ❖ M/s Metey Engineering and Consultancy Pvt. Ltd., Hyderabad delivered a Guest Lecture on “Strength of Materials” under Co-Curricular Activity for BE 2/4 Civil Engineering Students on 10 October,2018.
- ❖ An Interaction session on “Entrepreneurship” by Ms. G. Sai Niharika, (2018 Alumni Batch) to BE 2/4 Civil Engineering Students on 27 October ,2018.
- ❖ An Interaction session on “Career Guidance” by Ms. G. Sai Niharika, (2018 Alumni Batch) to B.E. III, V-Semesters & 4/4, I-Sem. on 01 November,2018.
- ❖ Asiya Begum, Scientist SE, NRSC, Hyderabad. delivered a Guest Lecture on “Application of Geographical Information Systems” to BE III-Semester on 01 November, 2018.



➤ **STAFF PARTICIPATION:**

- ❖ Dr. G. Shraavan Kumar, Associate Professor, CED, attended Two days All India Seminar on "Recent Development in Concrete Composites" on 24<sup>th</sup> -25<sup>th</sup> August, 2018 at Visvesvaraya Bhavan, Khairatabad, Hyderabad.
- ❖ Sri. S. Vijaya Kumar, Associate Professor, CED, attended Two days 2nd International Conference on "Paradigms In Engineering and Technology" on 28.12.2018 & 29.12.2018 at Methodist College of Engineering, Abids, Hyderabad.
- ❖ Dr. G. Shraavan Kumar, Associate Professor, CED, attended World Habitat Day – Theme: "Municipal Solid Waste Management" on 1<sup>st</sup> October 2018 organized by at Institution of Engineers (India), Hyderabad.



➤ **STAFF ACHIEVEMENTS:**

- Mr. S. Vijaya Kumar, Associate Professor, Department of Civil Engineering, a research paper titled "Load Deflection characteristics of Fibrous Triple Blended Self compacting concrete" presented at All India Seminar on "Recent Development in Concrete Composites" (RDCC-2018), organized by The Institution of Engineers (India), Telangana State Centre, Hyderabad.
- Dr. M.V. Rama Rao, Professor in Civil Engineering delivered a lecture on "Structural Analysis and Design" at the faculty development program (FDP) organized by (Telangana Academy of Skill and Knowledge(TASK) and Smart Infr-EST on 29th September for faculty from various Engineering colleges.
- The following staff members attended the examination of NPTEL online certificate courses for the Academic Year 2018-19, I-Semester.
  - Sri. M. Bhasker, Associate Professor, CED
  - Dr. M. Srinivas, Associate Professor, CED
  - Dr. C. Mohan Lal, Associate Professor, CED
  - Sri. S. Vijaya Kumar, Associate Professor, CED
  - Dr. K. Jayasree, Assistant Professor, CED
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- Sri. S. Vijaya Kumar, Associate Professor, CED
- Dr. K. Jayasree, Assistant Professor, CE

➤ The faculty of civil engineering department , has always carried unceasing zeal to showcase their research work and present their findings . Our prolific Professors of the department have presented their papers at different influential institutions. Our faculty has arranged seminars on college campus for the benefit of students - as this would be an extension of learning , from their classroom teachings .

Additionally , our faculty member have appeared for the online certification exam (NPTEL).

➤ **STUDENTS' ACHIEVEMENTS:**

- a. Students of BE 2/4 attended One day workshop on “Technical Overview of Virtual Labs on 29.08.2018 by Prof. Ravi Shankar, Project Manager of Virtual Labs, IIIT, Hyderabad, 2018 from 2.20PM to 4.20PM.
- b. Mr. T. Akhil Kumar (1602-16-732-001) and Mr. S. Sai Krishna Teja (1602-16-732-035) students are Participated “AURA-18 Cricket Tournament at CBIT College from 15.09.2018 to 17.09.2018.
- c. Model presentation contest was conducted on 05.09.2018 under IEI student’s chapter for B.E. 3 / 4 and 2/4 Civil Engineering students. 22 students participated in the contest.

**WINNERS OF MODEL PRESENTATION CONTEST**

- ANNAPUREDDY.RAHUL REDDY and KOTHAPALLI.VENKATA SAI LASYA got first prize.
- G. SAI MADHURI and VOORUGONDA. SOUMYA got second prize.
- BANDI. NAVYASRI and RAVUTLA. SHREYA SREE got third prize.



- d. 03 Students of BE 3/4 and and BE 4/4 attended International Conference on “Recent Developments in Clean and Safe Nuclear Power Generation” on 3<sup>rd</sup> October to 5<sup>th</sup> October 2018 organized by Institute of Engineers (India), at Vishweshwaraya Bhavan, Khairatabad, Hyderabad.
- e. Vasavi college of engineering has always exited students with its innovative competitions . Students of the department of civil engineering have come up with ingenious and stellar ideas , challenging the judges choices to pick the best .
- f. Students of the department have attended a one day workshop on “TECHNICAL OVERVIEW OF VIRTUAL LABS ” at IIT , Hyderabad .
- g. Moreover, students have attended International Conference on “ RECENT DEVELOPMENTS IN CLEAN AND SAFE NUCLEAR POWER GENERATION , at Vishweshwaraya Bhavan .Such opportunities outdoors gives students exposure to off - campus learnings , and establishing news connects with students and faculty in other technical universities.
- h. Our students showcase talents outside the classroom too . They have participated in various sports competition .The annual competitions conducted on eve of Engineers Day is a treat to watch. Student display passionate dexterity in writing - related to the civil engineering field .
- i. The teams from our college comprising of 34 students participated in the presentation competition conducted by Zuari Cement Ltd.

➤ **OTHER IMPORTANT EVENTS, IF ANY**

- a. The following staff members are visited BITS Pilani campus on 09.08.2018 for labs modernization purpose.
  - ❖ Dr. B. Sridhar
  - ❖ Dr. M. Srinivas
  - ❖ Dr. C. Mohan Lal
  - ❖ Sri. S. Vijaya Kumar
  - ❖ Dr. K. Jayasree
  - ❖ Sri. S. Kesav Kumar
- b. Department of Civil Engineering conduct the training program on “Building Information Modeling” as a part of Finishing School-III (Technical Skills) for the V-Semester students of Civil Engineering during the period 24.09.2018-29.09.2018.
- c. An Industrial visit for B.E. 4/4 Civil Engineering Students was planned and arranged on “Preca Manufacturing Unit” at Shankarpally. They were accompanied by Dr. G. Shravan Kumar, Sri. M. Bhasker, Sri. D.S.V.Ramanaand ,L.S.Reddy.
- d. An interaction session of faculty members with Er. P. Surya Prakash was held on 08.12.2018 regarding theme based projects and final year student projects.
- e. Interaction of faculty members with M/s. Ashok Builders was conducted on 10.12.2018 regarding student internship.
- f. Faculty presentations by Mr.J.Chaitanya, Assistant Professor and Mr.J.Bhargav, Assistant Professors in the department of Civil engineering on the topic “Disaster Management” took place on 28.12.2018. The expert for the faculty presentations was Dr.K.H.V.Durga Rao, Head, Disaster Mitigation Support Division, NRSC, Hyderabad.

g. Well it is not the mind that always channelizes the knowledge we absorb in classroom , sometimes we need the experience through our visual perspective - beyond classroom . The department often arranges industrial visits , so that children get to witness technical nuances in practice or functioning in the field. In addition , the department, invites dignitaries from different field to share their experiences and journeys - as it inspires the posterity for goals and endeavors .

#### **OTHER TALENTS :**

- 1) P. Sai Venkat , third year , possess impressive horse riding skills . He has mastered the art of riding and has proved his prowess by taking part in wide range of competition across the state and regional level . Furthermore , he has been selected for nationals . He was awarded the first and third position in the state level competition , in showjumping and dressage



. In addition , he has been given third place at regional level . Venkat skills have been a great addition and has added a valuable charm to Vasavi's accolades . He has constantly made his teachers and peers proud.

- 2) Anagha Mahankali, third year, holds a diploma in Carnatic classical violin , of six years , and currently pursuing her masters in violin . Moreover, she has completed five grades in western music - Piano. Anagha's talent is quite a catch in midst of mundane quantitative classroom teachings . Her perseverance and dedication towards instruments has established new connects and musical dialogues, breaking the conventions .



She exhibits her unceasing passion for music by frequently performing at exotic restaurants .In addition she has participated at prestigious competitions held by Navy Nataka Samiti and Sangeetha Kalasagaram . Interestingly, she has been the winner of the All India Radio Competition . Anagha mellifluous music has always been voice for her fervid relationships with music.