

# Vasavi College of Engineering

DEPARTMENT OF CIVIL ENGINEERING

# NIRMAAN

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THE NEWSLETTER

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## College Vision

“Striving for a symbiosis of technological excellence and human values”

## College Mission

“Striving for a symbiosis of technological excellence and human values”

## 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 fulfill the growing needs of the society.”

## Editorial Board

**Dr. B. Sridhar**  
(Professor & HOD)

**Dr. M. V. Rama Rao**  
(Professor)

**Dr. K. Jayasree**  
(Associate Professor)

**Ms. R. Sowmya**  
(Assistant Professor)

**Teja Rishith**  
(B.E. 2/4 Civil)

**Koushik Aitha**  
(B.E. 2/4 Civil)

**Chinmayi Nalajala**  
(B.E 2/4. Civil)

**Tunvi Dasari**  
(B.E. 2/4 Civil)

## Program Educational Objectives (PEOs):

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

## Program Specific Outcomes (PSOs):

- Understand various concepts of basic engineering sciences and mathematics to learn advanced concepts of Civil Engineering and apply them to practical problems.
- Apply principles of various specializations of Civil engineering including structural engineering, transportation engineering, environmental engineering, water resources engineering and Geotechnical engineering to tackle engineering problems.
- Acquire knowledge of ethical practices, communication skills, technical report writing skills and collaborative effort leading to lifelong learning

## PROGRAM OUTCOMES (PO's)

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.



## Guest Lectures Organized for Students

- Mr. M. Ravikanth, Time Institute Hyderabad had an interaction with civil engineering students of BE. third semester students on January 21, 2023. The topic of discussion was "Time TTSE and Scholarship Exam."
- BE VI and VIII semester students attended an Interaction session on "Career Counseling" by Dr. K. Keshav Reddy from ACE Engineering Academy, Hyderabad on February 2nd, 2023.



- Students from BE VII semester attended a guest lecture on February 22, 2023, by **Wg.Cdr. Srikanth Balagandar**, Director of Pega Systems, APSC-corporate, Real Estate, Facilities, and Administration, about on "How to forge a career in Environmental, Social, and corporate Governance (ESG)."





## Expert Interaction with Faculty

- An Interaction Session on “Impact of Artificial Intelligence on Civil Engineering Curriculum”, by **Dr.K.Srinivasa Raju**, Professor, Department of Civil Engineering, BITS, Hyderabad was organized to address the staff members of Civil engineering department, on 20.04.2023.



- An Interaction Session on Impact of “Artificial Intelligence on Civil Engineering Curriculum” by **Dr Prof. Lakshmana Rao**, Department of Civil Engineering, JNTU, Hyderabad was organized to address the staff members of Civil engineering department on 21.04.2023.

## Faculty Achievements/Participations

- **Dr. S. Vijaya Kumar**, Associate Professor, Department of Civil Engineering presented a paper titled “Experimental Study on the Thermal Properties of Fibre Reinforced Concrete (TPFRC)” at the Second International Conference on Sustainable Materials and Practices for Built Environment (SMPBE-2023) organized by the Department of Civil Engineering, Manipal University at Jaipur from 19.01.2023 to 20.01.2023.
- **Dr. M.V. Rama Rao**, Professor, Department of Civil Engineering attended a one day seminar on “Structural Systems and Construction of High-rise/Tall Buildings” as chairman of the session, organized by the IEI India, TSC on 15.04.2023.
- **Dr. C. Mohanlal** presented a technical paper entitled “Prediction of Splitting Tensile Strength of High Strength Fiber Reinforced Self Compacting Concrete Using Artificial Neural Networks” organized by Vidya Jyothi Institute of Technology, Hyderabad from 28th – 29th April, 2023.
- **Sri. G. Srinivas**, Associate Professor attended a six-day Faculty Development Program (FDP) on “Artificial Intelligence & Machine Learning In Civil Engineering” organized by Department of Civil Engineering, ACE Engineering College, Hyderabad from 30.01.2023 to 04.02.2023.
- **Dr. T. Srinivas, Dr. C. Mohanlal, Dr. K. Jayasree, Mrs. P. Dhatri, Sri. S. Kesav Kumar** conducted a Skill Development Programme on 23.01.2023 to 24.01.2023 for Lab technicians of the department on “Triaxial Test, Total Station, NPT permeability Test, ICT Tools and Automatic Compactor”.



- **Dr. S. Vijaya Kumar**, Associate Professor, participated in a webinar on “LC3 Concrete: A Sustainable Concrete for Future” organized by QCRETE Ready Mix (India) Pvt. Ltd, Hyderabad.
- **Dr. B. Sridhar (PI), Dr. M.V.S.S.Sastri (Co-PI) and Dr. V. Vinayaka Ram (Co-PI)** submitted a project proposal on 17.03.2023 titled “Development of durable eco-friendly recycled aggregates based prestressed Alkali-activated concrete railway sleepers” under category of SERB, DST.
- **Dr. B. Sridhar**, Professor & Head of the department was invited as chief guest to a “State level SRUJANA TECH FEST 2022-23” on 30.01.2023 organised by Government Polytechnic, Masab Tank, Hyderabad.
- **Dr. C. Mohan Lal**, Associate Professor attended One day Indo-US workshop on “Artificial Intelligence and Data Science” on 17.03.2023, organized by Mahindra University, Hyderabad.
- **Dr. S. Vijaya Kumar**, Associate Professor, attended a Conference “BRIDGE-2023” on 23rd and 24th June 2023 organized by IIT, Hyderabad.
- Department of Civil Engineering conducted faculty presentations on 20.01.2023. Dr.V.Vinayaka Ram, Professor, Department of Civil Engineering, BITS, Pilani, Hyderabad acted as an expert for faculty presentations. The following faculty gave presentations:

Dr. K. Pavan Kumar

Dr. K.Jayasree

Mrs. P. Dhatri

Mr. S. Kesav Kumar

Mr. J. Chaitanya

## Industrial Visit:

- An Industrial Visit for BE (Civil Engg.) VIII-Semester Students was organized to “National Academy of Construction”, at Hyderabad on 3rd March, 2023. 50 students participated and acquired real-world experience.





## Workshops and FDPs Organised:

- One day workshop on “Time Management” honored by **Dr. Pavan patel**, Professor and chair person training and consultancy, Silva Sivani Institute of Management, Secunderabad was organised by the department on 28.03.2023 and went successfully with 44 staff participations.



- A three days Faculty Development Program on “Recent Trends in Geotechnical Engineering from Research to Practice” was conducted from 01.05.2023 to 03.05.2023. Eminent experts **A.Saibaba, A.S.Sai Raghu, Anasuya Guhray, B.Uma Shankar, K.M.Reddy, K.Srinivas, T.Rambabu, M.R.Madhav, MVS Sridhar, Y.Hari Krishna** shared their expertise.





## Student's Achievement:

- The following students have participated in Technical Fest UDHBHAV-2023 organized by Vidya Jyothi Institute of Technology and got 1st Prize in technical presentations conducted on 03.03.2023.
  - 1602-20-732-009 - Delight Salla
  - 1602-20-732-037 - S. Sirisha
  - 1602-20-732-055 - M. Srimanasa
  - 1602-20-732-001 - A. Abhinav Chandra

## Other Important Events

- Vasavi College of Engineering, Hyderabad, TS, India, and Geomap Systems PVT LTD, Hyderabad, have established an agreement for collaboration that will last from February 2, 2022, until January 20, 2026.
- On February 11, 2023, Osmania University conducted an academic audit to the Department of Civil Engineering.

# Acumen

- Acumen Civil 2023 was conducted on 11th April 2023. It is a national level fest conducted by department of Civil engineering, Vasavi college of engineering. A total of 175 students participated in the fest out of which 60 students were from regional colleges. Faculty coordinator for the event is **Dr.K.Jayasree**, Assistant Professor, CED and the student coordinator is **Ms.Srija Reddy** of BE 4/4 Civil engineering.

Following events took place during Acumen Civil 2023.

1. Model Presentation
2. Town planning
3. Paper presentation
4. CAD clash
5. BuildaBurj
6. Megalith
7. Poster presentation
8. Shark tank Events
9. Skribble
10. CiviQ
11. Brainteaser
12. Caption it
13. Treasure Hunt
14. Bricklift
15. CID
16. Designyourway





# Acumen

BE 3/4 Civil Engineering students have prepared a display model of “Cable stayed bridge” during the Acumen event 2023.

