

# NIRMAAN

Volume 8, Issue 2

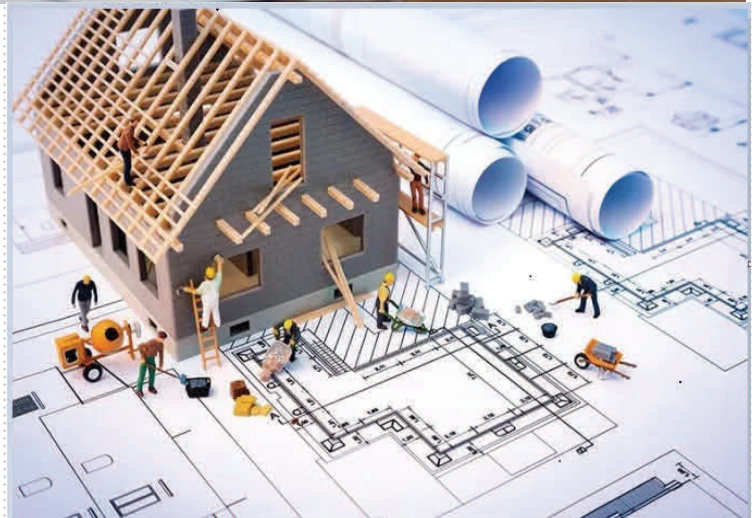
July - December 2021

The Newsletter  
Department of Civil Engineering



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## Vasavi College of Engineering (Autonomous)

(Private Un-aided Non-minority Autonomous Institution)

**ACCREDITED BY NAAC WITH 'A++' GRADE**

Affiliated to Osmania University and Approved by AICTE.

# Vision, Mission, PEOs and PSOs

## College Vision

"Striving for a symbiosis of technological excellence and

## Our 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

## Department Mission

To impart knowledge in the latest technologies to the students of civil engineering to fulfill the

*"Teachers can be a living example to their students. Not that teachers should look for students to idealize them. One who is worth idealizing does not care whether others idealize them or not. Everyone needs to see that you not only teach human values but you live them. It is unavoidable sometimes you will be idealized — it is better for children to have a role model, or goal, because then the worshipful quality in them can dawn."*

## 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)

- 01 Understand various concepts of basic engineering sciences and mathematics to learn advanced concepts of Civil Engineering and apply them to practical problems.
- 02 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.
- 03 Acquire knowledge of ethical practices, communication skills, technical report writing skills and collaborative effort leading to lifelong learning.

# Program Outcome (PO's)

## Engineering Graduates will be able to:

- ⇒ **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- ⇒ **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.
- ⇒ **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.
- ⇒ **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.
- ⇒ **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.
- ⇒ **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.
- ⇒ **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.
- ⇒ **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- ⇒ **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- ⇒ **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.
- ⇒ **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.
- ⇒ **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 Organized by Department of Civil Engineering*



The Department of Civil Engineering organized One Week Online ATAL Faculty Development Programme (FDP) on “Design and Construction of Tall Building Structures” from 09.08.2021 to 13.08.2021.



The Department of Civil Engineering organized a Staff Development Programme on “Total Station and GPS in Surveying Lab” by M/s. Lawrance and Mayo Ltd led by Mr. K. Ramesh, Area Manager from 03.08.2021 to 05.08.2021.



Department of Civil Engineering Organized “Engineers day” on 15<sup>th</sup> September, 2021 under the aegis of Institute of Engineers (IE), Students’ Chapter in the memory of Sir Mokshagundam Visweswaraya. The function was organized by Institute of Engineers students’ chapter (Civil Engineering) by garlanding the photo and lighting the lamp by duly following all the COVID-19 norms.





## *Staff Participation and Achievements*

- ◆ Mrs. P. Dhatri, Assistant Professor attended AICTE Training and Learning Academy online elementary FDP on “Innovative Contactless Investigation Techniques in Civil Engineering” from 06.09.2021 to 10.09.2021 at Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology.
- ◆ Dr. K. Jayasree, Assistant Professor, presented a paper in the Virtual International Conference on Innovative and Sustainable Civil Engineering Practices 2021-ICISCEP 2021 during 26-27 August, 2021 conducted by Department of Civil Engineering, RIET.
- ◆ Mrs. P. Dhatri, Assistant Professor, presented a paper in the Virtual International Conference on Innovative and Sustainable Civil Engineering Practices 2021-ICISCEP 2021 during 26-27 August, 2021 conducted by Department of Civil Engineering, RIET.
- ◆ Sri. M.V.S.S. Sastri published a SCI paper titled, “Correlation of strength development of RCA in quaternary blended cementations system”, in the Advances in Materials Research an International Journal, Volume 10, issue 3 pp:211-227 ISSN:2234-0912 (Print), ISSN: 2234-179X (Online).
- ◆ Dr. M.V.S.S. Sastri, Associate Professor, participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on “Advanced Concrete Technologies” from 08/11/2021 to 12/11/2021 at Osmania University.
- ◆ Sri. S. Vijaya Kumar, Associate Professor presented a paper titled, “Experimental studies on Acid Resistance of Steel Fiber Reinforced Self-Compacting Concrete (SCC)”, in the First International Conference on Structures, Materials and Construction held at Jaypee University of Information, Technology, Wagnaghat, Solan, Himachal Pradesh, India during 12<sup>th</sup> – 13<sup>th</sup> November 2021.
- ◆ Dr. K. Jayasree, Associate Professor, presented a paper titled “An evaluation of CO attainment tools in OBE frame work for engineering courses” in the International Conference on Innovation Challenges and Advances in Engineering & Technology: A Road to Self-Reliant India (ICAET 2021) organized by Department of Mechanical Engineering, Vishwaniketan institute of Management Entrepreneurship and Engineering Technology (ViMEET), Khalapur, India held on 05<sup>th</sup> and 6<sup>th</sup> September 2021. ISSN:978-81-951121-1-1.



## *Staff Participation and Achievements*

- ◆ Sri. S. Vijaya Kumar, Associate Professor, presented a paper titled, “Creep Strain behaviour of triple blended steel fiber self compacting concrete” in the International Conference on Innovation and sustainable technologies in Civil Engineering (ISTCE-2021) organized by Department of Civil Engineering, Bapatla Engineering College, Bapatla.



### *Guest Lectures organized by Department of Civil Engineering*

A guest lecture on “Water Resource Engineering” by Dr T. Venugopal Kurnool, Retired Director, AP Ground Water Department was organized for BE VII-Semester students on 01.10.2021.

A guest lecture on “Orientation to GATE exam ” by Er. Pradeep Raghu, Faculty member ACE Engineering Academy was organized for BE III & V-Semesters students on 04.10.2021.

A guest lecture on “Irrigation Water distribution and operation – a case study” by Er. G SURENDER, retired Executive Engineer, Water and Land management training and research institute (WALAMTARI) was organized for BE VII-Semesters students on 08.10.2021.

A guest lecture on “Case studies on Open channel Flow” by K. Venu Gopal, Director (Retired), GW&WA Department, Government of Andhra Pradesh was organized for BE VII-Semesters students on 09.10.2021.

A guest lecture on “Geographical Information Systems” by Asiya Begum, Scientist, (SE), NRSC, Hyderabad was organized for BE VII-Semesters students on 09.10.2021.

A guest lecture on “Environmental Engineering” by Mr. Saurabh Sakhre, Scientist, CSIR-NIIST, Thiruvananthapuram was organized for BE V-Semester students on 12.10.2021.

A guest lecture on “Career Guidance” by Kura Bharadwaj, working in Deloitte under Alumni activity was organized for BE III-Semesters students on 28.10.2021.

A guest lecture on “Preparation for Government Jobs” by Mr. V. Shiva Kumar, Assistant Engineer, R&B Department, Government of Telangana was organized for BE VII-Semester students on 24.11.2021.

## *Alumni Visitors*

| S. No | Alumni              | Date of Visit | Year of passing |
|-------|---------------------|---------------|-----------------|
| 1     | K. Shirisha         | 09.07.2021    | 2020            |
| 2     | G. Aaryavardhan     | 17.07.2021    | 2019            |
| 3     | G. Kusuma           | 07.08.2021    | 2015            |
| 4     | K. Kiran Kumar      | 03.09.2021    | 2004            |
| 5     | G. Sucharitha Reddy | 14.09.2021    | 2021            |
| 6     | B. Navyasri         | 14.09.2021    | 2021            |
| 7     | K. Naga Shashank    | 04.10.2021    | 2021            |
| 8     | K. Sai Kumar        | 04.10.2021    | 2021            |
| 9     | Ch. Raja Kumar      | 13.10.2021    | 1998            |
| 10    | V. Shirisha         | 28.10.2021    | 2021            |
| 11    | K. Rishitha         | 30.10.2021    | 2021            |
| 12    | G. Sai Madhuri      | 31.10.2021    | 2021            |
| 13    | Momina Fatima       | 08.11.2021    | 2021            |
| 14    | M. Rajesh Chari     | 10.11.2021    | 2010            |
| 15    | V. Shiva Kumar      | 12.11.2021    | 2020            |
| 16    | M. Usha             | 20.12.2021    | 2021            |
| 17    | R. Rahul            | 22.12.2021    | 2015            |

## *Alumni Insights*

The years spent in college are a major transitional stage in everyone's life. They are spent in preparation for future endeavors in the real world. My time at Vasavi College of Engineering has played a pivotal role in building my personality and leadership qualities. I realized that leadership means having the courage to overcome fears, learn from failure, and inspire others to do the same. The college allowed me to give back to the community and showcase my leadership skills through my work with 'Street Cause Vasavi' where I became a diverse agent for change. Understanding how women in rural areas struggle for health and hygiene, I implemented solutions that positively impacted ~300 families.

Additionally, the curriculum at the college is multifaceted, there was always an emphasis on extracurricular and co-curricular activities along with academics and even human values and ethics. So, as part of the curriculum, I was an active delegate to Model United Nations conferences. As an active member, I kept current with all relevant geopolitical and economic issues across the globe which has been possible because of the MUN club. The 3 day events for the fest were the best time of the year in college, which brings both technical and cultural aspects together. Also, by being part of various clubs and activities, I learned how to manage my time effectively and organize myself by balancing academics with co-curricular and extracurricular activities. The college acknowledged my impact and effort in all of the above areas by awarding the 'Young Leader Award' to me. The honor increased my confidence and motivated me to do even better in college and beyond.

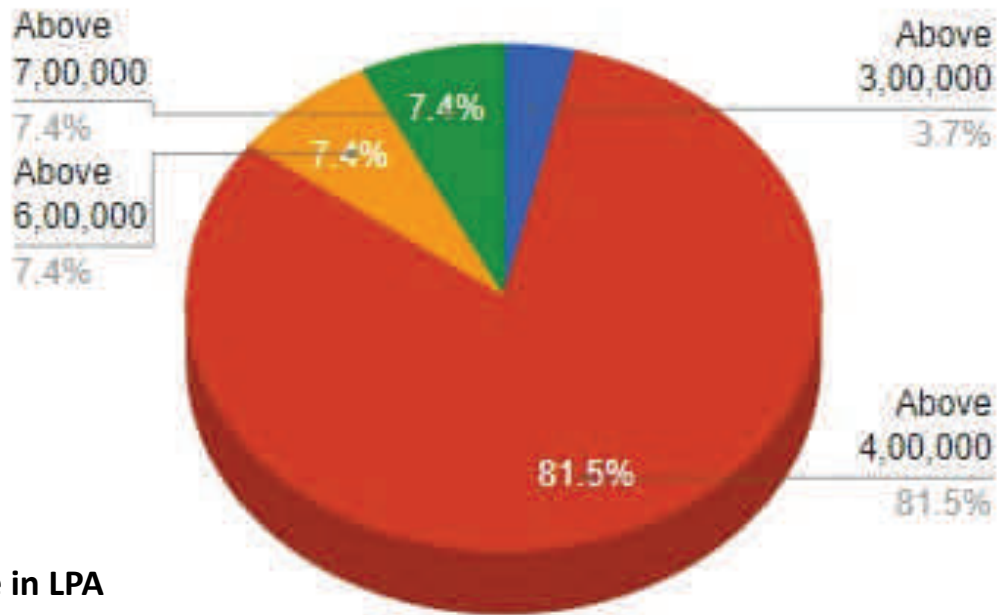
The Civil Engineering department of the college always took a holistic approach and provided students with hands-on experience by organizing field trips to under-construction facilities and seminars by industry experts on a regular basis to help us understand the roles and responsibilities of all levels of personnel in detail, thereby preparing us for the workforce. The professors of the Civil Engineering department gave me invaluable advice and guidance that made me the person I am today. All the experiences and more at Vasavi allowed me to contribute richly to the school's learning environment.

As a woman in an engineering program, I will passionately pursue excellence in civil engineering. Drawing from my experiences in Vasavi, I aim to become an incredible source of inspiration for my peers at school and beyond. Thereby, I hope to inspire many more women like me to pursue their passion in years to come.

-Sruta Gunuganti

B.E Civil Engineering, Class of 2021

# PLACEMENT-2022



Figures are in LPA

## Editorial Team

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*You don't  
money to help  
others.  
You need a  
heart to help  
others*