



# NIRMAAN

- THE NEWSLETTER

DEPARTMENT OF CIVIL  
ENGINEERING



Vasavi College of Engineering

(Autonomous)  
Ibrahimbhag, Hyderabad 500031,  
India

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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."



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## 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.



## Program Specific Outcomes (PSOs):

1. Understand various concepts of basic engineering sciences and mathematics to learn advanced concepts of Civil Engineering and apply them to practical problems.
2. 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.
3. Acquire knowledge of ethical practices, communication skills, technical report writing skills and collaborative effort leading to lifelong learning.



# EDITORIAL BOARD

Dr. B. Sridhar

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*(Professor)*

Sri. M. Bhasker

*(Associate Professor)*

Dr. K. Jayasree

*(Assistant Professor)*

Ms. R. Sowmya

*(Assistant Professor)*

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*(BE CIVIL 3/4)*

M. Nitya Sri

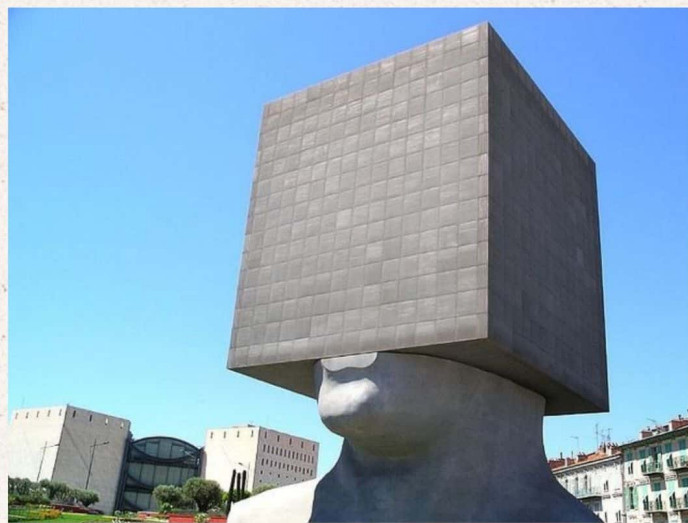
*(BE CIVIL 2/4)*



# La Tete-au-Carre – Nice, France

This strange yet extremely powerful and visually impressive, almost philosophic building is the central library building located in the heart of Nice, France. It is the first ever inhabited sculpture of the world, and it is made entirely of aluminum. Famous sculptor and painter Sacha Sosno together with architects Yves Bayard and Francis Chapuis created it.

The literal translation of the French naming is "Thinking inside the Box" or "Square Head". Within the "head" there are actually 3 floors of the library filled with digital and paper print media and literature. The building is 26 meters high, and it remains one of the most interesting and modern sculpture-buildings of France.



In 1996, the City of Nice launched an architectural competition for the creation of a central library in the Promenade des Arts. Yves Bayard proposes to install the administrative premises of the library in an Inhabited Monumental Sculpture. Inspired by the model of La Tête Carrée by Sosno, the project by architect Yves Bayard associated with Francis Chapuis and with the agreement of the sculptor, won the competition. The building was inaugurated on June 29, 2002. Its night lighting is entrusted to Yann Kersalé .



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

1. Er. P.Surya Prakash Director, Satyavani Projects Khairatabad, Hyderabad delivered a Guest lecture on "Site investigation" to B.E. IV-Sem.Civil Engineering Students on 23 January,2020.
2. Er. P.Surya Prakash Director, Satyavani Projects Khairatabad, Hyderabad delivered a Guest lecture on "Pre- Engineered Buildings" to B.E.VIII-Sem.Civil Engineering Students on 23 January,2020.
3. Dr. C. Mohan Lal Associate Professor, Department of Civil Engineering, VCE delivered a One-week Faculty Development Program (FDP) on "Design of Tall Building Structures" from 27 January,2020 to 31 January,2020.
4. Er. P.Surya Prakash Director, Satyavani Projects Khairatabad, Hyderabad delivered a Guest lecture on "High Rise Buildings" to B.E. IV-Sem.Civil Engineering Students on 13 February,2020.
5. Er. P.Surya Prakash Director, Satyavani Projects Khairatabad, Hyderabad delivered a Guest lecture on "Contract Administration" to B.E. VIII-Sem.Civil Engineering Students on 13 February,2020.
6. Sri. ArunavMukkapati, CEO, M/s. V.S.K. Software delivered a Guest lecture on "Constructions Management" to B.E. VIII-Sem. Civil Engineering Students on 15 February,2020.



7. Er. P.Surya Prakash Director, Satyavani Projects Khairatabad, Hyderabad delivered a Guest lecture on "Design of RCC" to B.E. VI-Sem.Civil Engineering Students on 25 February,2020.

8. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Detailing Steel Structures" to B.E. VII-Sem. Civil Engineering Students on 6 March,2020.

9. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Contract Administration & Project Costing & Appraisal" to B.E. VIII-Sem. Civil Engineering Students on 6 March,2020.

10. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Building Technology" to B.E. IV-Sem. Civil Engineering Students on 02 May,2020.

11. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Design of Steel Structures types of welding codes" to B.E. VI-Sem. Civil Engineering Students on 04 May,2020.

12. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Water Tanks Design" to B.E. VI-Sem. Civil Engineering Students on 08 May,2020.

13. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Building Technology & Green Buildings" to B.E. VI-Sem. Civil Engineering Students on 09 May,2020.



14. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Design of Steel Structures different structures and details" to B.E. VI-Sem. Civil Engineering Students on 11 May,2020.

15. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Building Technology" to B.E. IV-Sem. Civil Engineering Students on 15 May,2020.

16. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Design of Bridges & Theme Based Projects Revision" to B.E. VI-Sem. Civil Engineering Students on 16 May,2020.

17. Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered Guest lecture in online mode on "Project Revision" to B.E. VIII-Sem. Civil Engineering Students on 22 May,2020.

- » **STAFF PARTICIPATION/ACHIEVEMENTS:**

1.Sri.S.Vijaya Kumar, Associate Professor, attended 6th National Conference and presented a technical paper titled "Influence of Nanomaterials on the rheological and strength properties of multi-blended cement concrete (OP-17) organized by Dept. of Physics, Vasavi College of engineering, on 28th December 2019.

2. Sri.S.VijayaKumar,Associate Professor, attended One-week Faculty Development Program (FDP) on "Design of Tall Building Structures" from 27 January,2020 to 31 January,2020 at Department of Civil Engineering, VCE.



3. Dr. T. Srinivas, Associate Professor, CED, attended One-week Faculty Development Program (FDP) on "Design of Tall Building Structures" from 27 January, 2020 to 31 January, 2020 at Department of Civil Engineering, VCE.

4. Sri. S. Vijaya Kumar and Sri. M.V.S.S. Sastri, Associate Professor, conducted presentation Ph.D. progress review in Civil Engineering Department on 07.03.2020. Professor P.N. Rao, BITS, Pilani, and Dr. P. Srinivasa Rao, Professor, JNTUH College of Engineering, Hyderabad are requested to act as subject experts.

5. Sri. S. Vijaya Kumar published a journal titled " Rheological Behaviour Of The Triple Blended Steel Fiber Self-Compacting Concrete" International Journal of Engineering Applied Sciences and Technology, 2020 Vol. 4, Issue 10, ISSN No. 2455-2143, Pages 84-88 Published Online February 2020 in IJEAST.

6. Dr. M.V. Rama Rao Professor, deliver lecture on "Structural Analysis and Design" in a Faculty Development Program, conducted by Telangana Academy of Skill and Knowledge (TASK), Warangal Center at Warangal on 14-03-2020 organised by M/s Smart Infrest, Hyderabad.

7. Dr. C. Mohan Lal, Associate Professor, Department of Civil Engineering of IIT Hyderabad is organizing an Indian Structural steel Conference – an International conference to be held from March 25-27, 2020 in Hyderabad. It is requested to give permission to attend as a delegate in the conference. Participation in the conference may help to identify research proposal, collaborative research with IIT Hyderabad.



8. Sri. S. Kesav Kumar, Assistant Professor, attended TEQIP Online two weeks course on "Digital Transformation In Teaching Learning Process organized by IIT, Bombay from 6th April 2020 to 22nd April 2020.
9. Sri. M.V.S.S.Sastri, Associate Professor, attended a online Short Term Training Programme on Advances in Civil Engineering Field organized by Department of Civil Engineering and Internal Quality Assurance Cell (IQAC) from 1st June to 3rd June 2020.
10. Sri. M.V.S.S.Sastri, Associate Professor, attended a Three Day National Level Online Faculty Development Program on "Rehabilitation and Retrofitting of Structures (R2S)" held from 04-06-2020 to 06-06-2020 organized by Department of Civil Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati.
11. Sri. S. Vijaya Kumar, Associate Professor, attended online "National Level Online Technical Quiz on "Engineering Drawing" conducted by Department of Mechanical Engineering, CBIT College, Hyderabad on 5th June 2020.
12. Dr. K. Jayasree, Assistant Professor, Delivered a Guest Lecture on Two Days National Seminar "Aspects of New Era in Transportation Engineering" on Tuesday 09th June 2020" organized by Dr. D. Y. Patil Institute of Technology (formerly Dr. D.Y.Patil Institute of Engineering and Technology) Sant Tukaram Nagar, Pimpri, Pune-411 018.
13. Sri. M.V.S.S.Sastri, Associate Professor participated participated and completed Five Days Online Faculty Development Programme on "EMERGING TRENDS IN CIVIL ENGINEERING" organized by Department of Civil Engineering A. P. Shah Institute of Technology, Thane from 22nd June to 26th June, 2020.



14. Sri. S. Vijaya Kumar, Associate Professor actively participated and completed Five Day Online Faculty Development Program on "QGIS" from 29th June to 4th July 2020 FDP was organized by Department of Civil Engineering in association with Spoken Tutorial, IIT- Bombay, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India.

### – » OTHER IMPORTANT EVENTS, IF ANY:

1. The entire class is divided into 22 batches. 5 batches are carrying out their project work externally in various organization.
2. Faculty presentation by Mr. J. Chaitanya, Assistant Professor Department of Civil engineering on the topic "Building Technology" took place on 04.01.2020. The expert for the faculty presentations was Dr. R. Satish Kumar, Professor from National Institute of Construction Management and Research (NICMAR), Hyderabad.
3. Faculty presentation by Mrs. N. Niharika, Assistant Professor Department of Civil engineering on the topic "Fluid Mechanics" took place on 03.01.2020. The expert for the faculty presentations was Dr. Shashidhar, Professor and Head, IIT, Hyderabad.
4. The entire class is divided into 22 batches. 5 batches are carrying out their project work externally in various organizations. First Project presentation was completed on 26.02.2020 and 27.02.2020
5. An amount of Rs. 8,580/- has been received from the consultancy work related to the Ballast Testing, during the month of February 2020. conducted a skill development program (Technical Skills) for students of BE (Civil), VI semester from 03.02.2020 to 8.02.2020 I-Spell.



6. Ms. K. Sushma, Roll No 1602-15-732-034 was selected as Trainee Junior Engineer, South central railway.

7. An amount of Rs. 7,080/- has been received from the consultancy work related to the Ballast Testing, during the month of March 2020. Conducted a Career Counseling Program on "Interview process and preparation" will be conducted for BE VI semester students on 05.03.2020 at 10.00AM to 11.15AM in the QEEE Hall

8. An Industrial visit for B.E. 4/4 Civil Engineering Students was planned and arranged on 11.03.2020 on "Pebs Pennar Prefabricated building unit" at Sadashivapet, Sangareddy.

9. An amount of Rs. 21,240/- has been received from the consultancy work related to the Ballast Testing, during the month of June 2020.



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.



## - » STUDENT PROJECTS:

The final year students are made into 22 batches for project work in which 5 batches have carried out their project in external agencies under the guidance of internal teaching staff, and a person of external agency. The remaining batches have completed their project work in the college.

The internal marks are allotted for project work based on their two presentations during the semester in the presence of HOD and Project monitoring committee consists of 2 staff members Dr. M.Srinivas, and Dr. T. Srinivas. The draft copies were submitted by the students in the month of May,2020. It was thoroughly checked by the different faculty members depending on the specialization and Er. P. Surya Prakash, Adjunct Faculty and then approval was given by the HOD to submit the final copy. The entire process is made for the improvement of quality of projects which was appreciated by the External Examiner Dr. K. Jagannadha Rao, Professor, Chaitanya Bharati Institute of Technology, Hyderabad during the online project viva-voce which was scheduled in July,2020.