



VASAVI COLLEGE OF ENGINEERING

(AUTONOMOUS)

IBRAHIMBACH, HYDERABAD-500031,INDIA.

NIRMAAN

-THE NEWSLETTER

DEPARTMENT OF CIVIL ENGINEERING

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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."

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 analyse 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)

P. Sai Venkat

(B.E CIVIL)

1602-17-732-038

B.Gopi

(B.E CIVIL)

1602-17-732-308

V. Thanmayee

(B.E CIVIL)

1602-18-732-056

Konark Sun Temple, Odisha

'Konark Sun Temple' which is also known as the 'Black Pagoda', is a sun temple at Konark, in Orissa. The name 'Konark' is derived from the Sanskrit word 'kona' (meaning corner) and word 'arka' (means sun). The Konark temple is a magnificent structure designed in the form of the grand celestial chariot carrying 'Lord Surya', the Sun God. The temple was built in the thirteenth century by king Narasimhadeva of the Ganga Empire as an tribute to the Sun God.

The stones Laterite, the green Khondalite, and Chlorite were used in the construction of the Konark Sun Temple. These stones were cut, finished, and polished before being joined together. Iron clamps and dowels were used to bind the stones together.

One of the beautifully carved chariot wheels of the Konark Sun Temple has been featured in the rupee ten denomination banknote announced by the Reserve Bank of India in January 2018, depicting India's unparalleled cultural heritage.

The massive structure of the Konark Sun Temple (26.2 acre) represents the glory of the Ganga Dynasty. This structural, architectural and sculptural marvel marks the greatest point of achievement of the Kalinga architecture. Its geometrical patterns and carved wheels used to serve as sun dials. In the year 1984, the Konark Sun Temple was declared as a world heritage by UNESCO.



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

- ❖ Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. Delivered a guest lecture on "Design of Steel Structures" & "Project Discussion" to BE 3/4 & 4/4 Civil Engineering Students on 03 January,2018.
- ❖ An Interaction session on "Preparation for Competitive Exams" was given by Mr. G. Tirupati, Alumnus of 2017 Batch to B.E. 3/4 Civil Engineering students on 19 January,2018.
- ❖ Expert Guest Lecture on "Field Practices in Geotechnical Engineering" was given by Mr. Nafeez Ahamed, Retired Executive Engineer, Irrigation Department, Telangana on 20 January,2018 to BE 3/4 & 4/4 Civil Engineering Students.
- ❖ On 25 January,2018 Mr. Santosh Verma, Founder & CEO of GOIOTRONIX, Bangalore delivered a Guest Lecture on "Entrepreneurship with Innovations" under Institute of Engineers (India) to BE 2/4 Civil Engineering Students.



- ❖ Dr. P. Sreenivasulu, Adjunct Professor, NIT, Warangal (Retired) on 27 January,2018 delivered a Lecture on "Ground Water Hydrology" to BE 4/4 Civil Engineering Students.
- ❖ On 29 January,2018 & 30 January,2018 Chief Guest Dr. S. Satyanarayana FIE, Chairman, IEI, TSC., & Guest of Honour S. Pradeep Redy Managing Director, Third Rock Consultants, Pvt. Ltd. Conducted Two Day State Level Student Seminar on "Recent Advances in Civil Engineering (RACE-2018)" for BE 2/4, 3/4 & 4/4 Civil Engineering Students.
- ❖ Dr. P. Sreenivasulu, Adjunct Professor, NIT, Warangal (Retired) delivered a Lecture on "Ground Water Hydrology" and "Fluid Statics Continuation" on 10 February, 2018 to BE 4/4 & BE 2/4 Civil Engineering Students.
- ❖ Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered a Lecture on "Project Seminar" to BE 4/4 Civil Engineering Students on 16 February, 2018.
- ❖ On 03 March,2018 Dr. P. Sreenivasulu, Adjunct Professor, NIT, Warangal (Retired) delivered a Lecture on "Ground Water Hydrology & Fluid Mechanics Concepts" to 2/4 & 4/4 Civil Engineering Students.
- ❖ On 12 March,2018 a Guest Lecture on "Field Surveying Techniques" under Institute of Engineers (India)" was delivered by Khaja Mudassir, Design Engineer, Druta Designs, Hyderabad to BE 2/4 Civil Engineering students.
- ❖ Prof. P.N. Rao, from National Academy of Construction (NAC), Hyderabad delivered a Guest Lecture on "Innovation in building materials and construction" to BE 2/4 Civil Engineering students on 20 March,2018.
- ❖ Er. G Surender, Retired Executive Engineer, Water and Land management training and research institute (WALAMTARI) delivered a Guest Lecture on

“Irrigation Water Measurement Structures and Devices” to BE 2/4 Civil Engineering students on 23 March,2018.

- ❖ Mr. R. Venkata Shiva, TCE and Mr. Arnav, MSK Consultants and Engineers Pvt Ltd, Hyderabad delivered a guest Lecture on “Career guidance to the students under CRT Programme” to BE 3/4 Civil Engineering students on 28 March,2018.
- ❖ Dr. K. Srinivasa Raju, BITS, Hyderabad delivered a guest Lecture on "Research Orientation and Project” to BE 4/4 Civil Engineering Students on 31 March,2018.



- ❖ Er.Surya Prakash (Adjunct Faculty), Satya Vani, Projects and Consultants Pvt. Ltd. delivered a Lecture on “Water Proofing & Weather Proofing” to BE 2/4 & 3/4 Civil Engineering students on 07 May,2018.
- ❖ Mr. Kishore, Technical Manager, Adroitec, Hyderabad delivered a guest Lecture on ” Math CAD software” to BE 3/4 Civil engineering Students on 14 May,2018.
- ❖ Dr. K. Jayasree, Assistant Professor Sri. M. Jaganaiah, Lab Assistant Sri. M. Ashok Kumar, Lab Attender has Organized a Skill Development Programme on “Transportation Engineering Lab” on 23 May,2018 .
- ❖ Sri. M. Bhasker, Associate Professor, Sri. K. Gopal, Lab Technician Sri. Syed. Mohiuddin, Lab attender has Organized a Skill Development Programme on “Strength of Materials Lab ” on 23 May,2018 .
- ❖ Sri. S. Kesav Kumar, Assistant Professor, Sri. K. Gopal, Lab Technician, Sri. Syed. Mohiuddin, Lab Attender has Organized a Skill Development Programme on “Soil Mechanics Lab ” on 24 May,2018.
- ❖ Dr. G. Shraavan Kumar, Associate Professor, Sri. T. Narender Rao, Lab Tech., Sri. D. Satyanarayana, Lab Attender has Organized a Skill Development Programme on “Fluid Mechanics Lab ” on 24 May,2018.
- ❖ Dr. M. Srinivas, Associate Professor, Sri. D.S.V. Ramana, Lab Tech., Sri. K. Gyneshwar, Lab Attender has Organized a Skill Development Programme on “Environmental Engineering Lab” on 24 May,2018.
- ❖ Sri. K. Venkateshwar Rao, CEO, IDEAL Surveys Pvt. Ltd. has delivered a Guest lecture on “GPS Applications and Demonstration of DGPS” as a part of Surveying Camp to B.E. 2/4 Civil Engineering Students on 18 June,2018.
- ❖ On 22 June,2018 & 29 June,2018 Sri. S.Ramesh, area manager, M/s Lawrence of Mayo has delivered a Guest lecture on “Modern Surveying Tools under Surveying Camp” as a part of Surveying Camp to B.E. 2/4 Civil Engineering Students.

STAFF PARTICIPATION:

- ❖ Dr. B. Sridhar, Professor & HOD and Dr. G. Shravan Kumar, Associate Professor has attended a seminar on "Geospatial World Forum 2018 (NRSC User Meet – 2018)" on 17 January, 2018 at Hyderabad International Convention Centre (HICC) Hyderabad.
- ❖ Dr. B. Sridhar, Professor & HOD and Dr. G. Shravan Kumar, Associate Professor has attended All India Seminar on "Transit Oriented Development in Urban Areas" on 19th -20th January, 2018 at Visvesvaraya Bhavan, Khairatabad, Hyderabad.
- ❖ Dr. G. Shravan Kumar, Associate Professor has attended one day seminar on "Water Scarcity Possible Water Wars in Future" on 21 March,2018 at Institution of Engineers (India), at Khairatabad, Hyderabad.
- ❖ Sri. M.V.S.S.Sastri, Associate Professor has attended Two days faculty Development Program (FDP) on 29 March,2018 & 30 March,2018 at IIT, Hyderabad.
- ❖ Sri. S. Kesav Kumar, Assistant Professor has attended a Four days' Faculty Development Program (FDP) on 29 March,2018 to 01 March,2018 at IIT, Hyderabad.
- ❖ Dr. C. Mohan Lal, Associate Professor has attended one day workshop on "Assessment & Evaluation" on 31 March,2018 at IIT, Hyderabad.
- ❖ Dr. K. Jayasree Assistant Professor has attended one day workshop on "Assessment & Evaluation" on 31 March,2018 at IIT, Hyderabad.
- ❖ Dr. C. Mohan Lal, Associate Professor has attended two days' workshop on "Data Mining & Soft Computing in Civil Engineering" on 13th & 14th April 2018 at BITS Pilani, Hyderabad.

STAFF ACHIEVEMENTS:

- ❖ Dr. M.V. Rama Rao, Professor in Civil Engineering was a resource person for the second phase of Faculty Development Programme for Civil Engineering faculty members organized by Telangana Academy of Skill and Knowledge and M/s Smart Infrest on 30th January,2018.
- ❖ Mr. M. Bhasker, Associate Professor & Dr.B.L.P. Swami, Professor, Department of Civil Engineering, a research paper titled "High Strength Concrete Mixes using Nano Silica Composites" presented at NICEST-18, organized by MGIT, Hyderabad.
- ❖ Mr. S. Vijaya Kumar, Associate Professor & Dr.B.L.P. Swami, Professor, Department of Civil Engineering, a research paper titled "Permeability and Impact Properties of S.C.C. with Miniral Admixtures and Steel Fibre" presented at NICEST-18, organized by MGIT, Hyderabad.
- ❖ Dr.B.L.P. Swami, Professor, Department of Civil Engineering, a research paper titled "Studies on Glass Fibre Reinforced Geo Polymer concretes with Fly Ash and GGBS" presented at NICEST-18, organized by MGIT, Hyderabad.
- ❖ Mr. M. Bhasker, Associate Professor & Dr.B.L.P. Swami, Professor, Department of Civil Engineering, presented a research paper titled "High Strength Concrete Mixes using Nano Silica Composites" at NICEST-18, organized by MGIT, Hyderabad in 16-17 February, 2018.
- ❖ Mr. S. Vijaya Kumar, Associate Professor & Dr.B.L.P. Swami, Professor, Department of Civil Engineering, presented a research paper titled "Permeability and Impact Properties of S.C.C. with Miniral Admixtures and Steel Fibre" will be presented at NICEST-18, organized by MGIT, Hyderabad in 16-17 February, 2018 .
- ❖ Dr. C. Mohan Lal, Associate Professor, presented a technical paper titled "Modeling Design of Rectangular Combined Footings with Artificial Neural

Networks” for the National Conference on Innovations in Civil Engineering through Sustainable Technologies (NICEST’18) to be organized by Dept. of Civil Engineering, Mahatma Gandhi Institute of Technology (MGIT), Hyderabad. The paper has been accepted for the National Conference scheduled during 16th & 17th February 2018.

- ❖ Dr.M.V.Rama Rao, Professor in Civil Engineering delivered a key note address on the topic "Interval Finite Element Analysis of thin plates" at the National Conference on ADVANCED COMPUTING APPLICATIONS IN CIVIL ENGINEERING (ACACE) , 20-21, April, 2018, organized by the Department of Civil Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad.
- ❖ The following staff members attended the examination of NPTEL online certificate courses
 1. Dr. M. Srinivas
 2. Sri. M.V.S.S.Sastri
 3. Sri. S. Vijaya Kumar

Dr. M. Srinivas is the topper of the NPTEL online certificate course on “Earth Sciences for Civil Engineering Part I & II”.

STUDENTS’ ACHIEVEMENTS:

- ❖ Mr. V. Bhanu Prakash Reddy (1602-16-732-008) won the “Merit Student Award” at Vasavi College of Engineering on 26th January, 2018.
- ❖ Mr. Barmavath Sharadha (1602-13-732-304) won the “ First Best Project “ for the Academic year 2016-17 & Arun Kumar Vangapally (1602-13-732-006), Bijjam Pooja (1602-13-732-024) & Sana Unnisa Begum Shaik (1602-13-732-040) won the “ Second Best Project “ for the Academic year 2016-17 at Vasavi College of Engineering on 26th January, 2018.

STUDENTS’ PARTICIPATIONS:

- ❖ The following students are participated one day workshop on “ABC” organized by Smart Infrest, Satyvani Construction, Hyderabad on 06 January,2015

D. Rohith,	:	1602-14-732-036
T. Roshini	:	1602-14-732-037
G. Sachin	:	1602-14-732-039
E. Shirisha	:	1602-14-732-047
Syed Ahemd Azeemuddin Zeeshan	:	1602-14-732-054
- ❖ Mr. P. Yashwanth, BE 2/4 Civil Engineering bearing roll no 1602-16-732-060 has participated Tech Fest at IIT Kharagapur during the period of 17 January,2018 to 23 January,2018.
- ❖ K. Manisha Reddy, BE 3/4 Civil Engineering bearing roll no 1602-15-732-015, and G. Shivaranjith Reddy, BE 3/4, bearing roll no 1602-15-732-044 has participated User Interaction Meet – 2018 (UIM-2018) on 18th January, 2018 organized by NRSC, Hyderabad.

- ❖ 15 students of B.E 2/4 ,11 students of B.E 3/4 and 14 students of B.E 4/4 Civil Engineering department students has attended All India Seminar on “Transit Oriented Development in Urban Areas”, the following students for the same. on 19th – 20th January, 2018 at Visvesvaraya Bhavan, Khairatabad, Hyderabad.
- ❖ Mr. Ch. Bala Shiva Sai, BE 2/4 Civil Engineering bearing roll no 1602-16-732-007 has participated in E-Week Event at Vasavi College of Engineering during the period of 10 February, 2018 to 16 February,2018.
- ❖ 7 students of B.E 2/4 Civil Engineering department students has attended one day seminar on “Water Scarcity Possible Water Wars in Future” on 21 March,2018 Institution of Engineers (India), at Khairatabad, Hyderabad.
- ❖ Mr. D. Rohith, BE 4/4 Civil Engineering bearing roll no 1602-14-732-036 has won a **Harsha Vardhan Podipireddy Memorial “Young Leader Award-2018”**at Vasavi College of Engineering on 17 March,2018.

STUDENT DEVELOPMENT PROGRAMME:

- ❖ As part Professional Practice School 72 students has sent to different companies (My Home Construction, Vertex Corporate,Elite Construction Pvt. Ltd, Geomap Solutions Pvt Ltd, Satyavani Projects and Consultants and Susanji Constructions NCPE Infrastructure Pvt. Ltd) for internship from 18 June,18 to 23 June,2018.
- ❖ As part of Surveying Camp 72 students attended the camp from 25 June,18 to 30 June,2018 at Vasavi college of Engineering.

OTHER IMPORTANT EVENTS, IF ANY

- ❖ Department of Civil Engineering was conducted a campus recruitment training program (CRT) for students of BE 3/4 (Civil), II semester Primavera and Rivet Architecture in collaboration with CADD Centre during the period of 05 February,2018 to 10 February,2018.
- ❖ Alumni meet was arranged on 10 March,2018 by Civil Engineering Department, 16 civil alumni (1995-98 batch) attended the event in the department.
- ❖ Dr. M.V.Rama Rao is nominated as a member of Board of Studies in Civil Engineering at University College of Engineering (Autonomous) Osmania University, Hyderabad.
- ❖ A meeting was conducted on 16 March,2018 in the Civil Department to finalize BE 3/4 (CBCS) Civil Engineering syllabus.
- ❖ Department of Civil Engineering conducted a campus recruitment training program (CRT) for students of BE 3/4 (Civil), II semester Primavera and Rivet Architecture in collaboration with CADD Centre during the period 19 March,2018 - 28 March,2018.

- ❖ For project work, the final year students are made into 21 batches 10 no. of batches are 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 in the college. The internal marks are allotted for project work based of their two presentations during the semester in the presence of HOD and Project monitoring committee consist of 3 staff members Dr. M.Srinivas, Dr. T. Srinivas and Sri. M.V.S.S.Sastri along with Prof. P. Sreenivasulu, Adjunct Faculty. The draft copy was submitted by the students on 13 April,2018. It was thoroughly checked by the different faculty



members depending on the specialization and Er. P. Surya Prakash, Adjunct Faculty and then faculty approval was given by the HOD to submit the final copy. The entire process is made for the improvement of quality of project which was appreciated by the External Examiner Prof. P. Sreenivas Sarma, Chaitanya Bharathi Institute of Technology, Hyderabad.

- ❖ A meeting was conducted on 21 May,2018in the Civil Department to finalize BE 1/4 (CBCS) Civil Engineering syllabus.