

Counselling Code: **VBIT**



VIGNANA BHARATHI[®]
Institute of Technology

(A UGC Autonomous Institution, Approved by AICTE, Accredited by NBA and NAAC-A Grade, Affiliated to JNTUH)

**NEWS
LETTER**

Department of

CIVIL ENGINEERING

STHAPATYA VIGNANAM

Where vision builds the future



2024-25
Edition-1



<https://vbithyd.ac.in/>

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About Institution

VBIT, Sponsored by Swami Vivekananda Educational Trust (SVET) is the place where opportunities are provided for students to realize their ambitions, where new ideas are born, where innovative projects materialize, and where students excel in learning. VBIT Founded in 2004 by highly qualified people, Vignana Bharathi Institute of Technology emerged as a hub for engineering excellence. At VBIT, students will discover engineering in a different light. Students will experience an engineering education that is on par with the industry requirement. The sprawling 17.78-acre campus has state-of-the-art teaching facilities to train students in emerging technologies. The college is located about 18 kms from Uppal on the Warangal Highway.

ACADEMIC LEADERS



Dr. N. Goutham Rao

Chairman - VBIT

Dr N. Goutham Rao, with a Doctorate in Sociology is a man of many laurels. He is a towering intellectual, a thinker and a doer as well. A person to leave no work unfinished, he has successfully completed many projects launched by Osmania University under UGC's special Assistance Programme. A right blend of tradition and modernity is reflected in Dr Rao which only undermines his ability to be accessible to rural and urban students and teachers as well.

Dr. G. Manohar Reddy

Secretary – VBIT

Dr G. Manohar Reddy, who hails from a village in Nalgonda district, is a livewire adding youthful dynamism and vibrancy to Management Committee. Dr. Reddy has a creditable academic record right from his school days. A gold medalist in M.Sc Chemistry in the year 1989, he takes time to teach Chemistry and be with the students.



Dr. PVS Srinivas

Principal – VBIT

Dr. P. V. S. Srinivas, an astute academician and administrator, is the Principal and Professor in the Department of Computer Science Engineering. He has conferred the honor of Ph. D. in Computer Science Engineering from JNTUH, Hyderabad in the year 2009. He obtained his M. Tech in CSE from JNTUH, Hyderabad in 2003 and graduation (AMIE) in ECE from the Institution of Engineers (India) in 1990.

Prof. YVSSSV Prasada Rao

Director – VBIT

Prof. Prasada Rao YVSSSV, Director of the Institution, is a distinguished Senior Professor of Mechanical Engineering and Management Studies with 42 years of experience. He holds a doctorate Degree in Mechanical Engineering and has an outstanding academic record, including a University Gold Medal. He achieved an exceptional 92.80% in his engineering graduation from JNTU College of Engineering Anantapur.



Department of Civil Engineering

Department Vision

To become a reputed department in civil engineering education and technology towards nation building

Department Mission

- Provide quality civil engineering education relating to diverse issues of resources, infrastructure and environment.
- Facilitate active participation in professional and personality development activities for self-confidence and success.
- Promote innovative research and original thinking to be able to face the future challenges.

ACKNOWLEDGEMENT

We express our sincere gratitude to our esteemed Chief Patrons Dr. N. Goutham Rao, chairman-VBIT and Dr. G. Manohar Reddy, Secretary- VBIT, for immense support and guidance.

We would like to acknowledge our Patrons Dr. PVS Srinivas, Principal-VBIT, Dr. YVSSSV Prasad Rao, Director-VBIT, for their invaluable contribution and encouragement throughout the development of this Newsletter.

We extend us acknowledge to our convener Dr. U Ramakrishna, Head of the Department-CE, and Mr. Ch. Vijay Babu, Assistant Professor and InCharge, for their magnificent leadership and dedication which have been pivotal in guiding this project. we extended our sincere gratitude to our team for their dedicated supervision and steadfast assistance in meaning the diverse elements of Newsletter production. we deeply appreciate all our readers for thoroughly exploring every page.

DEPARTMENT OF CIVIL ENGINEERING

VISION

To become a reputed department in civil engineering education and technology towards nation building

MISSION

M-1: Provide quality civil engineering education relating to diverse issues of resources, infrastructure and environment.

M-2: Facilitate active participation in professional and personality development activities for self-confidence and success.

M-3: Promote innovative research and original thinking to be able to face the future challenges.

Program Educational Objectives (PEOs)

PEO-01: Domain Knowledge: Analyze and synthesize any Civil Engineering problem, including design of buildings, roads & irrigation structures.

PEO-02: Professional Employment: Contribute towards the growth of the industry, shine in government and R&D establishments.

PEO-03: Higher Degree: Pursue advanced degrees in civil engineering, construction planning and management using CAD, Revit, Staad. Pro etc.

PEO-04: Engineering Citizenship: Communicate and work effectively on team-based engineering projects with ethical, professional and social responsibility.

PEO-05: Lifelong Learning: Demonstrate professional skills, continued independent learning to succeed in the chosen fields.

Program Specific Outcomes (PSOs)

PSO-01: Achieving proficiency in mathematics and physical sciences will excel in the core areas of civil engineering such as structural, environmental, transportation, water resources engineering etc.

PSO-02: Able to plan, produce detailed drawings, write specification, and prepare cost estimates.

PSO-03: Interact with stakeholders effectively and execute quality construction work applying necessary tools.

PSO-04: Able to conduct experiments in technical areas of civil engineering and analyze and interpret the resulting data

Program Outcomes (POs)

PO-01: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO-02: 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.

PO-03: 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 cultural, societal, and environmental considerations.

PO-04: 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.

PO-05: 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

PO-06: 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.

PO-07: 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.

PO-08: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-09: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO-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.

PO-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.

PO-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

About Department

Welcome to the Civil Engineering Department at VBIT. Our department is offering UG and Master's programme in structural engineering and is committed to fostering innovation, technical excellence, and professional development within the field of civil engineering. With a robust curriculum, cutting-edge laboratories, and a team of experienced faculty, we strive to equip our students with the essential knowledge and skills needed to thrive in their careers. We actively encourage the students and faculty in research, industry collaborations, and extracurricular activities to promote comprehensive development. Together, let us endeavor to construct a future that is sustainable, resilient, and technologically advanced.

Head of the Department



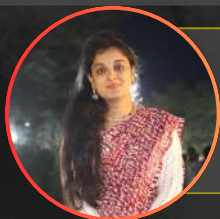
Dr. U. Ramakrishna

Associate Professor & Head,
Civil Engineering Department, VBIT.
GHMC Licensed Structural Engineer, Hyderabad, India
Associate Member, Institution of Engineers India (AM IEI)
Chartered Engineer, India (C.Eng.)

A structural engineering expert with a Ph.D. from BITS-Pilani, Hyderabad, Dr. U. Ramakrishna has 8 years of post-M.Tech. experience in research, teaching, and industry. His research interests focus on earthquake engineering, structural dynamics, vibration control, hazard-resistant structures, and low-cost housing techniques. He has authored 12 journal papers (10 international, 2 national) and 6 conference proceedings (4 international, 2 national). His technical expertise includes developing dynamics laboratories, operating shake tables, and utilizing MTS actuators, alongside proficiency in STAAD Pro, ETABS, SAFE, SAP2000, Abaqus CAE, COMSOL, MATLAB, and SeismoSoft for structural and seismic analysis.

Profiles: Vidwan | Scopus | Google Scholar | ResearchGate | ORCID | LinkedIn

Teaching Faculty



Dr. G. Mounika Reddy
Assoc. Prof.



Dr. G. Bhogayya Naidu
Assoc. Prof.



Mrs. D. Lakshmi Lavanya
Asst. Prof.



Mrs. C. Mounika
Asst. Prof.



Mrs. Mounika Meduri
Asst. Prof.



Mr. G. Naresh Kumar Reddy
Asst. Prof.



Mr. CH. Vijay Babu
Asst. Prof.



Mrs. M. Priyanka
Asst. Prof.



Mr. CH. Kranthi Kumar
Asst. Prof.



Mrs. R. Sharanya
Asst. Prof.



Mr. S. Mahesh
Asst. Prof.



Mrs. S. Priyanka
Asst. Prof.

Non - Teaching Faculty



Mr. Hitesh Tiwari
Lab. Asst.



Mr. N. Chandhu
Lab. Asst.



Ms. A Roja Rani
Lab. Asst



Ms. Chaitanya
Office Asst

Faculty Publications

Journal Publication

Dr. U. Ramakrishna

Assoc. Prof.

Shake-table testing of two adjacent similar building frames connected with optimal viscoelastic dampers was published on September 2024 in Innovative infrastructure Solution. volume-9, issue-10

Dr. G. Mounika Reddy

Assoc. Prof.

- An experimental investigation on the mechanical characteristics of Steel Fibre Reinforced Alkali Activated Concrete incorporating industrial and agro wastes was published on April 2024 in Innovative Infrastructure Solutions, SCI Journal, Volume 9, Issue 5,
- Properties of alkali activated cellular lightweight binder blocks with industrial and agro waste was published on December 2024, in Discover Applied Sciences SCI Journal, Volume 7, Issue 1,.

Conference Publication

Dr. G. Mounika Reddy

Assoc. Prof.

- Assessment of Mechanical Properties of Concrete with Substitution of River Sand by Robo Sand and Incorporation of Glass Powder was presented in conference publication on June 6th - 7th, 2024, in International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2024), Scopus Journal.
- Novel Mechanical Strength Prediction Models of Fibre Reinforced Concrete Using Statistical Analysis was presented in conference publication on June 6th - 7th, 2024, in International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2024), Scopus Journal.

Mrs. C. Mounika

Asst. Prof.

- Experimental investigation on strength characteristics of autoclave aerated concrete block using natural pozzolanas was presented in conference publication on February 23rd - 25th, 2024, in 1st International conference on Multidisciplinary Research and Sustainable Development - 2024, WoS.

Faculty Publications

Mr. G. Naresh Kumar Reddy
Asst. Prof.

- Adsorption Studies of Hexavalent Chromium removal from aqueous solution using Helianthus Annuus was presented in conference publication on February 02nd - 3rd, 2024, in International Conference on Materials Innovation and Sustainable Infrastructure (ICMISI 2024), Scopus.

Mr. Ch. Vijay Babu
Asst. Prof.

- Reviewing the potential of wastepaper incorporation in enhancing concrete sustainability was presented in conference publication on February 02nd - 3rd, 2024, in International Conference on Materials Innovation and Sustainable Infrastructure (ICMISI 2024), Scopus.

Mrs. M. Priyanka
Asst. Prof.

- Evaluation of Mechanical Characteristics of concrete incorporating Fly Ash and Rice Husk Ash as sustainable alternatives was presented in conference publications on June 6th - 7th, 2024 in International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2024), Scopus.

Patents

Mrs. D. Lakshmi Lavanya
Asst. Prof.

- Ankit, et al. (2024). Efficient water management system for sustainable urban development (Indian Patent No. 202441068431). Indian Patent Office.

INDUSTRIAL VISITS

Site Visit on R.C Slab, at VBIT

Dr. U Ramakrishna, Assoc. Prof. & HoD, of civil engineering department, was conducted a site visit on RC Slab site at Annojiguda, Hyderabad on 12th NOV 2024 from 10.00am to 1.00 pm. for 3rd year students. the Aim of this site visit was provided students with valuable insights into the practical aspects of reinforced slab construction. Observing real-world applications of theoretical concepts enhanced their understanding and appreciation of construction methodologies



NAC Industrial Visit

Dr. G. Bhogayya Naidu, Assoc.Prof & Mrs. C. Mounika, Asst.Prof was conducted an industrial visit at National Academy of Construction (NAC) at Gachibowli for 2nd year student on 16th November 2024 from 10.00am to 3.00 pm. The visit to NAC Gachibowli provided valuable knowledge on construction methodologies, industry advancements, and the importance of skilled labour in infrastructure development. It was an enriching experience for students and professionals.



KNR Infra Projects, RMC

On 4th March 2025, the Civil Engineering Department organized an industrial visit to KNR Infra Projects, Ready Mix Concrete (RMC) plant located at Keesara, for the 2nd-year students. This visit was initiated by Dr. G. Mounika, the faculty member handling the Concrete Technology subject, with the objective of providing students with hands-on experience and exposure to the latest technologies and practices in the construction industry. The visit aimed to bridge the gap between theoretical knowledge and practical implementation, and to familiarize students with the production process of RMC, its applications, and quality control measures



One Day Workshop on DGPS

G. Bhogayya Naidu conducted a one-day workshop on "Advanced Surveying Using DGPS" on June 5, 2024, at VBIT campus, from 10:00 am to 4:00 pm. The workshop aimed to enhance participants' knowledge and practical skills in high-precision surveying. Mr. Arun Balla, an Application Engineer from Apt Survey Solutions, provided insights into DGPS principles, applications, and hands-on training with modern equipment. The event targeted civil engineering students at VBIT interested in advanced geospatial technologies.



GUEST LECTURES



Guest lecture on Emerging Technologies in Civil Engineering”

The Department of Civil Engineering hosted a guest lecture on "Emerging Technologies in Civil Engineering" on November 14, 2024, at Ak-002 from 10:00 AM to 12:00 PM. This event aimed to familiarize students and professionals with the latest advancements that are transforming the field. The lecture provided valuable insights into how technology is revolutionizing design, construction, and maintenance practices within civil engineering.

The guest speaker Sri Ravi Kumar was inspired students by introducing a variety of innovative technologies relevant to civil engineering. Key topics covered during the lecture included:

- Sustainable Construction Materials
- Drone Technology in Construction
- Building information modelling (BIM) ect.

Guest Lecture on Empowering Civil Engineers: Career Guidance & Career Opportunities in Civil

Mr. Ch Vijay Babu, Asst. Prof. was conducted a guest lecture on career guidance and career opportunities in Civil Engineering field, on 29th January 2025, at Aakash Block AK-002 for all Civil students from 10.30.am to 1.00 pm

The speaker Mr. Mogul K. Bhaig, Project Management Professional, C2C – Delivered a talk on traditional and emerging career opportunities in civil engineering, including construction management, structural engineering, and geotechnical engineering

The primary objectives of the seminar were:

- To educate students about the diverse career paths in civil engineering.
- To provide guidance on higher studies and industry requirements.
- To introduce emerging trends and advancements in the field.
- To facilitate interaction with industry experts and professionals



Guest Lecture on Road Safety Engineering

Department of Civil Engineering conducted a guest lecture on ITS (INTELLIGENT TRANSPORT Systems and traffic management systems under presence of Mrs. D Lakshi Lavanya on 16th November 2024 at AK-002 From 10. am to 12.30 pm. The guest lecture related to road safety engineering a professional elective for IV year students. The guest, Mr. G. Karthik, principal traffic engineer explains the importance of ITS in present road traffic conditions. He explained the present situation and the control of traffic and various management systems involved. He correlates the road safety by showing the live examples. He demonstrated some management system and the improvements occurred in past 5 years



FDPs & WORKSHOPS

3 Day Faculty Development Programme on Building Information modelling (BIM) using Revit Architecture”

The department of civil Engineering was hosted faculty development programme on 3 Day Faculty Development Programme (FDP) on Building Information modelling (BIM) using Revit Architecture” from 22 June to 24 June 2024. The Faculty Development Programme (FDP) on Building Information Modelling (BIM) using Revit Architecture was a three-day training session aimed at equipping faculty members with in-depth knowledge and hands-on experience in BIM technology. The program focused on Revit Architecture, a leading BIM tool, and covered fundamental and advanced topics to enhance teaching methodologies and research capabilities.



Mini Project Poster Presentation

The Department of Civil Engineering organized a poster presentation on 7th DEC 2024, aimed at encouraging students to showcase their creativity, research skills, and innovative thinking. The event provided a platform for students to present Mini Project work visually and engage with peers, faculty, and Internal experts.



The primary goal of the event was to enhance students' ability to communicate complex ideas effectively and visually. It also encouraged teamwork, critical thinking, and innovation, fostering a culture of research and learning within the institution.

FDPs & WORKSHOPS

Road Traffic Safety Awareness Programme

The Traffic Safety Awareness Program was conducted at Vignana Bharathi Institute of Technology on 31st JAN 2025 to educate students and Drivers about the importance of road safety, Traffic Rules and responsible driving. The event was organized by the Department of Civil Engineering in collaboration with IGBC Student Chapter Team.

The primary objectives of the program were:

- To Create Awareness about Traffic rules and Regulations.
- To Promote responsible driving behavior among students & Drivers.
- To educate students & Drivers about the consequences of traffic violations.
- To encourage adherence to road safety measures such as wearing helmets and seatbelts.



ABHIYANTA-2K25: Innovating the future with CAD



The department of civil engineering was organised A one day workshop Abhiyanta-2K25: innovating the future with CAD on 12th March 2025 at Nirmithi -203 from 10.00am to 4.30 pm. the workshop provided participants with fundamental knowledge and practical skills in CAD software. The session aimed to familiarize students with essential drafting and modelling techniques used in engineering and architectural design

The workshop included **interactive demonstrations** and **practical exercises**, ensuring participants gained hands-on experience in **creating accurate digital drawings**. in the competetion the experts pic the top 3 contents and present to them prize money.

STUDENT ACHIEVEMENTS



Ms. Bottu Joy Persis daughter of Vijay Raj, was selected as an **Assistant Engineer** in the Irrigation Department of the Telangana government in the year 2025.

Ms. Ranabothu Anusha, daughter of Narender Reddy, was selected as a Constable in the Indo-Tibetan Border Police (ITBP) under the central government, having successfully passed the SSC GD examination at the national level in 2025.



We are proud to announce that our civil engineering students participated in the Canoe Competition at BVRIT College, Narasapur-TS, winning third prize. Their dedication and teamwork were commendable as they competed against talented teams from various institutions. Congratulations to all participants, and we look forward to future achievements!

We are delighted to acknowledge the outstanding performance of our student, **Hachu Madhavi**, who has actively participated in multiple **Kabaddi** tournaments at various locations, representing VBIT College with great enthusiasm and dedication



We are pleased to recognize the exceptional performance of our student, **R. Anusha**, a fourth-year participant who has actively engaged in numerous KHO-KHO tournaments across various locations. She has represented VBIT College with remarkable enthusiasm and dedication.

We are delighted to acknowledge the outstanding performance of our student, **Sandeep** from third year, who has act as Team leader for JNTUH- Kabaddi team. And he is actively participated in multiple Kabaddi tournaments at various locations (Jbit, Mlrir, Mvsr, Pallavi, Geethanjali, Hitam) under JNTUH, by representing VBIT College and win many prizes with great enthusiasm and dedication.



We are delighted to acknowledge the outstanding performance of our student, **Siva Raj** from third year, who has act as Player & Team leader for JNTUH- Vally Ball team. And he is actively participated in multiple Vally Ball tournaments at various locations under JNTUH, by representing VBIT College and win many prizes with great enthusiasm and dedication.

Branch Association



Mr. Ch. Vijay Babu
Assistant Professor
Faculty Coordinator



D. Siddhartha
Lead
22P65A0104



Md. Nazeemunnisa
Co-Lead
22P65A0111



P.Sai Teja
Designer-1
21P65A0113



V.Yashwanth
Designer-2
21P61A0120



A. Sahethi
Documentation
Coordinator
21P61A0101



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Department of
CIVIL ENGINEERING
Vignana Bharathi Institute of Technology