



CIVIL NEXUS

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY, THRISSUR
DEPARTMENT OF CIVIL ENGINEERING

2024-2025

MAY-AUGUST 2024



OUR VIDYA OUR PRIDE



Vision

Progress through quality education by keeping pace with new challenges in the field of Civil Engineering.

Mission

- M1: To provide an academic environment for the students for developing as capable professionals by empowering them with knowledge, skills, moral values and confidence.
- M2: To prepare the students to become global leaders of tomorrow by promoting team work practices and inculcating communication and managerial skills.
- M3: To equip the students to accept new challenges by ensuring effective teaching and learning processes; involving them in research, consultancy and development activities; and providing them with exposure to the state of the art infrastructure.

Program Educational Objectives (PEOs)

PEO-1: Graduates will apply core knowledge and technical skills to solve professional problems, demonstrating competence and upholding ethical and moral standards.

PEO-2: Graduates will perform effectively in diverse global environments, demonstrating strong communication, teamwork, and managerial skills to lead and contribute responsibly to society.

PEO-3: Graduates will be prepared to face new challenges through effective learning, participation in research and development, and exposure to state-of-the-art infrastructure, enabling them to become competent and industry-ready professionals.

Program Specific Outcomes (PSOs)

PSO-I: Engineering Knowledge: Achieve excellence in the areas of planning, analysis and designs related to all divisions of Civil Engineering with proper management and construction techniques.

PSO-II: Expertise in Multidisciplinary Environment Achieve effective communication skills to work in a team as a member or as a leader in diverse professional environments.

PSO-III: Responsibility: Achieve eminence in finding solutions to complex Civil Engineering problems through self-learning and research within certain realistic constraints such as global, economic, environmental, societal, safety, and sustainability context.

Program Outcomes (POs)

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and Civil Engineering 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. 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.
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.

ACADEMIC ACTIVITIES

STUDENT ACHIEVEMENTS

Placement for 2020-24 batch students in Civil Eng. design companies



DOME Design and Group Companies are Thrissur based civil engineering design and consultancy service providers. Their primary job is into rebar detailing and associated design work using the latest and modern CAD tools. After their recent recruitment drive for the 2024 graduating batch, seven final year Civil Engineering students have been placed with the company.

CE alumna enrolls joint PhD at IIT Delhi, in collaboration with the University of Queensland, Australia



Vidya alumna passed grueling test of knowledge to a full-fledged doctoral candidate. It is with great pride, the Dept of CE is sharing the news that Ms. Nanditha Varma (2016 - 2020 B Tech, CE Dept) enrolled for joint PhD program in Geotechnical Engineering at IIT Delhi, in collaboration with the University of Queensland, Australia.

CE alumnus admits to PhD program in Construction Materials at IIT Bombay



Vidya student's dedication, hard work, and resilience have brought many milestones in their academic journey. It is with great pleasure, the Dept of CE is sharing the news that Mr. Vivek V S (2018 - 2020 M.Tech, CE Dept) admitted to PhD program in Construction Materials at IIT Bombay.

CE alumna gets admission to the Post Graduate Programme in Management (2024-2026) at IIM Kozhikode



Vidya student's dedication, hard work, and resilience have brought many milestones in their academic journey. It is with great pleasure, the Dept of Civil Engineering shares the news that Ms. Rahna K. Rajeev (2019 - 2023 Batch, CE Dept) has been admitted to the Post Graduate Programme in Management (2024 - 2026) at the Indian Institute of Management Kozhikode. She achieved an Overall Scaled Score of 60.50 and an Overall Percentile of 96.62 in the Common Admission Test 2023 (CAT 2023).

CE students clear NPTEL Examination



Vidya students attain additional knowledge apart from their regular core syllabus. It is with much pride, the Dept of CE is sharing the news that, Sreeranjini Sreekumar (S8, CE Dept) cleared NPTEL examination of the course 'Power quality improvement technique' conducted by IIT Roorkee.



Vidya supports continuous learning and encourages students to attend online courses. It is with much contentment, the Dept of CE is sharing the news that Sreya Sunil Kumar K. (S4, CE Dept) cleared NPTEL examination of the course 'Advanced Foundation Engineering'.



It is with much pleasure, the Dept of CE is sharing the news that Jisni P.J. (S4, CE Dept) cleared NPTEL examination of the course 'Advanced Foundation Engineering'.



Vidya students make every effort to attend online courses and get the values certificates. It is with much pleasure, the Dept of CE is sharing the news that Athira Anandan P. (S4, CE Dept) cleared NPTEL examination of the course 'Advanced Foundation Engineering'. National Programme on Technology Enhanced Learning (NPTEL)



It is with much honor, the Dept of CE is sharing the news that, Fijo M.J. (S8, CE Dept) cleared NPTEL examination of the course 'Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems' conducted by IIT Guwahati .

FACULTY ACHIEVEMENTS

CE HoD Dr Abhilasha P.S. serves as reviewer in three day International Conference on Structural Engineering and Construction Management (SECON'24)



Conference reviewers play a key role in the academic and professional world. They meticulously assess the submissions for conferences, ensuring the quality and relevance of each paper or presentation. Their expertise in specific fields enables them to provide critical feedback to authors.

Dr Abhilasha P.S. (Prof. & HoD, CE Dept) served as a reviewer at International Conference on Structural Engineering and Construction Management (SECON'24) held at Federal Institute of Science and Technology (FISAT), Angamaly, Ernakulam during 05-07 June 2024

CE faculty member's Research Project selected for funding under Research Seed Money (RSM) scheme of APJAKTU



Funded research projects bring an opportunity for learning and using the expertise of faculty members in different domains. It also gives an opportunity to research scholars to work with their professors on research problems. Department of Civil Engineering is proud to announce the achievement of Ms. Chithira Ajeeth (Asst. Prof, CE Dept) who is an ongoing research scholar at GEC Thrissur, in the domain Water

Resource Engineering. Her work on salt water intrusion dynamics in coastal aquifers and it's mitigation got Financial assistance for an amount is Rs.1,42,500/- under APJAKTU – CERD – Research Seed Money Scheme. (RSM is funding for faculty in Engineering Colleges).

CE HoD completes Skill Dzire and AICTE Certification Program



Dr Abhilasha P.S. (Prof. & HoD, CE Dept) successfully completed the Skill Dzire & AICTE Certification Program in HR Management meant for industry exposure. The course had a duration spanning from June 03 to 30 June 2024.

PAPER PUBLICATIONS

CE Faculty member and students publish paper in International Research Journal of Engineering and Technology (IRJET)



Krishna Bhadran P S



Nandan K V



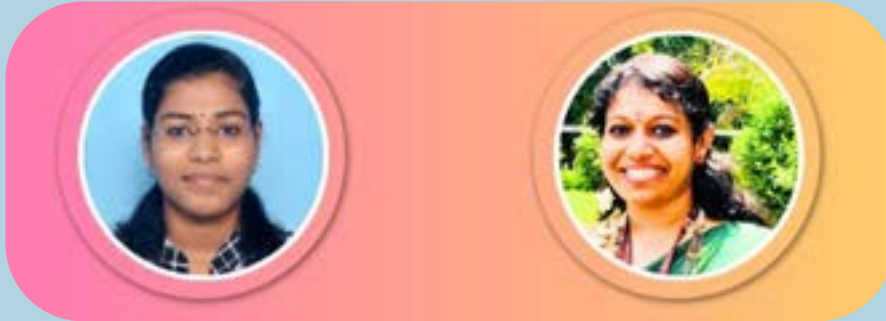
Sreeranjini Sreekumar



Seetha Pisharikkel

It is with much honor and pride, the Dept of CE is sharing the news that, S8 civil students published a paper in International Research Journal. The technical paper authored by Krishna Bhadran P.S. (S8, CE Dept), Nandan K.V. (S8, CE Dept) and Sreeranjini Sreekumar (S8, CE Dept) has been published in the International Research Journal of Engineering and Technology (IRJET), Volume 11, Issue 05, May 2024. The paper is available at <https://www.irjet.net/volume11-issue05> The study explored the effects of graphene oxide on concrete properties. Investigating compressive strength, tensile strength, and permeability with an aims to boost sustainability, durability, cost effectiveness, and in construction. The paper was the outcome of their final year project under the guidance of Ms. Seetha Pisharikkel (Asst Prof, CE Dept).

CE HoD and student publish paper in International Journal of Creative Research Thoughts



Vidya students make commendable efforts to gain knowledge and a deep understanding of their respective fields. The technical paper authored by Alphy Anto (S8, CE Dept) under the guidance of Dr Abhilasha P.S. (Prof. & HoD, CE Dept) has been published in the International Journal of Creative Research Thoughts (IJCRT), Volume 12, Issue 04, April 2024. In this paper, the performance of bamboo-reinforced concrete and its durability are discussed. Bond strength, Shear strength, Water absorption, Durability, Flexural strength, Elastic modulus, toughness, and Impact resistance of bamboo-reinforced concrete are also studied in this paper.

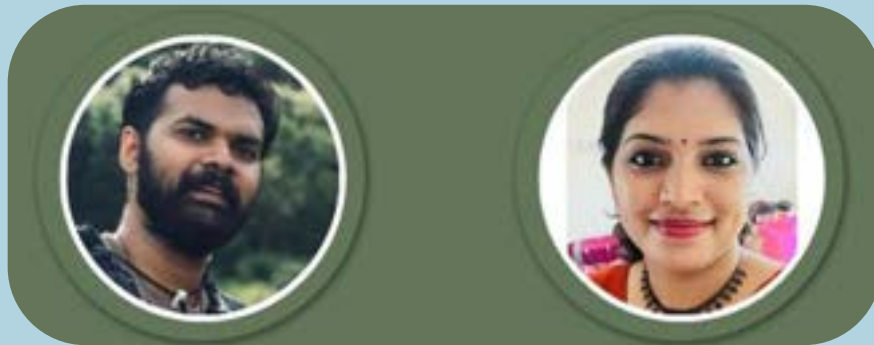
CE faculty member and M Tech student present paper in International Conference on Structural Engineering and Construction Management (SECON'24)



It is with great sense of pride, the Dept of CE share the news that, Muhammed Suhail A.S. (M.Tech, Structural Engineering) under the guidance of Mr. Kiran Babu A.R. (Asst Prof, CE Dept) presented a paper in International Conference on Structural Engineering and

Construction Management (SECON'24) and the same has been selected for publication in 'Lecture Notes in Civil Engineering', a Scopus Indexed book series published by Springer Nature.

CE PG student paper publishes in International Research Journal of Engineering and Technology (IRJET)



It sounds like the student of the CE Department are excelling in their endeavors, showcasing not only their academic prowess but also their ability to effectively communicate and present their work. Such achievements undoubtedly bring pride and recognition to the department. Celebrating the accomplishments of students is essential for fostering a supportive and encouraging academic environment. A technical paper titled 'Structural Performance of Vertical Energy Dissipator on Braced Special Moment Resisting Frame' authored by Anix Samuel N. (M.Tech Student, CE Dept) and Ms. Ardra P. Nair (Asst Prof, CE Dept) has been published in International Research Journal of Engineering and Technology (IRJET) Volume 11, Issue 07, July 2024. The paper was the outcome of M.Tech final year project with the guidance of Ms. Ardra P. Nair.

DEPARTMENT ACTIVITIES

CE Dept conducts session on 'Building Beyond Earth – Constructing the Future Space':

The Dept of Civil Engineering has been conducting numerous workshops and sessions to inspire and train the students. With an aim to educate the students about the future of space construction, an online session on 'Building Beyond Earth – Constructing the Future Space' was conducted by CE Dept 06 May 2024. The program was commenced with a welcome address by Mr. Kiran Babu A.R. (Asst Prof, CE Dept). Mr. Renjith R. (Asst Prof, CE Dept) served as the recourse person. Mr. Renjith provided valuable insights into the challenges and opportunities of building structures beyond Earth. Participants engaged in interactive discussions. The session was successful, with active participation from the students. Feedback was provided by the participants, indicating positive engagement and interest in the topic.

CE Dept observes World Environment Day as a powerful tool for fostering environmental awareness



The observance of Environmental Day by educational institutions is a powerful tool for fostering environmental awareness and encouraging sustainable practices within the student community. It helps to build a culture of

responsibility and can lead to significant positive impacts among the future citizens. With this esteem goal, Dept of Civil Engineering celebrated world environmental day on 05 June 2024. First year students together with staff members of civil department planted saplings in Vidya Campus. Housekeeping and security personal staff members shared their happiness by participating in this commendable activity that gave importance of keeping the environment clean as well as saving. The saplings were also distributed to students who appeared the Kerala Engineering, Architecture, and Medical Entrance Exam (KEAM 2024) in the college campus.

CE Dept organizes farewell program 'Khudha Hafiz'



The Dept of CE conducted farewell programme for the final year (2020-24 batch) students on 04 May 2024. The programme was inaugurated by Dr Abhilasha P.S. (Prof. & HoD, CE Dept) which was followed by cake cutting. Bhavana (S6, CE Dept) delivered the welcome speech. All the teachers shared their memories about the 2020-24 batch students. Various cultural activities were conducted by the students. Exciting games and competitions were also conducted. Students shared their experiences and memories with everyone. A video for S8 students was also played along with the photo session. The programme came to an end with a vote of thanks by Neeraj P. Sunil (S6, CE Dept) .

National Conference ‘REACT 2024’ started with the paper presentation of enthusiastic participants

Organizing a National Conference with a structured framework itself is a huge task. But the honest effort in organizing two-day National Conference ‘REACT’ in the 8th year has given an important milestone to Civil Engineering Dept. Recently innovations in Civil Engineering have progressed at an accelerated pace. To present innovations and contribution to Civil Engineering & Technology, for researchers in various specializations in Civil Engineering, Vidya proudly hoists the eighth edition of National Conference on Recent Advances in Civil Engineering & Technology ‘ REACT 2024’ during 19 – 20 June 2024.

CE Dept organizes National Conference REACT 2024 : Edition 8



The eighth National Conference on Recent Advances in Civil Engineering & Technology (REACT 2024) was organized by the Civil Engineering Department on 19–20 June 2024. The conference aimed to showcase innovations and contributions in civil engineering and brought together experienced professionals and researchers in

the field. The inaugural session began with a prayer, followed by a welcome address by Dr Abhilasha P.S. (Convener and HoD, CE Dept). Dr Sunitha C. (Principal) delivered the presidential address, highlighting the importance of staying updated with modern tools and trends. The conference was inaugurated by Chief Guest Prof. V.A. Sudhakaran, who emphasized that emerging technologies should enhance public comfort. Ms. Nirmala Krishnan (Coordinator) presented an overview, and the session concluded with a vote of thanks by Mr. Prince Kesav.

The event featured research paper presentations from participants across various institutions, organized into five technical sessions chaired by expert faculty members.

The conference concluded with a valedictory function on 20 June 2024, marking two days of insightful discussions and knowledge sharing. REACT 2024 successfully fostered collaboration among academicians, researchers, and professionals, highlighting recent advancements in civil engineering.

The event was effectively organized by Dr Abhilasha P.S. (Convener), Ms. Nirmala Krishnan (Coordinator), and Ms. Nisha Varghese (Co-coordinator).

CE Dept conducts 'Alumni Interaction Series'



The department of CE has been conducting a variety of programs and sessions to improve the skills of the students. An alumni session was conducted on 16 August 2024, featuring former student Ms. Aieswarya V.M. (2016-20 B.Tech Batch). She is currently working as a Business Analyst in Banfico. She was given a warm welcome by Ms. Nirmala Krishnan, (Asst Prof, CE Dept) who was her tutor. She took this platform to share her experience of B.Tech life at Vidya and her journey ahead. In spite of getting admission at NICMAR University, Pune, unfortunately she could not continue her PG there. She later pursued MBA from Amrita University. She mentioned how her teachers at Vidya inspired her to take MBA which was different from her B.Tech career. She emphasized and encouraged us to continue studying and choose our field of interest for PG. The event was organized by the Civil Department Association of Vidya Academy of Science and Technology.

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