



CIVIL NEXUS

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

2023-2024

MAY-AUG 2023



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: Our graduates will apply fundamental technical knowledge and skills to find creative solutions to technological challenges and problems in various areas of basic sciences and civil engineering and contribute to society and nation when solving engineering problems and producing reliable solutions.

PEO-2: Our graduates will contribute to the professional practice of their chosen field through effective communication, leadership, team work and service while exhibiting high ethical and professional standards in fulfilling their responsibilities to both employers and society.

PEO-3: Our graduates will continue lifelong learning through professional activities and training and take up higher education, engage in research and development in civil engineering and allied areas of science and technology.

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

CE students clear NPTEL Examination



Vidya continues to encourage students to enhance their industry readiness by participating in nationwide NPTEL certification courses. Adding to this achievement, Amalkrishna K.J. (S6, CE Dept) successfully cleared the NPTEL course 'Deep Learning,' while Saya Surendran (S6, CE Dept) qualified in the NPTEL course 'Expansive Soil.' These accomplishments reflect the department's commitment to promoting technical knowledge, skill development, and career-oriented learning, preparing students for both industry opportunities and higher education.



Anna Zam Kottayil



Aline Rose Austin

Vidya students endeavour their best to attain employability skills by attending several courses beyond their standard curriculum. It is with much delight, the Dept of CE is sharing the news that, Anna Zam Kottayil (S6, CE Dept) and Aline Rose Austin (S6, CE Dept) successfully completed the course titled 'Geomorphology' organised by IIT Roorkee on NPTEL domain. Hearty appreciations to Ms. Anna and Ms. Aline !!!



Vidya encourages life long learning and motivates students for attending several online courses in national level. It is with much pleasure, the Dept of CE is sharing the news that, S6 students Sneha T., Asha K.A., Harsha M.J., Sreejith S., Sreenandana Shaly and Fijo cleared NPTEL examination of the course ‘Advanced Foundation Engineering’.

National Programme on Technology Enhanced Learning (NPTEL)

National Programme on Technology Enhanced Learning (NPTEL) is a quality Indian learning platform for university- level Science, Technology, Engineering, and Mathematics (STEM) subjects. It is jointly developed by Indian Institutes of Technology and Indian Institute of Science It operates one of the most extensive educational Youtube channel covering engineering, basic sciences, and some humanities and social science subjects.

STUDENT ACTIVITIES

M.Tech students arrange farewell to their seniors with abundant energy and enthusiasm



Farewell spots the vital mode to convey admiration and adore towards seniors. Each stage of the academic life, the seniors depart their places for juniors.

Farewell event for M.Tech structural engineering batch 2021-23 on 19 July 2023, from 1:00 PM to 4:15 PM, the faculty of Civil Engineering department It was organized as a sign of appreciation for the hard work put in by the students over the past two years and to wish them success in their future endeavors. The farewell function began with a warm welcome to the students and teachers anchored by Prince Kesav (S2 M.Tech, SE) and Sandra Devy Wadakkan (S2 M.Tech, SE). This was followed by an introduction which set the tone for the rest of the event. Dr C. Justine Jose (Prof. & HoD, CE Dept) gave a speech, thanking the students for their hard work and dedication during their time at the college. After the speech, Ayoob performed a guitar act, which was enjoyed by all. The group tutors of batch 2021-23 structural engineering shared their memories and thanking the students for their hard work and departmental assistance during their time at college.

The faculty members then shared their memories of the students, which was followed by various game activities, including communication games and other funny tasks. The students were also given the opportunity to share their memories. This was followed by a dance performance by the students, which was met with enthusiastic applause. The event concluded with a vote of thanks.

PAPER PUBLICATIONS

CE students paper to appear in Proceedings of International Conference



The commendable performance of the students of CE Dept rightly depicted their keen eye and good presentation skills have made the Dept proud. A technical paper titled “Biochar amendment of landfill clay liner soil and leachate” and authored by Aparna P.S. (S8, CE Dept), Arunima K.M. (S8, CE Dept) and Devika M.V. (S8, CE Dept) has been accepted for publication in the Proceedings of the International Conference on Innovative Trends in Engineering for Sustainability (ICITES-2023). The authors had earlier presented the paper in the Conference in ICITES 2023 on 12 April 2023, which was organised by ToCH Engineering college, Arakkunnam, Ernakulam. The paper was the outcome of their final year project with the guidance of Ms. Seetha Pisharikkel (Asst Prof, CE Dept).

DEPARTMENT ACTIVITIES

CE Dept celebrates World Environment Day by planting saplings



Stressing on the necessitate for giving more importance to environmental preservation, the Dept of CE celebrated the World Environment Day (Wednesday) by planting saplings in and around the College on 05 June 2023. The saplings of different species of eco-friendly trees have been planted to make the campus much greener. The CE students from B.Tech and M.Tech courses actively participated in the activities. Dr C. Justine Jose (Prof. & HoD, CE Dept) inaugurated the program by planting a sapling. The activity was conducted under the leadership of Ms. Nisha Varghese (Asst Prof, CE Dept) and Mr. Kiran Babu A.R.(Asst Prof, CE Dept).

CE students bid farewell to their seniors with infinite energy and zeal



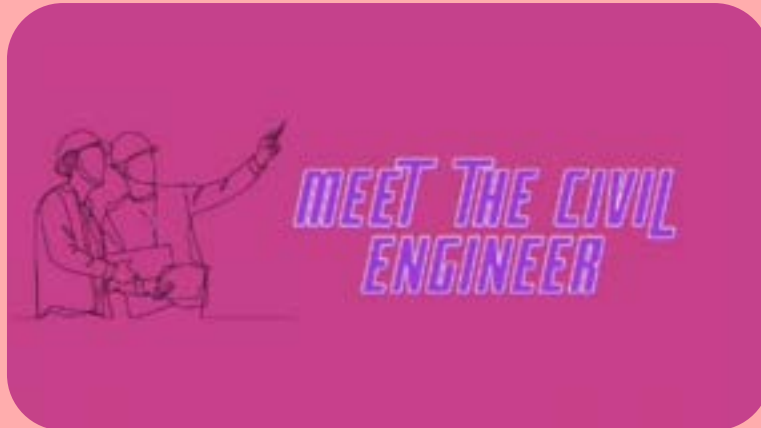
Farewell is the supreme way to express gratefulness and love towards seniors. In broad, every stage of the academic life, the seniors leave their spaces for juniors. The farewell function organized by third year civil students to their senior batch marked as a feel good and colourful event. The programme was held on 30 June 2023 in Pranavam auditorium.

Krishnabadran (S6, CE Dept) and Irene K.B. (S6, CE Dept) were the hosts of the programme. They warmly welcomed the audience. Outgoing batch students expressed their joy at having spent a memorable time with all and how they will always embraced a exceptional place in their hearts.

Head of the department, group tutors and other faculty members delivered earnest speeches reminiscing about joint experiences, expressing delight in their attainments, as they go aboard on new endeavors. All the audience enjoyed the session, fun games and vibrant cultural activities.

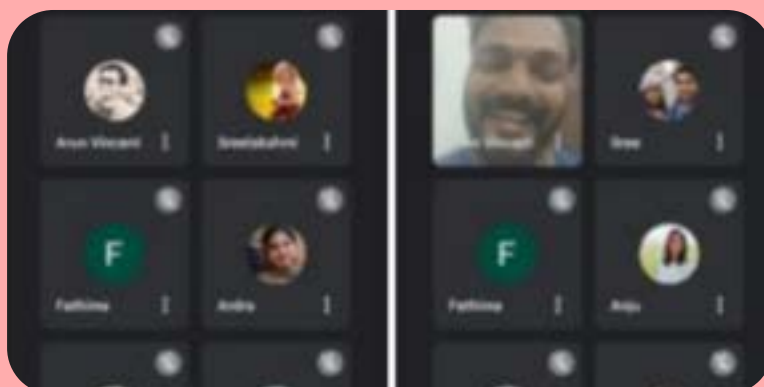


Meet the Civil Engineer Student Alumni Interaction



To offer academic and professional interaction and networking among Alumni, the Dept of Civil Engineering, conducted a talk about wide opportunities in civil engineering 'Meet the Civil Engineer' by alumni on 31 May 2023. The talk was held at 7.00 pm through Google Meet platform, which started with the welcome address delivered by Mr. Kiran Babu A.R. (Asst Prof, CE Dept). Dr C. Justine Jose (Prof. & HoD, CE Dept) addressed the participants and briefly described the highlights of previous meetings. He clearly mentioned the highlights of our department as well as the placement opportunities in the Civil Engineering field. The significance of Civil Engineering field, on site experience etc. were portrayed evidently by Dr C. Justine Jose.

After the inaugural session, technical talks were conducted by the alumni. The program was focused to share practical experience about a variety of opportunities in the Civil Engineering career. Er Neerad Mohan (2008-2012 Batch) (worked at Sobha Developers, 8 years experience in teaching filed as Assistant Professor and an Entrepreneur), Er Reeba Job (2006-2010 Batch) worked at L&T, Kochi Metro (KMRL), Er Arun Vincent (2009-2013 Batch) (Solid Waste Management sector) were the resource persons for the session. Students from current academic batches as well as plus two students, participated in the interactive session. All of them were excited and gave us excellent feedback about the program. They were interested to participate in more such sessions



CE Dept conducts site visit



Vidya offers best opportunities to the students to get occupied in facts sharing and to consider and work on latest progress in construction field. The students from Civil Engineering Department along with 2 faculty members visited Saphthavarma Commercial Building at Punkunnam on 12 July 2023. As many as 45 students attended the site visit. The visit was co-ordinated by Mr. Kiran Babu A.R. (Asst Prof, CE Dept) and Ms. Anu Maria Antony (Asst Prof, CE Dept). Different kinds of retaining walls such as column retaining walls and cantilever retaining walls were closely observed and explained at the site, Saphthavarma Commercial Building. All students experienced latest perception based on civil standards and were excited for such visits.

CE Alumnus delivers a talk on Opportunities in Civil Engineering



Vidya Alumni have achieved new heights in many fields. The education and experiences during the college days have molded them to shape their career well. Department of civil engineering conducted an alumni talk session on opportunities in civil engineering by Mr. Chaithanyan (2009 - 13 Batch, CE Dept) for the current first and second year students. More than 140 students attended the talk. He gave the talk on his work-life and experience in the field.

Mr. Chaithanyan is working as a civil engineer with over 10 years of experience in construction industry. He has worked for a variety of projects, ranging from residential and commercial buildings. He has a strong background in building planning, cost estimation, and construction management. He is also well-versed in the application of AutoCAD and other software programs use in the construction industry. He explained his experiences and how to shape his career and helped him discover the professionalism.

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