



CIVIL NEXUS

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

2024-2025

SEP-DEC 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.

Programme 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.

Programme 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

Core engineering branches recruitment by Al Nasr Contracting LLC with a starting annual package of Rs 15 lakhs



Al Nasr Contracting LLC, a leading U.A.E.-based company with over 4,500 employees, specializes in civil engineering, infrastructure, and electro-mechanical works.

The company recently conducted a recruitment drive on campus for the

2024 graduating batch. Following the selection process, 10 final-year students were successfully placed with an attractive annual package of ₹15 lakhs for projects in Dubai and Abu Dhabi. This achievement was made possible through the initiative of Mr. Thilakkan K.K. (Executive Committee Member, VICT).

Placements for 2021-25 batch students at AARBEE Structures



Aarbee Structures Pvt. Ltd., an ISO 9001:2015 Certified Company, member of National Institute of Steel Detailing and American Institute of Steel Construction – is a well-established structural steel designing and detailing company providing comprehensive world class services for

Infrastructure development and construction companies, fabricators, erectors, contractors, civil engineering consultants and Architects across the globe, mainly from USA & UK by maintaining international standards and quality. They are a leading structural steel designing and detailing company with offices in USA, Bangalore, Coimbatore and Kochi. After the recent pooled recruitment drive, six Civil Engineering branch students from the 2021-2025 batch have been placed at the company.

FACULTY DEVELOPMENT PROGRAMS

CE faculty members attends five day FDP on Bridging Technology and Sustainability



Faculty development is an essential investment for any institution of higher education. By providing opportunities for faculty members, Vidya faculty members continually strive to enhance their pedagogical skills and stay updated with the latest resources to provide the best education for their students.

Dr Abhilasha P.S. (Prof. & HoD, CE Dept), Dr Anjali P. Sasidharan (Asso. Prof, CE Dept), Ms. Ardra P. Nair (Asst Prof, CE Dept) participated in a five-day hybrid mode Faculty Development Program (FDP) on 'Bridging Technology and Sustainability: A deep drive into BIM and KSMART for Educators'. The program, organized by the Department of Civil Engineering, Kuttippuram, Kerala, during 01- 05 July 2024.

CE HoD attends course conducted by Open Pathshala



Faculty Development Programs play a crucial role in faculty members' growth, not only enhancing their teaching and professional skills but also positively impacting students, institutions, and the broader educational landscape.

Dr Abhilasha P.S. (Prof. & HoD, CE Dept) participated in Introduction to Indian Philosophy conducted by open pathshala.com.

CE HoD attends course on Outcome Based Education and Application of Generative AI in Teaching and Research



Faculty Development Programs play a crucial role in faculty members' growth, not only enhancing their teaching and professional skills but also positively impacting students, institutions, and the broader educational landscape. Dr Abhilasha P.S. (Prof. & HoD, CE Dept) has participated in the One Week National Level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research, organized by St. Mary's College (Autonomous), Thrissur, Kerala in association with the Collegiate Education Department, Government of Kerala during 17-24 October 2024 and has successfully completed all the assessments and secured an A grade.

CE HoD attends course conducted by up Educators



Faculty members equipped with media skills can transform the learning experience, foster creativity, and better connect with students in the digital age. These tools are not just enhancements, but necessities for contemporary education. Dr Abhilasha P.S. (Prof. & HoD, CE Dept) participated in Creating Designs using Canva conducted by up Educators on 19 November 2024.

CE HOD attends course conducted by Architecture India



Faculty Development Programs play a crucial role in faculty members' growth, not only enhancing their teaching and professional skills but also positively impacting students, institutions, and the broader educational landscape.

CE faculty members attend Faculty Development Program



Faculty Development Programs (FDPs) enhance educators teaching, research, and professional skills through innovative methods, technology use, and research training. Ms. Chithra M, Ms. Seetha Pisharikkal, and Ms. Kalyani Vijayakumar (Assistant Professors, CE Dept) attended an online FDP on ‘Building Sustainable Futures: Expert Insights in Structural, Geotechnical, and Transportation Engineering,’ organized by the Department of Civil Engineering, AWH Engineering College, Kozhikode, from 20–22 November 2024.

CE faculty members attend Faculty Development Program



BIM (Building Information Modelling) is an emerging concept in Civil Engineering that enables the creation and management of digital representations of structural elements. Faculty members of the Civil Department Dr Abhilasha P.S. (Prof. & HoD, CE Dept), Ms. Nirmala Krishnan, Ms. Ponsy Paul, and Mr. Kiran Babu A.R.

attended a BIM workshop at Sobha City, Thrissur, on 25 October 2024, conducted by CADD International in collaboration with BIM Channel. The workshop provided insights into advanced BIM techniques, including 4D and 5D modeling, highlighting its role in improving design accuracy, project management, and collaboration. Participants gained hands-on experience with modern tools, enhancing their skills and supporting innovation in civil engineering education.

DEPARTMENT ACTIVITIES

CE Dept organizes Alumni Interaction Series



CE conducts several programs to emphasize the importance of practical experience and continuous learning. An alumni session was conducted on 14 August 2024, Wednesday featuring Mr. Nandan K.V. (B.Tech 2020-2024 batch).

Mr. Nandan currently working as a Civil Engineer at ENARC Consultant. He shared valuable insights into the prospects and opportunities in the field of Civil Engineering. His talk was well-received and inspired many students to explore different avenues within the civil engineering domain. The event was organized by the Civil Department Association of Vidya Academy of Science and Technology.

CE Dept organizes Teachers day celebration 2024



The Department of Civil Engineering celebrated Teachers Day on 05 September 2024 to honor and appreciate the dedication of teachers. The program began with a welcome address by Aparna P.S. (S7, CE Dept), followed by the distribution of small gifts as tokens

of respect. Faculty members shared their teaching experiences with students.

A musical performance by Ms. Gloria (Asst Prof, CE Dept) and Ms. Athira K.S. (Trade Instructor, CE Dept) added charm to the event, followed by a cake-cutting ceremony. The celebration was a memorable occasion that brought together students and faculty to express gratitude and respect for educators.

CE Dept organizes Introductory Program: Blueprints & Beyond



An introductory program titled ‘Blueprints & Beyond’ was conducted on 19 August 2024 for the 2024 – 28 B.Tech Civil Engineering batch to familiarize students with the field and department. The session began with a welcome address by Ms. Kalyani Vijay Kumar, followed by an overview of the department by Dr Abhilasha P.S.

(Prof. & HoD, CE Dept) and an address by Dr Sunitha C. (Principal). A technical session on SketchUp by Mr. Renjith R. introduced students to basic 3D modeling. The program also included a guided lab visit led by faculty members, providing practical exposure to departmental facilities. The event concluded with a vote of thanks, successfully offering students a strong foundation for their academic journey.

CE Dept conducts technical and motivational session with distinguished Alumnus



The motivational and interactive sessions always add a positive impact to the junior students. The Dept of CE conducted an insightful and inspiring session for first year civil engineering students led by Er Neerad Mohan (2008-2012 Batch, CE Dept) on 11 September 2024 .

Er Neerad Mohan – an entrepreneur and currently the Managing Director of ‘Studio Plantale’, which is an established External Landscaping firm , head office situated at Thrissur gave a motivational talk to CE first year students . He shared valuable ideas about the civil engineering industry, especially when it comes to attending interviews, job opportunities, and formal behavior.

CE Dept conducts insightful talk on Civil Engineering Career Opportunities



The Department of Civil Engineering organized a session on 28 September 2024 to provide insights into career opportunities in civil engineering. Mr. Navaneeth (Director Operations, CS Innovate Solutions) delivered a talk on ‘Civil Engineering Career Opportunities’ for students and parents.

He highlighted job prospects in government sectors such as PWD, National Highway Authorities, and PSUs like NTPC, BHEL, and GAIL, as well as opportunities in private construction and infrastructure firms. He also emphasized the importance of software skills in tools like AutoCAD, STAAD Pro, Revit, and Primavera. The session concluded with an interactive Q&A, helping participants gain clarity on career paths and industry expectations.

CE Alumnus delivers technical and motivational session



Many of the Vidya alumni hold key positions of major influence in the society. The Dept of CE conducted an inspiring session for first year civil engineering students on 11 September 2024. Er Navaz K.A. (Junior Engineer, VENUS

Infrastructure Contracting L.L.C, 2020-2024 Batch, CE Dept) provided a highly informative and motivating for civil engineering students. He emphasized practical experience, continuous learning, and keeping up with technological advancements is crucial in a field that is constantly evolving. By addressing various career paths and highlighting the industry’s demand for skilled engineers, he undoubtedly provided valuable guidance for those looking to navigate the civil engineering domain. The event was organized by Civil Department Association of Vidya Academy of Science and Technology.

CE faculty members and students attend seminar on World Habitat Day



The Dept of CE provides valuable insights about the construction of a sustainable habitat. A session was conducted in COSTFORD Ayyanthol, Thrissur on the topic 'role of youth in building a sustainable habitat for everyone' to Civil engineering and Architect students,

teachers, and professionals from the field on 07 October 2024. Dr Abhilasha P.S. (Prof. & HoD, CE Dept), Ms. Nirmala Krishnan (Asst Prof, CE Dept), Ms. Nisha Varghese (Asst Prof, CE Dept), and B.Tech final year students from the Civil Engineering Department attended the program. The seminar was inaugurated by Mr. Arjun Pandian IAS (District Collector). Following, the dignitaries on the dais shared their thoughts, including senior teachers and experienced professionals. The session started by addressing the scarcity of houses for poor people and the irony of rich people having multiple residences. Then, moved on to the importance of youth in providing a habitat which can include everyone and is sustainable. An opportunity was given to raise questions clarify doubts and express the thoughts of the audience.

CE Dept conducts talk on various software tools in Civil Engineering field



A session, focused on introducing students to essential software used in the industry, with a special emphasis on Building Information Modeling (BIM) was held on 27 September 2024. Mr Jobbish (representative from 'CADD Infotech') handled the session.

Mr. Jobbish began his presentation by emphasizing the growing importance of software proficiency for civil engineers in today's technology-driven industry. Mr. Jobbish emphasized the necessity of acquiring BIM skills for civil engineers, as many employers now expect engineers to have a solid understanding of BIM processes

CE Dept celebrates ‘Kerala Piravi’



‘Kerala Piravi’ is an important annual celebration that marks the birth of the state of Kerala in India. With an aim to encourage students to deepen their knowledge of Kerala’s history, politics, literature, geography, and

current affairs, the Civil Engineering Association organized a ‘Kerala Piravi Quiz Competition’ on 01 November 2024. Students from all years of the department participated enthusiastically. The quiz consisted of 15 questions, that test the participants’ general awareness and knowledge related to Kerala. The entire event was evaluated by Dr Abhilasha P.S. (Prof. & HoD, CE Dept), and Mr. Kiran Babu A.R. (Asst Prof, CE Dept) by ensuring a fair and engaging experience for all.

CE Dept hosts technical talk



With an aim to deliver an engaging and informative talk, the Dept of CE arranged a technical talk on ‘Short term course orientation by CIPET in the area of Polymer in construction field’ to the First year students on 16 November 2024. Mr. Dhanish Devadas (Domain

trainer, Central Institute of Petrochemical Engineering & Technology – (CIPET)) delivered the session. Central Institute of Petrochemical Engineering & Technology – CIPET is a premier national institution under the Department of Chemicals and Petrochemicals, Ministry of Chemicals and Fertilizers, Govt of India. CIPET is involved in Skill Development, Technology Support, Academic and Research (STAR) in the field of Polymer Science and Technology. CIPET has started functioning in the campus of KINFRA II Park at Lakkidi, Ottapalam, Palakkad in 2019.

CE Dept hosts technical talk



The Dept of CE has been conducting alumni interaction series to address various career paths and highlighting industry's demand for skilled engineers. An alumni session was conducted on 23 November 2024. Mr. Ajsal Muhammed (2019-2023 batch, CE Dept) motivated the civil engineering students with his inspired session. Mr. Ajsal Muhammed K. is currently working as a Project Engineer at Orchid Castle, Dubai. He had earlier been placed from campus in Suncity Kitchen & Interiors organization where he worked for nearly one year. His session was highly informative and motivating for civil engineering students. His talk resonated with the students and inspired them to explore diverse opportunities in the field. The event was organized by Civil Department Association of Vidya Academy of Science and Technology.

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