



CIVIL NEXUS

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

2023-2024

SEP-DEC 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.

STUDENT ACTIVITIES

CE students celebrated 'Teacher's Day' with much reverence



Teacher's Day Celebrations at Vidya, CE Dept marked a befitting tribute to their teachers and mentors. As part of the Teacher's Day Celebrations on 05 September 2023, all the faculty and staff members were invited to the programme and cake cutting ceremony was arranged. The faculty and staff members extended their great sense of appreciation to the students for arranging such a function. Teachers were more than happy to have received such a special welcome on their day. The fun filled sessions organised by the students, were greatly enjoyed by the teachers and students alike.



CE students attend Four Days Hands on Training program on fundamentals of GIS and Remote Sensing



A holistic and enriching experience that provide both theoretical knowledge and the application of concepts in real-world scenarios to connect theory to practical application is beneficial to students. Four students namely, Gourylakshmi K.J. (S7, CE Dept), Ansaf Rasheed (S7, CE Dept), Adhithya M.S. (S7, CE Dept) and Georgy C.S. (S7, CE Dept) attended four-day training program four day training program that immersed themselves in the world of geospatial technology at the prestigious Centre For Geoinformatics in Mundur, Palakkad, Kerala, hosted by the Integrated Rural Technology Centre (IRTC). IRTC, an independent Research and Development organization, was founded by Kerala Sasthra Sahithya Parishad and is a grant-in-aid institute of Kerala State Council for Science Technology and Education, Government of Kerala. Established in 1987, the institution is located in Palakkad. The training program, titled ‘Hands- on Training Program on Fundamentals of GIS and Remote Sensing,’ took place during 26 – 29 September 2023. This comprehensive residential provided all amenities, courtesy of the conducting team at IRTC.

The training commenced with an introductory session where participants had the opportunity to introduce themselves. The inaugural address set the tone for what promised to be an enlightening experience. Mr. Anand Sebastian (Head & Scientist) was intended to initiate our learning journey, but he was unfortunately absent throughout the session, as he was in Delhi for a project. Following this, Ms. Malavika A.S. (GIS & Environment Analyst) provided invaluable insights into the ‘Fundamentals of Remote Sensing.’ In the subsequent days, the program seamlessly blended theory with hands-on

training. Under the guidance of Mr. Rajan M. (Project Scientist) that delved into GIS, exploring analysis and spatial operations. The practical sessions with QGIS brought the concepts to life, providing a taste of real-world applications.



STUDENT ACHIEVEMENTS

CE Student Amalkrishna K.J. bags third prize in IIIE Quality Awareness Quiz



To test the knowledge of quality assurance and quality control, Indian Institution of Industrial Engineering (IIIE) , conducted Quality Awareness Quiz on 19 November 2023. The Quiz was organized under the aegis of IIE Trivandrum Chapter in connection with their Quality month. It is with great honor, the Dept of CE is sharing the news that, Amalkrishna K.J. (S7, CE Dept) secured the third prize in IIIE Quality Awareness Quiz. The competition was conducted online in two phases. More than 400 participants from 40 institutions registered and 40 contestants were shortlisted for the finals held on 19 November 2023. The quiz was contested fiercely and the top 10 scored more than 100 correct answers out of 140. The prize distribution will be conducted during the IIIE Foundation Day celebration (27 January 2023) at Trivandrum.

FACULTY ACHIEVEMENTS

CE HoD attends webinar on ‘Sustainable Industrial Engineering : Bamboo Application’



Our faculty members are keen in the domain of sustainable management for creating a resilient society that can meet the needs of current and future generations. Dr Abhilasha P.S. (Prof. and HoD, CE Dept) attended a webinar conducted by IIIE Trivandrum Chapter. The Webinar was on the topic “Sustainable Industrial Engineering: Bamboo Application” which was delivered by Er K P Murthi (Strategic Consultant and former Senior GM, Bosch) on 21 October 2023 organized by IIIE Thiruvananthapuram chapter.

DEPARTMENT ACTIVITIES

CE Dept conducts Expert talk on ‘Bamboo Application for Sustainable Engineering’



Alternative materials that are rapid growing and sustainable are being required to satisfy human needs due to the global population and connected environmentally destructive consumption of natural resources. The plant bamboo is one of the material that is fast growing and sustainable. With this aim, Dept of CE conducted an interesting talk on 'Bamboo Application for Sustainable Engineering' to final year and prefinal year students of various departments on 05 September 2023.

Mr. K.P. Murthy (Former Senior General Manager, Bosch) handled the session. Mr. Murthy emphasized on the need of sustainability to be executed in all major and minor industrial establishments. He motivated the students to do good projects bringing sustainability elements in it. The students were benefitted by his sharing with respect to various work experiences the resource person had in India and abroad with various capacities.

Dr Abhilasha P.S. (Prof. & HoD, CE Dept) delivered welcome speech and introduced the chief guest. The interactive session concluded with vote of thanks from student representative, Sinan Sulaiman (S5, ME Dept).

CE Dept organized welcome program to boost first year students morale and confidence



A great way that get newly admitted students motivated in their new phase. The splendid welcome program for 2023-27 batch students was held on 26 September 2023 by the Civil Association. The program commenced with an opening address by the Civil Association's faculty in charge, Mr. Kiran Babu A.R. (Asst Prof, CE Dept). His welcoming words set a warm and inviting tone for the event, and he shared his insights about the academic journey ahead. Dr Abhilasha P.S. (Prof. & HoD, CE Dept) delivered

an inspiring speech, emphasizing the importance of academic excellence, discipline, and community involvement. Mr. Kiran Babu A.R. then took the stage again to introduce the esteemed panel members of the Civil Association. Cake cutting ceremony was also arranged to symbolize the unity and togetherness of the Civil Association. Additionally, a book was presented to the newcomers as a token of love and encouragement, signifying the beginning of their academic journey. Ms. Gloria Anto (Asst Prof, CE Dept) and Aparna P.S. (S5, CE Dept) performed a melodious song that touched everyone's hearts.

CE Dept celebrates Association Day 2023-24 with much fervor and zeal



The CE Dept Association activities, since its commencement, aid the students to expand their potential and teamwork by organizing various technical and alumni talks, seminars and workshops.

The CE Dept organised a programme named 'CE Association day' on 17 October 2023. The program aimed to celebrate various achievements from last academic year, followed by technical talk and cultural events. Anna Zam Kottayil (S7, CE Dept) served as the master of ceremony of the function. The event began with a traditional rangapooja, symbolising the auspiciousness of the occasion. After the energetic performance Irene K.B. (S7, CE Dept) delivered the welcome speech, setting the tone for the event. Dr Abhilasha P.S. (Prof. & HoD, CE Dept) delivered a significant presidential address. After the presidential address Dr Saji C.B. (Principal) delivered an inaugural speech. Followed by Dr Saji C.B. officially inaugurated the event by lighting the lamp, along with the dignitaries present. After the inauguration Athul Krishna K.V. (S7, CE Dept) provided an overview of the department's achievements in the previous Academic year.

Mr. Kiran Babu A.R. (Association co-ordinator and Asst Prof, CE Dept) shared the department's plans for the upcoming year. After sharing the plan, the association panel members was officially introduced, President – Athul Krishna K.V. (S7 CE A), Secretary – Irene K.B. (S7 CE B), Treasurer – Krishna Bhadran P.S. (S7 CE B), Joint secretary – Neeraj P. Sunil (S5 CEB), Vice president – Aparna P.S. (S5 CE A), Techfest coordinator – Athul N. (S7 CE A), Arts captian (Alpha)- Anett Rose K.T. (S7 CE A), Arts captian (Beta) - Sreeranjini Sreekumar (S7 CE B), Sports captain – Adharsh K.S. (S7 CE A) Media head- Nishanth K.P. (S7 CE B).

Dr Abhilasha P.S. (Prof. & HoD, CE Dept) solemnly administered the oath to the association members, emphasising their commitment to the organisation's core values.. After the pledge, Outstanding students and achievements were recognized and awarded during this segment. Dr Sudha Balagopalan (Dean, Academics) and Dr Sunitha C. (Vice Principal and Head of CSE Dept) were felicitated for their contributions. After the interesting speech, Alphy Anto (S7, CE Dept) delivered a vote of thanks to acknowledge all participants and contributors. The most awaited technical talk based on the scopes of civil engineering in private and public services was delivered by Er Unnikrishnan K.V. (retired Executive Engineer the Irrigation Department). The even cultural events where all attendees contributed and enjoyed the pure delight moments. It was conclude with vibrant cultural events where all attendees contributed and enjoyed the pure delight moments.



CE Dept hosts Dept Alumni Interaction Series 'Let's Connect'



Vidya alumni deem in motivating engineering minds, enhancing their scholastic capacity and given that guidelines and motivations for a better career opportunities. With an aim to line up individual objectives with proficient ambitions, an alumni engagement session was hosted interactive session christened 'Let's Connect' on 30 October 2023 featuring former students of 2017 - 2021 batch, Mr. Mervin T. Paul (Currently working as Project Manager, D Life Home interiors, Bangalore) and Mr. Mansoor Ali K. (Currently working as Client Relation Manager- MAX TECVA LLP, Woodnest Developers, Chalakkudy).

They were welcomed and introduced, jointly by Dr Abhilasha P.S. (Prof. & HoD, CE Dept) and Ms. Chithra M. (Asst Prof, CE Dept). During the interaction, they shared their experiences at Vidya Academy, emphasizing the importance of utilizing available opportunities and guidance for personal, academic, and character development. They underscored the significance of acquiring a diverse skill set during the four years on campus to stand out and excel in professional endeavours. They emphasized the idea that individual uniqueness holds greater value than grades, significantly impacting one's life. The event was organized by Civil Engineering Association of Vidya Academy of Science & Technology. Ms. Vandana V. (Asst Prof, CE Dept) and Mr. Kiran Babu A. R. (Asst Prof, CE Dept) led the programme as co-ordinators. Ms. Anitha N.K. (S1, CE Dept) concluded the session by offering feedback and expressing gratitude for their invaluable insight

School students prepare the building plan of their dream home in a workshop on Dreamcraft



To explore practical applications, CE Dept conducted an Industrial Visit (IV) for S8 CE A Batch students during 07-11 March 2024. Plus Two students of Thrissur Vivekodayam School were extremely happy to have their own 2 room residential building plan. The Dept of CE conducted a workshop on Dreamcraft-Building Tomorrow's Home (Sketchup software) to the students of Vivekodayam Boys Higher Secondary School (V.B.H.S.S) VBHSS, Thrissur on 18 November 2023. 42 students (12th grade) and two teachers participated in the workshop. The programme started at 10.30 am at PG Embedded Systems lab. The Inaugural function started by with Prayer recited by Aditya and Bhasura (S5, CE Dept) followed by welcome speech by Mr. Kiran Babu A.R. (Asst Prof, CE Dept).

The program was inaugurated by Dr Abhilasha P.S. (Prof. & HoD, CE Dept) followed by her inaugural address. The hands on training session was handled by Mr. Renjith R. (Asst Prof, CE Dept). Students were introduced to the software and the modelling of a two room residential building was done.

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