



OUR DEPARTMENT ACCREDITED BY NBA SECOND CYCLE (2022-2025)

Civil Engineering Association (CEA) Inauguration on 18th Nov 2022 and technical talk on "Traffic simulation: Development and Application". By Dr. Sreekumar, Asst. Professor, NIT Surathkal.

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Ms. Shabla K and Sneha Thomas 2018-22 batch have been recognized as the top 2% students in the University results.





PRIDE OF CIVIL ENGINEERING DEPARTMENT

COLLEGE VISION

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

COLLEGE MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of- the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

DEPARTMENT VISION

To emerge as a Centre of Excellence in Civil Engineering through quality professional education and to create eminent leaders with values committed to the profession and society.

DEPARTMENT MISSION

- To impart state of the art education and to provide industry exposure to students
- To create civil engineers who successfully adapt and innovate solutions for the built environment
- To inspire and transform the students to hard core professionals and academicians with ethical values.

PROGRAMME EDUCATIONAL OBJECTIVES

The program educational objectives of B.Tech in Civil Engineering are:

- 1. Graduates will have concrete knowledge in the application of necessary mathematical tools, scientific theories and modern developments in civil engineering.
- 2. Graduates will understand the societal needs and will be committed in developing optimal solutions.
- 3. Graduates will pursue higher education, research or entrepreneurship apart from being employable.
- 4. Graduates will be competent to face challenges in civil engineering through lifelong learning process and will have high ethical values, honesty and a sense of responsibility.

PROGRAMME OUTCOMES

Engineering Graduates will be able to:

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization 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.

DEPARTMENT ACTIVITIES

Our Department Conducted an NDLI talk on 6th December 2022 on the use of Reclaimed Asphalt Pavement in Road Construction by Dr. Deepa S, Scientist, Pavement Evaluation Division, Central Road Research Institute, New Delhi.



STUDENT ACHIEVEMENTS University Result top 2% of students in university

Students of S8 Civil Engineering, (2019-223 Harsha batch) Narayanan, Merina Anna Martin, Prince Francis and V. Shikil Krishna Participated in poster presentation in GIS Programme organized by, the Department of Civil Engineering and Centre for Data Science and Machine Learning, Centurion University Of Technology and Management on 16th November 2022, in association with ESRI Pvt Ltd India

Keerthana K. Kannan successfully completed her paper presentation for the national conference on sustainable construction and materials for infrastructure (NCSCM22), which was held on the 11th and 12th of November 2022 and was organized by the civil engineering department and the civil engineering association of the Vimal Jyothi Engineering College. **Theertha N** and Vincy Vergherse presented a paper on the Development of parking rate modal for different land use in Kozhikode district, Organized by the Technology Research and Innovation Centre, India and hosted by LSKBJ College of Engineering, Chandwad, Nashik India, 20-22 Dec 2022.

Surva S M.tech student presented a paper on 'Identification of pedestrian crash-prone locations and mitigation the International measures in Conference on Research Advances in Engineering and Technology organized by Musilar College of Engineering Technology and Patannathitta, India 1-2 Dec 2022

Reshma M Ravikumar presented a paper on 'A study on Rainwater harvesting of Porous Asphalt' International conference on Research advances in Engineering and Technology organized by Musilar Engineering College of and Technology Pathanamthitta, India 1-2 Dec 2022

Surya S M.tech student presented a paper on 'Identification of pedestrian crash-prone locations and visual representation using GIS' at the 3rd international conference on Sustainable Construction Technologies and advancements in Civil Engineering, Shri Vishnu Engineering College for Women, 15th-17th Dec 2022

As a part of CEA S5 civil engineering students and Dr. Alwyn Varghese as staff representative celebrated Christmas at Mullurkkara old age home on 23rd Dec 2022.



Our student Mr. Shidil S, S5 Civil (2020-24 Bach) have selected for the APJAKTU Kho-Kho team for the All India Inter University tournament



Students of S5 Civil Engineering (2020-24 Batch) Visited Malabar Cements on 24th November 2022



Students of S8 Civil Engineering (2019-23 batch) have visited Wastewater Treatment Plant in Guruvayur, the Municipal Solid Waste Treatment Plant, Kunnamkulam and Water Treatment Plant in Peechi.



FACULTY OUR ASSET

Prof. Cyriac M G, Associate Professor of the Civil Engineering Department, handled a session on water quality for Board Members of Chazhur Grama Panchayath, as a part of the Jal Jeevan Mission.



Prof. Cyriac M G, Associate Professor of the Civil Engineering Department, handled a session on Sewage Treatment Systems in connection with IPPL 2022, learning about Indian Plumbing Association.

Prof. Cyriac M G, Associate Professor of the Civil Engineering Department, gave a lecture on Solid waste Management in Kerala Perspectives and limitations, one day National Seminar on 25th October 2022, organized by PG Department of Economics, NSS College Ottapalam, in association with IRTC Mundur, Palakkad.

FACULTY ACHIEVEMENT

Mammen. N., Wilson. K.C., Verghese, V. (2023). Traffic Impact Assessment of a Proposed Shopping Mall in a Medium-Sized Town. In: Anjaneyulu, M.V.L.R., Harikrishna, M., Arkatkar, S.S., Veeraragavan, A. (eds) Recent Advances in Transportation Systems Engineering and Management. Lecture Notes in Civil Engineering, vol 261. Springer, Singapore. https://doi.org/10.1007/97 8-981-19-2273-2 44

Archana S, Assistant Professor Civil Department presented a paper on 'Identification of pedestrian crashprone locations and mitigation measures' at the International Conference on Research advances in Technology Engineering and organized by Musaliar College of Engineering and Technology Patannathitta, India 1-2 Dec 2022.

Vincy Verghese Assistant Professor of Civil Department presented a paper on 'A study on Rainwater harvesting of Porous Asphalt' International conference on Research Engineering advances in and Technology organized by Musaliar Engineering College of and Technology Pathanamthitta, India 1-2 Dec 2022

3. **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 the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use researchbased knowledge and research including methods 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

PROGRAMME SPECIFIC OUTCOMES

1. Acquire the ability to plan, furnish and/or analyse designs and implement infrastructure-related systems, produce related documents, drawings and reports, and quantity estimates, related to the civil engineering domain.

2. Apply theoretical concepts and technical skills in developing appropriate sustainable solutions through self-learning, research and teamwork for technical problems requiring civil engineering interventions towards a better quality of life.

3. Utilise the acquired knowledge in Environmental Engineering and Transportation Engineering to conceptualise, analyse, and evaluate specific problems in Water Quality Management, Sanitation, Pavement Design, Traffic Engineering and Transportation Planning and develop appropriate solutions.

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