



Department of Civil Engineering

CONNECTIONS

NEWSLETTER

June '23, Volume 6 Issue 6



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Editorial Board

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IV YEAR CIVIL ENGINEERING

MR. B.RAGHAVENDRA

III YEAR CIVIL ENGINEERING

Department Vision and Mission

Vision

To become a department of excellence in Civil Engineering education and research producing globally competent civil engineers to serve the industry and society.

Mission

- Providing state-of-the art resources that contribute to an excellent learning environment.
- Imparting necessary skills, cultivating moral and ethical values.
- Establishing regular interaction and collaboration with industries.
- Motivating the students to take up competitive exams and pursue higher education.
- Promoting research and development activities in emerging areas of civil engineering and offering services to society and industry through education, research and consultancy activities.

Workshop

Organized a Workshop on **“Machine Learning for Construction Automation”** on 26.06.2023 (Monday) at 2 PM - 3 PM.

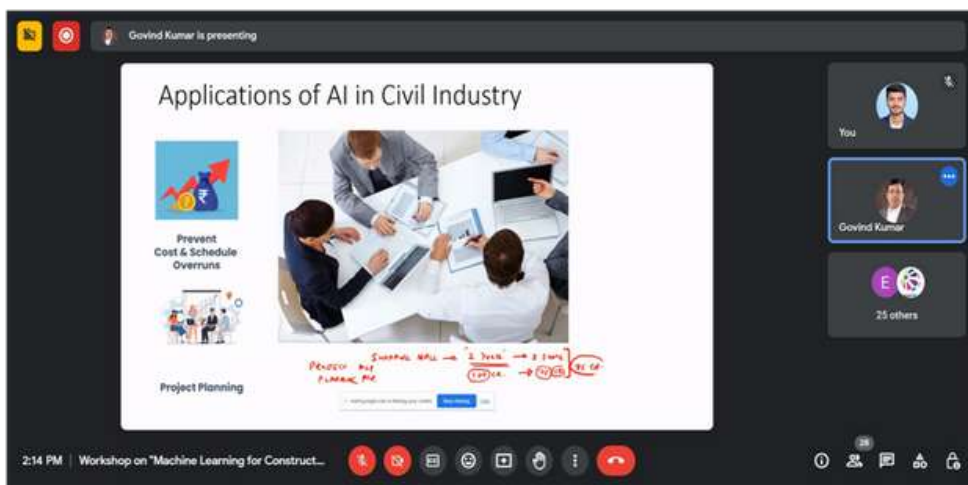
This program is organized by Dr.R.Kumutha (HoD/CVE) & Coordinated by Mr. A.Vijay Vignesh (AP/CVE).

Speaker Details:

Mr.A.M. Govind Kumar

Managing Director

SeaportAI, Chennai



Faculty Training

- Mr.R.Mathiyazhagan and Mr.R.Kalaivannan completed In-Plant training at Nesapakkam STP and Chembarambakkam WTP on 27.06.2023 and 28.06.2023.



Industrial Visits

- The First Year Students (2022-26 Batch) have visited the Dr.Fixit Experience Centre, Chennai on 09.06.2023 (Friday). This visit was organised by Dr.R.Sathia (ASP/CVE) and Coordinated by Mr.A.Vijay Vignesh (AP/CVE).



Industrial Visits



Pathways 2023

Webinar for Pathways 2023 on “**Designing the world around us: Explore Opportunities in Civil Engineering**” on 26.06.2023 (Monday) at 10 AM - 11.30 AM.

This program is organized by Dr.R.Kumutha (HoD/CVE) & Coordinated by Dr.M.Selvakumar (AHoD/CVE) and Mr.R.Mathiyazhagan (AP/CVE).

Speaker Details:

Mr. R. Arun Kumar

Global Manager-Education Program

Bentley Systems International Ltd., Chennai

Mr. M. Abishek Reddy

Managing Director

Sai Balaji Constructions

Andhra Pradesh

(2012-16 batch)

Mr. N. Mosikeeran

Associate Engineer

COWI India Pvt. Ltd, Chennai.

(2014-18 Batch)

Pathways 2023

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Presents

PATHWAYS



Scan here to
Register

A webinar about opportunities in Civil Engineering

Designing the World Around Us: Explore Opportunities in Civil Engineering



Dr. R Kumutha
HoD/CVE



Mr. R Arun Kumar
Global Manager -Education
Program, Bentley Systems
International Ltd.



**Mr. M. Abishek
Reddy**
Managing Director,
Sai Balaji Constructions
(Alumnus, 2012-16 Batch)



Mr. N. Mosikeeran
Associate Engineer
COWI India Pvt.Ltd, Chennai
(Alumnus, 2014-18 Batch)



<http://meet.google.com/vtr-pdry-pfz>

26-06-2023 10.00 AM to 11.30 AM

Register Now

Faculty Participation

- Dr.M.Selvakumar, Dr.R.Sathia, Mr.R.Mathiyazhgan, Mr. G.Arun, Ms. Ruby Freya and Mr.R.Kalaivannan participated in the Workshop on “Machine Learning for Construction Automation” organized by the Department of Civil Engineering, Sri Venkateswara College of Engineering on 26.06.2023 .

Interaction with outside world

- Dr.R.Kumutha reviewed four papers for the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD-2023) , organised by the Department of Civil Engineering, Jyothy Institute of Technology, Bengaluru on 7th & 8th July 2023.
- Ms. Ruby Freya, Assistant Professor reviewed three papers for the International Conference on Sustainable Technologies in civil and Environmental Engineering (ICSTCE 2023) organised by Dr. DY Patil Institute of Technology, Pune.

Students Activities

- Ramanhujam RJ (2127220401017) & Kavin Manickam V (2127220401010) have participated and presented a paper titled "Parking Problems in Cities" in the Leo Tech Presentation organized by Sri Sairam Engineering College, Chennai on 09.06.2023 (Friday).
- Ramanhujam RJ (2127220401017) has participated in the Virtual Workshop on "Drone technology and Application" organized by Skyy Rider Institutions on 09.06.2023 (Friday).
- The following students enrolled for ICI Student Membership.
 - 1) RAGHAVENDRA B (II Year)
 - 2) AADESHWAR S (II Year)
 - 3) LOMINA R (II Year)
 - 4) PRIYADARSHINI R (II Year)

PROGRAM OUTCOMES (POs)

Students in the Civil Engineering program should, at the time of their graduation, be able to

- Apply the knowledge of mathematics, science, engineering fundamentals and concepts of Civil Engineering to the solution of complex engineering problems. **(Engineering knowledge)**
- Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. **(Problem analysis)**
- 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. **(Design/Development of Solutions)**
- 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 for complex problems. **(Conduct Investigations of Complex Problems)**
- Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. **(Modern Tool Usage)**
- 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. **(The Engineer and Society)**
- Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. **(Environment and Sustainability)**
- Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. **(Ethics)**
- Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. **(Individual and Team Work)**
- 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. **(Communication)**
- 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. **(Project Management and Finance)**
- Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change. **(Life-long Learning)**

PROGRAM SPECIFIC OUTCOMES (PSOs)

Students in the Civil Engineering program should, at the time of their graduation, be able to

- Provide solutions for real life problems related to core areas of civil engineering by applying knowledge of mathematics, Basic and Engineering Sciences and by using appropriate engineering tools.
- Plan, analyse, design, execute and manage infrastructure projects considering safety, societal and environmental factors.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Civil Engineering graduates during the first few years of graduation will:

- Practice civil engineering in construction industry, government or public sector undertakings by applying ethical principles and following norms of civil engineering practice.
- Pursue higher education and research to hone-up latest civil engineering technologies and to adapt to the changing global scenario.
- Exhibit leadership and team working skills as an entrepreneur with demonstrable attributes to contribute to the societal needs.



About the Department

The Department of Civil Engineering has started functioning from the year 2008 offering B.E Civil Engineering and Ph.D Civil Engineering programs.

The Department has expertise and facilities for undertaking consultancy work on testing of building materials, traffic studies, structural analysis and design etc.

Highlights of the Department

- B.E Civil Engineering programs accredited by National Board of Accreditation (NBA) under Tier I.
- Anna University Recognized Research Centre
- Signed MoUs with NHAI, Construction Management Training Institute (CMTI), Bengaluru and TechApps Consulting, Chennai.
- The Department has received funded projects and external grants from SERB, AICTE, TNSCST, etc.
- Completed consultancy and testing projects associated with various industries.
- Published book chapters and patents.

Specializations & Research Domains

- ✓ Structural Engineering
- ✓ Transportation Engineering
- ✓ Environmental Engineering
- ✓ Construction Management
- ✓ Water Resources Engineering
- ✓ Geotechnical Engineering



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- Well-defined Choice Based Credit System based curriculum with Value added Courses and Certificate courses.
- Well-equipped modern laboratories and Industry Supported Advanced Software Laboratory (supported by TechApps Consulting and Bentley Education).
- Involvement of students in association activities and magazine publications.

OUR MAJOR RECRUITERS



A BACHELOR'S DEGREE IN CIVIL ENGINEERING WITH SPECIALIZATION IN ANY OF THE FOLLOWING

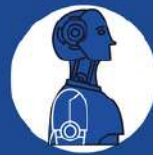
MINOR DISCIPLINES



ARTIFICIAL INTELLIGENCE & MACHINE LEARNING



DATA SCIENCE



ROBOTICS & MODERN MATERIAL HANDLING



BUSINESS DATA ANALYTICS



LOGISTICS & SUPPLY CHAIN MANAGEMENT



FINTECH & BLOCK CHAIN

AND MANY MORE.....

HONOURS



STRUCTURAL ENGINEERING



GEO-INFORMATICS



CONSTRUCTION MANAGEMENT



GEOTECHNICAL ENGINEERING