

Volume 5 Issue 4

DEC '22

HORIZON

NEWSLETTER

***Department of
Civil Engineering***

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DEPARTMENT VISION & 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.

RESEARCH ACTIVITIES



Department of Civil Engineering is granted '**Research Centre**' Status by Anna University, Chennai. for a period of three years (valid till December 2025)



RESEARCH ACTIVITES

Kumutha Rathinam, Vijai Kanagarajan published a paper titled " **A study on flexural behaviour of ferrocement slabs using foamed concrete**"

International Journal of Structural Engineering 2023 Vol.13 No.1, pp.63 - 79. [published online on 07th November 2022]. DOI: 10.1504/IJSTRUCTE.2023.10051474

Mr. D.Siddi Ramulu, Mr. K. Sankar and

Mr. M. Selvakumar published a paper entitled "**Trip-based Modal Shift Behaviour of Mode Users along the Proposed Extension Metro Corridor in Chennai (India)**"

European Transport / Trasporti Europei Journal (Issue 89, Paper 6/9). <https://doi.org/10.48295/ET.2022.89.6>

Ruby Freya, R. Senthil published a paper titled "**Optimal Evaluation of the Rheological Parameters for STF Dampers in Semi-Rigid Joints of Steel Structures Using Response Surface Method**", Advances in Civil Engineering, vol. 2022, Article ID 1769739, 13 pages, 2022. <https://doi.org/10.1155/2022/1769739>

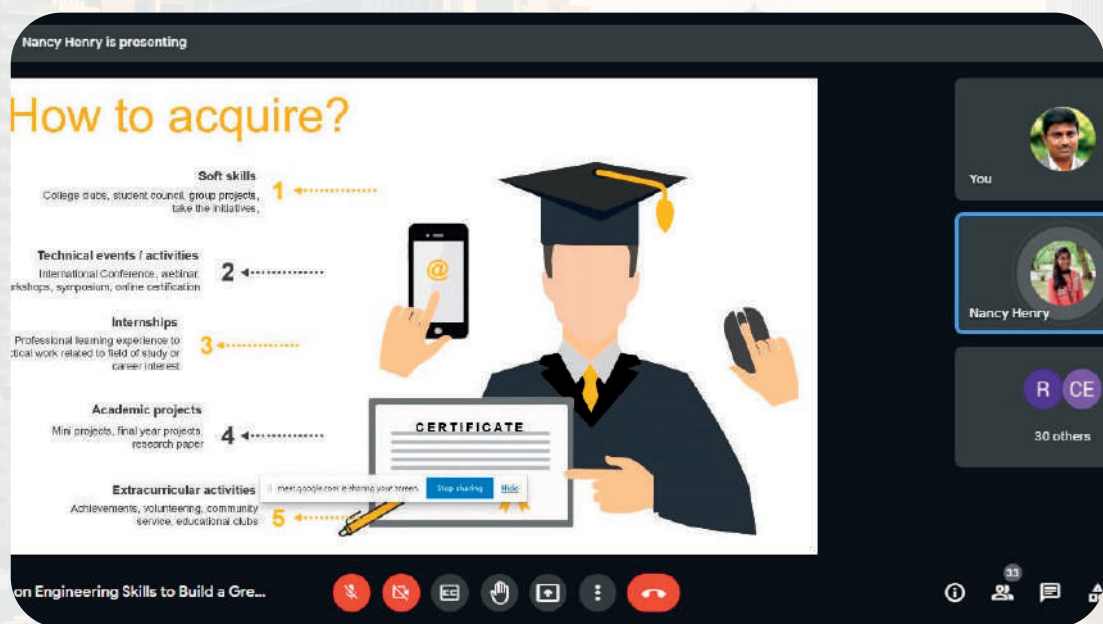
PROGRAMS ORGANISED

A Guest Lecture on "**Career Opportunities in Civil Engineering and Mapping it with the Current Syllabus and Roles of Software in it Real Estate Development Process**" by **Mr. Pradeep Narayanan**, BIM Manager, DE NOVO SOFTWARE SOLUTIONS, a unit of PGN Groups, Chennai, on 23rd December 2022 was coordinated by Ms. Ruby Freya AP/CVE.



PROGRAMS ORGANISED

Ms.Nancy H, 2018-2022 Batch, Graduate Engineer Trainee, Grundfos Pump Private Limited., Chennai delivered an online lecture titled "**Engineering Skills to build a great resume**" on 31.12.2022 at 1.00 pm. This program was coordinated by Mr.R.Mathiyazhagan, AP/CVE.



PROGRAMS ATTENDED

Mr. A.Vijay Vignesh AP/CVE participated in the Seminar on “**Energy Conservation in Household Appliances**” on 14.12.2022 as a part of Energy Conservation Day 2022 organized by IIC SVCE, Chennai.

Mr. A.Vijay Vignesh AP/CVE participated in the **Disaster Awareness Programme** conducted by Sri Sathya Sai Seva Organisation, Tamilnadu on 17.12.2022 at Sri Venkateswara College of Engineering, Sriperumbudur.

Mr. R. Rajesh Lab Instructor /CVE participated in the **Disaster Awareness Programme** conducted by Sri Sathya Sai Seva Organisation, Tamilnadu on 17.12.2022 at Sri Venkateswara College of Engineering, Sriperumbudur.

Mr.M.Venkata Krishnan Lab Assistant / CVE participated in the **Disaster Awareness Programme** conducted by Sri Sathya Sai Seva Organisation, Tamilnadu on 17.12.2022 at Sri Venkateswara College of Engineering, Sriperumbudur.

PROGRAMS ATTENDED

Ms. Ruby Freya AP/CVE completed ATAL FDP on '**A Boulevard To Neoteric Geotechnical Engineering**' at Meenakshi Sundarajan Engineering College from 19th to 30th December 2022.

Mr.S.Hariswaran AP/CVE completed ATAL FDP on '**A Boulevard To Neoteric Geotechnical Engineering**' at Meenakshi Sundarajan Engineering College from 19th to 30th December 2022.

Mr. A.Vijay Vignesh AP/CVE has completed the 5 Days Online FDP on the theme "**Inculcating Universal Human Values in Technical Education**" organised by All India Council for Technical Education (AICTE) from 05.12.2022 to 09.12.2022.

PROGRAMS ATTENDED

The First Year Students participated in the **Disaster Awareness Programme** conducted by Sri Sathya Sai Seva Organisation, Tamilnadu on the 17.12.2022 at Sri Venkateswara College of Engineering, Sriperumbudur. Participants are:

1. YUGHESWARAN RB
2. JAI SIDDARTH A
3. GIRIDHARAN V
4. GOKUL A
5. LOKESHWARAN R
6. GURURAJE M
7. MUTHU MATHI S
8. MOHANA PRIYA S
9. HARSHITHA T

PROGRAMS ATTENDED

Mr. D Laleeth Kumar, Mr. A V Gopinath, Ms. M Jenani and Mr. A Vignesh, final year students have participated in **INSDAG** National Competition for Students for Best Innovative Structural Steel Design (Year 2022).

Jai Siddharth A, Yugheswaran RB, Ramanhujam RJ, First Year Students have participated in the Seminar on “**Energy Conservation in Household Appliances**” on 14.12.2022 as a part of Energy Conservation Day 2022 organized by IIC SVCE, Chennai.

Yugheswaran RB (I Year) joined as a Student Member in the American Society of Civil Engineers (ASCE). **Membership ID: 12357057**

Jai Siddharth (I Year) joined as a Student Member in the American Society of Civil Engineers (ASCE). **Membership ID: 12356513**

CEA ACTIVITIES

The Civil Engineering Association organized **SEEK and SAY technical event** for 1 year Civil Engineering Students on 16/12/2022 , 18 students participated in the event.



CEA ACTIVITIES

WINNERS OF THE EVENT :

First place

- Mr. Jai Siddarth.A
(I Year Civil Engg.)



Second place - Mr. Ramanhujam.R.J
(I Year Civil Engg.)



Third place

- Mr. Kavin Manickam.V
(I Year Civil Engg.)



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.



