



Department of Civil Engineering

CONNECTIONS

NEWSLETTER

May '23, Volume 6 Issue 5



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II YEAR CIVIL ENGINEERING

Department Vision and Mission

Vision

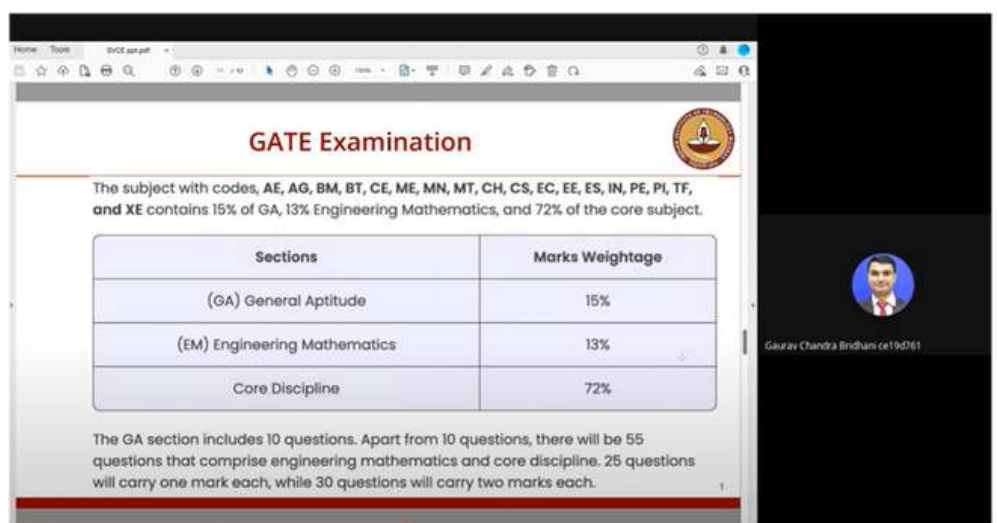
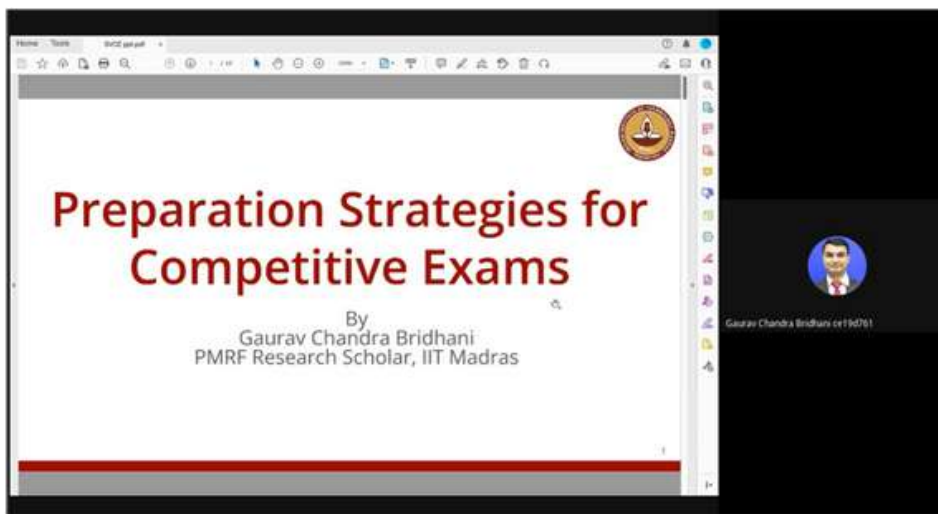
To become a department of excellence in Civil Engineering education and research producing globally competent civil engineers to serve the industry and society.

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.

Guest lecture

Mr. Gaurav Chandra Bridhani, Prime Minister Research Fellowship (PMRF) Scholar, Structural Engineering Division, Dept of Civil Engineering, IIT Madras delivered the guest lecture on "PREPARATION STRATEGIES FOR COMPETITIVE EXAMS" (Exclusively for Civil engineering based competitive exams) on 29th May 2023 through online mode, organised by Mr. Kalaivannan R AP/CVE.



Research Activity

- R. Kumutha; V. Praveen Kumar (2023) , "Seismic analysis of G+3 R.C. framed residential building at zone 5 using software", AIP Conference Proceedings 2747, 050001 -10, <https://doi.org/10.1063/5.0132669>
- Dr.R.Kumutha received an appreciation certificate from Dr.C.Uma Rani, Director, Centre for Research, Anna University during the Faculty Research Day on 26.05.2023 for having an h index of 12 in Google Scholar with 920 citations.



Faculty Research day

- Faculty Research Day was held on 26th May and Dr. V. Vasugi, Professor, Department of Civil Engineering, VIT, Chennai was the judge for the event
- Dr.R.Kumutha, Professor and Head presented on Geopolymer Interlocking Bricks and prisms using Waste Glass and won the first prize.
- Mr.G.Arun, Assistant Professor, presented on Assessment of Macro and Micro Plastics in Sands of Chennai Beaches and won second place.
- Dr.R.Sathia, Associate Professor, presented on Durability study of Caryota Urens fibre Concrete and won third place.
- Dr.M.Selvakumar, Associate Professor, presented on Promising Influence of Chennai Metro on Bus: A Mathematical Approach.
- Mr.R.Kalaivannan, Assistant Professor, presented on Assessment of Ground Water Quality at Sriperumbudur Taluk.
- Mr.A.Vijay Vignesh, Assistant Professor, presented on Value Engineering for the Sustainable growth of the Construction Projects.

Congratulations!

Dr. R. Kumutha Professor & Head secured first place in the faculty research day competition.



Mr. G. Arun Assistant Professor secured second place in the faculty research day competition.



Dr. R. Sathia Associate Professor secured third place in the faculty research day competition.



Congratulations on completing 10 years!

Mrs. Ruby Freya Assistant Professor was felicitated in the college day 2023 for completing 10 years of service in the Institution.



Mr. Chiranjeevi B. Attender was felicitated in the college day 2023 for completing 10 years of service in the Institution.



Faculty Participation

- Mr.Kalaivannan R, Assistant Professor, attended the webinar on Research Mentoring Program For PALs Partner Institutes on 24.05.2023.
- Ms. Ruby Freya, Assistant Professor, has successfully completed a Coursera course on “Applications in Engineering Mechanics” offered by Georgia Institute of Technology on 27th May 2023.
- Mr. G. Arun Assistant Professor, has successfully completed a Coursera course on “Renewable Energy and Green Building Entrepreneurship” offered by Duke University on 31st May 2023.

Interaction with outside world

- Dr.R.Kumutha reviewed two papers for the International Conference on Civil Engineering Innovative Development in Engineering Advances [ICC IDEA - 2023], organised by the Department of Civil Engineering, SRM Institute of Science and Technology, Kattankulathur on 09.03.2023 to 11.03.2023.

Award winners

Ms. Jenani M. final year civil engineering student received the Outstanding Civil Engineering Student Award on college day 2023.



Ms. Lomina R. second year civil engineering student received the Budding Bright Engineer award on college day 2023.



Mr. Velan S. second year civil engineering student received the Budding Bright Engineer award on college day 2023.



Students Activities

- Ms. Arshiya AS underwent an industrial project at RajParis Civil Construction, T Nagar from Jan to May 2023.
- Mr. J Dhanush Aurobindo underwent an industrial project at CBRE India, Chennai from Jan to May 2023.
- Mr. S Gowtham underwent an industrial project at TVS ILP, Chennai from Jan to May 2023.
- Mr. V. Hariharan and Mr. B. Bharanidharan underwent an industrial project at Arboretum Foundation Private Limited, Polacheri from Jan to May 2023.
- Mr. T. Lalith Kumar and Mr. K. Guruprakash underwent an industrial project at Pearl Construction, Medavakkam from Jan to May 2023.
- Ms. Brithisha S, Ms. Akriitha K, and Ms. Kavinmalar K underwent an industrial project at IIT Madras, Chennai from Jan to May 2023.
- Mr. Ramanan BB, Mr. Rohit V, and Mr. Keerthivaasan R underwent an industrial project at TSO Design Commune Pvt. Ltd from Jan to May 2023.
- Mr. Laleeth kumar D. completed two months internship at CMDA, with a stipend of Rs. 8,000 per month.

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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- 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

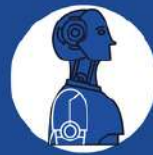
MINOR DISCIPLINES



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