

SCHOOL OF INFRASTRUCTURE
DEPARTMENT OF CIVIL ENGINEERING

Ref.: 547A/Dean (Sol) /0923

Date: 21.09.2023

[Report about workshop on “Computer Application in Civil Engineering “](#)

The workshop on “Computer Application in Civil Engineering” was conducted on 30th August 2023 at Civil Department computer laboratory, organized by Department of Civil Engineering in collaboration with CADD center, Tambaram. The event was coordinated by Mr. A. Sheik Farid, Assistant Professor (Sr. Gr), and Dr. K. Yogeswari, Professor, Department of Civil Engineering. 39 final year B.Tech. Civil Engg. students participated in the workshop.



Introduction about the guest speaker by Mr. A. Sheik Farid, Assistant Professor (Sr. Gr)

Mr. Ligen Mohan, Technical Head, CADD Centre (speaker) initiated the talk by stating the wide-ranging applications of computers in civil engineering, encompassing design, analysis, project management, and construction. It also highlights the benefits, challenges, and future prospects of computer applications in this field.

The speaker emphasized that the integration of computer applications in civil engineering has transformed the industry, enabling more efficient and accurate project planning, design, and analysis. Key applications include computer-aided design (CAD), Building Information Modeling (BIM), structural analysis using Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD), Geographic Information Systems (GIS), Project Management tools, and Advanced Construction and Surveying Technologies. These applications bring numerous benefits, including increased efficiency, precision, cost reduction, collaboration, and support for sustainability. Challenges such as training, costs, data security, and integration need to be addressed, but the future prospects of AI, machine learning, and 3D printing promise to further revolutionize the field.



Mr. Ligen Mohan highlighted that the integration of computer applications in civil engineering has revolutionized the industry, empowering engineers to tackle complex challenges with precision and speed.

Outcomes:

Overall, the workshop on "Computer Application in Civil Engineering" proved to be a valuable learning experience for all participating students.



This workshop equipped the participating students with practical skills and knowledge to leverage computer applications for improved project outcomes, efficiency, and sustainability in civil engineering. The discussions on future trends and challenges have also prepared participants to adapt to the evolving landscape of the industry. The workshop's success underscores the importance of continued education and training in utilizing technology to advance civil engineering practices.



SCHOOL OF INFRASTRUCTURE
DEPARTMENT OF CIVIL ENGINEERING

In Collaboration with CADD Centre

Organizing

Workshop on
**“Computer Application in
Civil Engineering”**

Date: 30/08/2023, Wednesday

Time: 11.00 A.M. to 12.40 P.M.

Venue: Civil Department Computer Laboratory

Resource Person: Mr. Ligen Mohan, Technical Head,
CADD Centre, West Tambaram, Chennai

Participants: B.Tech., Final Year (Civil Engineering)

Co-ordinators

Dr. K. Yogeswari, Professor
Mr. A. Sheik Farid, Asst. prof (Sr.Gr.)

Convener

Dr. M.S. Haji Sheik Mohammed
Dean (School of Infrastructure)

Dr. M.S. Haji Sheik Mohammed
Dean (School of Infrastructure)