BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to JNTU-Hyderabad)
Abdullapur(V), Abdullapurmet (M), R.R. Dt. Hyderabad - 501505
Website: www.b-iet.ac.in, e-mail: principal@b-iet.ac.in

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2022 – 23

Course	**Computer Aided Civil Engineering Drawing**	Year / Semester	**II / II**
Topic	**Drawing a Plan of Building and dimensioning**	Innovative Method Chosen	**Practical Learning**

Practical Learning:

Students gain hands-on experience in the learning process by performing practical activities, experiments, field work, and real-world engineering tasks. It helps the faculty to connect theoretical concepts with practical applications and enables students to develop technical skills through direct experience.

Justification:

Practical Learning is an important teaching method in the CAD Lab. Drawing a building plan and providing proper dimensions helps students understand the practical application of computer-aided design. It enables students to develop skills in preparing accurate building plans, setting dimensions, and using different CAD commands. Students prepare the drawing individually and apply their theoretical knowledge in practice, which improves their technical skills, accuracy, creativity, and problem-solving abilities.

Details of the Implementation:

- **Plan** Basics of building drawings and CAD commands are already learnt in the CAD Lab, and the topic of drawing a plan of a building and dimensioning is given as practical learning through hands-on practice.

- **Identify and Share**: Relevant building plan drawings, dimensions, standards, and CAD commands are identified and demonstrated to the students. Students are instructed to prepare a building plan using CAD software and provide proper dimensions for rooms, doors, windows, walls, and other building components.

- **Evaluate:** Faculty have prepared a practical task related to building plan drawing and dimensioning and asked the students to complete and present their drawings in the CAD Lab. The students' drawings are evaluated based on accuracy, proper dimensioning, use of CAD commands, and neatness.

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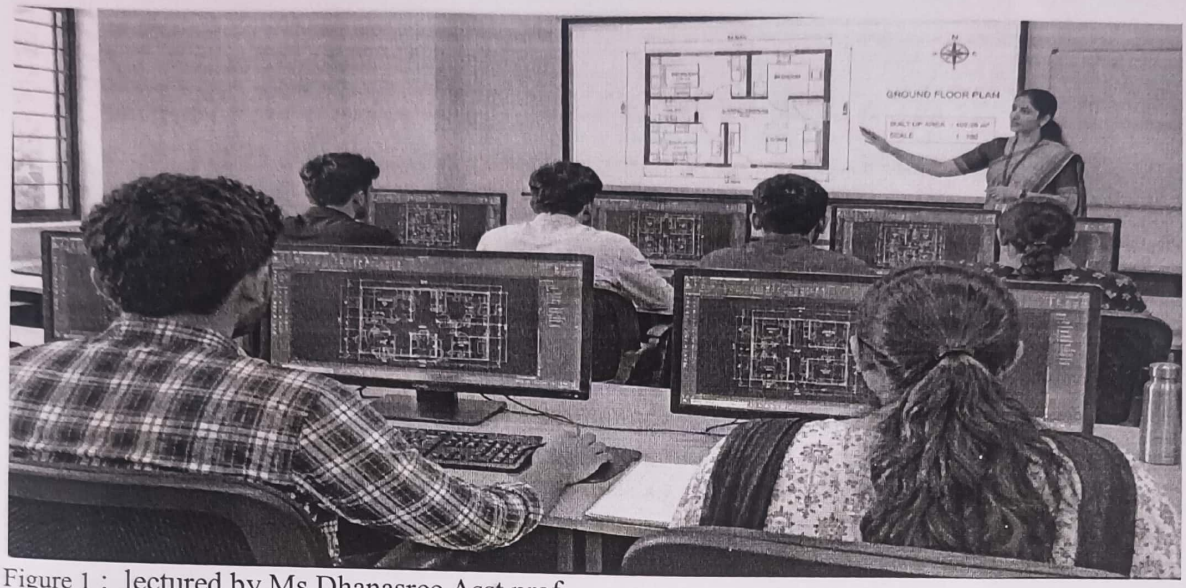


Figure 1 : lectured by Ms.Dhanasree Asst.prof

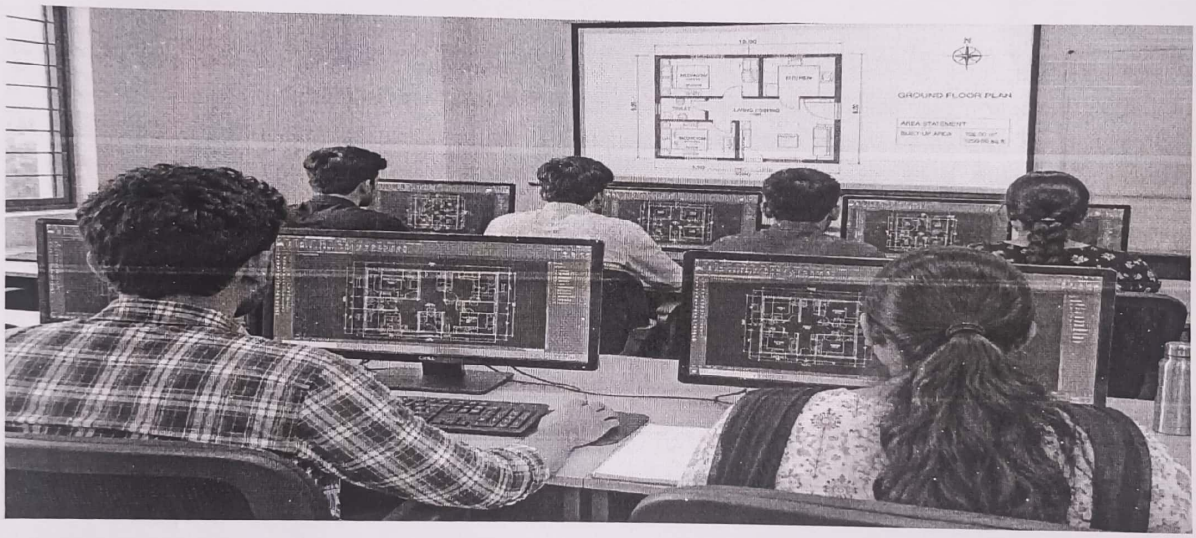


Figure 2: Students prepare the building plan and dimension it by themselves through practical learning

Coordinator

Head of the Department

Head of the Department
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College Code: QA

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DEPARTMENT OF CIVIL ENGINEERING

Date:17-06-2023

To
The Principal,
Brilliant Institute of Engineering and Technology,
Adbullapur (V & M) - 501505,
R. R. District, Hyderabad.

Respected Sir,

Sub: Seeking Permission – Innovative TLP – Req. – Reg.

* * *

We are hereby bringing to your kind notice that the department of Civil engineering department is going to conduct an innovative session i.e., Practical Learning is conducting by our faculty members to our students. where the traditional learning order is reversed Students learn the lesson before class. A technique where people share ideas freely without criticism to solve a problem or think creatively. We are scheduled the program on 23-06-2023 at 1:15 pm to 3:45 pm to II year II semester. This will be a good knowledge sharing platform for students.

We are confident that you will continue to serve the institution diligently and will have a satisfying and rewarding career with the institution.

In this regard, we are requesting you kindly permit us to conduct the program to the students.

Thanking you sir.

Yours Sincerely,

Head of the Department

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DEPARTMENT OF CIVIL ENGINEERING

Date: 19-06-2023

Circular

This is to inform all faculty members and students of the Department of Civil Engineering that the department is going to conduct an Innovative Teaching Learning Practice (Practical Learning) session on "Drawing a plan of building and dimensioning" under the subject Computer aided civil engineering drawing (CAD LAB)on 23-06-2023 between 1:15 PM and 3:45 PM.

The session is intended to provide practical knowledge on the preparation of building plans, application of CAD commands, drawing techniques, dimensioning, annotations, and presentation standards used in Civil Engineering drafting. The program will serve as an effective knowledge-sharing and hands-on learning platform, helping students strengthen their understanding of Building plan preparation and dimensioning through practical CAD applications. It will also enhance students' technical drawing skills, accuracy, visualization abilities, and confidence in using Computer-Aided Design (CAD) software for real-world building drawing requirements..
Hence, all the students of II Year II Semester who are interested in participating are directed to enroll their names with the concerned faculty on or before 22-06-2023.

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Copy to:

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Practical Learning – Drawing Plan of Building and Dimensioning

A Practical Learning class is a teaching session where students learn concepts through observation, demonstrations, hands-on activities, and real-world applications. It helps students understand theoretical concepts by connecting them with practical engineering drawing techniques, CAD software, and professional drafting practices.

A Practical Learning session on "Drawing a Plan of Building and Dimensioning" in the CAD Lab enables students to learn the preparation of building plans using Computer-Aided Design (CAD) software. Students actively participate by creating building layouts, drawing walls, rooms, doors, windows, and other building components, applying dimensions and annotations, and understanding the importance of accurate and standardized building drawings.

What Happens in a Practical Learning Class?

1. The faculty introduces the topic "Drawing a Plan of Building and Dimensioning" and explains its importance in Civil Engineering and building construction.
2. Students observe sample building plans, CAD drawings, layouts, and demonstrations related to building plan preparation and dimensioning.
3. The procedure for drawing walls, rooms, doors, windows, openings, and other building components is demonstrated using CAD software.
4. Students practice preparing the building plan and apply appropriate dimensions, text, symbols, layers, and annotations according to engineering drawing standards.
5. Students gain practical knowledge and develop a better understanding of building plan preparation, dimensioning techniques, CAD commands, accuracy, and professional drawing presentation.

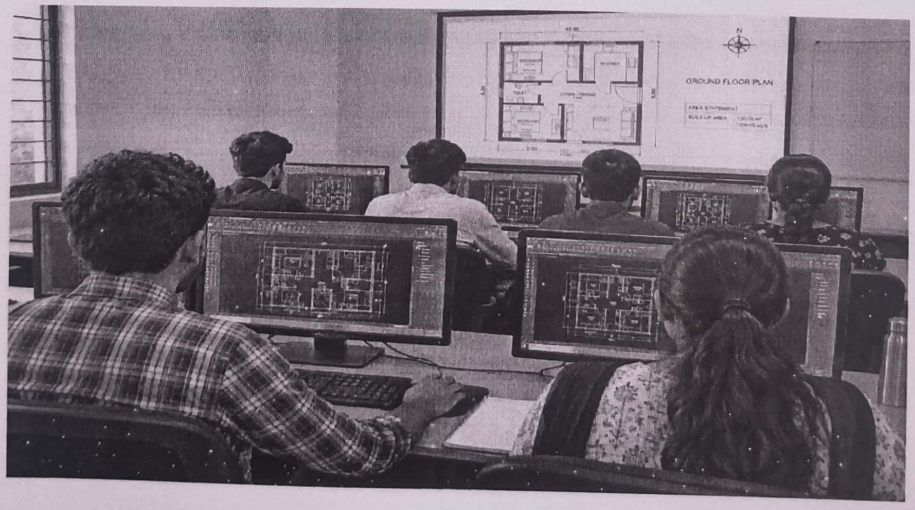


Figure 1 (22QA5A0109,22QA1A0111,22QA1A0116,22QA5A0126)

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DEPARTMENT OF CIVIL ENGINEERING

Purpose

- To develop skills in computer-aided drafting and design using CAD software.
- To enable students to prepare accurate 2D drawings such as building plans, elevations, sections, and structural details.
- To improve students' visualization and technical drawing abilities for civil engineering applications.
- To familiarize students with CAD tools and commands such as drawing, editing, dimensioning, layering, and annotation.
- To develop practical problem-solving skills by converting engineering concepts into detailed drawings.
- To prepare students for professional practice by developing industry-relevant drafting and documentation skills

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Summary Report
On
Practical Learning

The Department of Civil Engineering conducted a Practical Learning Session in the **CAD Laboratory** on the topic **"Drawing a Building Plan"**. The main objective of this activity was to provide students with practical knowledge of preparing building plans using Computer-Aided Design (CAD) software. The session helped students understand the principles of building planning, preparation of floor plans, use of drawing and editing commands, dimensioning, annotation, and proper representation of various building components.

The practical learning activity was organized for Civil Engineering students and mapped to Program Outcomes (PO-2, PO-3). A large number of students actively participated in the session. During the activity, students prepared a building plan using CAD software and gained hands-on experience in creating accurate and detailed engineering drawings. On this occasion, **Dr. Shaik Rusthum , Principal**, motivated the students to participate in such technical activities and congratulated the organizing committee. He also advised the faculty members to conduct more practical-oriented learning programs to enhance students' technical skills, creativity, and industry readiness.

The total number of students who participated in the event was .

Merit Students

S.No	Roll Number	Student Name
1	22QA5A0109	K. Laya
2	22QA1A0111	K. Sruthi
3	22QA1A0116	M. Shankar
4	22QA5A0126	K. Akhil

Coordinator

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