



EAST WEST UNIVERSITY

Department of Computer Science and Engineering

A/2, Jahurul Islam Avenue, Jahurul Islam City, Aftabnagar, Dhaka-1212 Fall 2024 Semester

“Mini Project on Floor Plan”

Submitted By:

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ID: 2023-3-60-618 (CSE)

Course Code : CSE 200

Course Title : Computer-Aided Engineering Drawing Section : 10

Instructor:

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Submission Date :

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Project Title: Residential Floor Plan Design in AutoCAD

Objective:

Designed a complete floor plan for a single-story residential building using AutoCAD. The floor plan included all required dimensions, room labels, walls, doors, windows, and furniture placement in a simplified wireframe format.

Instructions and Requirements:

1. Project Specifications:

➤ Designed a **single-story house** with the following rooms:

- **Living Area**
- **3 Bedrooms (1 Master bedroom , 2 Bedrooms)**
- **Kitchen**
- **Dining Area**
- **2 Toilet (1 Attached , 1 common)**
- **2 Balcony**
- **Study Space**

2. Dimensions:

- Total house area: **1650 square feet (approx. 33' x 50')**.
- **Wall thickness:** Interior walls = **6 inches**, exterior walls = **10 inches**.

3. Room Dimensions:

- Living Area: **15' x 24'1"**
- Bedroom 1 (Master): **13' x 13'**
- Bedroom 2: **12' x 12'**
- Bedroom 3: **11' x 11'**
- Toilet 1 : **8' x 8'5"**
- Toilet 2: **10' x 9'**
- Study Space: **7' x 10'**
- Kitchen: **11' x 12'**
- Dining Area: **11' x 20'6"**
- Balcony 1: **4' x 12'**
- Balcony 2: **4' x 11'**

4. Doors and Windows:

- **Main Entrance Door:** Width = **5 feet**, Height = **7 feet**.
 - **Interior Doors:** Width = **3 feet**, Height = **7 feet**.
 - **Toilet Door:** Width = **2.5 feet**, Height = **7 feet**.
 - **Balcony Door:** Width = **3 feet**, Height = **7 feet** .
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- **Windows:**
 - Living Room: **1 window, each 4' x 4'.**
 - Dining Room: **1 window, 4'x4'.**
 - Bedrooms: **2 windows per room, each 3' x 4'.**
 - Kitchen: **1 window, 3' x 3'.**
 - Toilets: **2 small windows, 2' x 2'.**

5. Furniture Placement:

- Living Room: Sofa set, a center table, lamp, phone-desk .
- Bedrooms: Bed, lamp, Plants, Wall cabinets.
- Dining Area: Dining table with 6 chairs, plant, Wall cabinet.
- Kitchen: Range-oven, sink double, Refrigerator.
- Toilet: Bathtub, Toilet top, sink.

6. Annotations:

- Labeled all rooms clearly with their names and dimensions.
- Included **north south east west direction** .
- Used appropriate **line weights** for walls, doors, and windows to differentiate elements.

Sample Figure:



