



**SAI CADD**



A report on  
**One Week**  
**Hands on training programme**  
on  
***BIM with Revit Architecture***

**Organized by**

**Department of Civil Engineering**

**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**

(Autonomous Institute, Affiliated to VTU)

In association with

**Indian Green Building Council**

**INVITED SPEAKER**

**Mr. MANJUNATH REDDY,**

Proprietor – SAI CADD , BENGALURU, KARNATAKA

**Coordinators**

**Prof. ARJUN K,**

Assistant Professor, Department of Civil Engineering, BMSCE

**Prof. PRAKASH T B,**

Assistant Professor, Department of Civil Engineering, BMSCE

## **Introduction**

The BMS College of Engineering (BMSCE), Bangalore, organized a One Week Hands-on Training Program on BIM with Revit Architecture for IV Semester Civil Engineering students. The program was conducted from 12th March to 17th March 2026, aiming to equip students with modern digital tools used in the construction and design industry.

In recent years, Building Information Modeling (BIM) has become a vital component of civil engineering, enabling professionals to design, visualize, and manage building projects efficiently.

Recognizing this, the Department of Civil Engineering took the initiative to introduce students to BIM through practical exposure using Revit Architecture.

The program was conducted under the guidance of Hon Dr. M. Manjunatha Reddy, a renowned expert and Proprietor of SAI CADD, who brought valuable industry insights into the training sessions.

## **Objectives of the Program**

The primary objectives of the training program were:

- To introduce students to Building Information Modeling (BIM) concepts.
- To develop practical skills in Revit Architecture software.
- To enable students to create 2D and 3D building models.
- To familiarize students with real-world construction workflows.
- To enhance visualization, documentation, and coordination skills.
- To prepare students for industry requirements and job opportunities.

The program focused not only on software learning but also on developing problem-solving skills, design thinking, and collaborative project handling.

## **Program Details & Organization**

Duration: 6 Days

Dates: 12th March – 17th March 2026

Timings: 9:00 AM – 5:00 PM

Venue: CAD Lab & BSN Hall, PG Block

Resource Person: Hon Dr. M. Manjunatha Reddy (SAI CADD)

Faculty Coordinators: Prof. K Arjun, Prof. Prakash T B

Institution Leadership: Principal: Dr. Bheemsha Arya

Vice Principal (Admn.): Dr. Seshachalam D, Vice Principal (Academic): Dr. Ravikumar L

HOD: Dr. Sureka Naagesh

The program was well-coordinated and systematically executed, ensuring maximum participation and engagement from students.

## Day-wise Activities

### **Day 1: Introduction to BIM & Revit**

- Overview of BIM concepts and industry applications
- Introduction to Revit interface
- Basic navigation and tool usage
- Creation of simple building layouts

### **Day 2: Architectural Modeling Basics**

- Creating floor plans and grids
- Designing walls, doors, and windows
- Understanding levels and elevations
- Basic annotations

### **Day 3: Advanced Modeling**

- Roofs, stairs, and components
- Families and parametric elements
- 3D visualization techniques

### **Day 4: Documentation & Rendering**

- Generating construction drawings
- Creating schedules and quantities
- Applying materials and lighting
- Rendering realistic images

### **Day 5: Collaboration & BIM Workflow**

- Worksharing concepts
- Linking models
- Coordination between teams
- Industry case studies

### **Day 6: Final Project & Presentation**

- Completion of student projects
- Model presentation by students
- Feedback from resource person
- Discussion on career opportunities

## **Student Work & Outcomes**

During the program, students successfully completed:

- **Residential building models**
- **Detailed floor plans and elevations**
- **3D rendered views**
- **Construction documentation sheets**

### **Skills Gained:**

- Proficiency in **Revit Architecture**
- Understanding of **BIM workflow**
- Improved **design and visualization skills**

## **Post-Program Impact & Feedback**

The program had a significant impact on students:

- Increased confidence in using **engineering software**
- Better understanding of **modern construction practices**
- Improved readiness for **internships and placements**
- Enhanced **teamwork and collaboration skills**

### **Conclusion**

The **One Week Hands-on Training Program on BIM with Revit Architecture** was a great success. It provided students with practical exposure to modern tools used in civil engineering and architecture.

The collaboration with **SAI CADD** and the expert guidance of **Dr. M. Manjunatha Reddy** made the program highly effective and industry-relevant.

Such initiatives play a crucial role in bridging the gap between **academic learning and industry requirements**, ensuring students are well-prepared for their professional careers

### **Attachments:**

1. **Event Brochure**
2. **Student Feedback Highlights**
3. **Photo gallery**
4. **Sample certificate**
5. **Students work**



# BMS COLLEGE OF ENGINEERING

Address: P.O. Box No.: 1908 Bull Temple Road,  
Bangalore - 560 019 Karnataka, India.



## One Week Hands - on Training Program on **BIM with Revit Architecture**

for IVth Sem Civil Engg. Students (2025 - 2026)

ORGANIZED BY

Department of Civil Engineering, BMSCE



**Venue :**

CAD Lab & BSN Hall, PG Block, BMSCE Campus

**Schedule :**

12th March to 17th March 2026  
9:00 am - 5:00 pm

Resource Person :

**Hon Dr. M. Manjunatha Reddy**, Proprietor, SAI CADD

Co-ordinators  
**Prof. K Arjun**  
**Prof. Prakash T B**

HOD  
**Dr. Sureka Naagesh**

Vice Principal (Admn.)  
**Dr. Seshachalam D**

Principal  
**Dr. Bheemsha Arya**

Vice Principal (Academic)  
**Dr. Ravikumar L**



**SAI CADD**

No : 131, 2nd Floor, 1st Main, 2nd Stage, Kengeri Satellite Town, (next to Union Bank of India) Bangalore - 560 060. INDIA

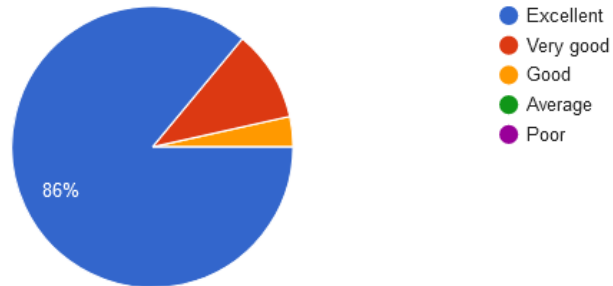
Cell : 99019 95109 / 93413 46619 / Email : manju@saicadd.com

## Student Feedback Highlights:

### Overall Experience

86 responses

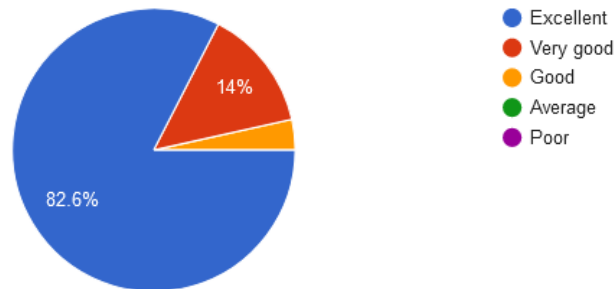
 [Copy chart](#)



### Effectiveness of lectures:

86 responses

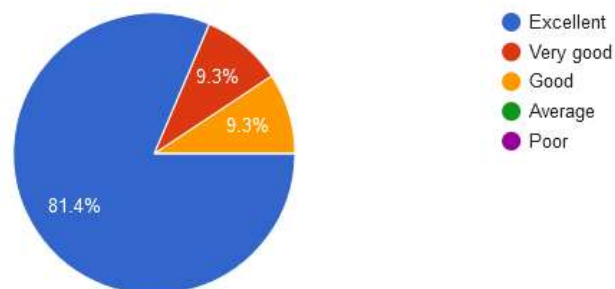
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### Clarity and delivery of instructors

86 responses

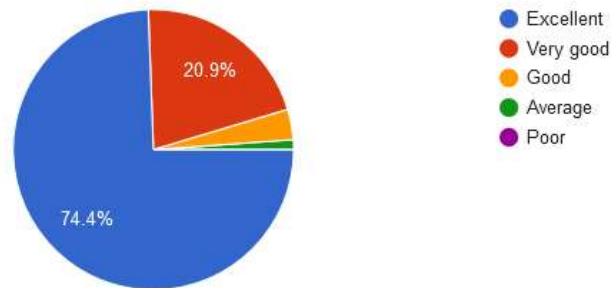
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### Ability to create and manage building models using Revit

[Copy chart](#)

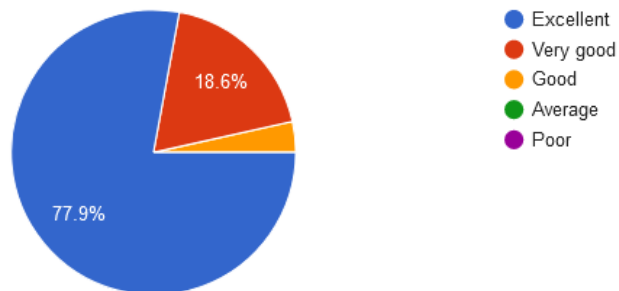
86 responses



### Skills in project visualization and collaboration using Revit

[Copy chart](#)

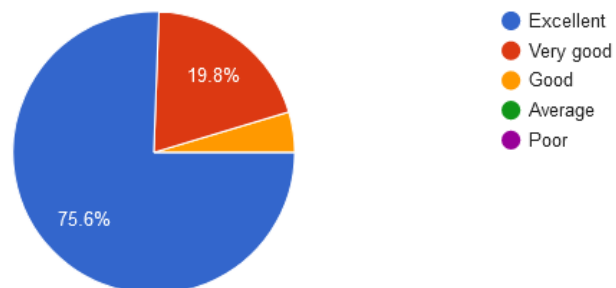
86 responses



### Adequacy of time allocated for lectures and hands-on sessions:

[Copy chart](#)

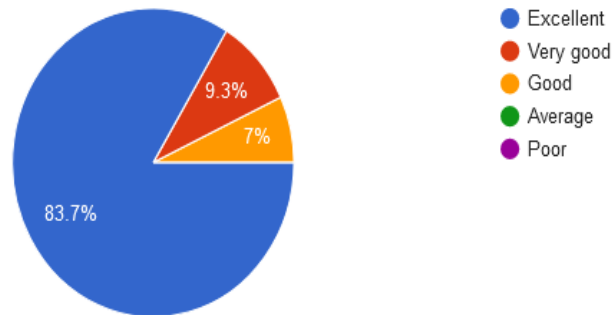
86 responses



### Communication and coordination by organizers

[Copy chart](#)

86 responses



### Objectives achieved:

[Copy chart](#)

Our objectives for this workshop are :

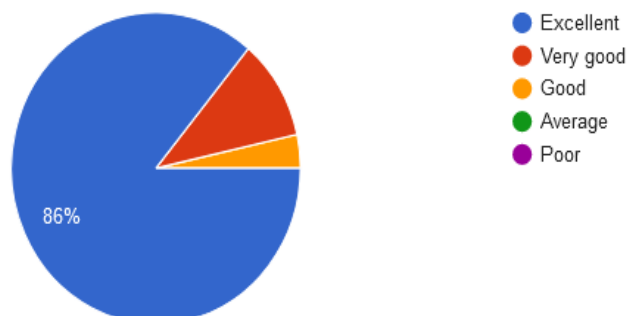
To introduce you to the fundamentals of BIM and Revit Architecture.

To provide hands-on training on creating and managing building models.

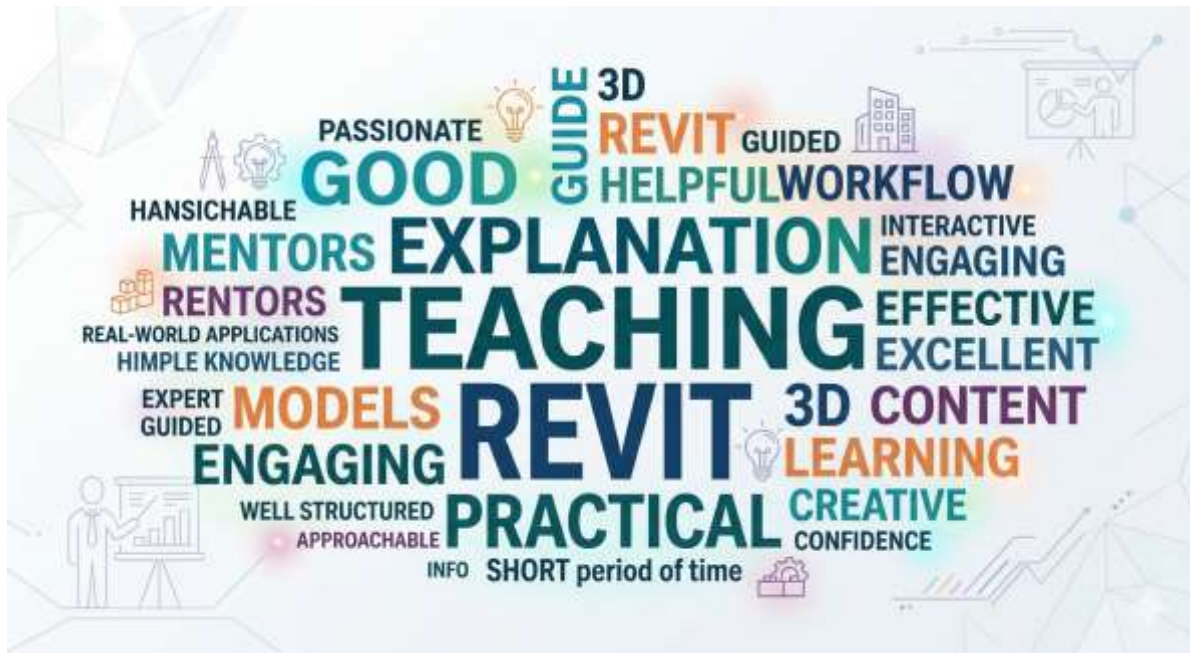
To engage you in practical exercises on project visualization using Revit.

To enhance your skills to meet industry standards and requirements.

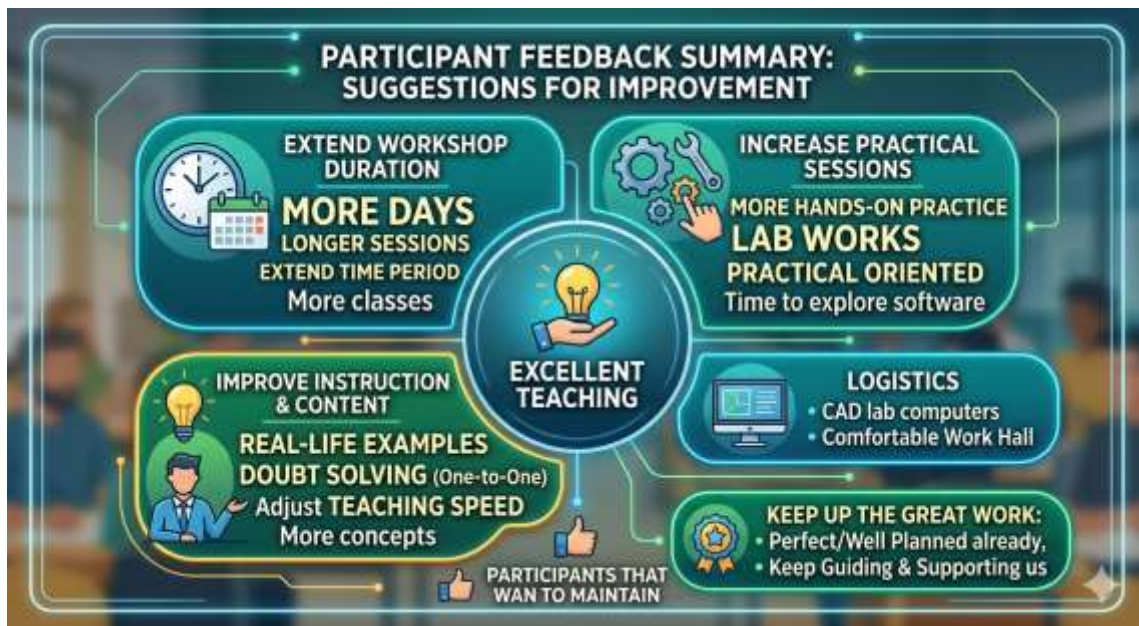
86 responses



**What did you like most about the workshop?**



**What improvements would you suggest for future workshops?**



**Do you want the workshop like this to be continued for you in coming up days?**



## Gallery



## Group Photo

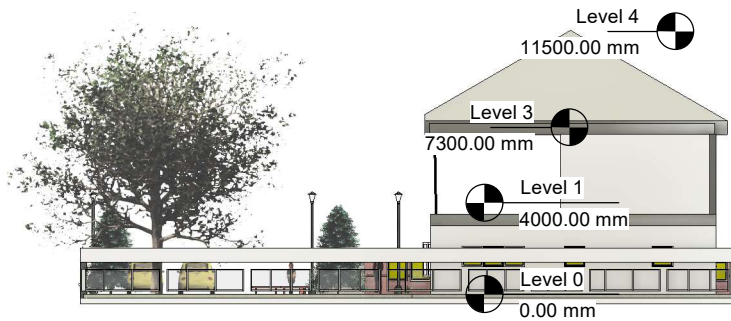


## Sample certificate

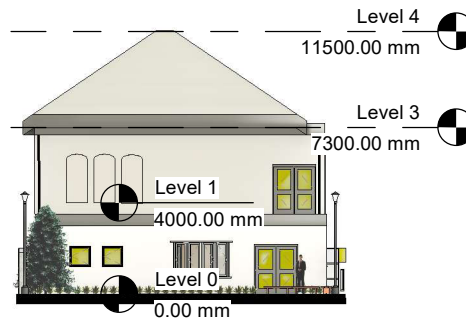


Over leaf

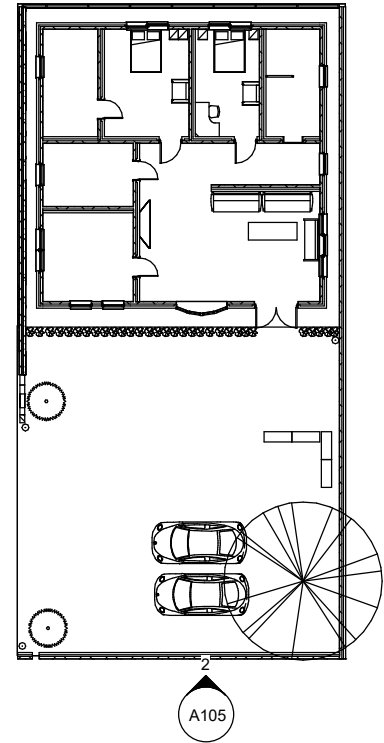
**Sample student works  
attached for reference**



1 East  
1 : 200



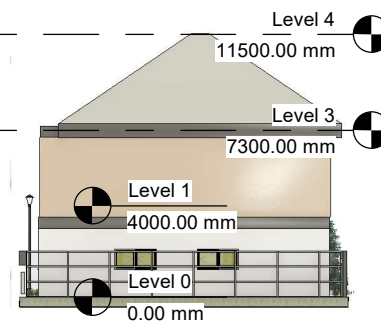
2 South  
1 : 200



5 Level 0  
1 : 200



3 3D View 4



4 North  
1 : 200

Project number		Project Number	<b>A105</b>
Date		Issue Date	
Drawn by		Author	
Checked by		Checker	
Scale			1 : 200



**SAI CADD**

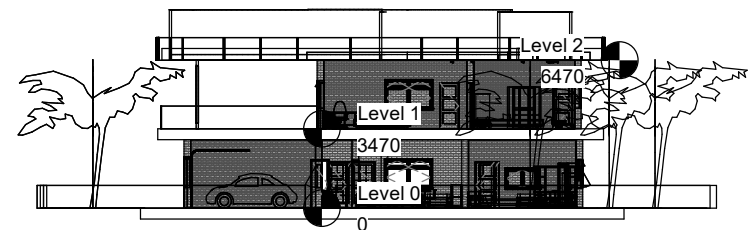
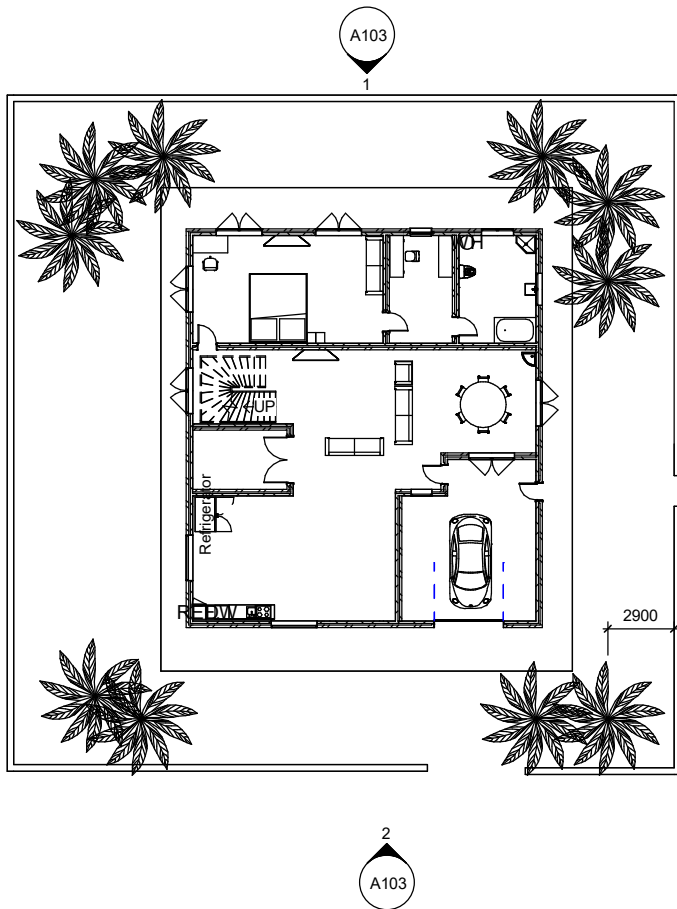
[www.autodesk.com/revit](http://www.autodesk.com/revit)

No.	Description	Date

BMSCE:-1BM25CV402

SEC:-A

CHANDRAKANT B PATIL




**BMS COLLEGE OF ENGINEERING**  
 Department of Civil Engineering

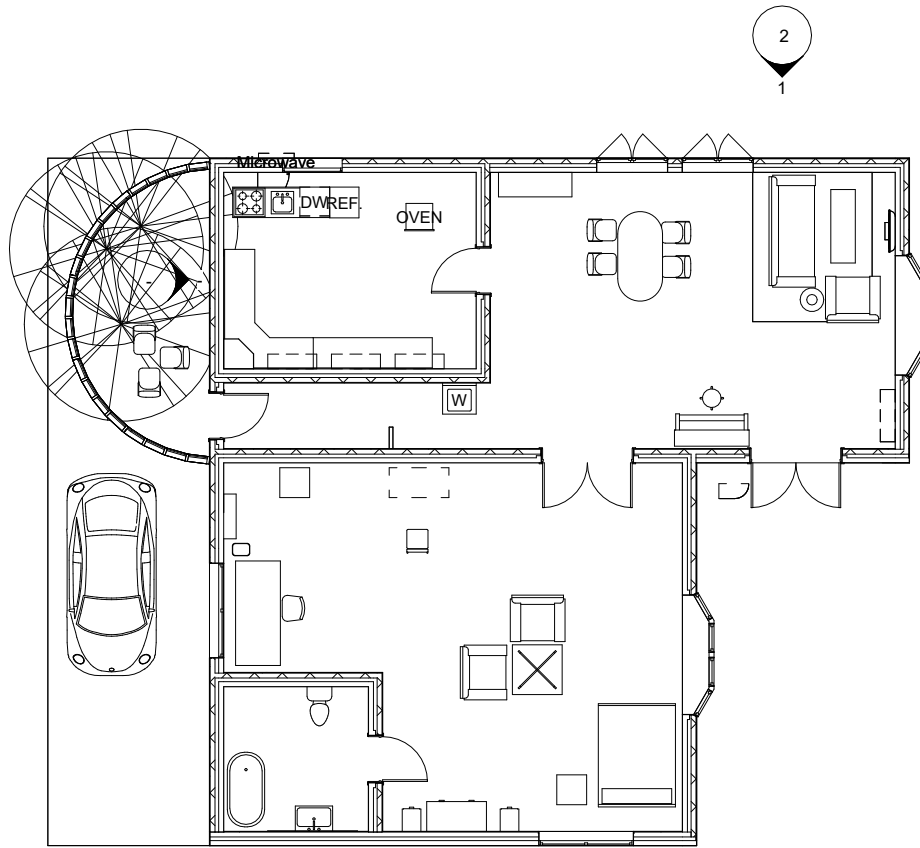

**SAI CADD**

No.	Description	Date

Owner

jeevan constructs

jeevan		<b>A109</b>
Project number	Project Number	
Date	Issue Date	
Drawn by	Author	
Checked by	Checker	Scale
		1 : 200



**1** Level 0  
1 : 100

Window Schedule						
Count	Family and Type	Head Height	Height	Sill Height	Width	Level
1	Window-Fixed-Round: 48" Diameter	3004.75 mm	1219.20 mm	1785.55 mm	1219.20 mm	Level 0
1	Window-Bay-Casement-30_Degree_Angle: 96" x 60" x 14"	2618.35 mm	1524.00 mm	1094.35 mm	2438.40 mm	Level 0
1	Window-Casement-Double-Awning-Double: 57" x 72"	2743.20 mm	1828.80 mm	914.40 mm	1447.80 mm	Level 0
1	Window-Casement-Double-Awning-Double: 57" x 72"	2743.20 mm	1828.80 mm	914.40 mm	1447.80 mm	Level 0
1	Window-Bay-Casement-30_Degree_Angle: 96" x 60" x 14"	2449.65 mm	1524.00 mm	925.65 mm	2438.40 mm	Level 0
1	Window-Single-Hung-Double: 76" x 62"	2870.58 mm	1574.80 mm	1295.78 mm	1930.40 mm	Level 0
1	Window-Louvers: 24" x 24"	3709.60 mm	609.60 mm	3100.00 mm	609.60 mm	Level 0
1	Window-Single-Hung-Double: 76" x 62"	2963.16 mm	1574.80 mm	1388.36 mm	1930.40 mm	Level 0

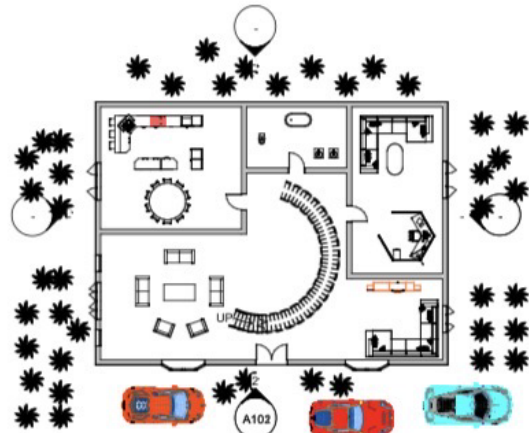


www.autodesk.com/revit

**PRINAKA NAG**  
**1BHK**

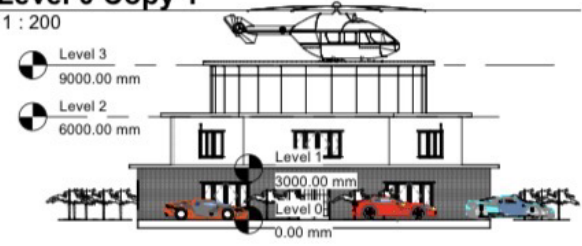
No.	Description	Date

PRINAKA NAG		
Project number	01	<b>1</b>
Date	18/03/2026	
Drawn by	PRINAKA NAG	
Checked by	KASI ARJUN SIR	
Scale		1 : 100



**1 Level 0 Copy 1**

1 : 200



**2 South Copy 1**

1 : 200

<https://www.bmsce.ac.in>

No.	Description	Date

Sritesh R  
1BM24CV041

Project number		Project Number		A102
Date		Issue Date		
Drawn by		Author		
Checked by		Checker		
		Scale		As indicated

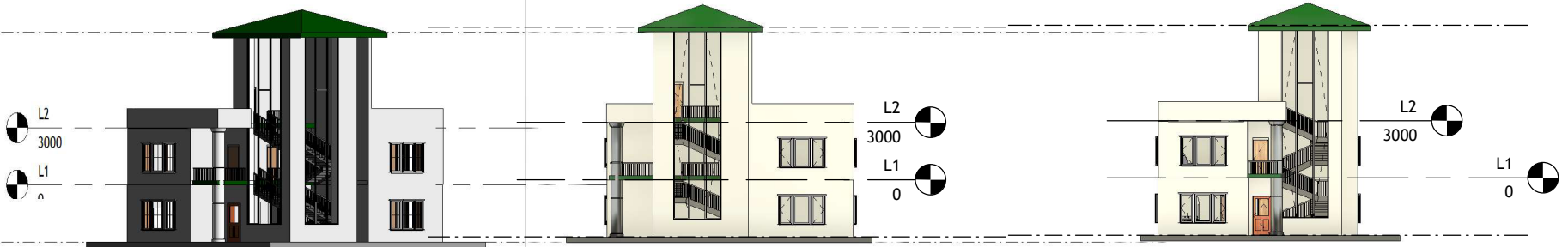
**3 -3D- 2 Copy 1**

1 : 1



Window Schedule				
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1	M_Window-Bay-Casement-30_Degree_Angle: 2500 x 1500 x 350mm	1500.00 mm	519.57 mm	2500.00 mm
1	M_Window-Fixed-Pentagon: 950 x 1400mm	1400.00 mm	900.00 mm	950.00 mm
1	M_Window-Fixed-Pentagon: 950 x 1400mm	1400.00 mm	900.00 mm	950.00 mm

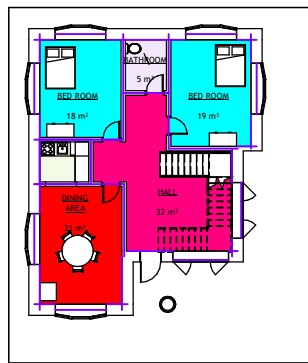
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1 {3D}

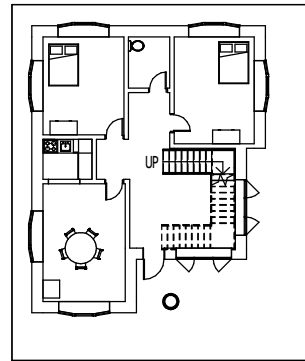
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1 : 200

3 South Architectural Building Elevation  
1 : 200

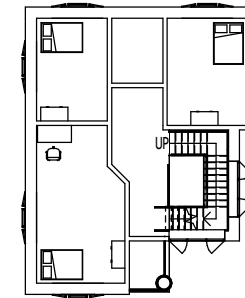


4 GROUND FLOOR AREA  
1 : 200

- Area
- BATHROOM
- BED ROOM
- DINING AREA
- HALL



5 GROUND FLOOR AREA  
1 : 200



6 FIRST FLOOR  
1 : 200



B.M.S. COLLEGE OF ENGINEERING  
Bull Temple road, Basavanagudi, Bengaluru,  
Karnataka-560019

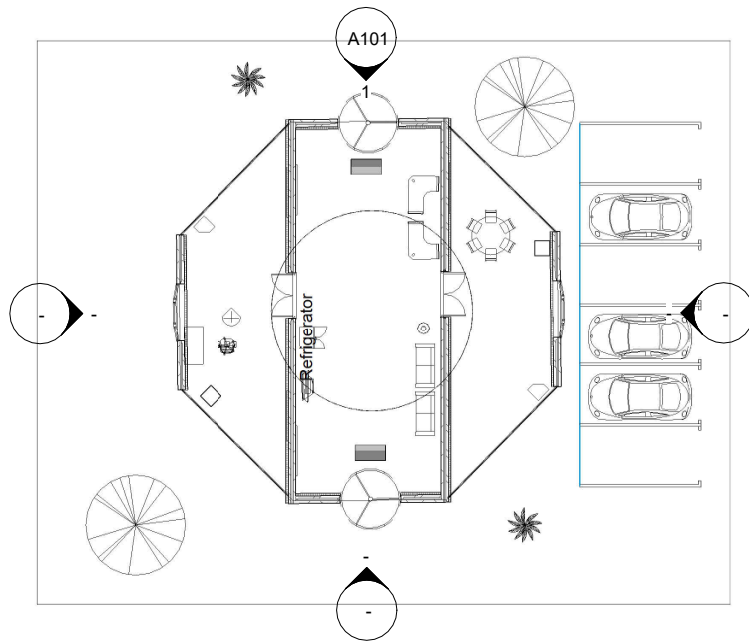
MEHRAN SHABIR  
USN: 1BM24CV063



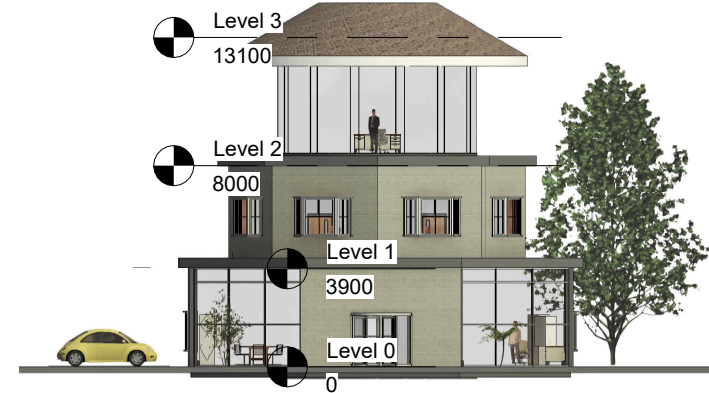
RESIDENTIAL BUILDING

Project number 1  
Date 4/16/2026  
Department CIVIL  
Checked by KASI ARJUN SIR Scale 1 : 200

North  
1 : 200



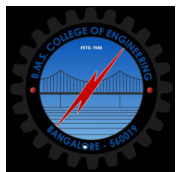
Level 0  
1 : 200



{3D}

View List

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Level 0		200		Ceiling Plan: Ceiling Plan
Level 1		100		Floor Plan: Floor Plan
Level 1		200		Ceiling Plan: Ceiling Plan
North		200	A101	Elevation: 12mm Circle
East		100		Elevation: 12mm Circle
South		100		Elevation: 12mm Circle
West		100		Elevation: 12mm Circle
Site		100		Floor Plan: Floor Plan
{3D}		200	A101	3D View: 3D View
Level 2		100		Floor Plan: Floor Plan
Level 2		100		Ceiling Plan: Ceiling Plan
Level 2		100		Structural Plan: Structural Plan
Level 3		100		Floor Plan: Floor Plan
Level 3		100		Structural Plan: Structural Plan
3D View 1				3D View: 3D View



AYUSH RAMESH P

AYUSH RAMESH P

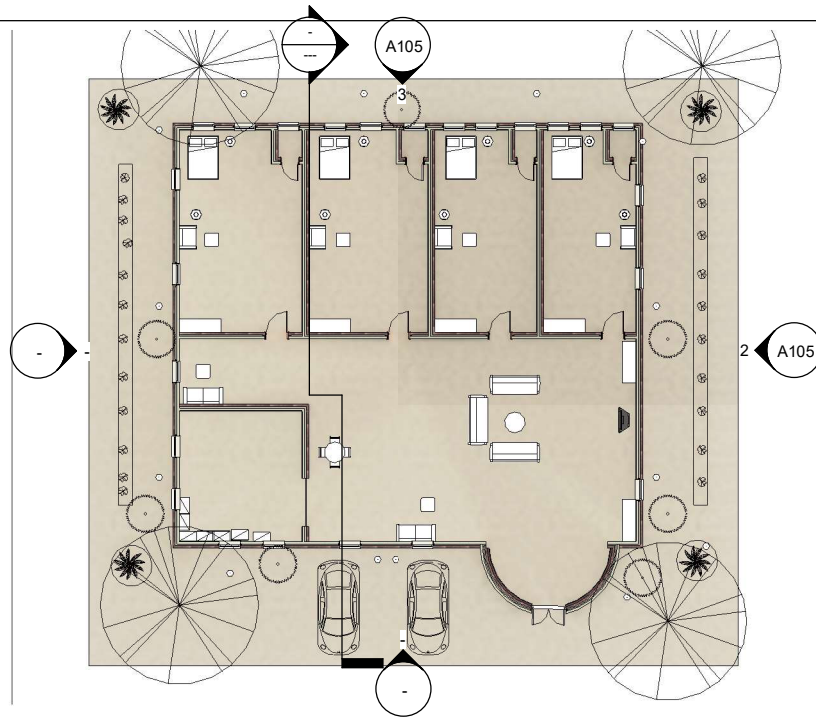
OFFICE TOWER

1BM24CV019

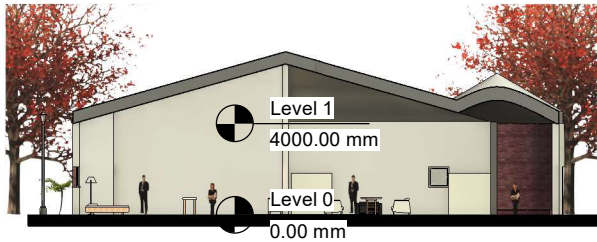
Scale

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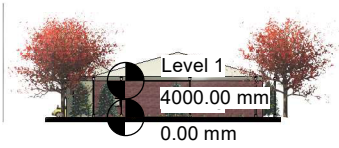




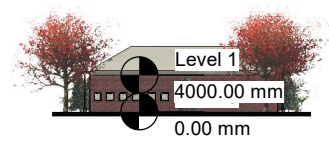
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**4** Section 2  
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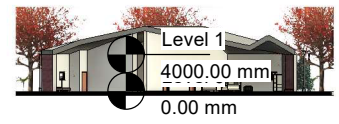


**2** East  
1 : 500



**3** North  
1 : 500

View List					
View Name	Title on Sheet	Scale Value	1:	Sheet Number	Family and Type
Level 0		200		A105	Floor Plan: Floor Plan
Level 0		100			Ceiling Plan: Ceiling Plan
Level 1		100			Floor Plan: Floor Plan
Level 1		100			Ceiling Plan: Ceiling Plan
North		500		A105	Elevation: 12mm Circle
East		500		A105	Elevation: 12mm Circle
South		500			Elevation: 12mm Circle
West		500			Elevation: 12mm Circle
Site		100			Floor Plan: Floor Plan
{3D}		100			3D View: 3D View
Section 1		500		A105	Section: Building Section
Section 2		200		A105	Section: Building Section
Section 3		500		A105	Section: Building Section
3D View 1					3D View: 3D View
3D View 2					3D View: 3D View
3D View 3					3D View: 3D View
3D View 4					3D View: 3D View
Section 4		500			Section: Building Section
Level 0		100			Area Plan: Rentable
Level 1		100			Area Plan: Rentable





**5** Section 3  
1 : 500



**6** Section 1  
1 : 500





**B.M.S College of Engineering**  
 (Autonomous Institute under VTU)  
 Estd. 1946


  
 www.autodesk.com/revit

No.	Description	Date

**CHETHAN.S**  
**1BM25CV403**  
**4BHK**

		<b>A105</b>	
Project number	Project Number		
Date	Issue Date		
Drawn by	Author		
Checked by	Checker	Scale	As indicated