



# SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved University)

GURGAON, Delhi-NCR

**Faculty of Engineering & Technology**

**Department of Civil Engineering**

**“AutoCAD: A Way to Entrepreneurship”**

**in association with EYE ON STRUCTURES™**

**Under the aegis of “AET”**

**Type of Event: Workshop**

**Date: 24<sup>nd</sup> January, 2022 to 31<sup>st</sup> January 2022**

**Time: 12.00 PM to 01:00 PM**

**Venue: Zoom Meeting**

**Organizer:**

Dr. Neeraj Saini, HOD & Assistant Professor, Department of Civil Engineering, FEAT

Dr. Kiran Devi, Assistant Professor, Department of Civil Engineering, FEAT

Mr. Kaushal Sharma, Assistant Professor, Department of Civil Engineering, FEAT

Mr. Satyam Garg, Assistant Professor, Department of Civil Engineering, FEAT

**Objectives:**

AutoCAD is a computer-aided design (CAD) and drafting software application created by the company Autodesk. A range of professionals like architects, city planners, and graphic designers use it. AutoCAD has become one of the most widely used CAD programs worldwide. AutoCAD is an industry-leading commercial CAD software. AutoCAD is used by AEC (Architecture, Engineer, and Construction) to generate and optimize 2D and 3D designs.

**Following are the objectives of the workshop on AutoCAD:**

1. To enable the students for the following

- How to draw and take field measurements.
- Take data and turn it into visual representations.
- Understand the fundamentals of engineering drawing formats.
- Basic AutoCAD skills.
- How to draw 2D & 3D drawings in AutoCAD.

2. To motivate the students to work as entrepreneurs

- Enable students to start a CAD Drafting business.
- Enable students to become Freelancer as AutoCAD experts.

**About the Speaker/Guest:**

Ms. Khiradri Mahari and Ms. Trisha Singh Rajput, from EYE ON STRUCTURES.

**Audiences:**

Above 50 students from the Department of Civil Engineering, FEAT, SGT University & other participating universities/ institutes, attended the sessions on AutoCAD.

**Brief Report:**

The Department of Civil Engineering, FEAT, SGT University organized a one-week online workshop on “**AutoCAD: A way to Entrepreneurship**” from 24<sup>th</sup> January to 31<sup>st</sup> January 2022. The speaker started with the introduction of AutoCAD and its applications in the area of civil engineering such as Drawing, Modeling, etc. Speaker demonstrated the interface of AutoCAD for civil engineering followed by the introduction of the basic tools

and techniques of 2-D drawing. The various shortcut keys of drawing function and command keys in the drawing. The students learned about the limits for various functions, drawing and modification of various geometric shapes, i.e., circle, rectangle, line, polyline by different methods. The drafting, array, and annotation were demonstrated during the session.

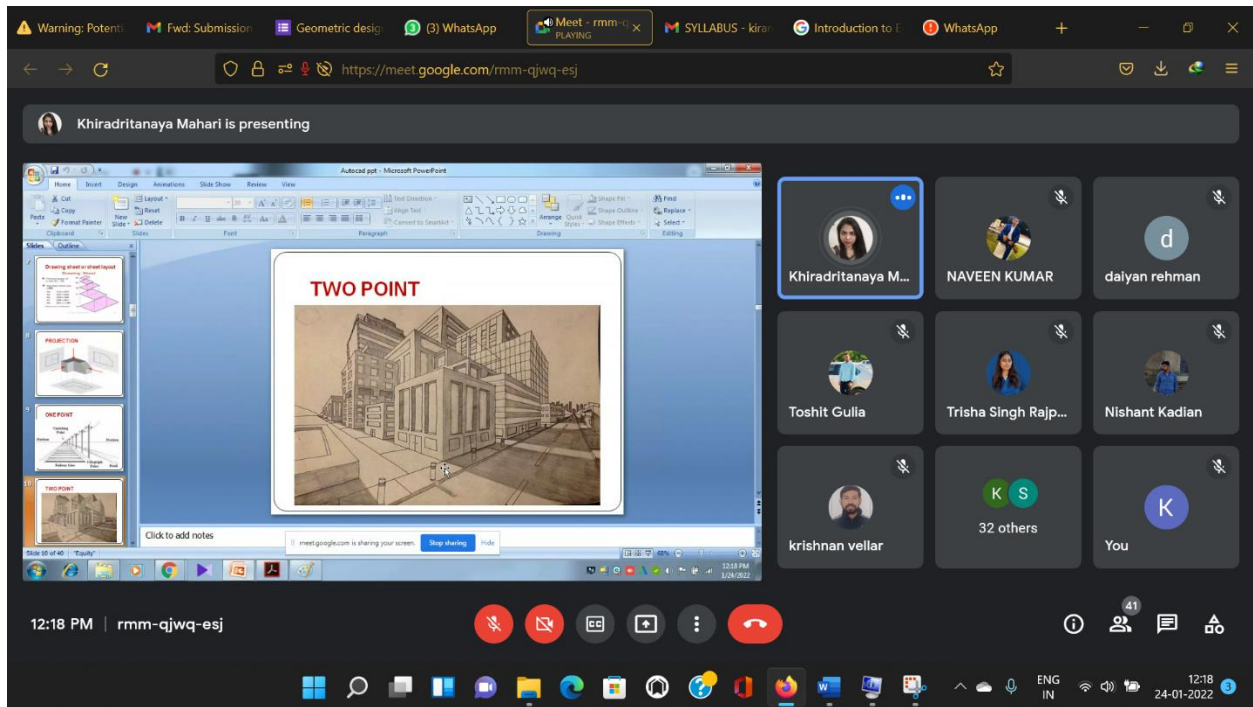
The various properties in AutoCAD, i.e., line, line type filters, line weight setting, paragraph, justification, bullets, numbering, insert, spell check, symbol, etc. were discussed as well. They also learned about the modification in geometric shapes, match properties, dimension style manager, and text addition. Students learned about how to draw blocks, changes in line width, and add color in lines and shapes. The expert discussed the different software used in the civil engineering fields. They also learned about the scale, layers, different tools, design center, change in color in structural shapes, and design. The structural engineer uses AutoCAD, STAAD Pro, ETABS, SAFE, SAP2000, Tekla Structural Engineer in the design and analysis of RCC building, steel structure, foundation, etc., and highway engineer use AutoCAD 2D, Civil 3D, and Revit Architecture for the design of pavements, etc.

**Learning Outcomes:** The webinar was able to make students learn about the basic commands, modifications in geometric shapes, and drawing. Also, students learned about drawing by taking field measurements and turning them into visual representations.

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Khiradritanaya Mahari is presenting

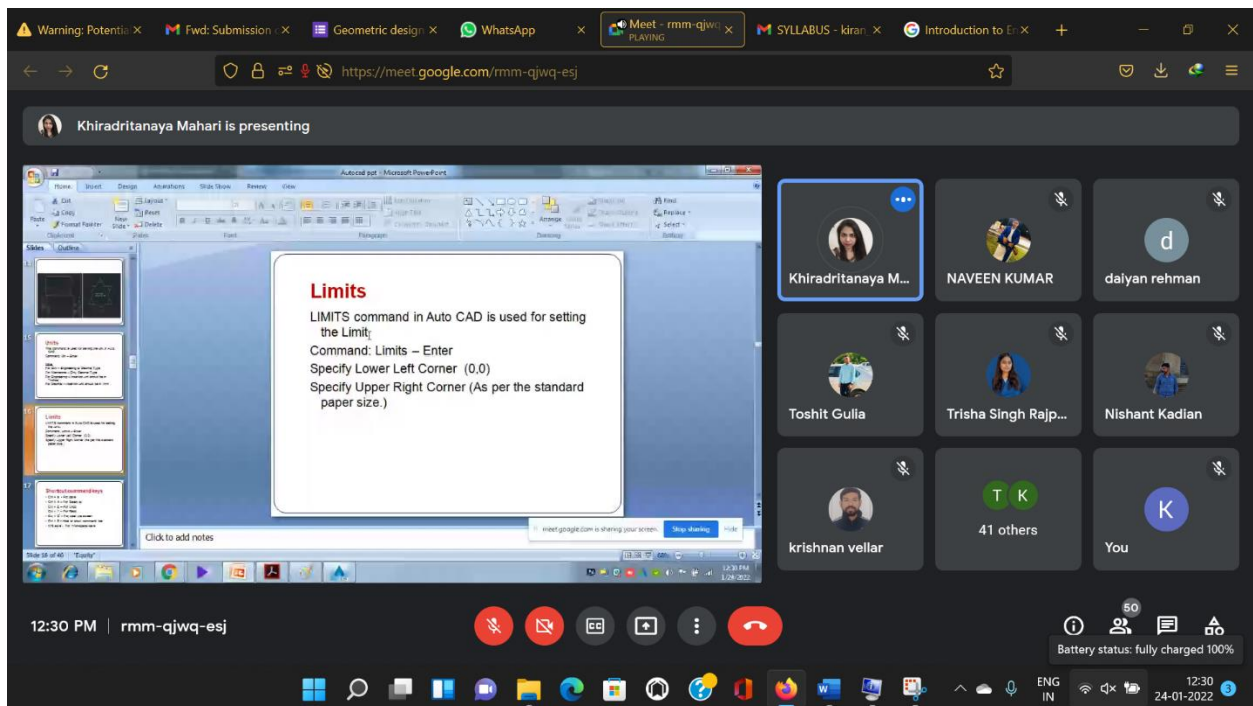


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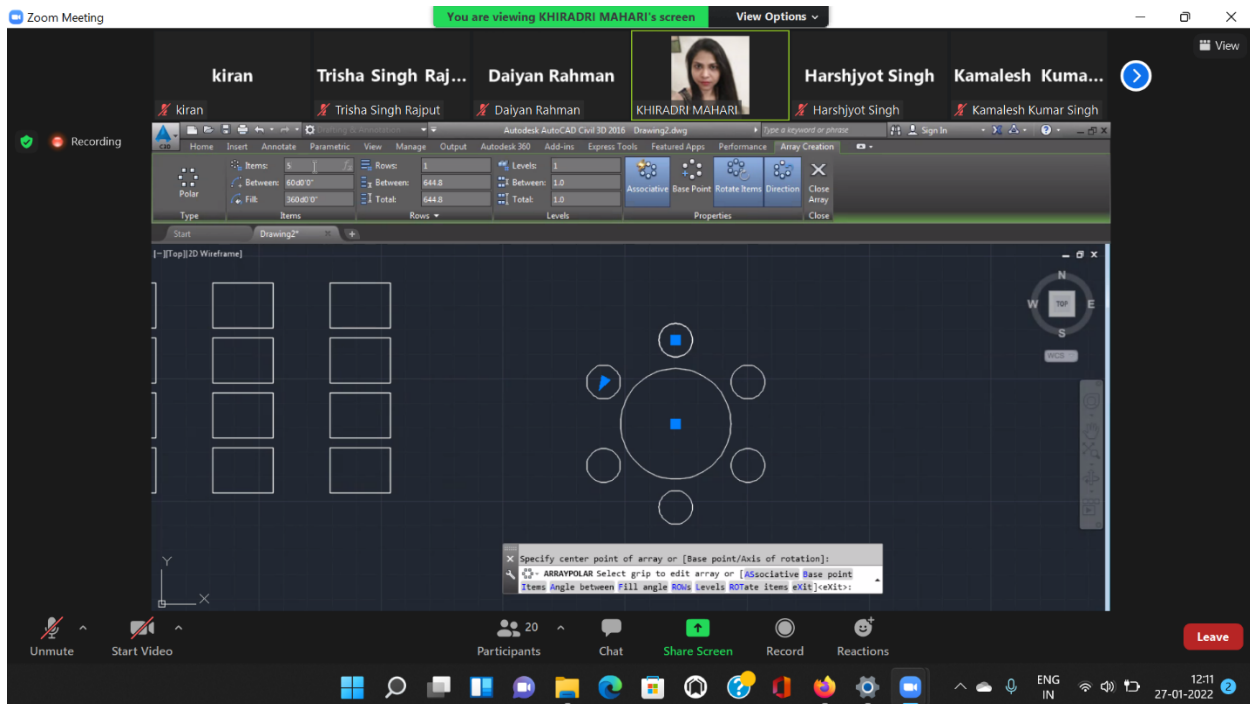
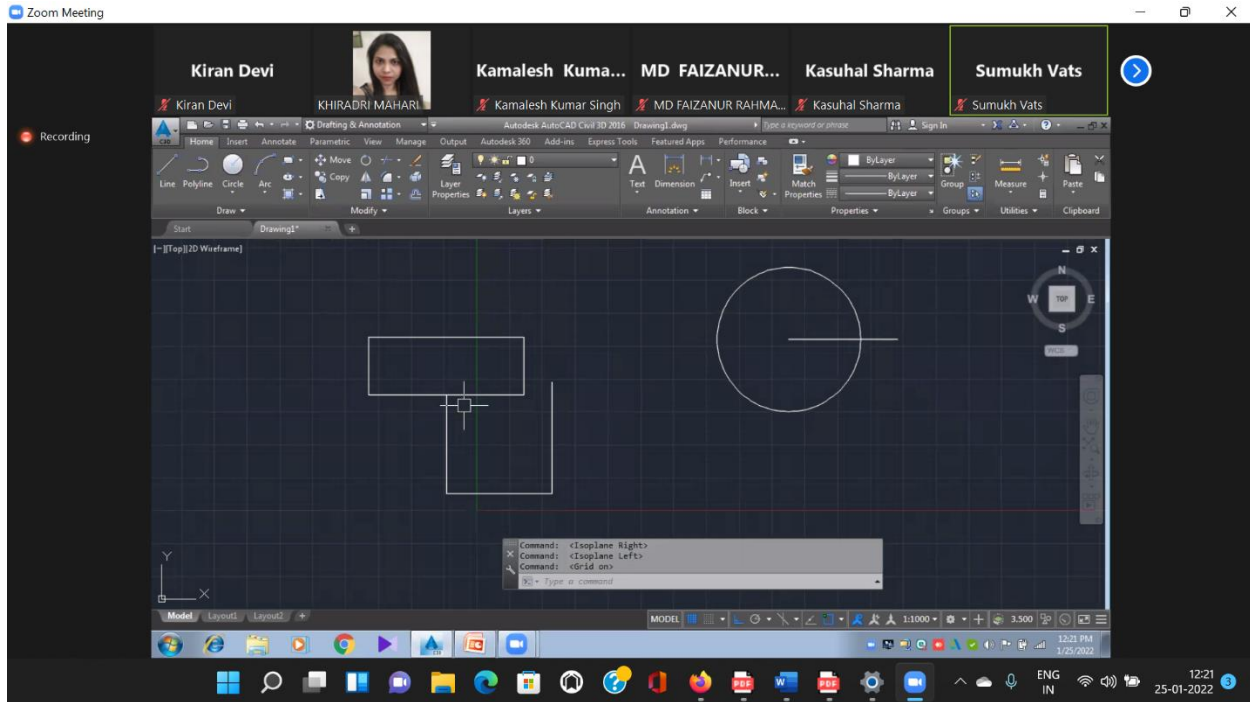
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Khiradritanaya Mahari is presenting



12:30 PM | rmm-qjwq-esj

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Autocad ppt - Microsoft PowerPoint

Home Insert Design Animations Slide Show Review View

Cut Copy Paste Format Painter Clipboard New Slide Reset Delete Slides Font Paragraph Drawing Shape Fill Shape Outline Shape Effects Find Replace Select Editing

Slides Outline

30 Array (Ar )

- Creates copies of objects arranged in a pattern or to create mass objects .
- There are 3types of Array in AutoCAD

Rectangular Polar Path

Click to add notes

Slide 30 of 41 Equity 68%

Zoom Meeting

kiran KHIRADRI MAHARI Karan Sharma Daiyan Rahman SUMUKH Vats ayush kothari

Recording

Autodesk AutoCAD Civil 3D 2016 Drawing2.dwg

Home Insert Annotate Parametric View Manage Output Autodesk 360 Add-ins Express Tools Featured Apps Performance

Draw Modify Layers Annotation Block Properties Groups Utilities Clipboard

[-]Top [2D Wireframe]

Modify Dimension Style Standard

First: Closed filled Second: Closed filled Leader: Closed filled Arrow size: 0.18 Center marks: None Mark 0.09 Dimension Break: Break size: 3.75

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Set Current New Modify Override Compare Close Help

12:40 PM 1/27/2022



Zoom Meeting You are viewing KHIRADRI MAHARI's screen View Options

kiran Karan Sharma Kamalesh Kuma... Daiyan Rahman ayush kothari KHIRADRI MAHARI

Recording

Autodesk AutoCAD Civil 3D 2016 Drawing1.dwg

Home Insert Annotate Parametric View Manage Output Autodesk 360 Add-ins Express Tools Featured Apps Performance

Draw Modify Layers Annotation Block Properties Groups Utilities Clipboard

Start Drawing1

[-] Top [2D Wireframe]

Linetype Manager

Linetype filters Show all linetypes Invert filter

Current Linetype: ByLayer

Linetype	Appearance	Description
ByLayer		
ByBlock		
CENTER		Center
CENTER2		Center (5x)
Continuous		Continuous
DASHDOT		Dash dot
DASHDOT2		Dash dot (5x)
FENCELINE2		Fence line square
HIDDEN		Hidden
PHANTOM		Phantom
PHANTOM2		Phantom (5x)

Load or Reload Linetypes

File: Load...

Linetype	Description
DASHDOT2	Dash dot (5x)
DASHDOT2X2	Dash dot (2x)
DASHED	Dashed
DASHED2	Dashed (5x)
DASHEDX2	Dashed (2x)
DIVIDE	Divide
DIVIDE2	Divide (5x)

Displays the linetypes available to load. To select or clear all of the linetypes on the list, right-click and choose Select All or Clear All.

OK Cancel Help

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Unmute Start Video Participants Chat Share Screen Record Reactions Leave

ENG IN 12:12 28-01-2022

Zoom Meeting You are viewing KHIRADRI MAHARI's screen View Options

kiran Karan Sharma Kamalesh Kuma... Daiyan Rahman ayush kothari KHIRADRI MAHARI

Recording

Autodesk AutoCAD Civil 3D 2016 Drawing1.dwg

Home Insert Annotate Parametric View Manage Output Autodesk 360 Add-ins Express Tools Featured Apps Performance

Draw Modify Layers Annotation Block Properties Groups Utilities Clipboard

Start Drawing1

[-] Top [2D Wireframe]

Lineweight Settings

Lineweights

0.60 mm
0.70 mm
0.80 mm
0.90 mm
1.00 mm
1.06 mm
1.20 mm

Units for Listing: Millimeters (mm) Inches (in)

Display Lineweight

Default: 0.25 mm

Adjust Display Scale: Min Max

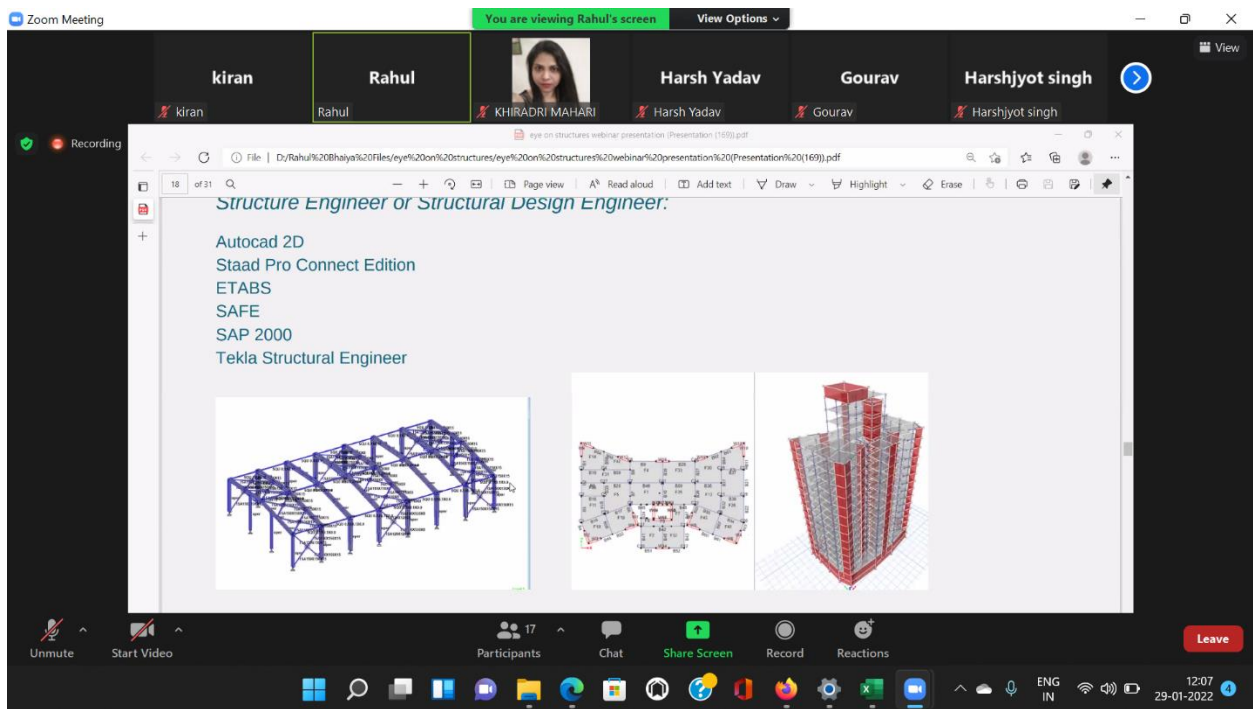
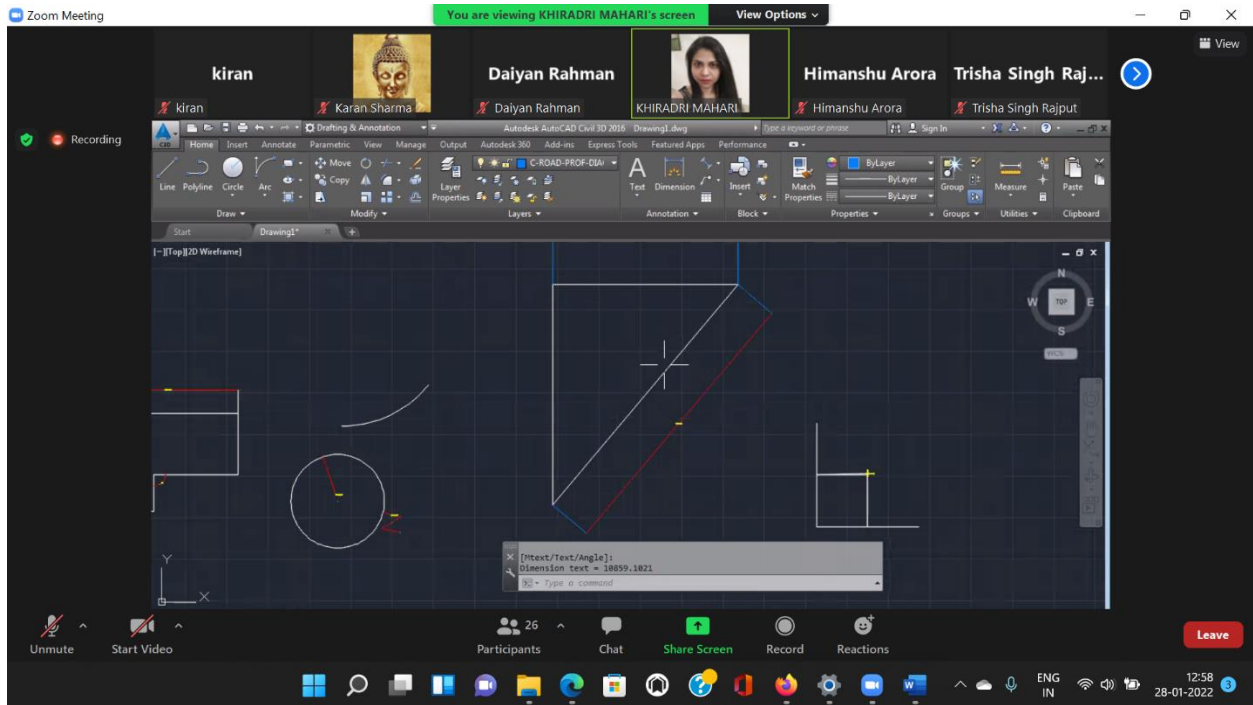
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OK Cancel Help

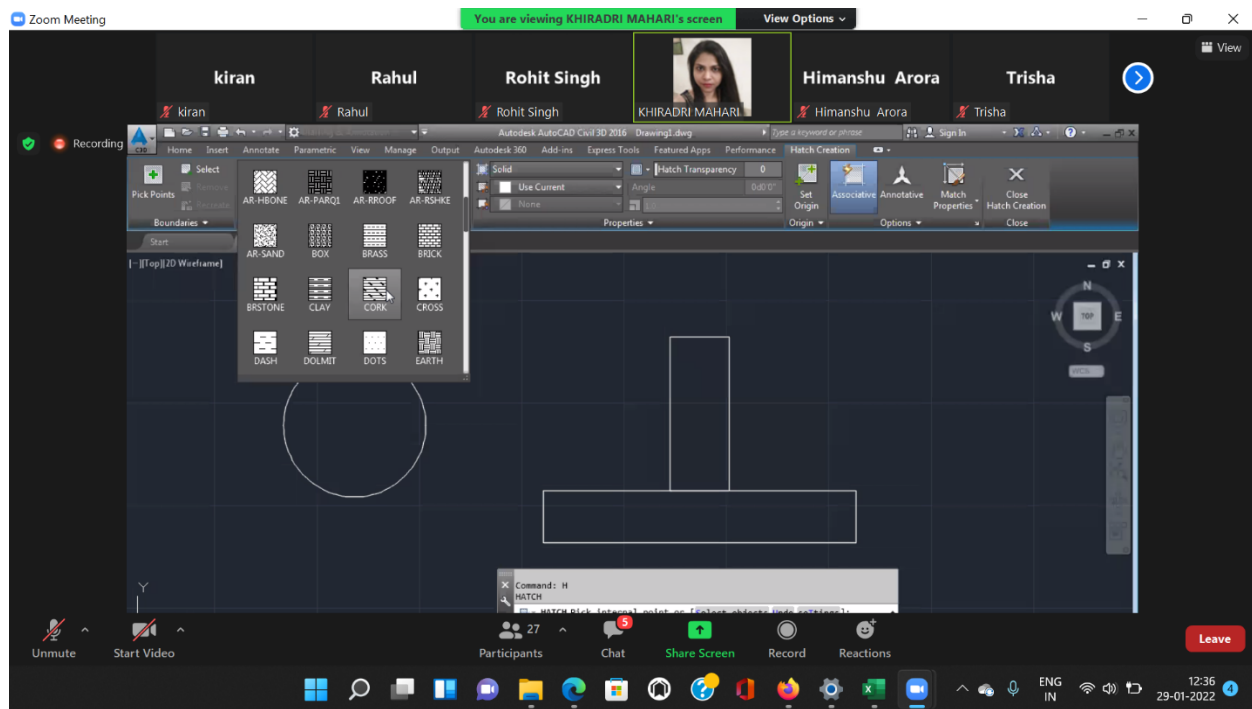
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30 Type a command

Unmute Start Video Participants Chat Share Screen Record Reactions Leave

ENG IN 12:15 28-01-2022







**The workshop was focused on the drawing of shapes and blocks and modification by different methods.**

## **List of students**

- 1. Nithin Veludandi- Manav Rachna International Institute of Research & Studies**
- 2. Lakshay- Manav Rachna International Institute of Research & Studies**
- 3. Archit Garg- Manav Rachna International Institute of Research & Studies**
- 4. Prachi Aggarwal- Manav Rachna International Institute of Research & Studies**
- 5. Reetika- BVCOE, New Delhi**
- 6. Heera Lal- SKITM, ladrawan Jhajjar**
- 7. Ashu- SKITM, ladrawan Jhajjar**
- 8. 201301003-Harshjyot Singh**
- 9. 201316007- Divyanshu Chandra**
- 10. 191301006-Archit**
- 11. 201301003-Randeep**
- 12. 201316014-Rajesh**
- 13. 181301001-Nishant**
- 14. 201316016-Krishnan M**
- 15. 201316009-Paras**
- 16. 201316006-Rahul Rajput**
- 17. 211316007-Mahipal Singh**
- 18. 201316001- Lokesh**
- 19. 181301006-Himanshu Arora**
- 20. 201316026-Md. Faizanur Rahman**
- 21. 191301004-Anmol**
- 22. 201316031-Praveen Kumar**
- 23. Manoj Kumar Yadav**
- 24. 201301001-Sumukh**
- 25. 201316018-Monali Bose**
- 26. 191301005-Tushar Dhillon**
- 27. 211316003-Brichard Godwin Robort**

28. 201301005-Shubham
29. 191301002-Gourav
30. 201316022-Shogufta Mustaq
31. 191301001-Ankit Singh
32. 201316027-Neeraj Yadav
33. 201316017-Kavita Negi
34. 211316010-Karan Sharma
35. 201316033-Tushar
36. 201316008-Girish Saini
37. 1913016007-Shreshth
38. 211316005-Kamalesh Kumar
39. 201316030-Sumit Satija
40. 211316004-Vikas Hooda
41. 201316010-Pankaj Singh
42. 181301011-Toshit Gulia
43. 201316023-Satyam Aggarwal
44. 201316002-Nikhil Yadav
45. 211316015- Rohit Singh
46. 211316014-Ayush kothari
47. 211316007-Rahul Yadav
48. 211316016-Harsh Yadav
49. 201316011-Monika Chaudhary
50. 181301009-Deepak Dahiya

A handwritten signature in black ink, appearing to read 'Reem', with a long horizontal line drawn underneath it.