



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul 624 002

Date: 10.01.2020

CIRCULAR

It is planned to conduct Value Added Course for II year students by Department of Civil Engineering along with CADD technologies school of design Pvt. Ltd.

S.No	Year	Name of the Course	Period	No. of days
1.	II Year	AUTO CAD	20.01.20 to 24.01.20	5 days


Faculty In-charge


HoD/Civil

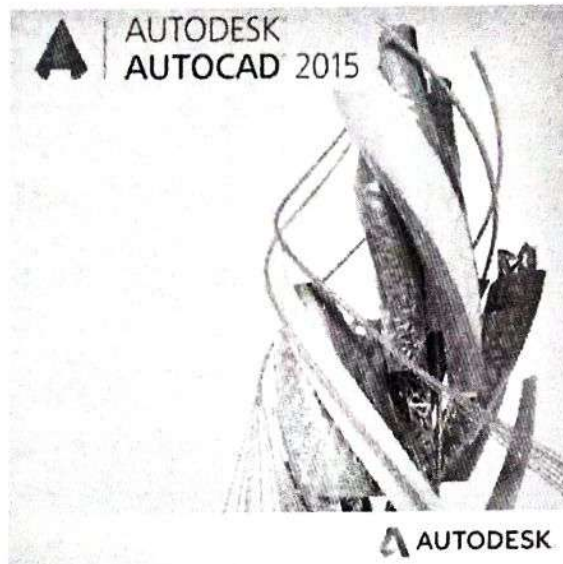



Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUSI)
Principal
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Kuttathupatti Village, Dindigund (Po),
Palani Road, Dindigul - 624 002



**SSM Institute of Engineering and Technology,
Dindigul - 624 002**

DEPARTMENT OF CIVIL ENGINEERING



Cad Technologies School of design Pvt. Ltd.



Technology Training

AUTOCAD

Second year (19-20)

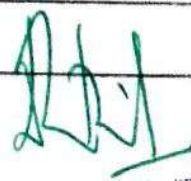
Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

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AutoCAD

S.NO	CONTENT
1	Introduction to CAD/CAM/CAE & Introduction to AutoCAD & Design Basics
2	Units, Limits, Drafting Settings, Selection Methods
3	Modify(Erase, Move, Copy, Rotate, Trim, Extend)Draw(Polyline, rectangle, Polygon)
4	Draw(Arc, Ellipse, Spline, Point, Hatch, Region, Revision Cloud, Wipe Out, Construction Line, Ray, Donut)
5	Modify(Array, Break, Break at point, Fillet, Chamfer, Scale, Lengthen, Stretch, Explode, Join, Align)
6	Annotation(Text, Dimensions)
7	Annotation(Leaders, Table, Scaling)
8	Property Tool bar, Layer Tool bar, Draw order
9	Drafting Settings(Infer Constraint) & Parametric Constraints
10	Block & Dynamic Block
11	Isometric View, Customize Hatch
12	Layout & Plotting
13	Introduction of 3D, Views, Viewports, Orbit, Visual styles
14	Solid Creation, 3D Modify & UCS
15	Solid Editing & Material
16	Surface Creation
17	Surface Editing
18	Mesh (Creation & Editing), Section
19	Rendering Materials, Lighting
20	Motion Path Animation

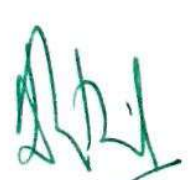



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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.
DEPARTMENT OF CIVIL ENGINEERING - VALUE ADDED COURSE (AutoCAD)
II YEAR

S.No	NAME	20.1.2020		21.1.2020		22.1.2020		23.1.2020		24.1.2020		
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	Abimani V	/	/	/	/	/	/	/	/	/	/	Abimani
2	Akash M	/	/	/	/	/	/	/	/	/	/	Akash
3	Balaji S	/	/	AB	AB	/	/	/	/	/	/	Balaji
4	Dhanasubhaa C	/	/	/	/	/	/	/	/	/	/	Dhanasubhaa
5	Divya Priya S	/	/	/	/	/	/	/	/	/	/	Divya Priya
6	Gokul P	/	/	/	/	/	/	/	/	/	/	Gokul
7	Gowtham L	/	/	/	/	/	/	/	/	/	/	Gowtham
8	Karunya Lakshmi M	/	/	/	/	/	/	/	/	/	/	Karunya
9	Kirubakaran V J	AB	AB	/	/	/	/	/	/	/	/	Kirubakaran
10	Kishor R	/	/	/	/	/	/	/	/	/	/	Kishor
11	Mohamed Rafiq J	/	/	/	/	/	/	/	/	/	/	Mohamed Rafiq
12	Mohanya G	/	/	/	/	AB	AB	/	/	/	/	Mohanya
13	Mouna Jyothigaa S	/	/	/	/	/	/	/	/	/	/	Mouna Jyothigaa
14	Nandha Kumar K	/	/	/	/	/	/	/	/	/	/	Nandha Kumar
15	Naveen Kumar M	/	/	/	/	/	/	/	/	/	/	Naveen Kumar
16	Rahul P	/	/	/	/	/	/	/	/	/	/	Rahul
17	Rishi S	/	/	/	/	/	/	/	/	/	/	Rishi
18	Rohini K	/	/	/	/	/	/	/	/	/	/	Rohini
19	Saran NR	/	/	/	/	/	/	/	/	/	/	Saran NR
20	Sathya M	/	/	/	/	/	/	/	/	/	/	Sathya
21	Siva Chandran T	/	/	/	/	/	/	AB	AB	/	/	Siva Chandran
22	Tamil Selvan S	/	/	/	/	/	/	/	/	/	/	Tamil Selvan
23	Kiruthiga N	/	/	/	/	/	/	/	/	/	/	Kiruthiga
24	Kishore Kumar R	/	/	/	/	/	/	/	/	/	/	Kishore Kumar
25	Krishna Veni P	/	/	/	/	/	/	/	/	/	/	Krishna Veni
26	Manonmani A	/	/	/	/	/	/	/	/	/	/	Manonmani
27	Maria Andrews J	/	/	/	/	/	/	/	/	/	/	Maria Andrews
28	Sathasivam	/	/	/	/	/	/	/	/	/	/	Sathasivam
29	Ugesh B	/	/	/	/	/	/	/	/	/	/	Ugesh
30	Saranya R	/	/	/	/	/	/	/	/	/	/	Saranya




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1. In AutoCAD 2D Modelling, which axis is not accessible for drafting?

- A. X
- B. Y
- C. Z
- D. WCS

2. A Polyline can be broken into individual lines and arcs using which of the following command?

- A. BREAK
- B. TRIM
- C. EXPLODE
- D. OVERKILL

3. Origin of the AutoCAD drawing space is,

- A. 0,0
- B. 1,0
- C. 0,1
- D. 1,1

4. Scrolling of mouse can perform which following action?

- A. Zoom in / zoom out
- B. pan & scan
- C. extents / all
- D. scale

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- A. 1
- B. 2
- C. 3
- D. 4

6. Is there any difference between Command Plot and Print?

- A. plot command prints only big plans
- B. The plot command for CNC (CAM)
- C. No difference
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7. Find the false statement in regards with "If an array is made associative".

- A. You can't use Boolean operations on the array elements
- B. To make the array non associative you need to use explode command on it
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- A. By a crossing window drawn from right to left
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- C. Shift + clicking on the objects
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12. A line shows its dimension as 14.52. What is the precision of this line?

- A. [0.0]
- B. [0.00]
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- D. Display of length has nothing to do with precision



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13. Model Tab and Layout Tab can be majorly distinguished as,

- A. The Model tab is used for drawing in 3D and a Layout is used for drawing in 2D
- B. The Model tab is where you create the drawing, and a Layout tab represents the sheet that you will plot or print on
- C. The colour of the background
- D. The Model tab displays the drawing you are copying from and the Layout tab is where you lay out the new drawing

14. Shortcut key for Multileader in AutoCAD 2022,

- A. ML
- B. MLN
- C. MLEADER
- D. MULTI

15. To bring a particular area of the workspace in focus, what command should be used?

- A. Zoom Extents
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- C. Zoom Dynamic
- D. Zoom All

16. What are the various options from left to right and the opposite direction?

- A. Choose a different category of objects
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- C. Select objects according to their position
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- A. Union
- B. Intersect
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19. What command allows us to select objects based on some status?

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20. If you change the scale list a project that I have started from 1:50 1:10 then,

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21. A line 4mm in length inclined at 75 degrees to the x- axis can be represented as,

- A. will write 0 <75
- B. will write 0 <15
- C. will write 4 <15
- D. will write 4 <75

22. How will you create a line representing length 15 units at an angle of 30 degrees with respect to the positive direction of the X-axis and the first point of the line is not at the origin?

- A. 30<15
- B. 15<30
- C. @30<15
- D. @15<30

23. Which of the following options cannot be used to represent a line?

- A. Yards
- B. Parsecs
- C. Microns
- D. Grads

24. A fillet command is used to produce,

- A. Sharp corners
- B. Round corners
- C. Both of the above
- D. None of the above

25. Which one of the following is not a property of an object?

- A. Line weight
- B. Measure
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26. In MLine tool editor, symbol tool can be found on which panel?

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- A. Tools
- B. Insert
- C. Options
- D. Formatting

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- A. AutoCAD Classic
- B. Drafting & Annotation
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28. What time (according to the clock) are 180 degrees according to the conventional time?

- A. 12 exactly
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34. The function of a polar array is to create object,

- A. In a grid pattern
- B. In a circular pattern
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35. Fillet in various corners can be created simultaneously using which command,

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- A. Right click and select PAN from contextual menu
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- A. dwg
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Ugah

37/50

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- D. Open

9. The shortcut to start a table is,

- A. TA
- B. TBL
- C. TABLE

10. What is the shortcut for zoom command?

- A. Z Command
- B. Rotate mouse wheel
- C. ZOOM Command
- D. All of the above

11. To select a set of objects in the workspace, what should be done?

- A. By a crossing window drawn from right to left
- B. By a crossing window drawn left to right
- C. Shift + clicking on the objects
- D. None of the above

12. A line shows its dimension as 14.52. What is the precision of this line?

- A. [0.0]
- B. [0.00]
- C. [0.000]
- D. Display of length has nothing to do with precision

13. Model Tab and Layout Tab can be majorly distinguished as,

- A. The Model tab is used for drawing in 3D and a Layout is used for drawing in 2D
- B. The Model tab is where you create the drawing, and a Layout tab represents the sheet that you will plot or print on
- C. The colour of the background
- D. The Model tab displays the drawing you are copying from and the Layout tab is where you lay out the new drawing

14. Shortcut key for Multileader in AutoCAD 2022,

- A. ML
- B. MLN
- C. MLEADER
- D. MULTI

15. To bring a particular area of the workspace in focus, what command should be used?

- A. Zoom Extents
- B. Zoom Window
- C. Zoom Dynamic
- D. Zoom All

16. What are the various options from left to right and the opposite direction?

- A. Choose a different category of objects
- B. Select objects according to their colour
- C. Select objects according to their position
- D. No difference

17. Shortcut for Trim command is,

- A. T
- B. TR
- C. TI
- D. X

18. A Boolean operation that is used to select interfering region between solids,

- A. Union
- B. Intersect
- C. Subtract
- D. None of the above

19. What command allows us to select objects based on some status?

- A. Properties
- B. Qselect
- C. Pselect

D. Attributes

20. If you change the scale list a project that I have started from 1:50 1:10 then,

- A. You will have to start over
- B. You should not raise the objects already exist (scale) by 5
- C. You will not need to change anything in hitherto methodology
- D. Should be converted into new items that will add based on the new scale

21. A line 4mm in length inclined at 75 degrees to the x-axis can be represented as,

- A. will write $0 < 75$
- B. will write $0 < 15$
- C. will write $4 < 15$
- D. will write $4 < 75$

22. How will you create a line representing length 15 units at an angle of 30 degrees with respect to the positive direction of the X-axis and the first point of the line is not at the origin?

- A. $30 < 15$
- B. $15 < 30$
- C. $@30 < 15$
- D. $@15 < 30$

23. Which of the following options cannot be used to represent a line?

- A. Yards
- B. Parsecs
- C. Microns
- D. Grads

24. A fillet command is used to produce,

- A. Sharp corners
- B. Round corners
- C. Both of the above
- D. None of the above

25. Which one of the following is not a property of an object?

- A. Line weight
- B. Measure
- C. Hyperlink
- D. Elevation

26. In MLine tool editor, symbol tool can be found on which panel?

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- A. Tools
- ☒ B. Insert
- C. Options
- D. Formatting

27. What is the default design workspace in AutoCAD 2022?

- A. AutoCAD Classic
- ☒ B. Drafting & Annotation
- C. 3D Basics
- D. 3D Modelling

28. What time (according to the clock) are 180 degrees according to the conventional time?

- A. 12 exactly
- B. 6 exactly
- ☒ C. 9 exactly
- D. 3 exactly

29. Which coordinate option can be used to reset the orientation of UCS to its default?

- ☒ A. UCS, World
- B. UCS, Named UCS
- C. UCS, Previous
- D. UCS Icon, Properties

30. An object can be obtained from a block by using,

- ☒ A. EXPLODE
- B. OVERKILL
- C. REDEFINE
- D. UNGROUP

31. The symbol that shows snap point to the closet point,

- A. With circles and dots in the centre
- B. With two triangles
- ☒ C. With three orthogonal
- D. With Diamond

32. In order to measure the dimensions of a land, the surveyor uses which of the following system,

- A. No one method
- B. Related cartesian coordinates
- ☒ C. Absolute polar coordinates
- D. None of the above

33. The command that is used to convert a block into a drawing object,

- A. EXPLODE
- ☒ B. OVERKILL

- ☒ C. REDEFINE
- D. UNGROUP

34. The function of a polar array is to create object,

- A. In a grid pattern
- ☒ B. In a circular pattern
- C. In a straight line
- D. All the above

35. Fillet in various corners can be created simultaneously using which command,

- ☒ A. Loop
- B. Chain
- C. Multiple
- D. Edge

36. The command used to convert separate entities into a polyline,

- A. Union
- B. Subtract
- ☒ C. Join
- D. Polyline

37. Command used to create a rectangle 8 units in length and 6 units in width, starting not from the origin,

- A. 8,6
- B. 6,8
- ☒ C. @8,6
- D. @6,8

38. AutoCAD commands can be accessed in,

- A. Drawing area
- B. Status bar
- C. Tool bars
- ☒ D. Command window

39. Various methods to access PAN command,

- A. Right click and select PAN from contextual menu
- B. PAN command
- C. Press and hold middle mouse button
- ☒ D. All of the above

40. The file extension that cannot be accessed by AutoCAD,

- A. dwg
- B. dxf
- ☒ C. doc
- D. dws

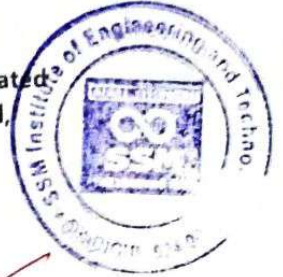
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41. Plagiostomi angle can be created by which angle,

- A. chamfer
- B. fillet
- C. offset
- D. mirror

42. In AutoCAD, polar coordinate is used for creating,

- A. arc
- B. ellipse
- C. angular lines
- D. none of the above

43. To print the entire project, you will choose to regulate what to plot

- A. Display
- B. Extends
- C. Limits
- D. Window

44. The layer that can be deleted from the layer property manager,

- A. Layer 0
- B. Defpoints
- C. Layer containing objects
- D. Frozen layer not containing objects

45. The maximum number of layers that a drawing can have?

- A. 1
- B. 2
- C. As many as depending on the complexity
- D. None of the above

46. The hatch pattern used to fill a closed area,

- A. ANSI31
- B. ANGLE
- C. SOLID
- D. Filled area can't be made with hatch command

47. Which state grid is used to design perspective?

- A. Parametric
- B. Isometric
- C. Pro-optic
- D. Rectangular

48. The position of the camera can be tuned accurately using,

- A. Pan
- B. Zoom

- C. Orbit
- D. Navigation Wheel

49. What is the highest value of layer transparency?

- A. 100
- B. 50
- C. 30
- D. 90

50. An inclined angle can be produced using which command.

- A. <
- B. >
- C. @
- D. #



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5	Coverage of syllabus	✓				
6	Interaction	✓				
7	Individual attention	✓				
8	Outcome			✓		

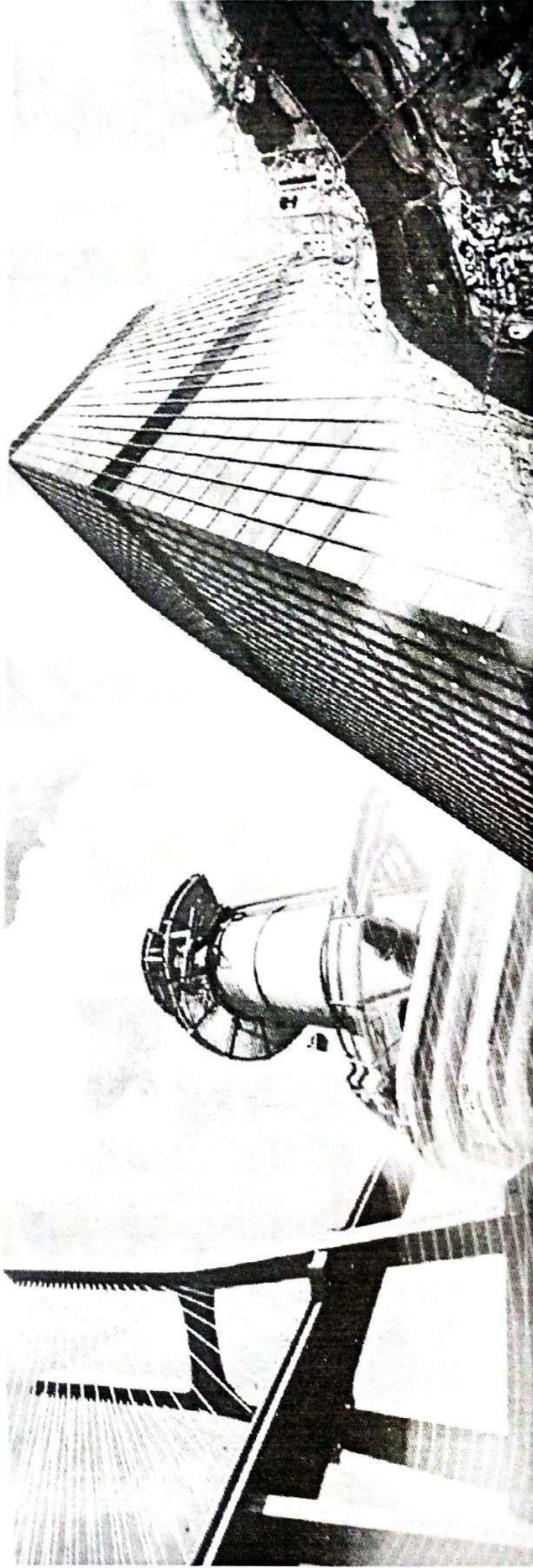
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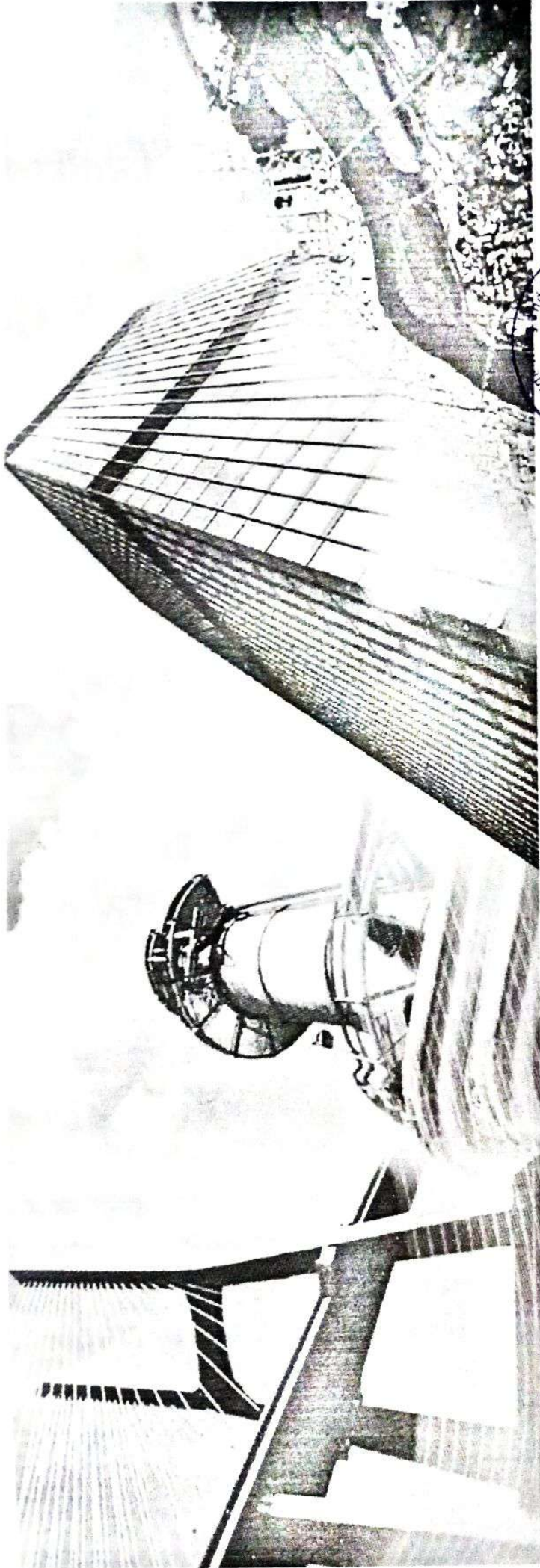
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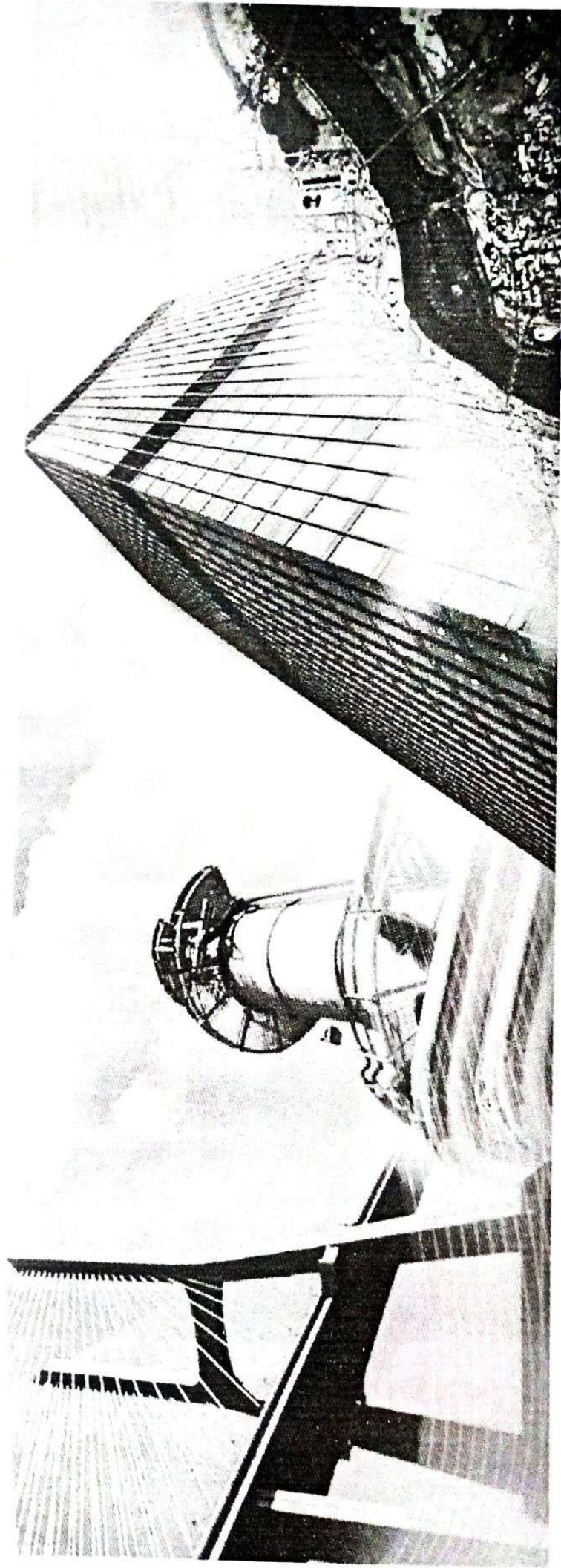
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