SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul 624 002

Date: 18.12.20

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.N o	Year	Name of the Course	Period	No. of Days
1.	II Year	Auto CAD	04.01.21 to 08.01.21	5 Days

Faculty In-charge

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SSM Institute of Engineering and Technology, Dindigul-624002.

DEPARTMENT OF CIVIL ENGINEERING



Cadd Technologies School of design Private limited, Coimbatore-641 009.

Technology Training



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS)

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Palani Road, Dindigui - 624 002.

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



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., [NUS]
Principal
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Palani Road, Dindigui - 624 002.

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

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Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS)

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Kuttaihupatu Vinage, Sino-dagundu (Po),

Palan: Road, Dindigul - 624 002.



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

- A X
- Y B
- CZ
- 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,

- 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

5. In AutoCAD, the number of workspaces is,

- A
- 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
- D. Print command can print upto A3 size paper



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
- C. The array can be edited again by selecting it
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8. An open area can be filled with which of the following gradient:

- A. Gap
- B. Tolerance
- C. Transparency
- D. Open

9. The shortcut to start a table is,

- A. T
- B. TA
- C. TBL
- D 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]

Dr.D.SENTHIL KUMARAN, A.S. and Technology SSM institute of Engineering and Technology Kuttarhupatu visase mudalagundu (Po), Palaus Road, Dindigul - 624 002.

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
- 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,

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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</p>
- 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 an which panel? Dr.D. SENTHIL KUMARAN, 2. 2012

Principal

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Kuttathupatti Vinagi and Jagundu (Po),

Paiani Road, Dindigui - 624 002.

- 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
- Absolute polar coordinates
- D None of the above

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

- A EXPLODE
- 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
- dxf
- doc
- D. dws

Dr.D. SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal SSM Institute of Engineering and Technology Kuttathupatti Village Sindalagundu (Pol. Palani Road, Dinaigui 624 002.

41, 1	Plagiostomi angle can be created by which angle,	C.	Orbit
		D.	Navigation Wheel
	A chamfer		
	fillet	49. W	hat is the highest value of layer transparency?
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ŧ	none of the above		
		Α.	<
43. T	o print the entire project, you will choose to	В.	>
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44. 1	he layer that can be deleted from the layer		
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S. C.			
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45. TH	ne maximum number of layers that a drawing can		
have?	can		
Α	1		
В	2		
C.	As many as depending on the complexity		
D.	None of the above		
46. Th	e hatch pattern used to fil a closed area,		
A	ANSI31		
8	ANGLE		
C	SOLID		
D.	Filled area can't be made with hatch command		
47 M	sigh state muid in used to dealers were at 2		
47. 001	nich state grid is used to design perspective?		
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D	Rectangular		
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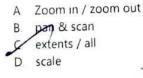
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C	[0.000]	\sim	2001
D.	Display of len	igth has nothing to	do with precision
Dr.	D.SENTHIL KU	MARAN, M.E., Ph.D., (NI	US)
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Palani Road, Dindigul - 624 002

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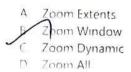
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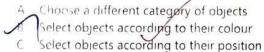
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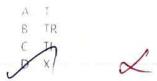


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Principal

SSM Institute of Engineering and Technology Kuttathupath Vinage Sindalagundu Po), Palani Road, Dindigul 624 002.

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D None of the above	All
	A dwa
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a drawing object, A EXPLODE B. OVERKILL	D. dws Principal
6. OVERKILL	SSM Inctitute of Farmer to
18/	SSM Institute of Engineering and Technology
120	Kuttathupatti Village Sindalagundu (Pol.
Connect Char	Fulani Road, Dindigul - 624 062.

41. Plagiostomi angle can be created by which angle, A chamfer	C Orbit Navigation Wheel
B_Nitet	49. What is the highest value of layer transparency?
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	D 90
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au gular lines	50. An inclined angle can be produced using which command.
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43. To print the entire project with 1	A
43 To print the entire project, you will choose to regulate what to plot	B > C @
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C Limits	
D Window	
14. The layer that can be dies to	
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PANGLE	
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47 Which state grid is used to design perspective?	
A Parametric	

8 Isometric C Pro-optic D Rectangular

using,

A Pan

Zoom

48. The position of the camera can be tuned accurately

the camera can be supposed to the ca

Dr.D. SENTHIL KIMARAN, M.B., Ph.D., Must Principal Principal and feedbolow San Institute of Russian of and feedbolow Ruttathupath their macabagundu (Po), Palani Koso, Managul 644 002.

Togoth Stasan

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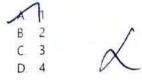
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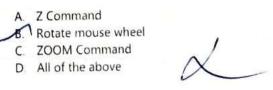
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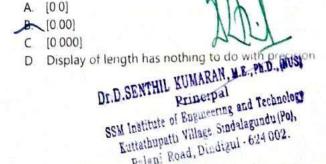
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A Choose a different category of objects Select objects according to their colour Select objects according to their position

D. No difference

17. Shortcut for Trim command is,

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

Union

B Intersect

Subtract D. None of the above

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

Properties Pselect



D Attributes

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

You will have to start over

- 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 will write 0 <15 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?

15<30 @30<15

@15<30

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

C. Microns

D. Grads

24. A fillet command is used to produce,

A. Sharp corners

B. Round corners

Both of the above

None of the above

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

ine weight

Measure

Hyperlink

D. Elevation

26. In MLine tool editor, Byodolil tool can be some animus) Principal which panel?

SSM Institute of Englanding and Technology Kuttathupatti . Ling And dagunau (Po), Palan: Road, Dimorgul - 624 002.

A pols Insert C Options	C REDEFINE D. UNGROUP
D Formatting	34. The function of a polar array is to create object,
A AutoCAD Classic Prafting & Annotation	A. In a grid pattern B. In a circular pattern C. In a straight line D. All the above
C 3D Basics D 3D Modelling	35. Fillet in various corners can be created simultaneously using which command,
18. What time (according to the clock) are 180 degrees according to the conventional time?	C. Multiple
A. 12 exactly B 6 exactly	D. Edge
D 3 exactly	36. The command used to convert separate entities into a polyline,
29. Which coordinate option can be used to reset the orientation of UCS to its default?	A. Union B. Subtract C. Join D. Polyline
A UCS, World WCS, Named UCS C UCS, Previous D UCS Icon, Properties	37. Command used to create a rectangle 8 units in length and 6 units in width, starting not from the origin,
30. An object can be obtained from a block by using,	A. 8,6
A EXPLODE D VERKILL C REDEFINE D UNGROUP	A. 8,6 B. 6,8 D. @6,8 38. AutoCAD commands can be accessed in,
31. The symbol that shows snap point to the closet	
A With circles and dots in the centre B. With two triangles C. With three orthogonal	A. Drawing area B. Status bar C. Tool bars Dommand window
With Diamond	39. Various methods to access PAN command,
32. In order to measure the dimensions of a land, the surveyor uses which of the following system,	Right click and select PAN from contextual menu PAN command Press and hold middle mouse button All of the above
Related cartesian coordinates Absolute polar coordinates None of the above	40. The file extension that cannot be accessed by AutoCAD,
33. The command that is used to convert a block into a drawing object, A EXPLODE B. OVERKILL	A. dwg B. dxf Goc Dr.D.SENTHIL KUMARAN, W.B., Ph.D., (NUS) Principal SSM Institute of Exempting and Technology Euttainspara village Sindalogundu (Po),
18	Palani Road, Dindigul 624002.

41. Plagiostomi angle can be created by which angle,	C. Orbit Wavigation Wheel
B fillet	49. What is the highest value of layer transparency?
C offset	43. What is the mightest tener to my a many
D. mirror	A. 100
	B. 50
42. In AutoCAD, polar coordinate is used for creating,	C. 30
1	21 90
× *c	
B ellipse	50. An inclined angle can be produced using which
C angular lines	command.
D none of the above	
A? To main table and the	. 4
43. To print the entire project, you will choose to regulate what to plot	B. >
regulate what to plot	C. @
Display	D. #
B Extends	
C Limits	\sim
D. Window	
~	
44. The layer that can be deleted from the layer	
property manager,	
2	
B Defpoints	
Layer containing objects	*
D. Frozen layer not containing objects	
by the containing objects	
45. The maximum number of layers that a drawing can	
have?	
A 1	
B 2	7
As many as depending on the complexity	
D. None of the above	
46. The hatch pattern used to fil a closed area,	
The mater pattern used to in a closed area,	
A ANSI31	
B _ ANGLE	
SOLID	
D Filled area can't be made with hatch command	
47. Which state grid is used to design perspective?	
A Barametric	
Sometric .	
C Pro-optic D. Rectangular	1. MM
. Acciangular	DUN.
48. The position of the cancering an be toned accurately using.	V /
using,	Dr.D.SENTHIL KUMARAN, ME, PLD., (NIS)
(solution)	Danasa

A Pan B. Zoom Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NIS)

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3	Motivation		1				
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5	Coverageof syllabus						
6	Interaction						
7	Individual attention						
8	Outcome					-	

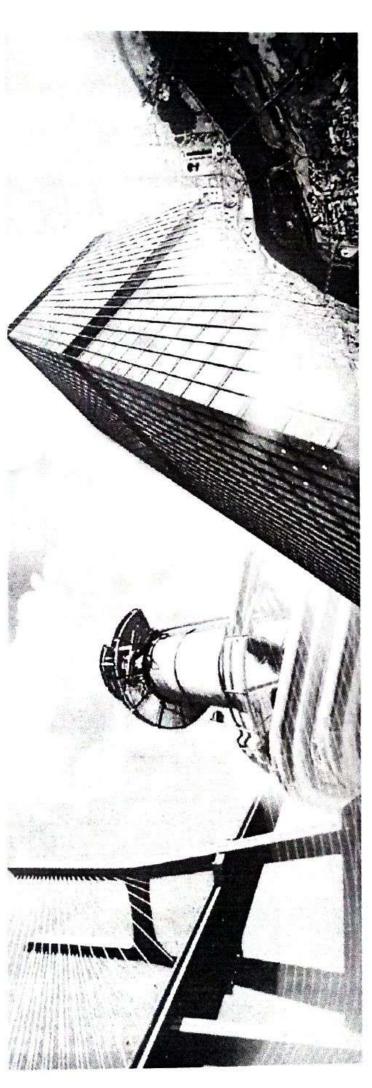
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Course Ending Date

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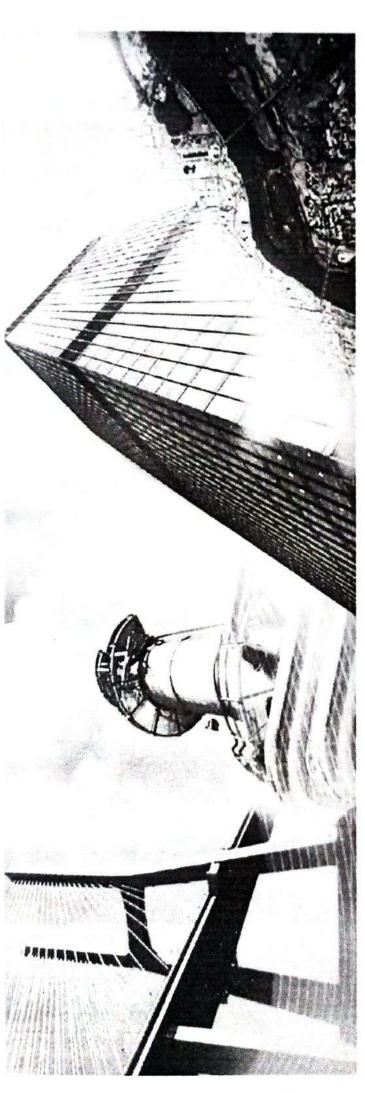
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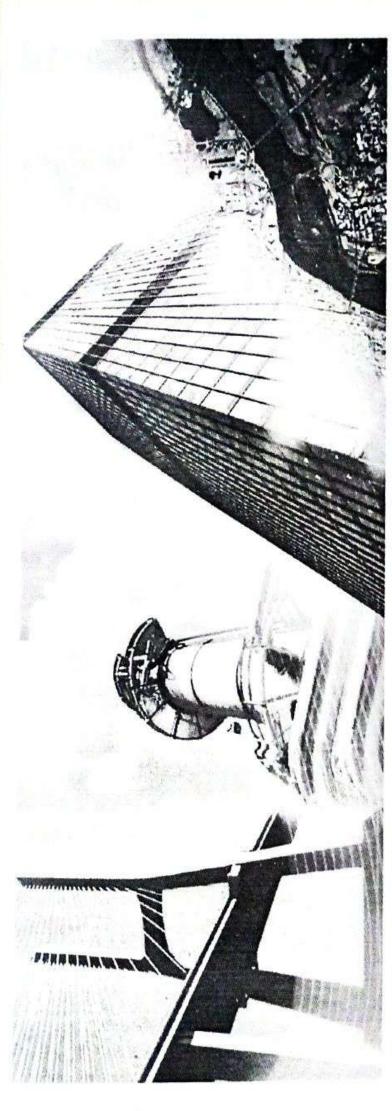


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