25/01/2023

DEPARTMENT OF CIVIL ENGINEERING

TECHNOLOGY TRAINING SCHEDULE

ACADEMIC YEAR 2022-23 EVEN SEMESTER

S.No	Year	Course Name	No of Students	Duration	Service Provider
1	III	Revit Architecture	23	06.02.23 to 11.02.23	CONCEPTURES Pvt Ltd, COIMBATORE
2	II	AutoCAD 2022	15	13.02.23 to 18.02.23	BTR CONSTRUCTION, BHAVANI SAGAR
3	IV & II	Revit Architecture	30	20.02.23 to 25.02.23	CONCEPTURES Pvt Ltd, COIMBATORE
4	IV	STAAD Pro V8i	15	27.02.23 to 04.03.23	BTR CONSTRUCTION, BHAVANI SAGAR
5	III	3Ds Max 2023	23	06.03.23 to 11.03.23	CADD ACADEMY, MADURAI
6	IV		15	13.03.23 to 18.03.23	

HoD/Civil

Principal

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.
Phone: 0451–2448800–99 (100 Lines)   Fax: 0451–2448855
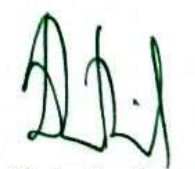Email: ssmietdgl@gmail.com Website: www.ssmiet.ac.in

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DEPARTMENT OF CIVIL ENGINEERING

<u>Submitted to the Principal for kind approval</u>

Sub: Requisition of approval to conduct **AutoCAD & STAAD Pro V8i** Software Training Program – Reg.,

I wish to bring your kind notice that, in this semester we are going to conduct a value added course AutoCAD for our II year students **(15 No's)** & STAAD Pro V8i for our IV year students **(15 No's)** in association with BTR Construction, Bhavani Sagar. In this connection, Enclosed the syllabus and quotation from.

S. No	Year	Name of the Program	Period	No of Days	No of Students	Rate/Student Rs	Total Fees Rs
1	II Year	AutoCAD	13.02.23 to 18.02.23	6 Days	15	Rs.1200/-	Rs.18000/-
2	IV Year	STAAD Pro V8i	27.02.23 to 04.03.23	6 Days	15	Rs.1500/-	Rs.22500/-
						Total	Rs.40500/-

The proposal and course content received from BTR Construction, Bhavani Sagar, also enclosed for your kind perusal and approval.

Enclosure –   1. Quotation

2. Syllabus

HoD/CIVIL

PRINCIPAL

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Date: 25.01.23

CIRCULAR

It is planned to conduct Value Added Course for II year students by Department of Civil Engineering along with BTR Construction, Erode from 13.02.23 to 18.02.23.

S.No	Year	Name of the Course	Period	No. of Days
1.	II Year	AutoCAD	13.02.23 to 18.02.23	6 Days

Faculty In-charge

HoD/Civil

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC and affiliated to Anna University, Chennai

2022-23

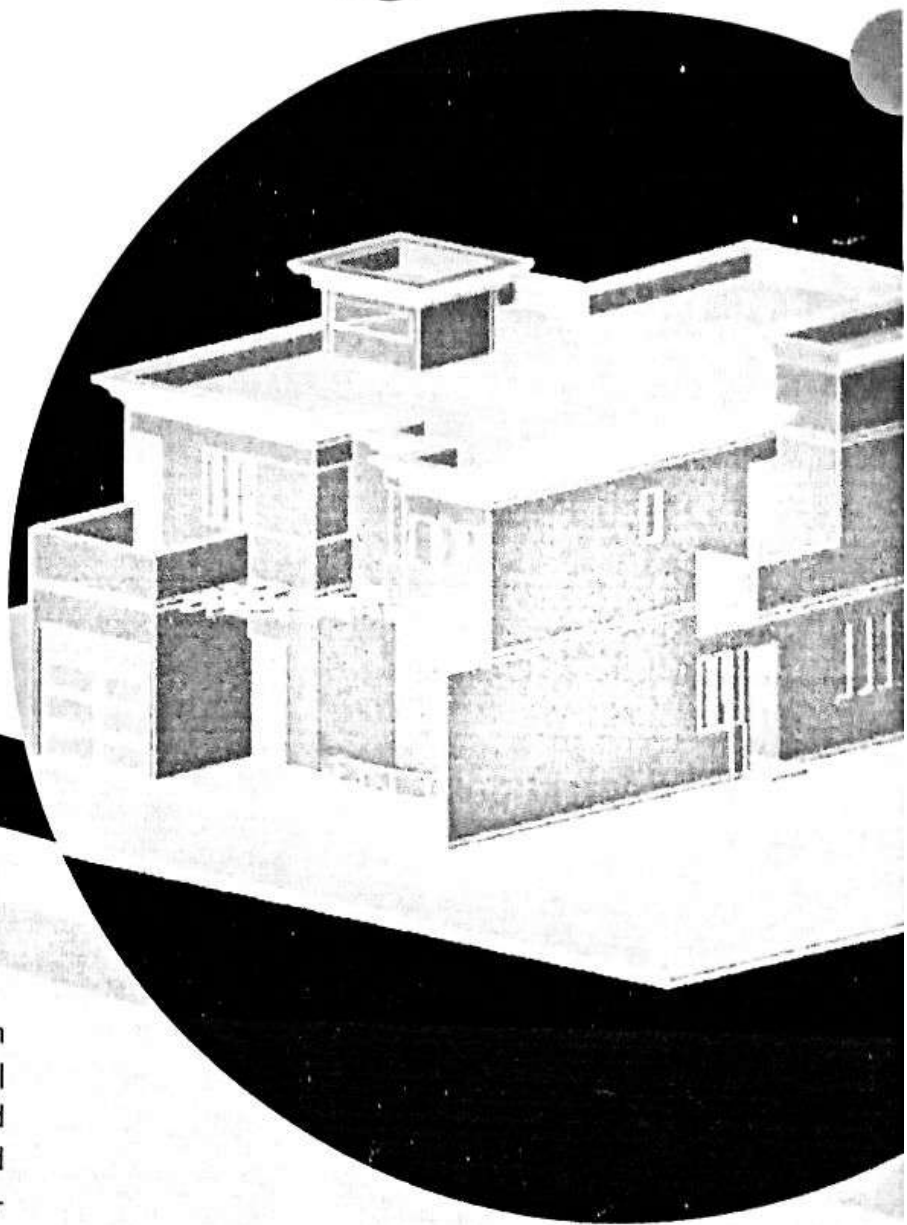# VALUE ADDED COURSE
ON
Auto CAD 2022

Date:
13.2.23 to 18.2.23

SERVICE PROVIDER
BTR Construction,
Bhavani Sagar.

EVENT COORDINATOR
T. Sivaganesan,
Assistant Professor,
SSM-IET, Dindigul.

COURSE CONTENT

Introduction to Auto CAD | Section and elevation | Detailing | Drafting | Painting with colors, textures and photo-matching | Enhancing and presenting | 3D models | Walk-through video.

Online Syllabus for AutoCAD Software

- ✓ Introduction toAutoCAD&Design Basics
- ✓ Units,Limits,DraftingSettings,SelectionMethods
- ✓ Draw - Line, Polyline, Rectangle,Polygon
- ✓ Modify - Erase,Move,Copy,Rotate,Trim&Extend
- ✓ Draw - Arc,Ellipse,Spline,Point, Hatch
- ✓ Modify - Array, Break, Break at point
- ✓ Draw - Region, Revision Cloud, Wipe Out, Construction Line, Ray, Donut
- ✓ Modify - Fillet,Chamfer,Scale,Lengthen,Stretch,Explode,Join, Align
- ✓ Annotation - Text,Dimensions - PropertyTool bar
- ✓ Annotation - Leaders,Table,Scaling
- ✓ LayerTool bar,Draw order
- ✓ Block &DynamicBlock
- ✓ Approval drawing Concept
- ✓ Electrical Drawing Concept
- ✓ IsometricView
- ✓ Introduction of 3D,Views,Viewports,Orbit,Visual styles
- ✓ Solid Creation,3DModify & UCS
- ✓ Solid Editing&Material
- ✓ Rendering Materials
- ✓ Interactive Session - 2 days

Anbad II yr

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL
DEPARTMENT OF CIVIL ENGINEERING - VALUE ADDED COURSE (AUTOCADD)
(13.02.2023 TO 18.02.2023)

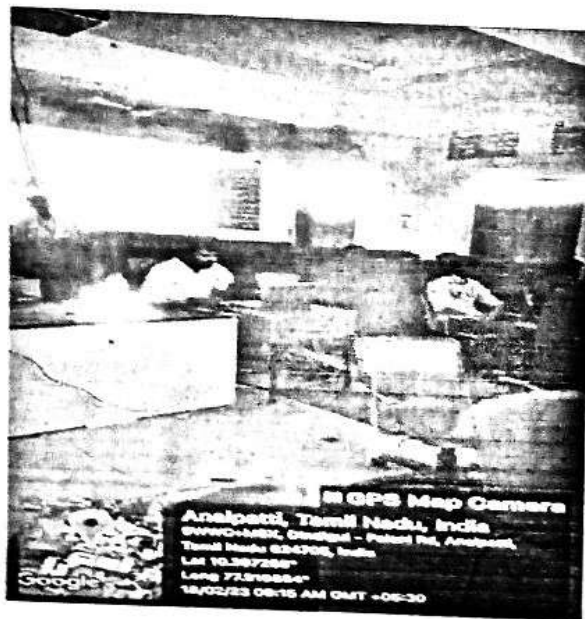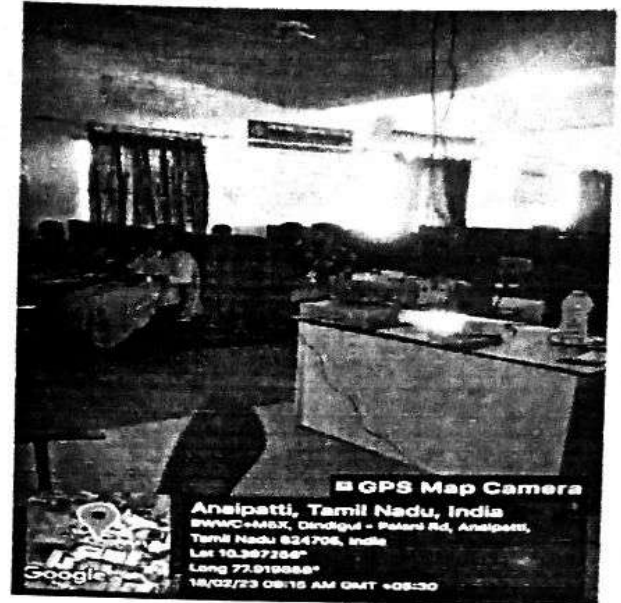| S.No	Register No	Student Name	13.02.2023 FN	13.02.2023 AN	14.02.2023 FN	14.02.2023 AN	15.02.2023 FN	15.02.2023 AN	16.02.2023 FN	16.02.2023 AN	17.02.2023 FN	17.02.2023 AN	18.02.2023 FN	18.02.2023 AN
1	92212110300?	DHARUN M												
2	92212110300?	KANNAN K												
3	92212110300?	KAVINNILAVAN S												
4	92212110300?	MUKESH M												
5	92212110300?	NAGAJOTHI M	AB	AB	AB		A3	AB	AB		AB	AB	AB	AB
6	92212110300?	NAGARAJAN G	AB	AB			A8	AB						
7	92212110300?	NITHEESH KANNAN P	A8	A8										
8	92212110301?	NIVASHINI P												
9	92212110301?	PRAVEEN VENGADESH S												
10	92212110301?	SHANMUGAPRIYA K	AB	A8	A8	A8	A8	AB						
11	92212110301?	SYEAD ABUTHAHIR S												
12	92212110330?	DINESH KUMAR R												
13	92212110330?	NIRMALADEVI R												
14	92212110330?	PRAVEEN R												
15	92212110330?	SUBASHINI G												
16	TRANSFER	RAGHUL SP												

HOD/CIVIL

09.03.2023

Department of Civil Engineering
Technology Training Report

As an initiative for technology training programme was conducted for II year Civil Engineering students in CADD lab @ department of civil engineering, scheduled from 13.02.2023 to 18.02.2023. This technology training was conducted by Mr.R.Udhayasankar., B.T.R Construction, Bhavanisagar.

In this technology training – AutoCAD – 2022 programme consists of 48 hours. Students Learn from the AutoCAD – Technology training.

- To Plan Creation as per vastu.
- To draw the section and Elevation
- Detailing and drafting for RCC Elements.
- Modelling a story house interior and exterior.
- Painting with colours,textures and photo-matching.
- Enhancing and presenting the model.
- Create realistic 3D models of your design using a combination of solid, surface, and mesh modeling tools.
- Apply visual styles to control the display of edges, lighting, and shading of your 3D model.
- Apply lighting and materials to give your 3D models a realistic appearance and to help communicate your designs.
- Walkthrough video.

Totally 15 students were benefitted for this programme. The programme was co-ordinated by Mr.T.Sivaganesan, Assistant professor, Civil Engineering. SSM institute of Engineering and technology,Dindigul.

Technology Training In-charge   HOD/Civil   Principal

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Dindigul – Palani, Highway, Dindigul – 624 002

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

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

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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
D. The array can't be modified in any way once it is made associative

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
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10. What is the shortcut for zoom command?

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

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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

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

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

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B. Insert
C. Options
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A. 12 exactly
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A. UCS, World
B. UCS, Named UCS
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D. None of the above

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D. All the above

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A. Loop
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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

R. Praveen

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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
D. Displayed 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. Y

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?

A Tools
B Insert
✓ Options
D Formatting

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

A AutoCAD Classic
✓ 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
✓ 9 exactly
D 3 exactly

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

A UCS, World
✓ UCS, Named UCS
C UCS, Previous
D UCS Icon, Properties

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

A EXPLODE
✓ 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
✓ With three orthogonal
D With Diamond

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

✓ 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

✓ 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
✓ All the above

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

✓ Loop
B Chain
C Multiple
D Edge

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

A Union
B Subtract
✓ 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
✓ @8,6
D @6,8

38. AutoCAD commands can be accessed in,

A Drawing area
B Status bar
C Tool bars
✓ Command window

39. Various methods to access PAN command,

A Right click and select PAN from contextual menu
B PAN command
✓ 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
✓ dws

41. Plagiostomi angle can be created by which angle.

A. Chamfer
B. fillet
C. offset
D. mirror

D. Orbit
D. Navigation Wheel

49. What is the highest value of layer transparency?

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

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

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

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

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

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 fil 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

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Department of Civil Engineering

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3	Motivation		✓			
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6	Interaction		✓			
7	Individual attention			✓		
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4	Regularity and Punctuality of trainer		✓			
5	Coverage of syllabus		✓			
6	Interaction		✓			
7	Individual attention	✓				
8	Outcome		✓			

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