K.D.K. College of Engineering, Nagpur

Department of Civil Engineering

NOTICE   Date- 10/01/2025

Second Year B.Tech. (Civil Engineering) Students are here by inform that Department of Civil Engineering is organizing "One Month Value Added Course on "Professional drafting using Autocad" in Association with CADD Centre Dharam Peth, Nagpur from 15/01/2025 to 03/03/2025.(With including a practice session)

All the students are informed to remain present full time in the One Month Value Added Course.

Dr. Balbir Singh Ruprai   **Dr. Swapnil R. Satone**
Co-ordinator   Head Civil Engg

Copy to,

1) Principal, KDKCE, Nagpur

2) Vice- Principal, KDKCE, Nagpur

3) Dean (Academic), KDKCE, Nagpur

4) Computer Lab In-charge, Department of Civil Engineering

5) Notice Board (Civil Engineering)

K. D. K COLLEGE OF ENGINEERING

(NBA & NAAC Accredited)

"Value Added Course"

"Professional drafting using AutoCAD"

By

Department Of Civil Engineering

In Association With

CADD Centre Dharampeth , Nagpur

Asstt. Professor
Department of Civil Engineering
K. D. K. College of Engineering
Nagpur - 24

Course Duration: One Months (15 Jan to 3 March 2025)

Venue : Computer Lab, Department of Civil Engineering ,KDKCE, Nagpur

Introduction: The Value Added course cum Training Program of Professional drafting Using Autocad Software for 2 nd year students was organized by the Department of Civil Engineering of K.D.K.College Of Engineering, in collaboration with CADD Center Dharampeth, Nagpur. Prof.Dr.Balbir Singh was the coordinator for this training program under the guidance of Dr. Swapneel Satone (Head Of Department).

The aimed of Value-added course to provide participants with a comprehensive understanding of the AutoCAD software and its importance in drafting of different structures and it components that are use in Civil Engineering. The resource person for the event was Ms. Samiksha Saoji (BE) & Mrs. Pranav Gedam (BE) who conducted the training program, covering both theoretical and practical aspects of AutoCAD 2D & 3D implementation in Civil Engineering.

Course Objectives:

The primary objective of this courseware is to teach students the basic commands necessary for professional 2D drawing, design and drafting using AutoCAD This includes:

Navigating the AutoCAD user interface

- Using the fundamental features of AutoCAD e Using precision drafting tools in AutoCAD to develop accurate technical drawings.
- Presenting drawings in a detailed and visually impressive manner

Intended Outcomes for the Course

Upon Completion of the course students will be able to:

- Utilize the power and precision of AutoCAD as a drafting and design tool used in the building design and Construction industries.
- Apply basic CAD concepts to develop and construct accurate 2D geometry through creation of basic geometric constructions.

- Create, manipulate and edit 2D drawings and figures.
- Apply elements of civil drafting such as layers, dimensions, drawing formats and 2D figures in projects with a focus on AEC industry standards.

Course Activities and Design

Instructor activities:

- Provide Lecture using AutoCAD software, demonstrating commands via user interface and typed commands. Use examples and projects seen in the CAD and drafting industry.
- Demonstrate AutoCAD commands and workflow through lecture and videos.
- Show industry standard procedures to solve various drafting and CAD related industry problems.
- Oversee open lab time to assist students in assigned projects. Use question and reinforce lecture material for guiding students to complete projects.
- Coach students to instill confidence and develop the ability for self-teaching.

Value Added course on AutoCAD 2D & 3D Highlights:

The software course training was divided into multiple sessions covering various aspects of AutoCAD 2D & 3D software. The following topics were covered during the course:
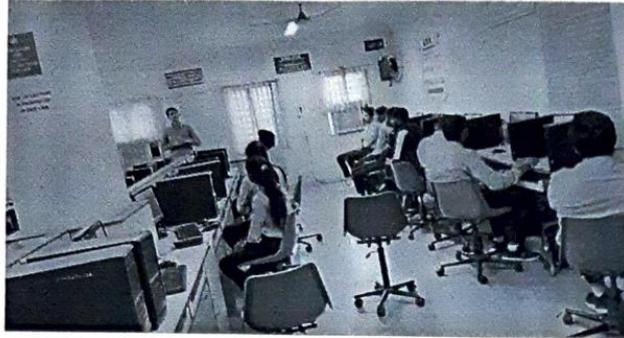
1. Introduction to Different Drawings types use in Construction Industry.
2. Introduction to AutoCAD
3. User Interface of AutoCAD 2D
4. Creation of 2D geometries using draw & modify tool of AutoCAD 2D
5. Creation of Building floor plan using AutoCAD commands.
6. Creation of Elevation and building section using commands.
7. Creation of Table using AutoCAD commands as well as importing excel table into AutoCAD.
8. Sheet Creation using CAD.
9. Introduction to AutoCAD 3D
10. User interface of AutoCAD 3D
11. Creation of different 3D Objects like Door, Window, Furniture etc using AutoCAD 3D.
12. Application of Material texture to objects.
13. Creation of environment exposure

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14. Creation of different scenes of 3D objects using Camera

15. Rendering of 3D object into AutoCAD

Demonstration of AutoCAD commands by Instructor

Outcome Assessment Strategies

1. Complete assignments, projects, test or quiz problems and class activities which apply real-life situations to computer aided design and drafting scenarios encountered in industry using AutoCAD.

2. Complete activities, assignments and exam, which show an understanding of AutoCAD projects and design problems related to computer aided design and drafting profession.

3. Participate in and contribute to class discussions, activities and projects

Assessment must include evaluation of the student's ability to arrive at correct drawings or designs using proper procedures and notation with AutoCAD for making 2D drawings.

Balki
Asst. Professor
Department of Civil Engineering
K. D. K. College of Engineering
Nagpur - 24

CADD Centre Dharampeth

Subject: Proposal for AutoCAD Training Partnership

Dear Sir,

I hope this letter finds you well. I am writing to propose a mutually beneficial collaboration between CADD Centre Dharampeth. and your esteemed college for the provision of AutoCAD training on your campus. We have carefully assessed the educational needs of your institution and are confident that our expertise in AutoCAD training can significantly contribute to the skill development of your students.

Overview of CADD Centre Dharampeth .

CADD Centre ia a reputable firm specializing in BIM services and training with a team of highly skilled professionals and a proven track record in providing quality training, we are dedicated to empowering the next generation of engineers with practical skills that are essential in today's competitive job market.

Proposal Details:

1. AutoCAD Training Program: We propose to conduct an AutoCAD training program at your college for civil engineering students. Our curriculum is designed to cover essential AutoCAD skills, including practice projects. The program will be structured to accommodate different skill levels.

2. Instructors: Our experienced instructors, who are experts in AutoCAD, will lead the training sessions. They will provide hands-on guidance, practical insights, and real-world applications to ensure that students not only understand the software but can also apply it effectively in their future careers.

3. Duration and Schedule: We recommend a 1 month program, with 25 module of training. The schedule can be tailored to fit the academic calendar of the college and the availability of students.

4. Cost Proposal: Recognizing the importance of cost-effectiveness, we are pleased to offer our training program at a significantly lower cost than the market rates. We are proposing a fee of -

    a. 2000 INR per student considering a batch of 25 students.

Address.
CADD Centre
98, Paradise, Opposite khandelwal Jewellers, Besides Milton Mall, Dharampeth, Nagpur.

5. Infrastructure Requirements: We will work closely with the college to identify and arrange for any necessary infrastructure requirements, such as computer labs, projectors, and software installations.

6. Certification: Upon completion of the program, participants will receive a certificate from Cadd Centre Dharampeth, validating their proficiency in AutoCAD. This certification will enhance their resumes and increase their employability in the engineering industry.

Benefits for Students:

- Enhanced Curriculum: Integrating AutoCAD training into the curriculum will enrich the educational experience of your students and provide them with practical skills that are highly valued in the industry.

- Competitive Edge: Graduates with AutoCAD proficiency will have a competitive edge in the job market, making them more attractive to potential employers.

We would be delighted to discuss this proposal further at your convenience. Please let us know a suitable time for a meeting or if you require any additional information. We are excited about the prospect of contributing to the success and look forward to the possibility of working together.

Thank you for considering our proposal. We appreciate the opportunity to collaborate with your esteemed college.

Sincerely,

Asst. Professor
Department of Civil Engineering
K. D. K. College of Engineering
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AutoCAD Syllabus :-

		Essential in AutoCAD (40 Hours)	CADD CENTRE	
S.No	Session	Topics	Type	Duration (min)
1	Session 1	Fundamentals of engineering drawing Introduction to drawing & drafting Types of drawing in engineering drawing Steps to prepare technical drawings Understanding Projections & Quadrants Introduction to AutoCAD: GUI Tool Set File Management Navigation: Zoom, Pan Understanding Coordinate System	Theory / Demo	120
2	Session 2	Basic Drawing Technics Standards: Units, Limits Drafting settings: Snap, Grid, Polar tracking, Dynamic input Basic Drawing tools: Line, Circle Arc, Ellipse, Donut, Polygon, Rectangle, Point Basic Editing tools: Object Selection Technics, Erase, Undo, Redo, Explode	Theory / Demo	120
3	Session 3	Practice examples demonstrated by the instructor during the theory section. Hands-on exercise from your reference guide as guided by the instructor Workbook exercise to the practiced, instructor will guide you on the exercise number to be practiced by the day	Practice	120
4	Session 4	Basic Modify Technics Move, Copy, Rotate, Offset, Mirror, Array, Scale, Stretch, Trim, Extend, Break, Join, Fillet, Chamfer.	Theory / Demo	120
5	Session 5	Practice examples demonstrated by the instructor during the theory section. Hands-on exercise from your reference guide as guided by the instructor Workbook exercise to the practiced, instructor will guide you on the exercise number to be practiced by the day	Practice	120
6	Session 6	Setting Properties Object Properties: Lineweight, Linetype, Color, Match Properties Leader: Introduction, Leader, Q Leader, MLeader, Leader Style Manager Lettering: Guidelines, Text, MText, Text style, Lineweight & Style, Table, Table style, DIM reassociate, DIM jogline & Update	Theory / Demo	120
7	Session 7	Practice examples demonstrated by the instructor during the theory section. Hands-on exercise from your reference guide as guided by the instructor	Practice	120

		Workbook exercise to the practiced, instructor will guide you on the exercise number to be practiced by the day		
8	Session 8	**Dimensions**	Theory / Demo	120
		Dimension Terms & Notations, Rule & Technics, Dimstyle Manager		
		Dimension Creation & Editing Technics: Linear, Aligned, Radial, Angular, Ordinate, Arc length, Baseline dimension & Continuous dimension, Tolerance, Quick measure		
9	Session 9	Practice examples demonstrated by the instructor during the theory section	Practice	120
		Hands-on exercise from your reference guide as guided by the instructor		
		Workbook exercise to the practiced, instructor will guide you on the exercise number to be practiced by the day		
10	Session 10	Multiline, Polyline, Spline, Construction Line, Ray, Wipeout	Theory / Demo	120
		Multiline style, MLine edit, Polyline edit, Spline edit, Grip editing, Array edit, Change space, Reverse, Copy nested, Delete duplicated object, Draw order, Text to front		
11	Session 11	Practice examples demonstrated by the instructor during the theory section	Practice	120
		Hands-on exercise from your reference guide as guided by the instructor		
		Workbook exercise to the practiced, instructor will guide you on the exercise number to be practiced by the day		
12	Session 12	**Hatch Techniques**	Theory / Demo	120
		Introduction: Hatch, patterns & material		
		Hatch: Hatch & Gradient, Options, Hatch edit, Island, Boundary & Fill		
		Layers & Layer Management		
		Layer creation & management, Layer state		
13	Session 13	Practice examples demonstrated by the instructor during the theory section	Practice	120
		Hands-on exercise from your reference guide as guided by the instructor		
		Workbook exercise to the practiced, instructor will guide you on the exercise number to be practiced by the day		

Attendance

	Students Name	Attendance																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
3	Snehal Nagpure	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	A	A	A	P	P
4	Sarthi Ukey	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	P	P	A
5	Pradti Sodiya	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Samiksha Shende	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	Kunali Burade	P	P	P	P	P	P	P	A	A	A	P	P	P	A	P	P	P	A	P	P	P	P	P
8	Janawhi Galande	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P
9	Bhavik Nikode	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	Prachi Palandurkar	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
11	Dharshree Nakade	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P
12	Manasvi Tembe	P	P	A	P	P	P	P	A	A	A	P	A	A	A	A	P	A	P	P	P	P	P	A
13	Nupur Raut	P	P	A	P	P	P	P	A	P	P	P	P	A	P	A	A	P	P	P	P	P	P	A
14	Manjiri Ghubade	P	P	A	P	P	P	A	A	A	A	P	A	A	A	A	A	P	P	P	P	P	P	A
15	Aditya Shamkuvar	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	Habib Hassan Shah	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P
17	Yash Kolhe	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	Roshani Gaiwande	P	P	P	P	P	P	A	A	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P
19	Rachana Shende	P	P	A	P	P	P	P	P	P	P	A	P	P	P	A	A	A	P	P	P	P	P	P
20	Bhagyashree Nanhe	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	A	A	P	P	P	P	P	P
21	Pratikshu Tagde	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	A	A	P	P	P	P
22	Sonali Jawranjal	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	A	P
23	Yash Atkrkar	P	P	A	P	P	P	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P
24	Ankur Borkar	P	P	A	P	P	P	P	P	P	P	P	P	P	A	A	A	A	A	A	A	A	A	A
25	Aman Tembhurane	P	P	P	P	A	A	A	A	P	P	P	P	P	P	A	P	A	A	P	P	P	P	P
26	Nitesh Baragatte	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	A	A	P	P	P	P	P
27	Pranay Parwate	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P
28	Vaibhav K	P	P	A	P	P	P	P	A	P	P	P	P	A	A	A	P	P	A	A	A	A	A	A
29	Sahil Mestram	P	P	A	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
30	Jaswin Rohangdal	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	P
31	Pavan Khode	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P
32	Adarsh Tarankar	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

CADD Centre Dharam Peth

Switch account

* Indicates required question

Name *

Your answer

Mobile Number *

Your answer

Email

Your answer

1. When drawing in 2D, what axis you do not work with ? *

O WCS

o   XZ

o   UCS

2. What you cannot create from command offset ? *

A) Vertical Straights

B) Concentric Circle

C) Three Parallel Lines

D) Parallel Arcs

3. Which of the following is a keyboard shortcut for Ortho mode ? *

○ F7

○ F8

○ F9

○ F2

4. Which is corresponded to zoom mouse wheel ? *

C) Zoom In / Zoom Out

( )Pan & Scan

○ Extents / All

○ Scale

5. Which is the most commonly use File extension of AutoCad ? *

C) .dwg

! O .dxf

O .dws

6. What do the letters UCS ?*

O Uniform Calculator System

O United CAD System

C) Universal CAD Setting

O Universal Coordinate System

7.Short key of Command Bar ?*

- o F9
- o Shift C
- o CTRL 9
- o NONE

SAMPLE FORMAT

CERTIFICATE OF COMPLETION

Institutional Course

AWARDED TO : _____

IN : _____   DURATION: ____ hours

DURING : _____   STUDENT ID: _____

AT : _____

BY : CADD Centre Training Services, Kolkata, New Alipore

MANAGING DIRECTOR   ...URANJAN BHANJA   DATE OF ISSUE
                           CENTRE HEAD

The course is offered by CADD Centre on the software developed by the respective companies.
Institutional Course are specially designed for meeting the academic curriculum requirements. The course offered at the institutes, by qualified trainers and supporting study materials.

CADD® CENTRE

Skills Driven. Job Led

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