DIT
UNIVERSITY
MAGINE ASPIRE ACHIEVE

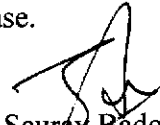# Career Development Centre

Date: September 10, 2022

NOTE FOR APPROVAL

Sub.- Technical Training (AutoCAD) for Civil Engineering 3rd Year (Batch 2020-2024)

1. This is regarding the proposal received from Civil Engineering Department for conducting the Technical Training (AutoCAD).
2. The comparative statement of the two proposals received is given below:

Company Name	Slog Solutions Pvt. Ltd.	Insergo Technologies
Number of Students	40	40
Time Duration	40 Hours	40 Hours
Mode	Offline	Offline
Cost Per Head	Rs. 4,000 + 18% GST	Rs.1,500 + 18% GST
Total Costing	**Rs. 1,88,800**	**Rs. 70,800**
HoD Recommendations		

- As per the recommendations of HoD (Civil Engineering),Training by Insergo Technologies (Annexure-I) will be conducted for 20 days @ 2 hours/day.
- The proposal is submitted for your kind approval and direction please.

Mr. Saurav Badoni
Career Services CDC
DIT University, Dehradun

Module 1: AutoCAD 2D

Day 1:

- Introduction to 2D Modeling(AutoCAD)
- AutoCAD interface
- Coordinate system(absolute, regular, relative polar)

Day 2:

- Basic drawing commands (line, construction line, ray, smoothpoly line, circle, rectangle, arc, ellipse, revision cloud, polygon, donut, point)
- Drafting setting

Day 3 & 4:

- Basic editing commands(erase, move, copy, trim, extend, mirror, offset, rotate, fillet, chamfer, scalar, stretch, break, join array)

Day 5:

- Inquiry tools(layer, distance, ID, area)

Day 6:

- Layer and object properties
- Create and editing text(single line text, multiline text)
- Working with dimensions

Day 7:

- Hatching(associative hatching, non associative hatching)

Day 8:

- Working with blocks(make block, write block)

Day 9:

- Plot a drawing
- Multiline
- Multiline style
- Multiline edit

Day 10:

- Polyline edit
- Revision cloud
- Working with layout

Day 11:

- Dimensioning concept

- Controlling dimensioning style
- Design centre

Day 12:
- External reference
- Working with group

Module 2: AutoCAD 3D

Day 13:
- Introduction to 3d modeling
- Types of 3d model

Day 14:
- Shaded and hidden views
- Creating solid primitives

Day 15:
- Creating models from 2D profiles
- Creating models using sweep

Day 16:
- Creating models using loft
- Creating composite solid

Day 17:
- Working with UCS
- Editing 3d models
- Changing the 3d models position

Day 18:
- Introduction to surface modeling
- Creative surface primitives

Day 19 & 20:
- Projects

Technical Training-AUTOCAD for B.Tech-CE Students

Course: -B.Tech- CE 3rd Year

Organized By- Cetpa Infotech Pvt. Ltd.

Duration:-30 Hrs.

Organized By: Career Development Centre, DIT University

Conducted By: External Agency (Insergo Technologies Pvt. Ltd.)

VAT CODE: VAT 83

Venue:- Visvesvaraya Block

Date:- From 15th September **to** 5th October 2022

Timings:- 2 Hours/Day

Who Uses AutoCAD and Why Is It Important?

In the old days, the only way that engineers and architects could illustrate their ideas was if they drew them out by hand. These days, pen and paper have been replaced by computers and design software like AutoCAD. With digital designs, those ideas are brought to life much faster and more efficiently. So who uses AutoCAD and why is it important? Maybe you! And here are just a few reasons it's so important.

What Is AutoCAD?

AutoCAD is a computer-aided design software developed by the company Autodesk (hence the name AutoCAD). It allows the user to draw and edit digital 2D and 3D designs more quickly and easily than user could by hand. The files can also be easily saved and stored in the cloud, so they be accessed anywhere at any time. Here are a few other benefits of AutoCAD:

Easy Edits: Before the age of computers, a designer would have to manually revise designs. You would have to create an entirely new draft or edit the draft you had, which could become messy and difficult to interpret. With AutoCAD, you can easily change and manipulate designs.

Faster Production: You can create a re-useable block library to replicate design parts. Got a window system that works well? Use it again. A manufacturing component that you'll need over and over. Save it to your block library to increase efficiencies. Saved files can be used and re-used later, which makes the design process faster than if you did it by hand.

Better Accuracy: You can only draw something so small by hand, but AutoCAD allows you to design down to fractions. This creates a more accurate design in all dimensions.

Once your design is created, you can feed into a 3D printer or a machine for a prototype to be created. Or the measurements from the drawing can be used to create parts of something that can be built such as a building or house.

Who Uses AutoCAD?

As a CAD Drafter, you could use AutoCAD across a variety of industries. In mechanical engineering, you might use it to create manufacturing processes as well as to design motor parts, robots, and other innovative objects.

In electrical engineering, you might use it to map out electrical systems, and in civil engineering, you might use it as you help to design bridges and roads. Here are other professionals who use AutoCAD:

Architects: AutoCAD is often used to create blueprints and floor plans for houses and commercial buildings. It also comes with built-in tools that can analyze and remedy weaknesses in a building's design.

Interior Designers: Similarly, AutoCAD can be used to imagine the interior of a building, whether it's an eating space for a restaurant or a living space in a home.

Fine Artists: The abilities of AutoCAD are so wide ranging that even artists use it to draft sculptures, wood carvings, engravings, and experimental art pieces.

Training Outcome: At the end of the training the students will be able to understand:

- The students are able to Easily change or manipulate the design.
- AutoCAD allows the students to design down to fractions. This creates a more accurate design in all dimensions. Now after the training, the students are able to do so.
- The students are able to draw and edit 2D and 3D designs easily.

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Value added course Details (Academic Year: 2022-23)

VAT Course Name: AUTO CAD Technical Training

VAT Code: VAT 83

Duration in Hours: 40

Number of Students Enrolled: 38

Number of Students Completed: 35

Grades:	G= GOOD ; S = Satifactory ; P = Poor ; W = Withdraw		
Student ID	Student Name	Program/Course	Passing Grade
190101025	NIKHILESH NEGI	Bachelor of Technology in Civil Engineering	S
200101004	YALIK SANGAL	Bachelor of Technology in Civil Engineering	S
200101005	SUNIL SINGH BHANDARI	Bachelor of Technology in Civil Engineering	P
200101006	RISHIKESH MISHRA	Bachelor of Technology in Civil Engineering	S
200101011	ANURAG JANGRA	Bachelor of Technology in Civil Engineering	S
200101008	DHRUV SINGH PAYAL	Bachelor of Technology in Civil Engineering	S
200101010	SANJAY CHHETRI	Bachelor of Technology in Civil Engineering	S
200101002	PRASHANT CHOUDHARY	Bachelor of Technology in Civil Engineering	G
200101007	HARSH CHAWLA	Bachelor of Technology in Civil Engineering	S
200101013	OM RAJ CHAUHAN	Bachelor of Technology in Civil Engineering	S
200101014	AMAN RAJ CHAUHAN	Bachelor of Technology in Civil Engineering	S
200101015	SAHIL GAIROLA	Bachelor of Technology in Civil Engineering	S
200101012	SAURAV KUMAR	Bachelor of Technology in Civil Engineering	G
200101016	HARSHIT JOSHI	Bachelor of Technology in Civil Engineering	S
200101018	AADITYA BHATNAGAR	Bachelor of Technology in Civil Engineering	S
200101033	SUYAN SHRESTHA	Bachelor of Technology in Civil Engineering	S
200101017	VIBHAY BHATT	Bachelor of Technology in Civil Engineering	S
200101021	ADITYA RAJ	Bachelor of Technology in Civil Engineering	G
200104006	RAJEEV RANJAN	Bachelor of Technology in Civil Engineering	S
200101036	ABHINIT KUMAR YADAV	Bachelor of Technology in Civil Engineering	S
200101031	AFTAB MIYA MANSURI	Bachelor of Technology in Civil Engineering	S
200101032	REHAN ANSARI	Bachelor of Technology in Civil Engineering	S
200101035	PANKAJ KUMAR JAISWAL	Bachelor of Technology in Civil Engineering	P
210101902	KARTIKA LOHAT	Bachelor of Technology in Civil Engineering	S
210101900	VIKKY KUMAR	Bachelor of Technology in Civil Engineering	S
210101909	MOHD NOMAN ANSARI	Bachelor of Technology in Civil Engineering	S
210101901	SRIJESH MADAN	Bachelor of Technology in Civil Engineering	S
210101903	NIKITA SINGH	Bachelor of Technology in Civil Engineering	G
210101904	JOYDEEP ROY	Bachelor of Technology in Civil Engineering	S
210101912	SAHIL CHAUHAN	Bachelor of Technology in Civil Engineering	S
210101911	SHAVLI PAL	Bachelor of Technology in Civil Engineering	S
210101907	DIVYANK RAWAT	Bachelor of Technology in Civil Engineering	S
210101908	AVIRAL THAPLIYAL	Bachelor of Technology in Civil Engineering	G
210101910	VIVEK UPADHYAY	Bachelor of Technology in Civil Engineering	S
210101914	AYUSH KUMAR MANGWANA	Bachelor of Technology in Civil Engineering	P
210101906	SHANTANU VEDANT	Bachelor of Technology in Civil Engineering	S
210101905	AYUSH NEGI	Bachelor of Technology in Civil Engineering	S
210101913	DIVYANSH PANWAR	Bachelor of Technology in Civil Engineering	G

Career Services Cell
DIT University, Dehradun