



POORNIMA

COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

Report On SKETCHUP WORKSHOP

NAME OF ACTIVITY: Report on SKETCHUP WORKSHOP

DATE & DURATION: 2-8 November 2023

ORGANIZED BY: Department of Civil Engineering

S. No.	Course ID	Workshop Name	No. of Modules	Course Duration	Course Facilitator
1.	AOC-DEP- CIV-TDM	SKETCH UP 3D MODELLING	5	36 Hours	Siddhi Vaid

COURSE ID: AOCE01

COURSE TITLE: SKETCH UP 3D MODELLING

OBJECTIVE:

- Introduce participants to the basics of Sketch Up software.
- Develop skills in creating accurate and detailed 3D models for civil engineering projects.
- Enable participants to visualize and communicate design concepts effectively.
- Facilitate hands-on learning through practical exercises and real-world examples.

COURSE DESCRIPTION:

The SketchUp 3D Modeling Workshop for Civil Engineering Students was organized to equip participants with practical skills in using SketchUp for creating 3D models relevant to civil engineering projects. The workshop aimed to bridge the gap between theoretical knowledge and practical application, providing students with a hands-on experience in a widely-used 3D modeling tool.


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BROCHURE:



COURSE OUTCOME:

S. No.	Course Outcomes
CO1	To remember the basic commands of Sketch up modeling
CO2	To understand the different plans of building like Orthographic projections, Isometric Projections
CO3	To apply the typical Sketch up commands in software.
CO4	To analyze the different Structural Component by using of Sketch up modeling
CO5	To Prepare map of residential and commercial buildings as per assumed specifications in the field of civil engineering


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MAPPING COURSE OUTCOMES WITH PO AND PSO

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
CO2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2
CO3	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-
CO4	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-
CO5	-	-	-	-	-	2	-	-	-	-	-	-	-	3	-

COURSE PRE-REQUISITES:

ENROLMENT CRITERIA: Interested Students of II Year (Civil Engineering)

CERTIFICATION CRITERIA: Mandatory Fulfillments of Criteria 1 and 2

Criteria 1: 80% Attendance

Criteria 2: 80% or above marks in Certification Exam



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COURSE OUTLINE:

CIVIL ENGINEERING SOFTWARE ACADEMY (CESA)


Syllabus SYLLABUS FOR SKETCHUP PRO

Sr. No.	Content	Duration
1.	General Theory related to TRIMBLE SKETCHUP PRO	DAY 1
2.	Graphical User Interface (GUD)	
3.	Brief Technical Understanding (For the Software)	
4.	Introduction sketchup tools & tray settings	
5.	Working with sketchUP Tools bar <ul style="list-style-type: none">• Camera tools• Zoom Tools• Drawing edit & Construction & Principal tools• Working With Group & Component	
6.	Creating Tags / Layers <ul style="list-style-type: none">• Create Tag• Edit Tags• Colour Fill by tag• Create & edit shadows	DAY 2
7.	Warehouses <ul style="list-style-type: none">• 3D Warehouse• Extension Warehose	
8.	Exterior Modeling of G+1 Structure <ul style="list-style-type: none">• Walls• Windows• Doors• Slabs• Floor• Plinth• Compound Walls• Staircase	


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9.	Interior Modeling <ul style="list-style-type: none"> • Component Families • Elements • Creating Sections • Elevations • Cut sections • Materials 	DAY 3
10.	Practice on 1 Assignments	
11.	Introduction to Plugins <ul style="list-style-type: none"> • Face Creator • 1001 bit tools • Curviloft • Fredo tools • Joint Push pull • True bend • Arcitextures 	DAY 4
12.	Practice on 1 Assignments with all plugins	
13.	Creating Scenes <ul style="list-style-type: none"> • Create • Edit • Export 	DAY 5
14.	Creating Animations	
15.	Working On Own projects For Trimble Certification	

Resource Person: The workshop featured guest speaker from the civil engineering industry who shared their experiences in using SketchUp for real-world projects. The speaker provided insights into the practical applications of 3D modeling in civil engineering and its impact on project visualization and communication.


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Hands-on Sessions: Participants engaged in practical exercises throughout the workshop, applying the concepts learned to model elements commonly encountered in civil engineering projects. Exercises included designing building structures, creating topographical landscapes, and integrating imported CAD drawings.

ASSIGNMENT 1:

POORNIMA COLLEGE OF ENGINEERING	
13 Day Technical VAC – Odd Sem Session 2023-24	
Training Domain: <u>Sketchup Pro</u>	Date of Session: <u>02/11/23</u>
Name of the Trainer: <u>Siddhi Vora</u>	Time duration of session: <u>9:30 to 3:30</u>
Class and Lab location: <u>2B 096</u>	
Theory Topics covered: (Please make sure this matches with Deployment shared by yourself)	
<ul style="list-style-type: none">• General theory• User Interface & Brief introduction.• Tray settings• Basic sketchup settings units, dimensions etc.• Working with toolbars1) Drawing tools2) Edit tools3) Construction tools4) Principal tools5) Camera & zoom tools.6) Working with Group & components.	
Questions/Program Solved in the class by students: (Please make sure this matches with Deployment shared by yourself)	
<ul style="list-style-type: none">• Practice on Basic settings & of Sketchup• Assignment on Drawing & Principal toolbars. with camera & zoom settings.	
Questions/Program given to students for assignment: (Please make sure this matches with Deployment shared by yourself)	
<ul style="list-style-type: none">• Assignment of Edit & construction toolbar• Handwritten notes of all tools & settings taught.	



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ASSIGNMENT 2:

POORNIMA COLLEGE OF ENGINEERING	
13 Day Technical VAC – Odd Sem Session 2023-24	
Training Domain: <u>Sketchup Pro</u>	Date of Session: <u>02/11/23</u>
Name of the Trainer: <u>Siddhs Vaid</u>	Time duration of session: <u>9:30 to 3:30</u>
Class and Lab location: <u>2B 096</u>	
Theory Topics covered: (Please make sure this matches with Deployment shared by yourself)	
<ul style="list-style-type: none">• General theory• User Interface & Brief introduction.• Tray settings• Basic sketchup settings units, dimensions etc.• Working with toolbars1) Drawing tools2) Edit tools3) Construction tools4) Principal tools5) Camera & zoom tools.6) Working with Group & components.	
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CERTIFICATE OF PARTICIPATION:



This certificate is for Sameer Choudhary, who has completed the SketchUp Pro 2023 course. The certificate is awarded by Hitesh Lahoti & Associates, Pune, Maharashtra State, India. The course was completed on 29 Jan, 2024. The authentication code is 5FD27F8B6B. The certificate features the SketchUp and Trimble logos, a QR code for authentication, and a background image of a modern building with a glass facade and a star-shaped canopy.

SketchUp

Certificate of Completion

CONGRATULATIONS! You have been awarded this certificate for completion of course at Trimble SketchUp Authorized Training Center which helps professionals to achieve excellence in using our products.

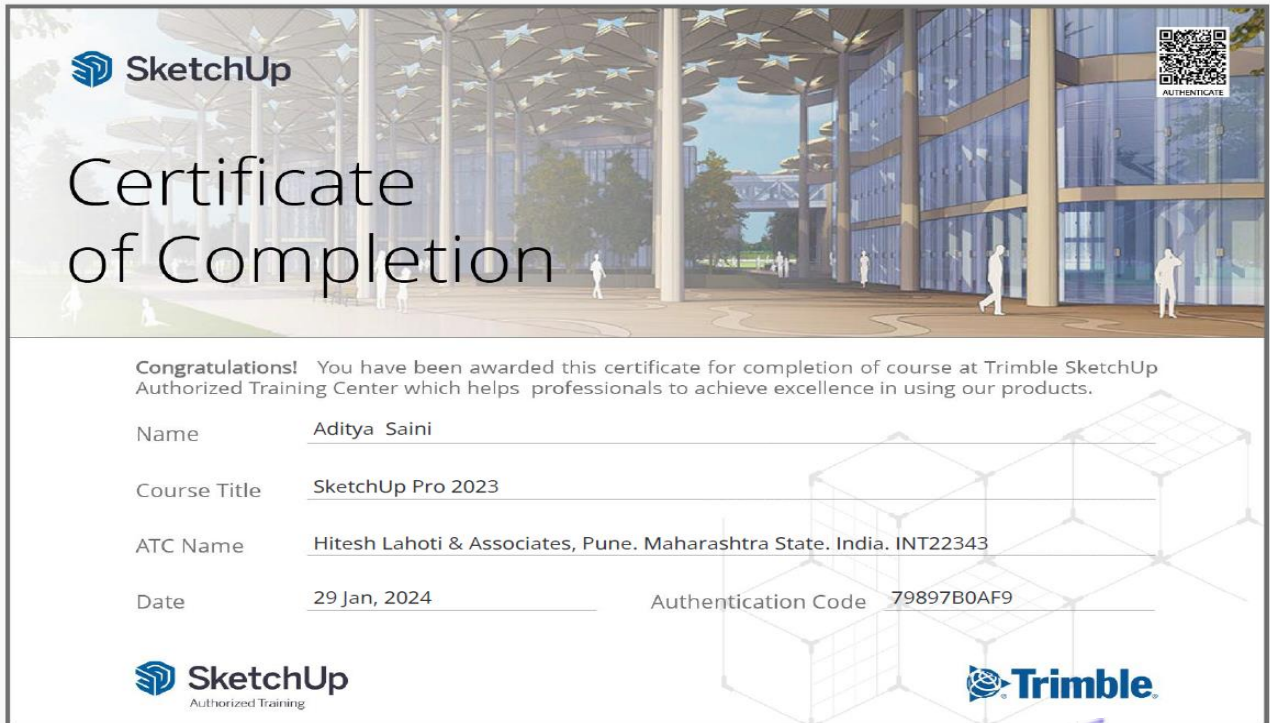
Name: Sameer Choudhary

Course Title: SketchUp Pro 2023

ATC Name: Hitesh Lahoti & Associates, Pune, Maharashtra State, India. INT22343

Date: 29 Jan, 2024 Authentication Code: 5FD27F8B6B

SketchUp Authorized Training **Trimble**



This certificate is for Aditya Saini, who has completed the SketchUp Pro 2023 course. The certificate is awarded by Hitesh Lahoti & Associates, Pune, Maharashtra State, India. The course was completed on 29 Jan, 2024. The authentication code is 79897B0AF9. The certificate features the SketchUp and Trimble logos, a QR code for authentication, and a background image of a modern building with a glass facade and a star-shaped canopy.

SketchUp

Certificate of Completion

CONGRATULATIONS! You have been awarded this certificate for completion of course at Trimble SketchUp Authorized Training Center which helps professionals to achieve excellence in using our products.

Name: Aditya Saini

Course Title: SketchUp Pro 2023

ATC Name: Hitesh Lahoti & Associates, Pune, Maharashtra State, India. INT22343

Date: 29 Jan, 2024 Authentication Code: 79897B0AF9

SketchUp Authorized Training **Trimble**

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ATTENDANCE:

DEPARTMENT OF CIVIL ENGINEERING							
Attendance sheet of Sketchup							
Student list							
S. N	Registration No.	Student Name	Signature	Signature	Signature	Signature	Signature
1	PCE22CE508	Ahtisham rashid					
2	PCE22CE001	Ajay yadav					
3	PCE22CE002	Ansh kumar divvedi					
4	PCE22CE506	Arjun kumar					
5	PCE22CE003	Aryan bairwa					
6	PCE22CE004	Aryan yadav					
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21	PCE22CE021	Sameer choudhary					
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23	PCE22CE023	Sunil kumar ranwa					
24	PCE22CE024	Tanmay kumar					
25	PCE22CE025	Tushar jaiswal					
26	PCE22CE026	Vishal dhawan					
27	PCE22CE027	Yashraj aditya					
28	PCE22CE028	Yuvraj singh gurjar					
29	PCE23CE800	Aditya saini					
30	PCE23CE803	Ravi Ranshan					
31	PCE23CE802	Aman Vishal					
32	PCE23CE804	Vivek kumar					
33	PCE23CE800	Ajay singh chauhan					
34	PCE22CE010	Lokesh Kumawat					

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Attendance sheet of Sketchup

Student list

03-11-2023

S. N	Registration No.	Student Name	Signature	Signature	Signature	Signature	Signature	Signature
1	PCE22CE508	Ahtisham rashid						
2	PCE22CE001	Ajay yadav						
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Attendance sheet of Sketchup

Student list

07/11/2023

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06/11/2023

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Conclusion:

The SketchUp 3D Modeling Workshop for Civil Engineering Students successfully empowered participants with valuable skills and knowledge in using SketchUp for practical applications in civil engineering. The hands-on approach, coupled with insights from industry professionals, contributed to a comprehensive learning experience.

FEW GLIMPSES OF THE EVENT:




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FEEDBACK:

FEEDBACK ANALYSIS (2023-24)							
S.No.	Attributes	Total Feed Back					
1	Did the session meet its objectives?	Outstanding	Excellent	Good	Average	Satisfactory	Remark
		77.21	9.91	5.99	1.20	0.00	
2	Did you find the contents useful?	Outstanding	Excellent	Good	Average	Satisfactory	Remark
		75.25	14.19	7.92	1.11	0.00	
3	Did it help students to enhance their skills or learnings?	Outstanding	Excellent	Good	Average	Satisfactory	Remark
		73.29	16.11	6.49	1.20	0.00	
4	Did you receive uninterrupted Connectivity in case of online sessions?	Outstanding	Excellent	Good	Average	Satisfactory	Remark
		71.20	18.59	5.19	1.32	0.00	
5	How do you rate this session overall?	Outstanding	Excellent	Good	Average	Satisfactory	Remark
		72.29	18.52	6.99	1.00	0.00	
Overall Remark:- These kind of sessions should be conducted in the future too for more awareness.							


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