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List and Reports of Workshops (Session 2023-24)

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)

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Dr. Mahesh Bundele

cornima College of Engineering 131-6, RIICO Institutional Area Stapura, JAIPUR

Poornima College of Engineering, Jaipur List of Workshops Organized in Session 2023-24

S. No	Session	Date of Activity	Name of Activity
1	2023-24	2-8 November 2023	SKETCHUP WORKSHOP
2	2023-24	2-8 November 2023	Staad Pro Workshop
3	2023-24	22 November 2023	Workshop on Total Station
4	2023-24	5 December 2023	Workshop on Technical Writing in MS Word
5	2023-24	14-16 May 2024	Workshop on DIP & Its Application
6	2023-24	20-22 May 2024	Report of Workshop on Market based Cost estimation &
			Quantity Analysis
7	2023-24	2-6 July 2024	Workshop on ETABs
8	2023-24	2-6 July 2024	Workshop on REVIT/BIM
9	2023-24	28-Mar-24	Ethical Dilemma Scenarios Activity
10	2023-24	8 December	Workshop on PCB Designing
11	2023-24	12 October 2023	One Day Workshop to Commemorating International
			Standards Day as MANAK MAHOTSAV
12	2023-24	01-07 november 2023	i3 Training on "Advance Manufacturing"

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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	Course Duration	Course Facilitator
			Modules		
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	-	-	1	-	-	-	-	-	-	-	-	-	-	2
CO3	-	-	3	1	-	-	-	-	-	-	-	-	-	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.	Content	Duration
No.		
1.	General Theory related to TRIMBLE SKETCHUP PRO	
		DAY 1
2.	Graphical User Interface (GUI)	
3.	Brief Technical Understanding (For the Software)	-
4.	Introduction sketchup tools & tray settings	
5.	Working with sketchUP Tools bar Camera tools Zoom Tools Drawing edit & Construction & Principal tools Working With Group & Component	
6.	Creating Tags / Layers	DAY 2
7.	Warehouses • 3D Warehouse • Extension Warehose	
8.	Exterior Modeling of G+1 Structure Walls Windows Doors Slabs Floor Plinth Compound Walls Staircase	

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9.	Interior Modeling • Component Families	
	Elements	
	Creating Sections	DAY 3
	Elevations	DATS
	Cut sections	
	Materials	
10.	Practice on 1 Assignments	
11.	Introduction to Plugins	DAY 4
	Face Creator	
	1001 bit tools	
	Curviloft	
	Fredo tools	
	Joint Push pull	
	True bend	
	Arcitextures	
12.	Practice on 1 Assignments with all plugins	
13.	Creating Scenes	DAY 5
	Create Fair	
	Edit Export	
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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Cornima College of Engineerin ISI-6, FullCO Institutional Area Stepura, JAIPUR **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 Date of Session: 02 11 23 Training Domain: Sketchup Pro Time duration of session: 4:30 to 3:30 Name of the Trainer: 53ddh9 Vord Class and Lab location: 28 076 Theory Topics covered: (Please make sure this matches with Deployment shared by yourself) · General theory User Interface & Brief introduction. Tray settings Basic sketchup settings units, dimensions etc. Working with toolbars Edit tools Construction tools Principal tools Camera & 200m tools. 6) Working with Group & components. Questions/Program Solved in the class by students: (Please make sure this matches with Deployment shared by yourself) 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) Assignment of Edet & construction toolbax 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: Sketchup Pro

Date of Session: 02 11 23

Name of the Trainer: Stdd & Votd

Time duration of session: 9:30 to 3:30

Class and Lab location: 28 076

Theory Topics covered: (Please make sure this matches with Deployment shared by yourself)

- · General theory
- User Interface & Brief introduction .
- Tray settings
- · Basic sketchup adtings units, dimensions etc.
- expedient Att priding
- Drawing tools

 - Construction tools
- 4) Principal tools
- 5) Camera & 200m tools.
- 6) Working with aroup & components.

Questions/Program Solved in the class by students: (Please make sure this matches with Deployment shared by yourself)

- · 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)

- Assignment of Edit & construction toolbax
- Handwritten notes of all tools & settings taught.

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CERTIFICATE OF PARTICIPATION:





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ATTENDANCE:

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25	PCE22CE025	Tushar jaiswal	TOWN	Trips "	Trus	EM	Ctyl	Etry
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Poornima College of Engineering
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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:

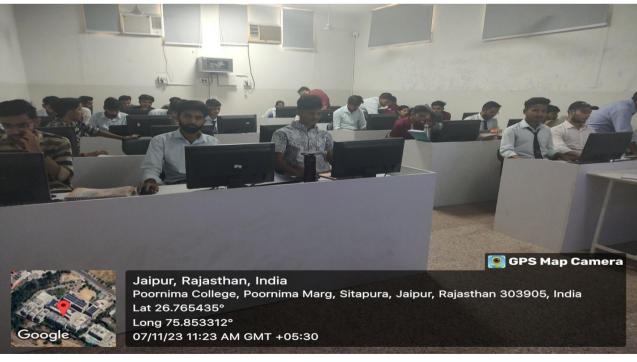


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FEEDBACK:

		FEEDI	BACK ANA	LYSIS (20	23-24)		
S.No.	Attributes		Tota	al Feed Ba	ick		
		Outstanding	Excellent	Good	Awamaga	Satisfactory	Remark
1	Did the session meet its objectives?	Outstanding 77.21	9.91	5.99	Average 1.20	0.00	Kemark
	Did you find	Outstanding	Excellent	Good	Average	Satisfactory	Remark
2	the contents useful?	75.25	14.19	7.92	1.11	0.00	
	Did it help	Outstanding	Excellent	Good	Average	Satisfactory	Remark
3	students to enhance their skills or learnings?	73.29	16.11	6.49	1.20	0.00	
	Did you receive	Outstanding	Excellent	Good	Average	Satisfactory	Remark
4	uninterrupted Connectivity in case of online sessions?	71.20	18.59	5.19	1.32	0.00	
5	How do you rate this	Outstanding	Excellent	Good	Average	Satisfactory	Remark
	session overall?	72.29	18.52	6.99	1.00	0.00	
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Overall Remark:- These kind of sessions should be conducted in the future too for more awareness.

Dr. Mahesh Bundele B.E., M.E., Ph.D.

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

Report On STAADPRO WORKSHOP

NAME OF ACTIVITY: Report on STAADPRO WORKSHOP

DATE & DURATION: 2-8 November 2023

ORGANIZED BY: Department of Civil Engineering

S.No.	Course ID	Workshop Name	No. of	Course	Course Facilitator
			Modules	Duration	
1.	AOC-DEP- CIV-SPRO	STADD PRO	6	40 Hours	MR.RUSHIKESH P TANTAK`

COURSE ID: SPROCE01

COURSE TITLE: STRUCTURAL ANALYSIS AND DESIGNING PROGRAM

OBJECTIVE: The workshop aims to equip students with practical skills in using STAADPRO for structural analysis and design, preparing them for real-world engineering challenges.

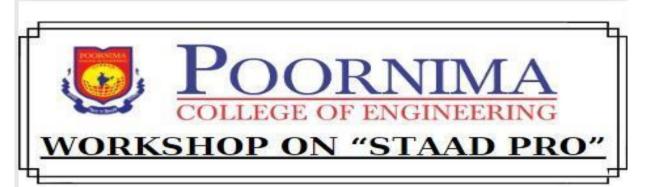
CIRCULAR:

	Student Registration Form(STAADPRO Training)			a	Ø
R	rituraj.rathore@poornima.org to pce.civ.2025 ▼	Fri, 3 Nov 2023, 10:07	*	←	i
	Google Forms				
	Having trouble viewing or submitting this form? FILL OUT IN GOOGLE FORMS				
	I've invited you to fill out a form: Student Registration Form(STAADPRO Training) It is mandatory for all the students of third year to fill out the student registration form till today.				
	Course Name * Student Personal E-mail address * Student First Name *				

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BROCHURE:





To be Organized by: Department of Civil Engineering

2nd to 8th November, 2023 Time: 08:30 AM - 03:30 PM

Venue: Computer Lab
Poornima College of Engineering

Co-ordinator

Mr. Rituraj Singh Rathore Assistant Professor rituraj.rathore@poornima.org +91-7974150748

COURSE DESCRIPTION:

STAAD Pro is a powerful and widely used software application for structural analysis and design. Developed by Bentley Systems, it is a comprehensive and integrated structural engineering tool that allows engineers to analyze and design various types of structures, including buildings, bridges, towers, and industrial structures. The name "STAAD" stands for Structural Analysis and Design, emphasizing its primary functions. This software is renowned for its versatility and efficiency in handling complex structural engineering tasks. It provides a user-friendly interface that enables engineers to model, analyze, and design structures with ease. STAAD Pro supports a wide range of design codes and international standards, making it suitable for projects around the world.

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One of the key features of STAAD Pro is its advanced analysis capabilities. It employs various methods for structural analysis, including linear and nonlinear static analysis, dynamic analysis, and finite element analysis (FEA). Engineers can simulate real-world conditions and assess the performance of structures under different loads and environmental factors. The software's FEA capabilities enable detailed modeling of complex geometries and material behaviors, allowing for more accurate and realistic simulations.

STAAD Pro also excels in its design capabilities, offering comprehensive tools for the design of concrete, steel, and other materials. Engineers can perform code-based design checks, ensuring that structures comply with relevant design codes and safety standards. The software provides automated design optimization features, allowing engineers to iteratively refine their designs for better efficiency and cost-effectiveness. Additionally, STAAD Pro facilitates the generation of detailed and customizable reports, making it easy to communicate design information to project stakeholders. The modeling capabilities of STAAD Pro contribute to its widespread adoption in the engineering community. Engineers can create 3D models of structures using a variety of elements, such as beams, columns, slabs, and foundations. The graphical interface enables intuitive modeling and visualization of the entire structure, streamlining the design process. Furthermore, the software supports interoperability with other design and analysis tools, allowing for seamless collaboration and data exchange between different software platforms.

COURSE OUTCOME:

S. No. Course Outcomes

CO1 To understand the basic commands of STADD Pro.

CO2 To Apply the typical loading in STADD Pro software.

CO3 To Analyze the different structural components by using of STADD Pro software

MAPPING COURSE OUTCOMES WITH PO AND PSO

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	-	1	-	-	1	1	-	-	-	-	3	-	-
CO2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3
CO3	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director Poornima College of Engineerin **COURSE PRE-REQUISITES:** Students learn about recent techniques, latest software & innovative outcome based learning to analyze and evaluate the concepts of civil engineering to make his personality competent enough to fulfill the gap between academic and industry.

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

CERTIFICATION CRITERIA: Mandatory Fulfillments of Criteria 1 and 2

Criteria 1: 80% Attendance

Criteria 2: Certification will depends on assignments submission

COURSE OUTLINE:

The course outline covered a range of topics, including but not limited to:

Introduction to STAADPRO: Understanding the basics of the software, its interface, and its capabilities.

Structural Analysis Concepts: Teaching fundamental concepts of structural analysis, including loadings, supports, and reactions.

Modeling Structures: Hands-on experience in creating 3D models of various types of structures within STAADPRO.

Loading and Boundary Conditions: Learning how to apply different types of loads and constraints to the structural models.

Analysis Procedures: Understanding the step-by-step procedures for structural analysis using STAADPRO.

Interpretation of Results: Interpreting and analyzing the output results from STAADPRO, including deflections, reactions, and member forces.

Design Codes and Standards: Familiarization with the design codes and standards used in STAADPRO for ensuring the safety and adequacy of structures.

Optimization and Iterative Design: Exploring techniques for optimizing structural designs and making iterative changes.

Dynamic Analysis: Introducing dynamic analysis concepts for structures subjected to dynamic loads such as earthquakes or wind.

Practical Applications: Showcasing real-world applications of STAADPRO in civil engineering projects.

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Resource Person:

The workshop featured experienced resource person who was expert in the field of structural engineering and proficient in using STAAD Pro. He delivered engaging and informative sessions, providing insights into real-world applications.

Participant Profile:

The workshop attracted participants from diverse backgrounds, including civil engineering students, practicing engineers, and professionals in the construction industry. This diversity contributed to a rich exchange of ideas and experiences.

Hands-on Sessions:

Participants had the opportunity to apply the theoretical concepts learned in practical, hands-on sessions. These sessions allowed them to work on case studies, giving them a better understanding of how to apply STAAD Pro to solve real-world structural engineering problems.

Conclusion:

The STAAD Pro workshop proved to be a valuable platform for participants to enhance their skills and knowledge in structural analysis and design. The combination of theoretical sessions, and interactive discussions contributed to a comprehensive learning experience. The workshop successfully met its objectives and left participants better equipped to apply STAAD Pro in their professional practice.

Overall, the STAAD Pro workshop was a commendable initiative that contributed to the continuous learning and skill development of structural engineers and professionals in the field.

Dr. Mahesh Bundele

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ATTENDANCE LIST:

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Dr. Mahesh Bundele B.E. M.E. Pho.

Poornima College of Engineering 131-6, RIICO Institutional Area Stlapura, JAIPUR

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Dr. Mahesh Bundele
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Poornima College of Engineering
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Dr. Mahesh Bundele B.E., M.E., Ph.D. Director

Pornima College of Engineering
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Dr. Mahesh Bundele

Poornima College of Engineering 13:-6, RIICO Institutional Area Stlapura, JAIPUR

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33	PCE21CE030	RAHUL KUMAR MEENA	Pahul	Pond	Pahyl	Pahy	Pahy	pary	
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39	PCE21CE035	RAVI MEENA			7				-
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Director

Director

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Ollapura, JAIPUR

ASSIGNMENT 1:

Analyze and design the following two storied building.

Building specifications to be taken as:

Slab thickness : 125mm

Floor finish : 20thk Granite Floor Live load : Store & Hall - 5KN/m2

: Rest other portion - 2 KN/m2 : Terrace - 3KN/m2

Wall thickness : 230 mm Conc. Density : 25KN/m3

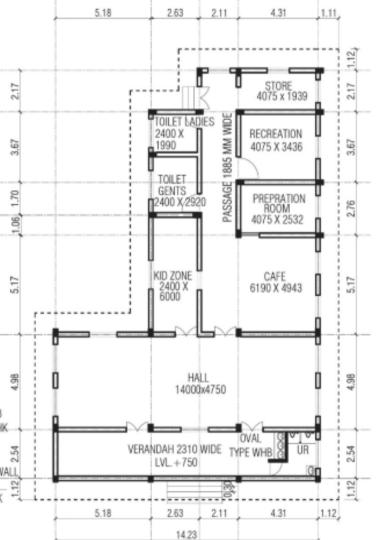
Depth & footing =1.2 m Plinth height =0.75





FRONT ELEVATION

L0.75 m



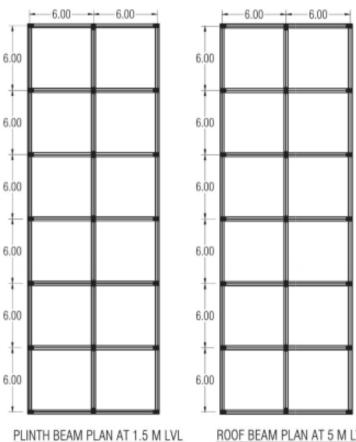
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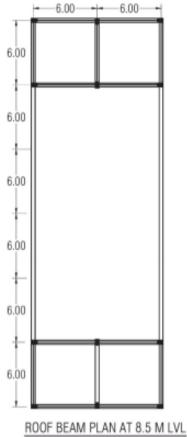
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ASSIGNMENT 2:

Analyze the RCC building with given parameters.





ALL BEAMS - 0.30 M X 0.30 M

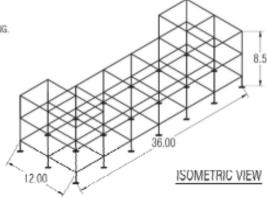
ROOF BEAM PLAN AT 5 M LVL ALL BEAMS = 0.45 M X 0.30 M

ALL BEAMS - 0.45 M X 0.30 M

ALL COLUMN SIZES - 0.3M X 0.45M KEEP THE ORIENTATION OF COLUMNS AS GIVEN IN DRAWING.

PARAMETERS:-

OUTER WALL-0.230 THK WALL INNER WALL - 0.115 THK PARAPET WALL = 0.115 THK WALL 1 M HIGH SLAB THICKNESS -0.150m FLOOR FINISH - 1.5 KN/m2 LIVE FLOOR LOAD- 3 KN/m2

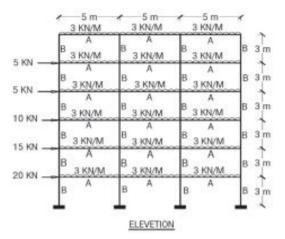


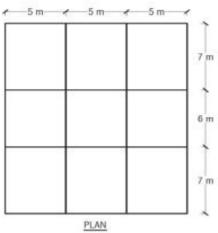
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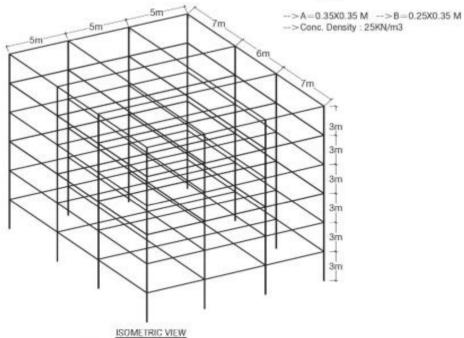
Director Poornima College of Engineering 131-6, Fulco Institutional Area Stapura, JAIPUR

ASSIGNMENT 3:

Analyze the following structure and find the maximum bending moment and shear force in every member.floor load to be taken as 3kn/m²







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CERTIFICATE:

Be	entley	
Certificate	of Accomplishment	
THIS CERTI	FICATE IS PRESENTED TO	
	Nitin Kumar	
	successful completion of me on STAAD.Pro CONNECT Edition El	N EN
Product: STAAD.Pro	Version: CONNECT Edition	
Course Date: November 4, 2023 - December 3, 2023	Learning Units: 45	
Training Partner: Hitesh Lahoti & Associates		
	amittehan	
	Amit Trehan	D
	irector, User Learning Bentley Systems Inc.	Bentley

FEW GLIMPSES OF THE EVENT:



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Director
Poornima College of Engineering
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FEEDBACK:

		FEEI	DBACK AN	ALYSIS (2023-24)		
S.No.	Attributes		Tota	al Feed Ba	ick		100
	Did the session	Outstanding	Excellent	Good	Average	Satisfactory	Remark
1	meet its objectives?	70.21	15.39	8.39	1.00	0.00	
	Did you find	Outstanding	Excellent	Good	Average	Satisfactory	Remark
2	the contents useful?	73.20	19.59	6.19	1.00	0.00	
	Did it help	Outstanding	Excellent	Good	Average	Satisfactory	Remark
3	3 students to enhance their	71.25	19.29	7.19	1.10	0.00	

	skills or learnings?						
	Did you	Outstanding	Excellent	Good	Average	Satisfactory	Remark
4	receive uninterrupted Connectivity in case of online sessions?	72.20	18.59	6.11	1.11	0.00	
5	How do you rate this	Outstanding	Excellent	Good	Average	Satisfactory	Remark
	session overall?	71.39	19.19	6.19	1.00	0.00	

Overall Remark:- These kind of sessions should be conducted in the future too for more awareness.

Dr. Mahesh Bundele

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

Report On Total Station

NAME OF ACTIVITY: Workshop on Total Station

DATE & DURATION: 22 November 2023

ORGANIZED BY: Department of Civil Engineering

OBJECTIVE: The objective might include:

Operational Understanding:

- Learn how to set up and calibrate a Total Station for accurate measurements.
- Gain proficiency in operating the instrument for distance, angle, and coordinate measurements.

Data Collection and Management:

- Explore techniques for efficient data collection using Total Station.
- Understand the process of managing and storing collected data.

Field Surveying Techniques:

- Apply Total Station technology in real-world field survey scenarios.
- Practice different surveying techniques such as traversing, leveling, and stakeout.

Accuracy and Error Analysis:

- Learn methods for assessing and minimizing errors in Total Station measurements.
- Understand the factors that contribute to measurement accuracy and precision.

Software Utilization:

- Familiarize participants with software used for data processing and analysis in conjunction with Total Station measurements.
- Provide hands-on experience with Total Station software for generating maps and reports.

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Integration with Other Technologies:

 Explore how Total Station technology integrates with other surveying and mapping technologies (e.g., GPS, GIS).

Best Practices and Safety:

- Emphasize safety protocols during Total Station operation.
- Discuss best practices for efficient and accurate surveying using Total Station equipment.

Hands-On Practical Exercises:

- Engage participants in practical exercises to reinforce theoretical concepts.
- Provide real-world scenarios for participants to apply their Total Station skills.

COURSE OUTCOMES:

- Gain proficiency in operating the Total Station for conducting accurate field surveys and measurements.
- Understand the principles and methodologies of Total Station to perform topographic mapping and layout marking.
- Demonstrate teamwork and communication skills in conducting collaborative field surveys using Total Station.

MAPPING OF CO WITH PO AND PSO

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

INTRODUCTION

Department of Civil Engineering conducted a one-day workshop for 2nd year students of Civil Engineering on 22 November 2023. This workshop was aimed to groom civil engineering students with essential knowledge and exposure to the real work with Total Station and to encourage leadership and teamwork skills.

The one-day workshop was divided into two sessions. In first session (morning) theory part was covered. 2 Hours lecture delivered by Mr. Prateek Sharma (Assistant Professor) on Total Station, E.D.M, parts of Total Station & Uses of Total Station. In Second session (afternoon) demonstration and Field work covered with help of Mr. Satendra Sharma (Technician).

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Total No of Participants: 28

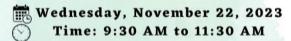
BROCHURE:



About The Workshop

The Total Station is a surveying instrument that combines electromagnetic distance measuring and electronic theodolite. This workshop aims to provide civil engineering students with hands-on experience, knowledge, and leadership skills to work with Total Station, understand its uses, and take readings. The workshop will offer experiential learning opportunities to gain firsthand knowledge about surveying fieldwork.

To be organized by: Department of Civil Engineering



Venue: Room no. 1004 & Volleyball Ground Poornima College of Engineering Jaipur

RSVP Mr. Prateek Sharma Assistant Professor +91-9950267733







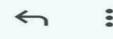
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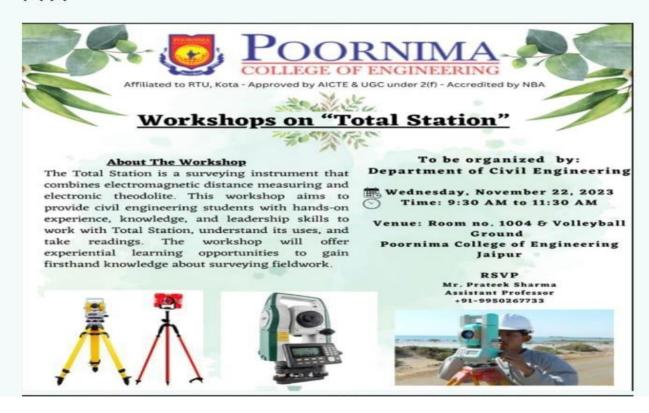
CIRCULAR:



Prateek Sharma 2 days ago to PCE, Satendra, me, H... ~



Dear Students,
Department of Civil Engineering plans a one-day
workshop (2 Hrs) for 2nd year students of Civil
Engineering on 22 November 2023.
Timing – 9.30 -11.30 A.M.
Faculty Coordinator – Prateek Sharma (9950267733)
Venue: Room No.1004 & Volleyball Ground, Poornima
College of Engineering, Jaipur
PFA



Workshop Details

ABOUT INSTRUMENT

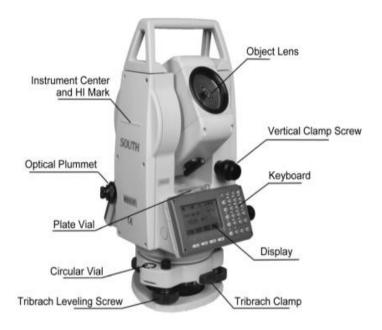
A total station (TS) or total station theodolite (TST) is an electronic/optical instrument used for surveying, levelling for construction work. Robotic or motorized total stations allow the

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operator to control the instrument from a distance via remote control. It is an electronic transit theodolite integrated with electronic distance measurement (EDM) to measure both vertical and horizontal angles and the slope distance from the instrument to a particular point, and an onboard computer to collect data and perform triangulation calculations. This eliminates the need for an assistant staff member as the operator holds the retro reflector and controls the total station from the observed point. These motorized total stations can also be used in automated setups known as Automated Motorized Total Station (AMTS).





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WORKING PROCESS

This is the best instrument to carry out survey. The total station was switched on and then the required data pertaining to the groups allotted were entered. Then using the system of laser reflection, we assumed various points to take the fore sight reading. The instrument was then processed to measure the reading of the specific point. Thus, the data was saved and the results were taken out on a sheet with the help of a computer.

APPLICATIONS OF TOTAL STATION

Total stations are mainly used by land surveyors and civil engineers, either to record features as in topographic surveying or to set out features (such as roads, houses or boundaries). They are also used by archaeologists to record excavations and by police, crime scene investigators, and private accident reconstruction and insurance companies to take measurements of scenes.

Mining Purpose

Total stations are the primary survey instrument used in mining surveying. A total station is used to record the absolute location of the tunnel walls, ceilings (backs), and floors as the drifts of an underground mine are driven. The recorded data are then downloaded into a CAD program, and compared to the designed layout of the tunnel. The survey party installs control stations at regular intervals. These are small steel plugs installed in pairs in holes drilled into walls or the back. For wall stations, two plugs are installed in opposite walls, forming a line perpendicular to the drift. For back stations, two plugs are installed in the back, forming a line parallel to the drift. A set of plugs can be used to locate the total station set up in a drift or tunnel by processing measurements to the plugs by intersection and resection.

Mechanical and electrical construction

Total stations have become the highest standard for most forms of construction layout. They are most often used in the X and Y axis to lay out the locations of penetrations out of the underground utilities into the foundation, between floors of a structure, as well as roofing penetrations. Because more commercial and industrial construction jobs have become centered on building information modelling (BIM), the coordinates for almost every pipe, conduit, duct

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and hanger support are available with digital precision. The application of communicating a virtual model to a tangible construction potentially eliminates labour costs related to moving poorly measured systems, as well as time spent laying out these systems in the midst of a full-blown construction job in progress.

Meteorology

Meteorologists also use total stations to track weather balloons for determining upper-level winds. With the average ascent rate of the weather balloon known or assumed, the change in azimuth and elevation readings provided by the total station as it tracks the weather balloon over time are used to compute the wind speed and direction at different altitudes. Additionally, the total station is used to track ceiling balloons to determine the height of cloud layers. Such upper-level wind data is often used for aviation weather forecasting and rocket launches.

FUNCTION

Angle measurement

Most total station instruments measure angles by means of electro-optical scanning of extremely precise digital bar-codes etched on rotating glass cylinders or discs within the instrument. The best quality total stations are capable of measuring angles to 0.5 arc-second. Inexpensive "construction grade" total stations can generally measure angles to 5 or 10 arc-seconds.

Distance measurement

Measurement of distance is accomplished with a modulated infrared carrier signal, generated by a small solid-state emitter within the instrument's optical path, and reflected by a prism reflector or the object under survey. The modulation pattern in the returning signal is read and interpreted by the computer in the total station. The distance is determined by emitting and receiving multiple frequencies, and determining the integer number of wavelengths to the target for each frequency. Most total stations use purpose-built glass prism (surveying) reflectors for the EDM signal. A typical total station can measure distances up to 1,500 meters (4,900 ft) with an accuracy of about 1.5 millimetres $(0.059 \text{ in}) \pm 2$ parts per million. Reflector less total stations can measure distances to any object that is reasonably light in colour, up to a few hundred meters.

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Coordinate measurement

The coordinates of an unknown point relative to a known coordinate can be determined using the

total station as long as a direct line of sight can be established between the two points. Angles

and distances are measured from the total station to points under survey, and the coordinates (X,

Y, and Z; or easting, northing, and elevation) of surveyed points relative to the total station

position are calculated using trigonometry and triangulation.

To determine an absolute location, a total station requires line of sight observations and can be

set up over a known point or with line of sight to 2 or more points with known location, called

free stationing.

For this reason, some total stations also have a Global Navigation Satellite System receiver and

do not require a direct line of sight to determine coordinates. However, GNSS measurements

may require longer occupation periods and offer relatively poor accuracy in the vertical axis.

Data processing

Some models include internal electronic data storage to record distance, horizontal angle, and

vertical angle measured, while other models are equipped to write these measurements to an

external data collector, such as a hand-held computer.

When data is downloaded from a total station onto a computer, application software can be used

to compute results and generate a map of the surveyed area. The newest generation of total

stations can also show the map on the touch-screen of the instrument immediately after

measuring the points.

Conclusion:

The main focus of the workshop will provide field knowledge about Total Station, its use on

field. It's working process on field. Also, too familiar with E.D.M Based instrument.

Dr. Mahesh Bundele

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Attendance:

Poornima College of Engineering, Jaipur Department of Civil Engineering									
17									
		Workshop on "Total Static							
		Attendance (22/11/2023							
S.No.	Reg. No	Student Name	Signature						
1	PCE22CE508	AHTISHAM RASHID	Christian						
2	PCE22CE001	AJAY YADAV	Jaysodn						
3	PCE22CE002	ANSH KUMAR DVIVEDI	Areb_						
4	PCE22CE506	ARJUN KUMAR	ABSENT						
5	PCE22CE003	ARYAN BAIRWA	dougan						
6	PCE22CE004	ARYAN YADAV	Arsten						
7	PCE22CE005	HIMANSHU MEENA	Himonshu						
8	PCE22CE006	LOKESH KUMAWAT	(July ?						
9	PCE22CE007	MANISH KARWASARA	Marish						
10	PCE22CE008	MAYANK MEENA	mayank,						
11	PCE22CE009	MOHAMMAD MONISH RAZA	ABSENT						
12	PCE22CE010	MOHAMMED ADIL	Adil						
13	PCE22CE011	MS ASTHA GARG	ABSENT						
14	PCE22CE013	MS JAHNAVI NINAMA	Jahnali o Ninama						
15	PCE22CE012	MS PARUL SHARMA	Jarul Sharma						
16	PCE22CE031	NITIN SHARMA	Chinghant.						
17	PCE22CE015	PAVAN GURJAR	(पनन 30%						
18	PCE22CE017	PRAGYA SHEKHAWAT	Pragya.						
19	PCE22CE018	RAJESH JANGIR	ABSENT						
20	PCE22CE019	ROHIT PRAJAPATI	Rohit						
21	PCE22CE020	SAMEER BAIRWA	Cute						
22	PCE22CE021	SAMEER CHOUDHARY	5						
23	PCE22CE022	SIDDHARTH SAINI							
24	PCE22CE023	SUNIL KUMAR RANWA	Surul						
25	PCE22CE024	TANMAY KUMAR	ABSENT						
26	PCE22CE025	TUSHAR JAISWAL	tres						
27	PCE22CE026	VISHAL DHAWAN	1/90 hamas						
28	PCE22CE027	YASHRAJ ADITYA	ABSENT						
29	PCE22CE028	YUVRAJ SINGH GURJAR	Yurkey						
30	PCE23CE800	ADITYA SAINI	D.						
31	PCE23CE801	AJAY SINGH CHOUHAN	अजय जिंह						
32	PCE23CE802	AMAN VISHAL	Aman ming						
33	PCE23CE803	RAVI RAUSHAN	Tay Fausius						
34	PCE23CE804	VIVEK KUMAR	Vivek Lunar						

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FEW GLIMPSES OF THE EVENT:





FEEDBACK:

FEEDBACK ANALYSIS (2023-24) Total Feed Back 100									
S.No.	Attributes		100						
		Outstanding	Excellent	Good	Average	Satisfactory	Remark		
1	Did the session meet its objectives?	70.21	11.91	9.99	1.00	0.00			
	Did you find	Outstanding	Excellent	Good	Average	Satisfactory	Remark		
2	the contents useful?	71.25	19.19	7.92	1.11	0.00			
	Did it help	Outstanding	Excellent	Good	Average	Satisfactory	Remark		
3	students to enhance their skills or learnings?	73.29	16.11	6.49	1.20	0.00			
	Did you	Outstanding	Excellent	Good	Average	Satisfactory	Remark		
4	receive uninterrupted Connectivity in case of online sessions?	71.20	19.59	5.19	1.32	0.00			
5	How do you rate this	Outstanding	Excellent	Good	Average	Satisfactory	Remark		
session overall?		72.29	18.52	6.99	1.00	0.00			
Overa	ll Remark:- Thes	e kind of session	ns should be	conducted	l in the futur	re too for more a	awareness.		

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Report OnWorkshop on Technical Writing in MS-Word

NAME OF ACTIVITY: Workshop on Technical Writing in MS-Word

DATE & DURATION: 05 December, 2023

ORGANIZED BY: Department of Civil Engineering

RESOURCE PERSON: Dr. Vishal Singhal

EXPECTED OUTCOMES:

- Students will develop proficiency in using MS Word for technical writing, including formatting, referencing, and content organization.
- Students will understand the importance of clarity, structure, and professionalism in technical documents.
- Students will learn to apply advanced features of MS Word to prepare professional-level reports, manuals, and presentations

MAPPINGS WITH PO&PSO:

CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong

СО		PO											PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-
CO2	-	-	-	-	-	-	-	-	-	3	-	-	-	3	-
CO3	-	-	-	-	-	-	-	-	-	-	-	3	-	-	3

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OBJECTIVE: The Workshop on Technical Writing in MS Word was conducted with the aim of equipping participants with the essential skills and knowledge required for effective technical writing using Microsoft Word.

About the Workshop:

Technical writing is a crucial skill for students pursuing various fields of study. Whether you are an engineering, business, or humanities student, the ability to communicate complex information clearly and concisely is invaluable. The workshop focused on providing practical insights, handson exercises, and best practices to enhance the participants' proficiency in creating clear, concise, and well-structured technical documents.

BROCHURE:



A Workshop on "Technical Writing in MS Word"

Organized by : -Department of Civil Engineering

- Tuesday, 5th December, 2023
- 1:20 pm to 3:20 pm
- 1001A (Computer Lab), Poornima College of Engineering, Jaipur

Coordinator: Dr. Vishal Singhal
Assistant Professor, Civil Department

Dr. Mahesh Bundel

Octnima College of Engineerin 131-6, RIICO Institutional Area Stlapura, JAIPUR

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Microsoft Word Features for Technical Writing:

1. Styles and Formatting:

Utilize word's built-in styles for headings, subheadings, and body text. Consistent formatting enhances document professionalism and readability.

2. Table of Contents:

Microsoft word allows automatic generation of a table of contents based on heading styles. This feature simplifies document navigation and provides a quick overview.

3. Inserting Graphics and Visuals:

Enhance understanding by incorporating visuals such as charts, graphs, and images. Word facilitates easy insertion and formatting of visuals within the document.

4. Collaboration Tools:

Take advantage of word's collaboration features, such as comments and track changes, when working on documents with peers or receiving feedback from instructors.

5. Table Tools:

Effectively present data using tables. Word provides robust table tools for creating, formatting, and modifying tables to organize and display information.

Best Practices for Technical Writing in Microsoft Word:

1. Proofreading and Editing:

Use Word's spelling and grammar check tools, and also manually proofread your document for errors. A polished document reflects professionalism.

Dr. Mahesh Bundele
B.E. M.E. Ph.D.
Director

Poornima College of Engineerin
ISI-6, Fulco Institutional Area

Stapura, JAIP

2. Version Control:

Save and manage different versions of your document using word's version control features. This ensures you can track changes and revert to previous versions if needed.

3. Document Security:

Familiarize yourself with word's security features, including password protection and document encryption, to safeguard sensitive information.

Workshop Highlights:

1. Hands-On Exercises:

Participants engaged in practical exercises to apply the concepts learned, creating sample technical documents using MS Word. This allowed them to gain a firsthand understanding of the tools and techniques discussed.

2. Interactive Sessions:

The workshop fostered an interactive environment, encouraging participants to ask questions, share their experiences, and engage in discussions about challenges and solutions in technical writing.

3. Best Practices and Common Pitfalls:

The facilitators discussed best practices in technical writing and highlighted common pitfalls to avoid. This session aimed to equip participants with the knowledge to produce high-quality documents while steering clear of common errors.

4. Hands-on Exercises:

The workshop incorporated practical exercises where participants had the opportunity to apply the concepts learned. These exercises included creating a technical document from scratch, formatting it appropriately, and receiving constructive feedback.

5. Q&A Session:

An interactive Q&A session allowed participants to seek clarification on specific challenges they faced in their professional context. The facilitators provided practical solutions and shared additional tips based on their experience.

Participant Feedback:

Participants were encouraged to provide feedback on the workshop content, delivery, and overall experience. Evaluations indicated a positive response, with participants expressing increased confidence in their technical writing skills using MS Word.

Poornima College of Engineering

Voices of Participants:

"The workshop was incredibly useful for improving my technical writing skills. The hands-on

exercises really helped solidify the concepts." - PCE21CE024, NITIN KUMAR

"I appreciated the focus on MS Word features specifically tailored for technical documentation.

It has already made a difference in my work."

- PCE22CE508, AHTISHAM RASHID

Conclusion:

The Workshop on Technical Writing in MS Word was a resounding success, providing

participants with the skills and knowledge needed to excel in the field of technical writing. The

interactive and practical approach ensured that participants could immediately apply what they

learned. The positive feedback received indicates a strong demand for similar workshops in the

future, showcasing the importance of continued education in technical communication.

Future Initiatives:

Considering the positive response, there are plans to conduct more workshops and training

sessions on related topics. The aim is to continue supporting professionals in honing their

technical writing skills and staying updated on the latest tools and techniques.

In conclusion, the Workshop on Technical Writing in MS Word served as a valuable platform for

professional development, fostering a community of proficient technical writers eager to excel in

their respective fields.

Dr. Mahesh Bundele

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Attendance:

Attendance- III SEM

		Poornima College of Engineering	
		Department of Civil Engineering	
		Students List	
Roll no.	Reg. No.	Name of Student	Signature
1	PCE22CE508	AHTISHAM RASHID	Altishan
2	PCE22CE001	AJAY YADAV	Haysalm
3	PCE22CE003	ARYAN BAIRWA	, Lesan
4	PCE22CE004	ARYAN YADAV	Arnem
. 5	PCE22CE015	PAVAN GURJAR	(पनन १५०)
6	PCE22CE018	RAJESH JANGIR	Rajest jugos
7	PCE22CE023	SUNIL KUMAR RANWA	Sunil
8	PCE22CE025	TUSHAR JAISWAL	TUSHOY.
9	PCE23CE800	ADITYA SAINI	Q S
10	PCE22CE801	AJAY SINGH CHOUHAN	Pinn

Attendance- VSEM

	Po	oornima College of Engineering, Jaip	pur
		Department of Civil Engineering	
		Students List	
S.No.	Registration Number	Name	Signature
1	PCE21CE002	AASHISH CHAUHAN	Jachish
2	PCE21CE003	ABHISHEK	glu
3	PCE21CE007	ANKIT KUMAR MEENA	Awrit Meerel.
4	PCE21CE010	DEVANSHI MEENA	Day
5	PCE21CE017	KESHAV KUMAR	Keshow
6	PCE21CE019	MANISH PRAJAPAT	Mariey
7	PCE21CE022	MOHD KAIF LANGA	Kaut
8	PCE21CE023	NAVEEN SINGH	Direct-
9	PCE21CE024	NITIN KUMAR	Nah
10	PCE21CE028	RAGHAV KUMAR SHARMA	Roster
11	PCE21CE034	RAVI KUMAR SHARMA	Rain
12	PCE21CE039	SHIVANI VERMA	Shipme
13	PCE21CE042	SUJATA KUMARI	Lights
14	PCE21CE043	TANMAY BARGOT	Innegal
15	PCE21CE045	TILAK RAJ	Tilak
16	PCE21CE046	VIJAY KUMAR	the said
17	PCE22CE703	KASHIF SHAKEEL	(Cashhuani
18	PCE22CE704	MANMOHAN SINGH	(Daniely and
19	PCE22CE800	NEETESH MEENA	Midda
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Dr. Mahesh Bundele

Poornima College of Engineering ISI-6, RIICO Institutional Area Stlapura, JAIPUR

CERTIFICATE:

Workshop

On

"MS Word"

Organized By

Department of Civil Engineering

&

Poornima College of Engineering, Jaipur, Rajasthan

Participation Certificate

C. ID: 2023-24/CE/009

This is to certify that Mr. Nitin Kumar of Poornima College of Engineering, Jaipur has participated in the "MS Word Workshop" held from 05/10/2023 at Poornima College of Engineering, Jaipur, Rajasthan.

P. N. Dadhich

Head of Department Coordinator

FEW GLIMPSES OF THE EVENT:





Google

Murlipura at Mishra Ka Barh, Rajasthan, India QV83+3HV, Sitapura, Murlipura at Mishra Ka Barh, Jaipur, Rajasthan 303905, India Lat 26.765193° Long 75.85353° 05/12/23 01:58 PM GMT +05:30





FEEDBACK:

	FEEDBACK ANALYSIS (2023-24) Total Feed Back 100									
S.No.	Attributes		Tota	al Feed Ba	ick		100			
						G 10 0				
	Did the session	Outstanding	Excellent	Good	Average	Satisfactory	Remark			
1	meet its objectives?	75.21	11.91	5.29	1.20	0.00				
	Did you find	Outstanding	Excellent	Good	Average	Satisfactory	Remark			
2	the contents useful?	75.88	14.19	7.92	1.11	0.00				
	Did it help	Outstanding	Excellent	Good	Average	Satisfactory	Remark			
3	students to enhance their skills or learnings?	73.29	16.11	6.49	1.20	0.00				
	Did you receive	Outstanding	Excellent	Good	Average	Satisfactory	Remark			
4	uninterrupted Connectivity in case of online sessions?	71.20	18.59	5.19	1.32	0.00				
5	How do you rate this	Outstanding	Excellent	Good	Average	Satisfactory	Remark			
	session overall?	72.29	18.52	6.99	1.00	0.00				
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Overall Remark:- These kind of sessions should be conducted in the future too for more awareness.

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Report - Hands on Training in Digital Image Processing & its Applications

NAME OF ACTIVITY: Workshop on Hands on Training in Digital Image Processing & its Applications

DATE & DURATION: May 14-16, 2024

ORGANIZED BY: Department of Civil Engineering

RESOURCE PERSON: Dr. Pran Nath Dadhich

DATE: 14/05/2024 to 16/05/2024

OUTCOMES:

CO1: Gain hands-on experience in using modern tools and techniques essential for civil engineering applications.

CO2: Understand the importance of sustainability in civil engineering practices and its impact on the environment.

CO3: Develop the ability to work collaboratively in a team to execute engineering tasks and communicate findings effectively.

MAPPING OF COS WITH POS AND PSOS:

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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CO2	-	-	-	-	-	2	1	-	-	-	-	-	-	-	3
CO3	-	-	-	-	-	-		-	3	-	-	-	-	2	-

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director

OBJECTIVE:

- Train the participants with the theoretical concepts of the digital image processing techniques with main emphasize to remote sensing applications.
- Understanding of various state-of-art techniques in image processing.
- Training on the development of pattern recognition and digital image analysis algorithms.
- Knowledge and hands-on training of software for image analysis.
- Training of the students with recent developments in digital image processing in industries.

CIRCULAR

Workshop on Hands on Training in Digital Image Processing & its Applications D

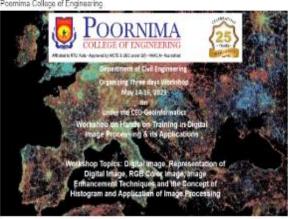
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10 PCE- +

Dear Students.

The Department of Civil Engineering is organizing a Workshop on Hands on Training in Digital Image Processing & its Applications from May 14-16, 2024.

The focus of the workshop will be: Digital Image, Representation of Digital Image, ROB Color Image, Image Enhancement Techniques and the Concept of Histogram and Application of Image Processing.

It is informed to register for this workshop through the below google form link.

Interpretation of Digital Image, Robert


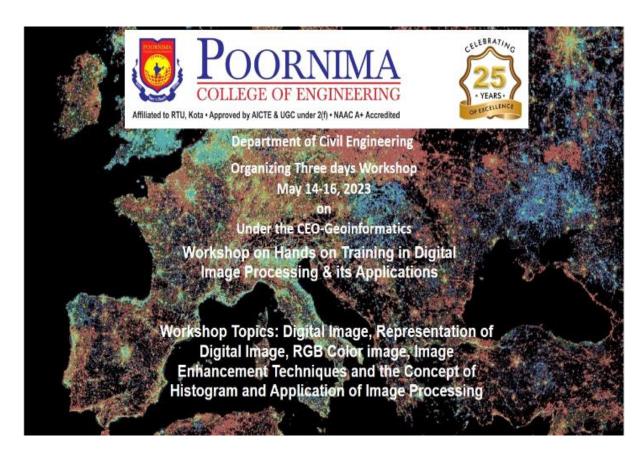
Dr. Mahesh Bundele
B.E. M.E. Ph.D.
Director
Poornima College of Engineerin

Stapura, J.

Google Form for Registration:

Workshop on Digital Image Processing	0		
Registration Form	E) Tr		
BIU ® %			
It is requested to all the third year students to fill out below mentioned STP concern form and send it back to the coordinator (Closing Date; 09/05/2024 till 03:00 PM)	Þ		
This form is automatically collecting emails from all respondents. Change settings	=		
NAME OF STUDENT *			
Short-answer lext			
REGISTRATION NUMBER *			

BROCHURE:





INTRODUCTION:

In this workshop, we'll delve into the intricate world of digital image processing, a pivotal component of remote sensing technology. From satellite imagery capturing the Earth's surface to drones surveying inaccessible terrains, remote sensing platforms provide us with a wealth of data that holds immense potential for scientific research, environmental monitoring, urban planning, agriculture, disaster management, and much more.

Throughout our session, we'll unravel the complexities of digital image processing techniques tailored for remote sensing applications. We'll explore how algorithms and software tools transform raw sensor data into meaningful insights, enhancing our understanding of natural phenomena and human activities on a global scale.

Through hands-on demonstrations, case studies, and interactive discussions, we aim to equip you with the knowledge and tools needed to navigate the dynamic landscape of digital image processing in remote sensing.

Session Overview:

Date	Day	Topics Covered
		Basic of Satellite Images
14/05/2024	TUESDAY	Digital Image Concepts
		Representation of Digital Image
		Acquiring Satellite Images using Bhoonidhi portal of
		ISRO
		Introduction to Erdas imagine software
15/05/2024	WEDNESDAY	RGB Color images
		Image Enhancement Techniques and the Concept of
		Histogram technique.
		Image enhancement through the PAN merge.
		Basic concepts of Image classification
16/05/2024	THURSDAY	Image Interpretation Keys/ Elements
		Image Classification Methods- Supervised and
		Unsupervised
		Analysis and Discussion of classified satellite image

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Day: 1

DATE: 14/05/2024, (Tuesday)

Basics of Satellite Images:

- Satellite images are captured by satellites orbiting the Earth.
- They provide valuable information about the Earth's surface.
- Used in various fields like cartography, environmental monitoring, and urban planning.

Digital Image Concepts:

- Digital images are composed of pixels, each representing a small portion of the image.
- Image resolution determines the level of detail in an image.
- Color depth refers to the number of colors that can be represented in an image.

Representation of Digital Images:

- Digital images are represented using matrices of numerical values.
- Grayscale images have one matrix representing brightness values.
- Color images have multiple matrices representing color channels (e.g., red, green, blue).

4. Acquiring satellite images using Bhunidhi portal of ISRO

The Bhunidhi portal, developed by the Indian Space Research Organisation (ISRO), provides access to satellite imagery for various applications. This step-by-step guide explains how to download satellite images using the Bhunidhi portal.

Step 1: Accessing the Bhunidhi Portal

Open your web browser and navigate to the Bhunidhi portal website (URL: [insert URL]).

Log in to the portal using your credentials. If you don't have an account, sign up for one to access the features.

Step 2: Searching for Satellite Images

Once logged in, navigate to the search interface or dashboard.

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Specify your search criteria, such as location, date range, satellite sensor, and image resolution.

Step 3: Viewing Image Results

After entering your search parameters, click on the "Search" or "Submit" button.

The portal will display a list of satellite images matching your search criteria.

Preview the images to ensure they meet your requirements.

Step 4: Selecting Images for Download

Select the satellite images you wish to download by clicking on them or checking the respective checkboxes.

You can choose multiple images for download if needed.

Step 5: Downloading Images

After selecting the desired images, locate the download option (usually represented by a download icon or button).

Click on the download option to initiate the download process.

Depending on the file size and your internet connection speed, the download may take some time.

Step 6: Post-Download Processing (Optional)

Once the images are downloaded, you can use image processing software to analyze and manipulate them as needed.

Perform tasks such as image enhancement, classification, and georeferencing to extract valuable information from the images.

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Day: 2

DATE: 15/05/2024, (Wednesday)

• Introduction to Erdas Imagine Software

Erdas Imagine is a powerful remote sensing and image processing software widely used for analyzing and interpreting satellite and aerial imagery. This brief overview introduces the basic functionalities of Erdas Imagine software and explores the concept of RGB color images commonly used in remote sensing applications.

Erdas Imagine Software:

Erdas Imagine is a comprehensive software suite developed by Hexagon Geospatial for remote sensing, spatial analysis, and image processing.

It offers a wide range of tools and capabilities for handling various types of satellite, aerial, and drone imagery.

Users can perform tasks such as image interpretation, classification, mosaicking, and change detection.

Introduction to RGB Color Images:

RGB (Red, Green, Blue) color images are a common type of digital image representation where each pixel is defined by three color channels: red, green, and blue.

These color channels are combined to create a full-color image where each pixel's color is a mixture of red, green, and blue intensities.

RGB color images closely resemble how the human eye perceives color, making them intuitive and widely used in various applications.

Key Features of Erdas Imagine for RGB Color Images:

Importing and Displaying Images:

Erdas Imagine allows users to import satellite, aerial, and other imagery in various formats such as GeoTIFF, JPEG, and ERDAS IMAGINE (.img) format.

Once imported, users can visualize the images in the software's display window, enabling easy exploration and interpretation.

Dr. Mahesh Bundele B.E., M.E., Ph.D Director

Color Enhancement and Adjustment:

Users can perform color enhancement and adjustment techniques to improve the visual quality of RGB images.

This includes adjusting brightness, contrast, and color balance to enhance image clarity and highlight specific features.

Image Analysis and Classification:

Erdas Imagine offers tools for image analysis and classification, allowing users to identify and classify objects within RGB images.

Classification techniques can be applied to separate land cover types, vegetation, water bodies, and built-up areas based on their spectral signatures.

Image Fusion and Integration:

Users can fuse or integrate multiple RGB images with other spectral bands or datasets to create composite images with enhanced information content.

Image fusion techniques combine the strengths of different sensors or image sources to generate high-quality, multispectral imagery.

Day: 3

DATE: 16/05/2024, (Thursday)

Basic Concepts of Image Classification:

Image classification is the process of categorizing pixels within an image into thematic classes or categories based on their spectral characteristics.

Key concepts include spectral resolution (the number of bands), spatial resolution (the size of pixel), and thematic resolution (the number of classes).

Image Interpretation Keys/Elements:

Image interpretation involves analysing the visual characteristics of satellite imagery to identify features and land cover types.

Dr. Mahesh Bundele

Elements of image interpretation include tone/colour, texture, pattern, shape, size, shadow, and association.

Image Classification Methods - Supervised and Unsupervised:

Supervised classification involves training a classifier using a set of known, labelled samples to classify pixels into predefined classes.

Unsupervised classification groups pixels based on their spectral similarity without prior knowledge of class labels, often resulting in clusters of similar spectral signatures.

Analysis and Discussion of Classified Satellite Image:

Once a satellite image is classified, the results are typically analysed and interpreted to extract meaningful information.

Analysis involves assessing the accuracy of the classification, identifying areas of interest, and evaluating changes over time.

Discussion may include insights gained from the classification results, implications for land use planning or environmental monitoring, and recommendations for further analysis or actions.

PHOTOGRAPHS:



CONCLUSION:

The three-day workshop on digital image processing and its applications has been a transformative journey, providing participants with a comprehensive understanding of the fundamental concepts and practical techniques in this dynamic field. Throughout the workshop, attendees delved into a diverse range of topics, including image acquisition, enhancement, classification, and analysis, gaining valuable insights into the potential applications across various domains.

Participants have not only acquired theoretical knowledge but also honed their practical skills through hands-on sessions and real-world case studies. By exploring cutting-edge tools and software platforms, such as Erdas Imagine and ENVI, attendees have developed proficiency in processing and interpreting digital imagery, paving the way for innovative solutions in research, industry, and academia.

Moreover, the workshop fostered a collaborative environment where participants engaged in fruitful discussions, shared experiences, and exchanged ideas. This collective learning experience has enriched their perspectives and inspired creativity in leveraging digital image processing techniques to address complex challenges and drive meaningful impact.

As the workshop draws to a close, participants depart with newfound knowledge, skills, and enthusiasm to apply digital image processing in their respective fields. Armed with practical insights and a deeper understanding of the potential applications, they are well-equipped to harness the power of imagery for environmental monitoring, agriculture, urban planning, disaster management, and beyond.

In essence, the three-day workshop has been a catalyst for professional growth, collaboration, and innovation, empowering participants to unlock the full potential of digital image processing and make meaningful contributions to society. As they return to their endeavors, they carry with them the tools and inspiration to embark on a transformative journey in the realm of digital imagery and its applications.

Dr. Mahesh Bundele B.E., M.E., Ph. C

Sample Certificate



DEEPARTMENT OF CIVIL ENGINEERING

C. No. - 2023-24/CE/WVI-008

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. NITIN KUMAR

REG. No. - PCE21CE024

Poornima College of Engineering, Jaipur has participated in the workshop on Hands on Training in Digital Image Processing & its Applications held from 14-16 May 2024.

Dr. Mahesh Bundele Principal and Director, Poornima College of Engineering, Jaipur

Dr. Pankaj Dhemla Vice Principal, Poornima College of Engineering, Jaipur

bran Dadhich

Dr. Pran Nath Dadhich Head, Dept. of Civil Engg. Poornima College of Engineering, Jaipur

Octnima College of Engineering ISI-6, RIICO Institutional Area Stlapura, JAIPUR



ATTENDANCE SHEET

Dr. Mahesh Bundele

Poornima College of Engineering ISI-6, RIICO Institutional Area Stlabura, JAIPUR

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FEEDBACK

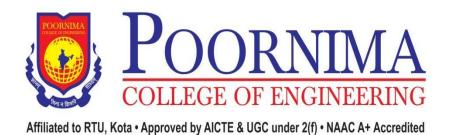
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Stlapura, JAIPUR

		FEED	BACK ANAL	YSIS (2023	3-24)		
S.No.	Attributes		Tota	al Feed Ba	nck		100
	Did the	Outstanding	Excellent	Good	Average	Satisfactory	Remark
1	session meet its objectives?	77.21	10.91	8.29	1.20	0.00	
	Did you find	Outstanding	Excellent	Good	Average	Satisfactory	Remark
2	the contents useful?	75.88	14.19	7.92	1.11	0.00	
	Did it help	Outstanding	Excellent	Good	Average	Satisfactory	Remark
3	students to enhance their skills or learnings?	73.29	16.11	6.49	1.20	0.00	
	Did you	Outstanding	Excellent	Good	Average	Satisfactory	Remark
4	receive uninterrupted Connectivity in case of online sessions?	71.20	18.59	5.19	1.32	0.00	
5	How do you rate this session	Outstanding	Excellent	Good	Average	Satisfactory	Remark
	overall?	72.29	18.52	6.99	1.00	0.00	

Overall Remark:- These kind of sessions should be conducted in the future for more awareness.





Report - Workshop on Market Based Cost Estimation &

Quantity Analysis

NAME OF ACTIVITY: - Workshop on Market Based Cost Estimation &

Quantity Analysis

DATE & DURATION: May 20-22, 2024

ORGANIZED BY: Department of Civil Engineering

RESOURCE PERSON: Mr. Prateek Sharma

DATE: 20/05/2024 to 22/05/2024

OUTCOMES:

CO1: Gain hands-on experience in using modern tools and techniques essential for civil engineering applications.

CO2: Understand the importance of sustainability in civil engineering practices and its impact on the environment.

CO3: Develop the ability to work collaboratively in a team to execute engineering tasks and communicate findings effectively.

MAPPING OF COS WITH POS AND PSOS:

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

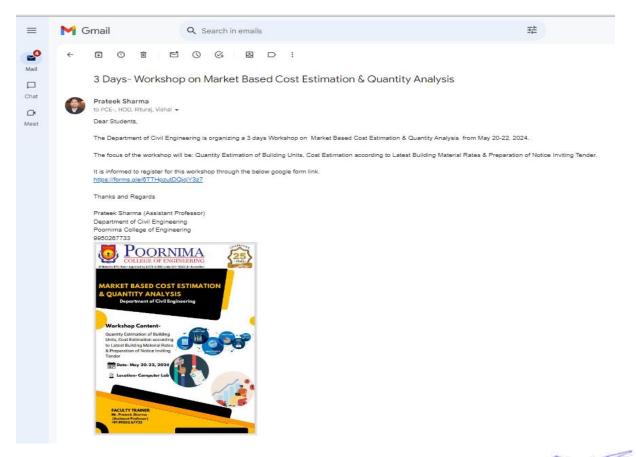
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OBJECTIVE:

The objective of a workshop on Market Based Cost Estimation & Quantity Analysis could be multifaceted:

- Skill Development: The primary goal might be to enhance participants' skills in utilizing market-based data for cost estimation and quantity analysis in various projects or industries.
- Understanding Market Dynamics: Participants may learn how market dynamics influence cost estimation and quantity analysis, including factors such as supply and demand fluctuations, inflation rates, and market trends.
- 3. **Effective Resource Management**: Another objective could be to teach participants how to effectively manage resources by accurately estimating costs and quantities, thus ensuring project efficiency and profitability.
- 4. **Risk Mitigation**: By understanding market-based cost estimation, participants may learn strategies to mitigate risks associated with inaccurate estimations, such as budget overruns or resource shortages.
- 5. **Industry Best Practices**: The workshop might aim to impart industry best practices in cost estimation and quantity analysis, drawing on real-world examples and case studies to illustrate effective approaches.

CIRCULAR:



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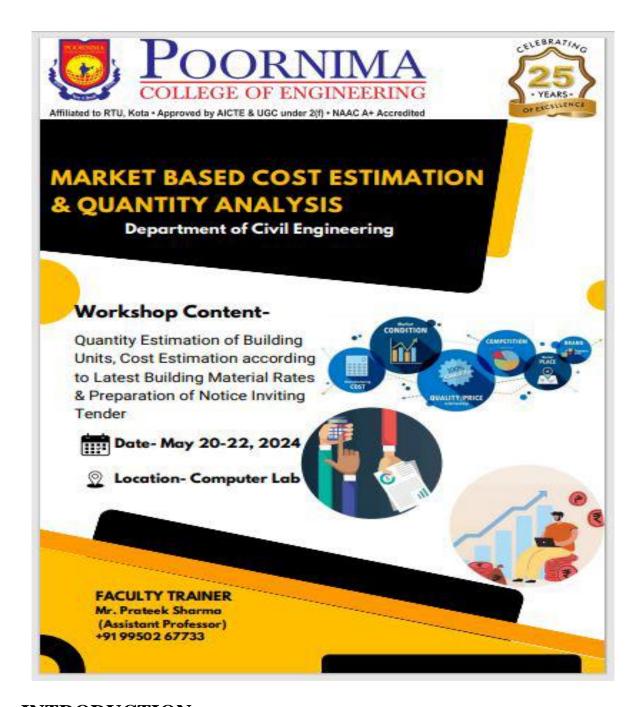
Google Form for Registration:

3 Days - Workshop on Market Based Cost Estimation & Quantity Analysis, 20-22 May 2024 Register for this workshop 2021pcecedevanshi010@poornima.org Switch accounts * Indicates required question Email * Record 2021pcecedevanshi010@poornima.org as the email to be included with my response Name Your answer

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BROCHURE:



INTRODUCTION:

The workshop on Market Based Cost Estimation & Quantity Analysis provided a comprehensive platform for professionals to delve into the intricacies of utilizing market data to enhance cost estimation and quantity analysis processes. With a focus on practical applications and industry insights, the workshop aimed to equip participants with the necessary tools and strategies to navigate the dynamic landscape of project management effectively.

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Throughout the workshop, participants engaged in interactive sessions, case studies, and discussions led by industry experts. The agenda encompassed various aspects, including understanding market dynamics, leveraging market-based data for accurate estimations, and

optimizing resource allocation strategies. By blending theoretical concepts with real-world examples, the workshop fostered a holistic understanding of the subject matter, empowering attendees to make informed decisions and mitigate risks associated with cost overruns and resource shortages.

This report provides a comprehensive overview of the workshop proceedings, highlighting key insights, learnings, and recommendations gathered from the collective expertise and experiences shared during the sessions. It aims to serve as a valuable resource for professionals seeking to enhance their proficiency in market-based cost estimation and quantity analysis, ultimately contributing to improved project outcomes and organizational success.

Session Overview:

Date	Day	Topics Covered
		Notice inviting
20/05/2024	Monday	Tender
		Latest Rates of
	Tuesday	Building material of
21/05/2024	Tuesday	different companies.
		 Measurement of
22/05/2024	Wednesday	Quantities and
	, , , dans day	determination of cost
		by B.S.R

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Day: 1

DATE: 20/05/2024, (Monday)

Notice Inviting Tender

Notice Inviting Tender is published by the companies/organizations to get biddings from the contractors for their works. Notice Inviting Tender or NIT means this document and its annexures, any corrigendum, addendum, and any other documents provided along with this NIT or issued during the selection of Bidder, seeking a set of solution(s), services(s), materials and/or any combination of them.

Importance on Notice Inviting Tender,

A notice inviting tender (NIT) plays a crucial role in the procurement process, especially in government or large organization contracts. Here's why it's important:

1.Transparency: NIT ensures transparency in the procurement process by publicly announcing the requirement of goods or services and inviting interested parties to bid. This transparency helps build trust among stakeholders and reduces the likelihood of corruption or favoritism.

2. Fair Competition: By issuing an NIT, organizations open the opportunity for a wide range of suppliers or contractors to compete for the contract. This fosters fair competition, which can lead to better quality goods or services at competitive prices.

3.Legal Compliance: In many jurisdictions, especially in government contracts, issuing an NIT is a legal requirement to ensure compliance with procurement laws and regulations. Failure to follow the prescribed tendering procedures can lead to legal consequences and challenges to the procurement process.

4.Maximizing Value for Money: Through the competitive bidding process facilitated by the NIT, organizations can maximize the value they receive for the resources expended. Suppliers or contractors are motivated to offer their best possible terms, driving down costs while maintaining quality.

5. Quality Assurance: NITs typically include detailed specifications and requirements for the goods or services being procured. This ensures that bidders understand the expectations and standards they need to meet, promoting quality assurance in the final deliverables.

6. Accountability: Issuing an NIT creates a documented trail of the procurement process, including the criteria used for selecting the winning bid. This accountability helps

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Cornima College of Engineering ISI-6, FulCO Institutional Area Stapura, JAIPUR stakeholders understand the decision-making process and holds the procuring entity accountable for its choices.

7. Efficiency: While issuing an NIT may seem like an additional step in the procurement process, it ultimately contributes to efficiency by attracting qualified suppliers or contractors who are capable of meeting the organization's needs. This reduces the likelihood of delays or disruptions in project delivery.

PHOTOGRAPHS:





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Day: 2

DATE: 21/05/2024, (Tuesday)

• Latest Rates of building material of different Companies

Cement

Cement is the most widely used building material in the construction industry. Cement is a fine powder from limestone, clay, and other materials. Cement acts as a binding agent when mixed with water, sand, and Aggregate to form Concrete. The average price of cement ranges from Rs 320 to RS 450 per bag of 50 kg, and the approximate consumption of cement is 0.4 bags or 20kg per sqft of built-up area.

Cement Company Name	Price Range (min to max) per bag
JK SUPER Cement	₹ 320 to ₹ 358/-Bag
ULTRA-TECH Cement	₹ 360 to ₹ 435/-Bag
AMBUJA Cement	₹ 330 to ₹ 410/-Bag
DALMIA Cement	₹ 345 to ₹ 380/-Bag
JAYPEE Cement	₹ 316 to ₹ 321/-Bag
ACC Cement	₹ 358 to ₹ 378/-Bag
BIRLA A1 Cement	₹ 340 to ₹ 360/-Bag
JK LAKSHMI Cement	₹ 355 to ₹ 410/-Bag
CHETTINAD Cement	₹ 330 to ₹ 400/-Bag
PENNA Cement	₹ 325 to ₹ 360/-Bag
ZUARI Cement	₹ 330 to ₹ 400/-Bag
RAMCO Cement	₹ 360 to ₹ 400/-Bag
JK White Cement	₹ 850 to ₹ 870/-Bag

Type of Cement	Cement Price Range
OPC Cement 43 Grade	₹ 350 to ₹ 390/-
OPC Cement 53 Grade	₹ 410 to ₹ 435/-
PPC Cement Grade	₹ 316 to ₹ 330/-

Cement & Sand	MIN. RATE	Average Cost	Max. Price
Cement	₹ 425	₹ 467.5	₹ 510
M Sand	₹ 3900	₹ 4290	₹ 468
River Sand	₹ 5500	₹ 6050	₹ 6600

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Ready Mix Concrete

Ready Mix Concrete is prepared in a factory using a standardized recipe and process. It differs from traditional Concrete, made on-site by mixing cement, sand, aggregates, and water. RMC is used for manufacturing Concrete above M20 grade of Concrete. It is used if the Concrete cannot be made at the site. The average price of RMC ranges between Rs 3000 to Rs 7500.

Grade Of Concrete	Min. RMC Price/cum.	Max. RMC Price/cum.
м15	₹ 3800	₹ 3900
M20	₹ 3900	₹ 4200
M25	₹ 4200	₹ 4400
м30	₹ 4500	₹ 4850
м35	₹ 4800	₹ 5200

Sand & Aggregate

Sand is mixed with Cement and Aggregate in Concrete to provide bulk and strength to the concrete structure. Sand is a fine particle of broken rock that comes in different types. The average price of sand ranges between Rs 1600 to Rs 3300 per tonne, and the approximate consumption of sand in the building is around 1.8 cubic feet per sqft of built-up area.

Sand price per ton and sand price per kg is shown in the table below.

Types of sand	Weight of Bag	Min. Sand Price	Max. Sand Price
Black Sand	35 kg	₹ 70	₹ 80
Brown Sand	40 kg	₹ 90	₹ 95
Quartz Sand	35 kg	₹ 70	₹ 80
Black Sand	1 Brass	₹ 6500	₹ 7000
Brown Sand	1 Brass	₹ 8500	₹ 9000
River Sand	1 Ton	₹ 1500	₹ 3200
Quarry Dust	2 Ton	₹ 750	₹ 850
Concrete M Sand	3 Ton	₹ 850	₹ 920
Plaster M Sand	4 Ton	₹ 1300	₹ 1400
Masonry M Sand	5 Ton	₹ 750	₹ 950
Khadi 1 no.	30 kg	₹ 45	₹ 50
Khadi 2 no.	30 kg	₹ 45	₹ 50

Dr. Mahesh Bundele B.E. M.E. Pri.D. Director Poornima College of Engineerin The building material pricelist for coarse Aggregate of 10mm, 12mm, 20mm, and 40mm are shown below. 20mm aggregate price is Rs. 800 per Tonne. You can find the detail of all aggregate prices in the table below.

Aggregate Thickness	Min. Agg. Price per Cuft	Max. Agg. Price per Cuft	Min. Agg. Price per Ton	Max. Agg. Price per Ton
10mm	₹ 68	₹ 78	₹ 625	₹ 800
12mm	₹ 68	₹ 78	₹ 625	₹ 800
20mm	₹ 68	₹ 78	₹ 625	₹ 800
40mm	₹ 68	₹ 78	₹ 625	₹ 800

Steel Bars

Steel is an iron and carbon alloy with small amounts of other elements such as manganese, chromium, and nickel. Steel is widely used in construction due to its strength, durability, and versatility. The most widely used steel product in construction projects is TMT Bars.

TMT bars bond with the Concrete to form the RCC structure. TMT bars come in different grades according to Indian standards. The average price of TMT Bar ranges between Rs 45 to Rs 55 per kg & approximate steel consumption in the building is around 4 kg per sqft of built-up area. Commonly used grades of TMT bar steel are as follows.

- Fe 415
- Fe 415D
- Fe 500
- Fe 500D
- Fe 550
- Fe 550D
- Fe 600

The minimum and maximum prices of TMT steel bars of different steel companies are shown below. Prices are mentioned in terms of kg and ton.

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Brand Name	Min Price per Kg	Max Price per Kg	Min Price per Ton	Max Price per Ton
Kamdhenu Steel	₹ 42	₹ 51	₹ 42000	₹ 51000
Vizag Steel	₹ 56	₹ 58	₹ 56000	₹ 58000
SAIL Steel	₹ 53	₹ 58	₹ 53000	₹ 58000
Indus Steel	₹ 55	₹ 58	₹ 55000	₹ 58000
Agni Steel	₹ 58	₹ 65	₹ 58000	₹ 65000
Sunvik Steel	₹ 49	₹ 55	₹ 49000	₹ 55000
Tata Steel	₹ 50	₹ 53	₹ 50000	₹ 53000
Jindal Steel	₹ 42.5	₹ 54	₹ 42500	₹ 54000

Steel prices for 8mm dia, 12mm, 16mm, 20mm, and 25mm diameter bars are below. Some popular steel brands like Tata, Kamdhenu steel, and Birla steel bar prices are shown.

TMT Steel Bars(fe-500)	TataTiscon	Kamdhenu	Birla
8 mm	₹ 103,000	₹ 75,700	₹ 95,000
12 mm	₹ 101,800	₹ 74,200	₹93,800
16 mm	₹ 101,800	₹ 74,200	₹ 93,800
20 mm	₹ 101,800	₹ 74,200	₹ 93,800
25 mm	₹ 101,800	₹ 74,200	₹ 93,800

Bricks & Blocks

Mostly used types of bricks are as follows.

- First class bricks
- Second class bricks
- Third class bricks
- Fourth class bricks

The rates of bricks for different sizes and materials like red bricks, fly ash bricks, cement blocks, and AAC blocks are shown below:

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Type of Bricks	Min Price	Avg. Price	Max Price	
Red Bricks 4"	₹ 5.5	₹ 5.75	₹ 6	
Red Bricks 6″ ₹ 7		₹ 7.5	₹8	
Clay Bricks	₹ 11	₹ 12.1	₹ 13.2	
AAC Blocks	₹ 39	₹ 42.9	₹ 46.8	
Cement Blocks	₹ 27	₹ 29.7	₹ 32.4	
Fly Ash Bricks 4"	₹ 6.5	₹7	₹ 7.5	
Fly Ash Bricks 6"	₹ 7.5	₹ 7.75	₹8	

The price of AAC Blocks for different sizes are shown below

AAC Block Size	Min Block Price	Max Block Price
3 inch	₹ 40	₹ 45
4 inch	₹ 55	₹ 65
6 inch	₹ 75	₹ 85
8 inch	₹ 95	₹ 105
9 inch	₹ 105	₹ 110
600x200x 75mm	₹34	₹ 37
600x200x100mm	₹ 42	₹ 45
600x200x125mm	₹ 44	₹ 47
600x200x150mm	₹ 52	₹ 55
600x200x175mm	₹ 72	₹ 75
600x200x200mm	₹ 77	₹80
600x200x230mm	₹ 94	₹ 97
600x200x250mm	₹ 106	₹ 110
600x200x300mm	₹ 125	₹ 130
Solid Concrete Blocks	₹30	₹ 35

Tiles

Tiles are primarily used for flooring, wall coverings, countertops, and shower enclosures. Tiles can be made from various materials, such as ceramics, natural stones, and other synthetic materials. Tiles are used because of their durability and easy-to-maintain nature.

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Prices of tiles like wall, floor, ceramic, vitrified, cement, and other tiles are shown below.

Types of Tiles	Unit	Min Tile Price	Max Tile Price
Dado wall Tiles (200 x 300mm)	Pcs	₹ 18	₹ 20
Floor Tiles (300 x 300mm)	Pcs	₹ 20	₹ 35
Floor Tiles (600 x 600mm)	Pcs	₹ 36	₹ 40
Vitrified Tiles (600 x 600mm)	Sqft	₹ 60	₹ 80
Ceramic Tiles	Sqft	₹ 25	₹ 80
Laminated wooden floor	Sqft	₹ 80	₹ 140
Cement Tiles (300 x 300mm)	Sqft	₹ 20	₹ 24
Paver Block (60mm thick)	Sqft	₹ 30	₹ 36

Marbles and granite are quite costly items. Prices of different marble and granites are shown below.

Marble Type	Marble Min Price (Sqft)	Marble Max Price (Sqft
Amba White Marble	₹ 160	₹ 185
Green Marble	₹ 75	₹ 95
Tandoor Marble	₹ 35	₹ 40
Kadapa Marble	₹ 40	₹ 48
Italian Marble	₹ 290	₹ 560
Shahabad Marble	₹ 20	₹ 25
Kota Stone	₹ 45	₹ 49
Black Granite	₹ 190	₹ 350

Electrical

Electrical appliances such as wires, fitment, switches, sockets, MCBs, fans, and lights are essential for any modern structure. Electrical works cover 3 to 5% of the total material cost. Prices of different essential electrical items are shown below.

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Electrical Items	Min Price	Avg. Price	Max Price	
Conduit Pipes	₹ 35	₹ 38.5	₹ 49	
Metal Boxes 6 Switches	₹ 54	₹ 59.4	₹ 75.6	
Cables and Wires (1 To 6 SQ MM – 90 Meters)	₹ 1000	₹ 1100	₹ 1400	
Cables and Wires (1 To 6 SQ MM – 90 Meters) High Range	₹ 5300	₹ 5830	₹ 7420	
Switches Lower Range	₹ 22	₹ 24.2	₹ 30.8	
Switches High Range	₹ 155	₹ 170.5	₹ 217	
Sockets	₹ 35	₹ 38.5	₹ 49	
Dimmers	₹ 235	₹ 258.5	₹ 329	
мсв	₹ 185	₹ 203.5	₹ 259	
Ceiling Fan – Minimum	₹ 1700	₹ 2400	₹ 3200	
Exhaust Fan – Minimum	₹ 700	₹ 900	₹ 1200	
4 Feet Tube Light	₹ 380	₹ 400	₹ 420	

Plumbing

The most common material used in plumbing works is pipes. Plumbing pipes and fittings come in different materials like plastic, GI, and Brass. The following table shows the prices of some of the most popular plumbing pipe types.

Plumbing Items	Min Price	Avg. Price	Max Price
Pipes CPVC	₹ 345	₹ 379.5	₹ 431.25
Pipes UPVC	₹ 250	₹ 275	₹ 312.5
Pipes PVC	₹ 180	₹ 198	₹ 225

Paint

Paint is used for both its functional & Aesthetic benefits. Paint is used to provide a protective layer to the surfaces of a structure. Paint protects the structure from weathering, moisture, and other environmental factors. Paint also protects the surface from damage done by rust and corrosion. The average paint consumption for interior works is 0.14 liters per sq. ft. and 0.4 liters per sqft for exterior paints. **The price of different types of paints is shown below.**

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Type of Paint	Unit	Min Price	Max Price
Paint	ltr	₹ 200	₹ 435
Wall Putty	Kg	₹ 20	₹ 30
White Cement	25kg bag	₹ 400	₹ 500
POP	25kg bag	₹ 200	₹ 250
Lime Powder	Kg	₹ 10	₹ 12

Glass

Glasses are used for structural use as well as for decorative purposes. Glasses are mainly used for window panels and doors. Glass comes in different types and shapes. The prices of different types of Glasses are shown below in the table

Type of Glass	Unit	Min Price	Max Price
Window Glass	sqft	₹ 32	₹ 50
5mm Plane Glass	sqft	₹ 60	₹ 85
6mm Plane Glass	sqft	₹ 85	₹ 95
8mm Plane Glass	sqft	₹ 111	₹ 120
5mm Paint Glass	sqft	₹ 50	₹ 60
10mm toughened Glass	sqft	₹ 105	₹ 120
Laminated toughened Glass	sqft	₹ 200	₹ 700
Frosted Toughened Glass	sqft	₹ 200	₹ 800
Tinted toughened Glass	sqft	₹ 150	₹ 700

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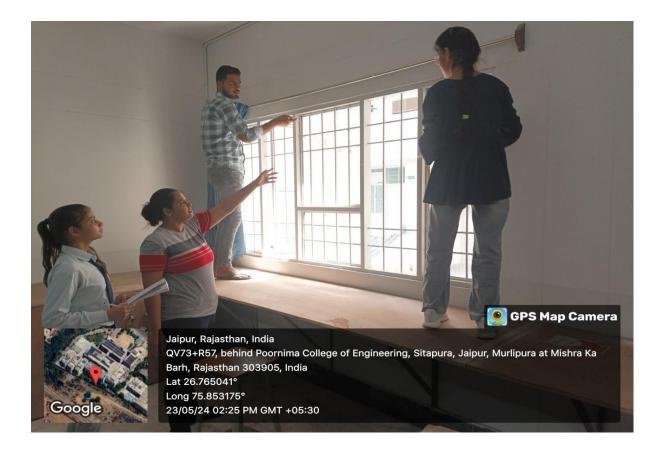
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Day: 3

DATE: 22/05/2024, (Wednesday)

 Measurement of quantities and determination of cost by B.S.R

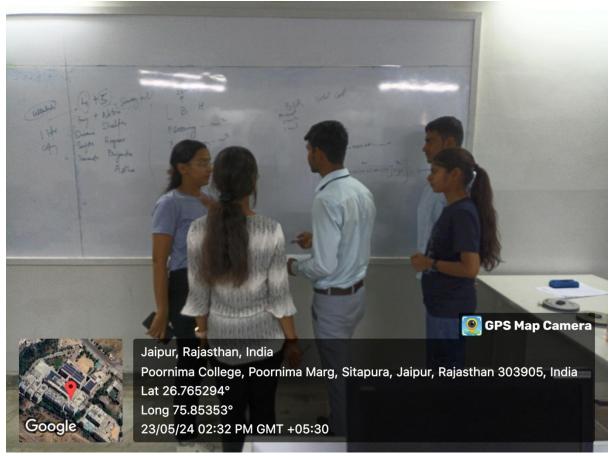


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PHOTOGRAPHS:



CONCLUSION: In wrapping up the Workshop on Market-Based Cost Estimation & Quantity Analysis, participants gained new skills to estimate project costs and quantities more accurately. We learned how to use market data and industry benchmarks to improve our cost predictions. By using tools that analyze real-time market information, we can make better forecasts and avoid going over budget or missing deadlines. The workshop was interactive, with discussions and case studies helping us understand how to apply these techniques in real-life situations. We discovered ways to allocate resources more efficiently and find opportunities to save money without sacrificing quality.

A key takeaway was the importance of staying flexible and adapting to changes in the market. By doing so, we can adjust our plans as needed and ensure the success of our projects.

Overall, the workshop was a valuable opportunity to learn from each other and gain practical skills that we can use in our work. We left feeling more confident in our ability to manage construction projects effectively and make informed decisions about costs and quantities.

ATTENDANCE SHEET:

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Poornima College of Engineering

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Feedback Form

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	Feedback form - Workshop on Market Based Cost Estimation & Quantity Analysis, 20-22 May 2024 Register for this workshop This form is automatically collecting emails from all respondents. Change settings	÷ † 1 • 11			
	Registration Number Short-answer text				
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Sample Certificate

Certificate of Participation

Workshop on

"Market Based Cost Estimation & Quantity Analysis"

Organized by

Department of Civil & Poornima College of Engineering, Jaipur, Rajasthan

Participation Certificate

Certified ID: <<22>>

This to certify that Mr. Nitin Kumar of Poornima College of Engineering Jaipur has participated in the session on "Market Based Cost Estimation & Quantity Analysis" held on 20-22 May 2024 at Poornima College of Engineering Jaipur Rajasthan.

TranDadhi h



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Report - Workshop on ETABS Training Program

NAME OF ACTIVITY: - Workshop on ETABS Training Program

DATE & DURATION: July 2-6, 2024

ORGANIZED BY: Department of Civil Engineering

RESOURCE PERSON: Mr. Rituraj Singh Rathore

TRAINER NAME -Mr. Rushikesh

OBJECTIVE:

The objective of a workshop is toversatile students with practical skills by using ETABS for complex structural analysis and design, preparing them for competitive real-worldchallenges.

COURSE DESCRIPTION:

ETABS is widely used software application for structural analysis and design. Developed by Computers and Structures Inc. (CSI) in the year 1993, it is an integrated structural engineering tool that allows engineers and architect to analyse and design various types of structures, especially buildings. The name "ETABS" stands for Extended Three-Dimensional Analysis of Building System. ETABS help engineers and architects design safe and efficient structures that meet the requirements of their projects, making it a valuable tool for anyone in the construction industry.

COURSE OUTCOME:

S.No.	CourseOutcomes
CO1	Tounderstandthebasiccommandsof ETABS.
CO2	ToApplythecomplex conditions inETABSsoftware.
CO3	ToAnalyze the different structural components by using ETABS software

MAPPING COURSE OUTCOMES WITH PO AND PSO

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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CIRCULAR:

Regarding Workshop on ETABS Training Program

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→ Rituraj Singh Rathore <ri>turaj.rathore@poornima.org>

@ Sat, Jun 29, 2:11PM ☆ ← :

to PCE-, HOD ▼ Dear students

I hope this email finds you well. As we all know our department is organizing a workshop on ETABS for the third-year students scheduled from 02/07/2024 to 06/07/2024. As the workshop is a crucial part of the curriculum, we want to ensure a smooth and productive experience for all the participants. It is compulsory to attend the workshop as it is directly related to your placement and the overall development of your technical skills.

I would like to request your assistance in the following activities;

- 1. Ensuring proper uniform & decorum during the session
- 2. Mandatory regular attendance
- 3. Time keeping
- 4. Facilitating Discussions
- 5 O&A Session
- 6. Feedback google form

Your involvement would greatly contribute to the overall success of the workshop and provide valuable insights for your future.

Here are some key details about the workshop:

Title: Workshop on ETABS Date: 02/07/2024 to 06/07/2024

Time: 8 A.M. to 3 P.M.

Venue- 1001 A

Coordinator- Rituraj Singh Rathore

PFA the brochure



Rituraj Singh Rathore Assistant Professor (Civil Department) Poornima College of Engineering

Lifetime Member Indian Concrete Institute (L. M. No.14648)

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Poornima College of Engineering 131-6, RIICO Institutional Area Stlapura, JAIPUR

BROUCHURE:



INTRODUCTION:

ETABS are Finite-Element-Analysis (FEA) software, which means they allow our engineers to model complex buildings as simplified 2D and 3D elements – beams, columns, floors, and walls – which resist dozens of potential loading scenarios and can consist of wood, steel, masonry, or concrete systems. It integrates various aspects of building design into a unified model, allowing for efficient collaboration, detailed documentation, and high-quality outcomes.

Why Learn ETABS?

Industry Standard: ETABS is universally adopted across the design industry, making it a valuable skill for professionals.

Enhanced Speed: ETabs enables a user to analyse a building quickly.

Improved Efficiency: Automate repetitive tasks, streamline workflows, and reduce errors with ETABSdesign tools.

Career Advancement: Proficiency in ETABS can open doors to new job opportunities and career growth in the competitive field.

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SYLLABUS:

CIVIL ENGINEERING SOFTWARE ACADEMY (CESA)

Syllabus for ETABS INTERMEDIATE LEVEL TRAINING

Duration - 30 Hrs

Sr. No.	Content	Duration			
1.	1. Basic Overview About The Software This will include the basics of structural designing. Small introduction to the CSI Berkeley Products. Overall features of the software's etc. 2. GUI and its meaning. This includes introduction to the graphical user interface of the software. Basic explanations of the storey wise effects, extruded views. Introduction to the various icons and their uses.				
2.	Simple commands for model creation, editing etc. Explanation of the grid systems and storey systems. Modeling				
	I) Modeling a) Material Properties b) Section Properties • Frame Sections • Slab Sections • Deck Sections • Wall Sections c) Draw Grids d) Draw Joint Object e) Draw Beam/ Column / Brace Object f) Object Selection g) Draw Floor/ Wall Object h) Draw Wall and floor openings i) Draw Wall Stack	3 Hrs			

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Loading & Analysis - Loading Patterns a) Dead Load Floor load Staircase loading	3 Hrs
Support conditions loadings Understanding of the support condition available in ETABS.	2 Hrs
Modeling of 3 to 4 basic plans Difference between architectural plan and beam layout. Explanation of orientation of columns Explanation for one way slabs Introduction to various types of slab elements	3 Hrs
a) Replicate b) Extrude • Joints to Frames • Frames to shells c) Merge Joints d) Align Joints/ Frames / Edges e) Move Joints/ Frames/ Edges f) Edit Frames • Divide Frames • Joint Frames g) Reverse Frame Connectivity • Edit Shells h) Divide Shells i) Merge Shells j) Expand/ Shrink Shells k) Split Shells Edge l) Remove joints from Shells m) Chamber Slab Corners n) Modify /Show Wall curve types	3 Hrs

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	Lift & Water Tank Load	
	b) Live Load	
	Shell Uniform Load Sets	
	Shell Loads	
	Load Case	
	Set Load Case to Run	
	Result Display	
	 Explanation of local axis Systems 	
6.	EQ Loading	
	Seismic Equivalent method	3 Hrs
	Response Spectrum method	
7.	Wind Load	
	THIR LOGU	
	a) Explanation & importance of diagram	2 Hrs
	b) Wind loads by	
	Extents of diagram	
	By none type area object	
8.	Analyze and interpretation of results & design of	
	R.C.C members	
		3 Hrs
	 Explanation of the post processor 	
	 Explanation of offsets & releases 	
	Design of the R.C.C. members	
9.	Formulate and complex column sections using section	
	designer & varying section.	
		3 Hrs
	Some special effects like section designer and varying	
	sections only available in ETABS and its successful	
	intrusion the framed systems.	
10.	Shear Wall modeling and analysis and design a building	
	with Shear wall, its Modeling Analysis and Design.	
	Types of shear walls	3 Hrs
	 Shear Walls with & without openings 	31113
	 Explanation of piers and spandrels 	

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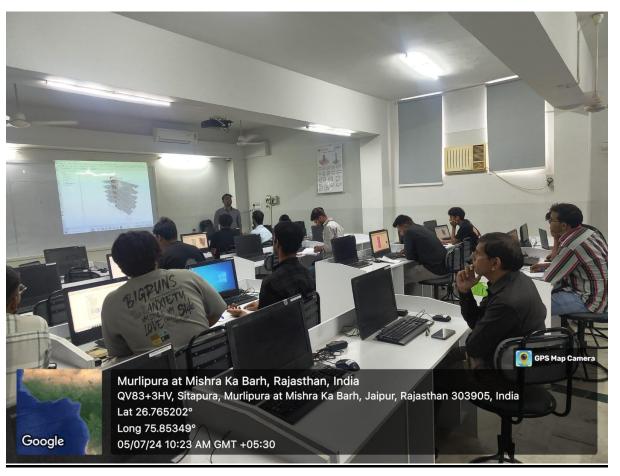
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PHOTOGRAPHS:

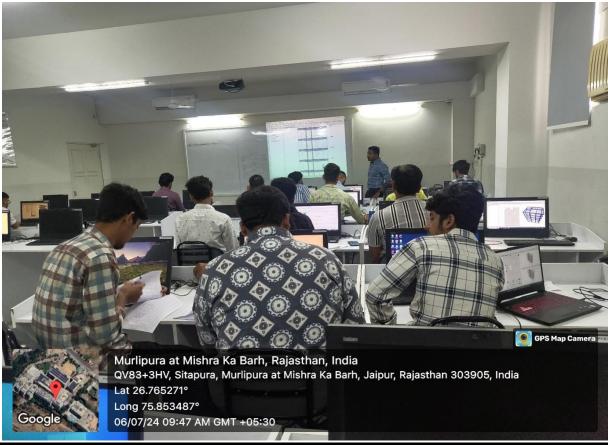












CONCLUSION:

The ETABS workshop proved to be a valuable platform for participants to enhance their skills and knowledge in complex structural analysis and design. The combination of theoretical sessions, hands on training, and interactive discussions contributed to a comprehensive learning experience. The workshop successfully met its objectives and left participants better equipped to apply ETABS software in their professional practice.

Overall, the ETABS workshop was a commendable initiative that contributed to the continuous learning and skill development of structural engineers and professionals in the field.





ATTENDANCE SHEET:

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FEEDBACK FORM

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Report - Workshop on Revit Training Program

NAME OF ACTIVITY: - Workshop on Revit Training Program

DATE & DURATION: July 2-6, 2024

ORGANIZED BY: Department of Civil Engineering

RESOURCE PERSON: Mr. Prateek Sharma

Trainer Name - Mr. Rohit

COURSE OUTCOME:

S. No.	Course Outcomes
CO1	To understand the basic commands of Revit.
CO2	To Apply the complex conditions in Revit software.
CO3	To Analyze the different structural components by using Revit software

MAPPING COURSE OUTCOMES WITH PO AND PSO

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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OBJECTIVE:

The objective of a workshop on Revit Training Program_could be multifaceted:

Introduction to Revit:

- Provide an overview of Revit software, its interface, and basic functionalities.
- Explain the benefits and applications of Building Information Modeling (BIM).

Basic Modeling Techniques:

- Teach students how to create and modify basic building components such as walls, doors, windows, and floors.
- Introduce the concepts of levels and grids.

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Advanced Modeling:

- Explore advanced modeling techniques, including the creation of custom families and complex geometries.
- Demonstrate the use of massing tools for conceptual design.

Documentation and Annotation:

- Show how to create and manage construction documents, including plans, sections, elevations, and details.
- Teach annotation tools, such as dimensions, text, and tags.

Collaboration and Coordination:

- Explain how to work on shared projects using work sharing and collaboration tools.
- Introduce clash detection and coordination with other disciplines.

Rendering and Visualization:

- Demonstrate the use of rendering tools to create photorealistic images and walkthroughs.
- Teach basic visualization techniques to enhance presentations.

Project Management:

- Provide insights into project management within Revit, including the use of phases, design options, and project parameters.
- Discuss scheduling and cost estimation tools.

Customization and Automation:

- Introduce the concepts of customization through Revit's API and Dynamo for Revit.
- Demonstrate how to automate repetitive tasks and enhance workflow efficiency.

Sustainability Analysis:

Teach students how to perform energy analysis and sustainability assessments using Revit.

Real-World Application:

- Provide case studies and examples of real-world projects where Revit has been successfully implemented.
- Encourage students to apply learned skills to a small project or design challenge.

Industry Standards and Best Practices:

- Introduce industry standards and best practices for using Revit in professional settings.
- Discuss the importance of adhering to BIM standards and protocols.

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CIRCULAR:

Regarding Workshop on REVIT Training Program

Prateek Sharma <prateek.sharma@poornima.org>
To: PCE - CIVIL - Batch 2022-2026
T

I hope this email finds you well. As we all know our department is organizing a workshop on REVIT for the second-year students scheduled from 02/07/2024 to 06/07/2024. As the workshop is a crucial part of the curriculum, we want to ensure a smooth and productive experience for all the participants. It is compulsory to attend the workshop as it is directly related to your placement and the overall development of your technical skills.

I would like to request your assistance in the following activities:

- Ensuring proper uniform & decorum during the session.

 Mandatory regular attendance
- 3. Time keepin
- Facilitating Discussions
 Q&A Session
- 6. Feedback google form

Technical Training will be delivered on the "BIM/Revit" for II year Civil-2026 batch students along with Autodesk certification. The cost of this training/workshop with certification is INR 1383/- per student

Training cost for this workshop will be paid by the College

If the attendance percentage of a student during this period i.e. July 2 to July 6, 2024 is below 80% then 50% of training cost INR 692 will be deducted from the student's caution money.

If the attendance percentage is below 50% then the entire training cost Rs 1383/- will be deducted from the student's caution money,

Your involvement would greatly contribute to the overall success of the workshop and provide valuable insights for your future.

Here are some key details about the workshop. Title: Workshop on REVIT Date: 02/07/2024 to 06/07/2024 Time: 8 A.M. to 3 P.M. Venue- 1B13 Coordinator- Prateek Sharma

PFA the brochure



Google Form for Registration:

(i3) Day VAC - Technical Electives | PCE-2026 Batch | Even Sem. 2023-24

This form is no longer accepting responses, and has been set to automatically close by tpo@poornima.org.

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BROUCHER:



INTRODUCTION:

Autodesk Revit is powerful BIM software that enables architects, engineers, and construction professionals to design, visualize, and manage building projects digitally. It integrates various aspects of building design into a unified model, allowing for efficient collaboration, detailed documentation, and high-quality outcomes.

Why Learn Revit?

Industry Standard: Revit is widely adopted across the AEC industry, making it a valuable skill for professionals.

Enhanced Collaboration: Revit facilitates seamless collaboration among project stakeholders through its integrated BIM environment.

Improved Efficiency: Automate repetitive tasks, streamline workflows, and reduce errors with Revit's intelligent design tools.

Career Advancement: Proficiency in Revit can open doors to new job opportunities and career growth in the competitive AEC field.

This report provides a comprehensive overview of the workshop proceedings, highlighting key insights, learning's, and recommendations gathered from the collective expertise and experiences shared during the sessions.

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Syllabus & Session Overview:



CIVIL ENGINEERING SOFTWARE ACADEMY (CESA)

Syllabus for Revit







Civil Engineering Software Academy

Parijat Building, Karve Road, Pune

7447484672 / 9881372569



Description: Autodesk Revit is building information modeling software for Civil engineers, architects, structural engineers, MEP engineers, designers and contractors. It allows users to design a building and structure and its components in 3D, annotate the model with 2D drafting elements, and access building information from the building model's database. Revit is 4D BIM capable with tools to plan and track various stages in the building's lifecycle, from concept to construction and later demolition.

Course Outline:

Introduction to Autodesk Revit	DAY 1
Building Information Modeling	
Overview of the Interface	
Standard Terminology	
Starting Projects	
 Viewing Commands 	
Basic Drawing and Editing Tools	
General Drawing Tools	
Editing Elements	
Basic Modifying Tools	
Datum Elements - Levels and Grids	
Setting Up Levels	
 Linking and Importing CAD Files 	

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Drawi	ng and Modifying Walls	
	Drawing Walls	
	Modifying Walls	
	Helpful Editing Tools	
	Creating wall openings	
	creaming was openings	
Doors	and Windows	DAY 2
	Adding Doors and Windows	D.11 2
	Loading Door and Window Types from the Library	
	Creating Additional Door and Window Sizes	
	Creating Florida Deer and William Size	
Curta	in Walls	
•	Creating Curtain Walls	
1	Adding Curtain Grids	
•	Working with Curtain Wall Panels	
•	Attaching Mullions to Curtain Grids	
1	ing Views	
•	Duplicating Views	
•	Adding Callout Views	
•	sering the view Disputy	
•	Elevations and Sections	
Floors		
F100FS	Creating Floors	
	Creating Shaft Openings	
	Creating Sloped Floors	
Comp	onents	DAY 3
•	Adding Components	
	Modifying Components	
Roofs		
•	Creating Roofs	
•	Creating Roofs by Footprint	
•	reference I fames and work I fames	
•	Creating Roofs by Extrusion	
•	Cleaning Up Wall and Roof Intersections	
Mater	iale	
Mater	aals Adding & Modifying Materials	
	Trooms or Mountying Materials	
Sched	ules	
	Adding & Modifying Schedules	
	Creating Room & Room Schedules	
	Creating Legends	

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Vertical Circulation	DAY 4
Creating Assembled Stairs	DAI 4
Modifying Assembled Stairs	
Sketching Custom Stairs	
Creating Ramps	
Working with Railings	
Construction Documents	
Setting Up Sheets	
 Placing and Modifying Views on Sheets 	
Printing Sheets	
City To 1	
Site Design • Creating Topographical Surfaces	
Property Lines and Building Pads	
Modifying Toposurfaces Apparential Site Plans	
Annotating Site Plans Site Community	
Site Components	
Massing Studies	
Overview of Massing Studies	
Placing Mass Elements	
Creating Conceptual Massing	
Creating Mass Forms	
Visualisation	DAY 5
Perspectives	
Creating Walkthroughs	
Exploded Views	
Rendering	
Basic Rendering	
Working with Lighting	
Enhancing Renderings	
Importing and Exporting	
 Importing and Linking Vector Files 	
Modifying Imported Files	
 Importing Raster Image Files 	
 Exporting Files 	
Exporting for Energy Analysis	
Working with Family	
Creating Components in family	
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DATE: 02/07/2024, (Tuesday)

Day 1: Introduction and Basic Modelling

On the first day, participants were introduced to the fundamental concepts of Revit, including its user interface, basic modelling techniques, and essential tools. The sessions focused on creating simple architectural models, which laid a solid foundation for the more complex tasks to follow.

Activity Performed:-

- 1. Introduction to Revit.
- 2. Explanation on all the tools available in Revit.
- 3. Introduction to working with levels.
- 4. Introduction to draw tools.
- 5. Practice of various draw tools and practice of drawing walls.
- 6. Completion of assignment 1.

PHOTOGRAPHS:







DATE: 03/05/2024, (Wednesday)

Day 2: Advanced Modelling and Families

Day two progressed to more advanced modeling techniques, including the creation and modification of complex building components. Attendees learned about Revit families, a critical feature for creating custom components, and how to utilize these effectively to streamline the modelling process.

Activity Performed:-

- 1. Introduction to staircase in Revit.
- 2. Drawing of staircases using different draw tools.
- 3. Completion of assignment 1,2 and 3.
- 4. Introduction to floors.
- 5. Drawing floors using different draw tools.
- 6. Editing of Floors in Revit.



DATE: 04/07/2024, (Thursday)

Day 3: Documentation and Detailing

The third day emphasized the importance of precise documentation and detailing within Revit. Participants explored the tools and techniques for generating construction documents, including plans, sections, elevations, and details. The focus was on producing accurate and professional documentation essential for successful project execution.

Activity Performed:-

- 1. Introduction to Roofs in Revit.
- 2. Drawing of Roofs using different draw tools.
- 3. Editing of Roofs in Revit.
- 4. Creating an opening for staircase in roofs using editing tools.
- 5. Drawing walls for staircase top.
- 6. Completion of staircase top.

PHOTOGRAPHS:



DATE: 05/07/2024, (Friday)

Activity Perform:-

- 1. Introduction to railings in Revit.
- 2. Drawing railings using different draw tools.
- 3. Introduction to families and components in Revit.
- 4. Placing of Furniture and environment in Revit.
- 5. Introduction to Toposolid environment.
- 6. Drawing Toposolid using different draw tools.
- 7. Creating road in Revit.
- 8. Assigning material to Road in Revit.
- 9. Placing of External lights in Toposolid.
- 10. Completion of assignment 4 & 5.





<u>Day: 5</u>

DATE: 06/07/2024, (Saturday)

Day 5: Visualization and Rendering

The final day of the workshop was dedicated to visualization and rendering techniques. Participants explored Revit's capabilities for creating high-quality visual representations of their models, including walkthroughs and photorealistic renderings. These skills are crucial for effectively communicating design intent to clients and stakeholders.

Activity Performed:

- 1. Completion of Individual assignments by students.
- 2. Introduction to Mass Elements and structures in Revit.
- 3. Drawing Mass structures.
- 4. Creating and assigning Floors, Roofs and Walls in massing and siting.
- 5. Introduction to Curved or Twisted tall structures in Revit.
- 6. Introduction to Curtain system and Mullions.
- 7. Assigning curtain system and mullions to structures.
- 8. Introduction to Camera perspective and rendering in Revit.





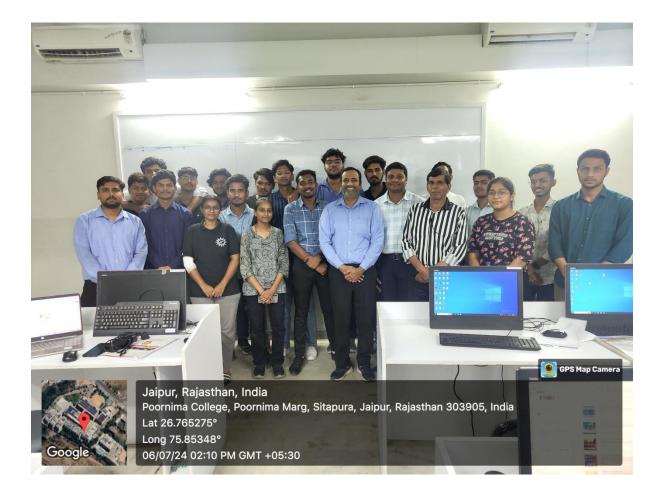
CONCLUSION:

Dr. Mahesh Bundele
B.E. M.E. Ph.D.
Director
Director
Siles, RiiCo Institutional Area
Stlapura, JAIPUR

Throughout the workshop, participants engaged in hands-on exercises and real-world scenarios, reinforcing their learning and enabling them to apply their new skills directly to their projects. The collaborative environment fostered knowledge sharing and problem-solving, further enhancing the overall learning experience.

The feedback from participants has been overwhelmingly positive, highlighting the practical applications of the skills acquired and the confidence gained in using Revit for their design and documentation needs. The workshop has not only expanded their technical proficiency but also inspired innovative approaches to their work.

Overall, the workshop was a valuable opportunity to learn from each other and gain practical skills that we can use in our work. We left feeling more confident in our ability to manage construction projects effectively and make informed decisions about costs and quantities.





ATTENDANCE SHEET:

Dr. Mahesh Bundele
B.E., M.E., Ph.D.

Director

Poornima College of Engineering
ISI-6, RIICO Institutional Area
Stapura, JAIPUR

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S.N	Reg. No.	Student Name	8-9 AM	9-10 AM	10-11 AM	Lunch	11:40- 12:40 PM	12:40 to 01:40 PM	1:40-2:50 PM				
1	PCE22CE508	AHTISHAM RASHID	ation.	Allahon	Otello		Ottisam	Atilo	Aboth				
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Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-0, FUICO Institutional Area
Stlapura, JAIPUR

POORNIMA COLLEGE OF ENGINEERING, JAIPUR DEPARTMENT OF CIVIL ENGINEERING ATTENDANCE STATUS OF WORKSHOP ON REVIT

			Date: 3/07/24								
5.N	Reg. No.	Student Name	8-9 AM	9-10 AM	10-11 AM	Lunch	11:40- 12:40 PM	12:40 to 01:40 PM	1:40-2:50 PM		
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Dr. Mahesh Bundele

Director

Cornima College of Engineering
ISI-6, FulCO Institutional Area
Stapura, JAIPUR

POORNIMA COLLEGE OF ENGINEERING, JAIPUR DEPARTMENT OF CIVIL ENGINEERING

ATTENDANCE STATUS OF WORKSHOP ON REVIT

			Date: 4/07/24									
S.N	Reg. No.	Student Name	8-9 AM	9-10,AM	10-11 AM	Lunch	11:40- 12:40 PM	12:40 to 01:40 PM	1:40-2:50 PM			
1	PCE22CE508	AHTISHAM RASHID	Atolian	Beijon	Atelon		Glillon	Olaton	Phon			
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Dr. Mahesh Bundele

Director

Cornima College of Engineering
ISI-0, RIICO Institutional Area
Stapura, JAIPUR

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		ATTENDANCE	STATU	S OF W	ORKSHO	ΟP	ON REV	IT				
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5.N	Reg. No.	Student Name	8-9 AM	9-10 AM	10-11 AM	Lunch	11:40- 12:40,PM	12:40 to 01:40 PM	1:40-2:50 PM			
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Dr. Mahesh Bundele
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Director

Director

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POORNIMA COLLEGE OF ENGINEERING, JAIPUR DEPARTMENT OF CIVIL ENGINEERING

ATTENDANCE STATUS OF WORKSHOP ON REVIT

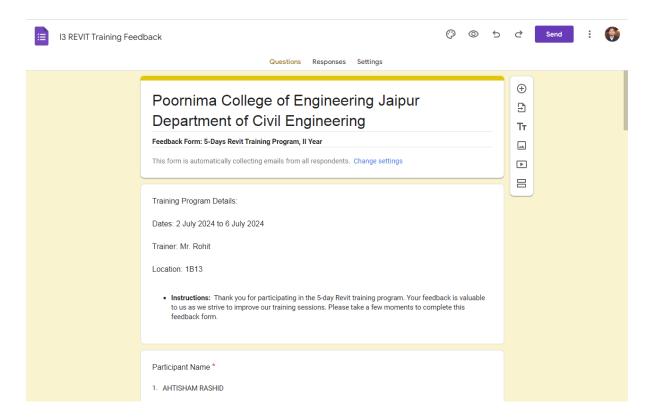
			Date: 6/07/2 4								
s.N	Reg. No.	Student Name	8-9 AM	9-10 AM	10-11 AM	Lunch	11:40- 12:40 PM	12:40 to 01:40 PM	1:40-2:50 PM		
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34	PCE23CE804	VIVEK KUMAR									

Dr. Mahesh Bundele

Director

Cornima College of Engineering
ISI-0, RIICO Institutional Area
Stapura, JAIPUR

Feedback Form





Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • NAAC A+ Accredited

A Report On

"Ethical Dilemma Scenarios Activity"

NAME OF ACTIVITY: Ethical Dilemma Scenarios Activity

DATE & DURATION: March 28th, 2024

TYPE OF ACTIVITY: Workshop-Interactive Activity

ORGANIZED BY: Department of Information Technology

FACULTY COORDINATOR: Mr. Alok Singh

LEARNING OUTCOMES:

The participants through this workshop will be able to -

CO1: Students learn to analyze ethical dilemmas and apply principles to make informed decisions in professional settings.

CO2: Engaging with scenarios encourages students to consider multiple perspectives, weigh consequences, and make reasoned judgment.

CO3: Students gain insight into their professional responsibilities, understanding the societal impacts of their decisions and the importance of upholding ethical standards..

Dr. Mahesh Bundele

MAPPINGS WITH PO AND PSO:

	PO-1 (Engineering Knowledge)	PO-2 (Problem Analysis)	PO-3 (Design/Development of Solutions)	PO-4 (Conduct Investigations of Complex Problems)	PO-5 (Modern Tool)	PO-6 (Engineer and Society)	PO-7 (Environment and Sustainability)	PO-8 (Ethics)	PO-9 (Individual and Team Work)	PO-10 (Communication)	PO-11 (Project Management and Finance)	PO-12 (Life-Long Learning)
CO1						3		3				
CO2									3			
CO3						2		2	2			

ASSESSMENTTOOLS:

POORNIMA COLLEGE OF ENGINEERING					
FEEDBACK FORM					
Tick for the level of rating (1 to 5) to be given 1-Lowest and 5 Highest					
Questions	1	2	3	4	5
Did the session meet its objectives?	-	-	-	-	-
Did you find the contents useful?	-	-	-	-	-
Did it help students to enhance their skills or learning's?	-	-	-	-	-
Was the Audio Video Quality satisfactory in case of online sessions?	-	-	-	-	-
Did you receive uninterrupted Connectivity in case of online sessions?	-	-	-	-	-
How do you rate this session overall?	-	-	-	-	-
What can we do to improve in future?					•
Remarks/Suggestions:					



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PCE/IT/DO/2023-24/ 012

Date: 25/03/2024

NOTICE

Ethical Dilemma Scenarios Activity

Department of Information Technology is organising a session on Ethical Dilemma. Details are mentioned below.

Date : 28/03/2024 Venue- 2807 Time- 12:00 PM to 3:00 PM

The students are required to be there on stipulated time. For further students may contact the faculty cordinator.

Dr. Gajendra Singh Rajawat

3

(Department of Information Technology)

DETAILS OF ACTIVITY:

The Department of Information Technology at Poornima College of Engineering organized an

interactive activity titled "Ethical Dilemma Scenarios" on the 28th of March 2024. The objective of this

activity was to instill human values and the spirit of professional ethics among second and third-year IT

engineering students. The activity was designed to engage students in discussions and decision-making

processes regarding ethical dilemmas commonly faced in the IT industry. Through realistic scenarios,

students were encouraged to explore the ethical implications of their decisions and understand the

importance of ethical conduct in their future careers. The activity saw enthusiastic participation from

second and third-year IT engineering students of Poornima College of Engineering. The participants

were divided into small groups, each facilitated by a group leader.

Prior to the activity, Mr. Alok Singh and his team meticulously prepared a series of realistic ethical

dilemma scenarios relevant to the IT industry. These scenarios were carefully crafted to stimulate

critical thinking and provoke discussion among the participants.

Participants were divided into small groups of 4-5 members each. Group formation was done to ensure

diversity and encourage different perspectives during the discussions.

Each group was assigned a scenario and provided with the necessary materials. They were given time

to read and understand the context of the scenario.

Participants engaged in lively discussions within their groups, considering various ethical implications,

potential consequences, and alternative courses of action. Mr. Alok Singh facilitated the discussions by

posing thought-provoking questions and encouraging active participation from all group

members. After thorough discussions, each group presented their proposed solutions or decisions

regarding the given scenario. Group presentations were followed by insightful discussions where

participants shared their rationales and justifications behind their decisions. Mr. Alok Singh led a

debriefing session where he provided feedback on each group's approach. Key ethical principles and

professional values demonstrated or overlooked during the activity were highlighted.Participants were

encouraged to reflect on their decision-making process and identify lessons learned. The Department

of Information Technology expresses its gratitude to Mr. Alok Singh for coordinating the activity and to

all the participants for their active involvement and insightful contributions.

Dr. Mahesh Bundel

4

GLIMPSES:



LIST OF THE PARTICIPANTS:

Dr. Mahesh Bundele
B.E., M.E., Ph.D.

Director

Poornima College of Engineering
ISI-0, FUICO Institutional Area
Stlapura, JAIPUR

	ACTIVI DATE:	TY NAM 28/03/20	IE: ACTIVE	Poornima College of EnglENT OF INFORMATION ON ETHICAL DILLEMN	ON TECHNOLOGY	
	C 11:	lu.	I no No	LIST OF STUDEN	CIS Signature	
	S. No.	Year	Reg. No. PCE21IT001	Student Name AAYUSH KUMARUHA	Daywar	
	2	111	PCE211T002		6	1
	3	10	PCE21IT003	2007-2007-2007-2007-2007-2007-2007-2007	dehisher	
	4	-	PCE211T005	AMAN BATRA	Aman.	
	5	m	PCE21IT007	ANIMESH KUMAR GARG	Animent	
	6	111	PCE211T009	ANSHIKA JAIN	comphile	
	7	10	PCE21IT010	ANUSH AGARWAL	Anush	
	8	16	PCEZ1IT011	ARPIT JAIN	Negit	
	9	m	PCEZ1IT012	ASHISH AGRAWAL	Delias	
	10	111	PCE21/T013	AVINASH KUMAR	Avinanh	
	11	III	PCE211T014	AYUSH KUMAR	Ayun	
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	13	86	PCE21IT015	BHAVIN GARG	Bhorein	
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	15	311	PCE2177017	CHIRAG VIJAYVERGIYA	Chiar in	
	16	M	PCE21IT018	DEEPANSHU SINGH BHADORIYA	Dockeyer	
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Dr. Mahesh Bundele B.E. M.E. Ph.D.

1	27	111	PCE21IT028 JI	TENDRA VERMA	Khwahith Kaghua
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-	29	III	PCE21IT030 K	RISHNA JODHA	Kaisha
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	34	111	PCE21IT035	MUDIT VIJAY	Mithligan
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	36	111	PCE21IT037	NIHIT JANGID	(A)
	37	III	PCE21IT038	NIKHAR JAIN	Dikhar Nikhil Payaneh
	38	111	PCE21IT039	NIKHIL ACHOLIYA	Nikhtil
	39	III	PCE21IT040	PRIYANSH SINGH SOLANKI	Paymeh
	40	III	PCE21IT041	PURVI JAIN	P. Jain
	41	III	PCE21IT042	RITESH KUMAR SINGH	Rital
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	45	III	PCE21IT046	SHASHANK SHARMA	427
	46	III	PCE21IT047	SHRISH KUMAR	Ohinsh
	47	III	PCE21IT048	SHUBHAM SARIN	Suls
	48	111	PCE21IT049	SUPRIYA RANI	Supriya
	49	111	PCE21IT050	TANMAY KUMAWAT	Tannay
	50	III	PCE21IT051	TANMAY SHARMA	Tomas
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	57	11	PCE21IT05	8 YASH GODHWANI	Yash

FEEDBACK/ATTAINMENTS:

FEED	FEEDBACK ANALYSIS (2023-24)									
		Total Feed Ba	nck				100			
S.No.	Attributes	•	>80% Objective Achieved, 60 to 79 %- Satisfactory, Below 60%, Nee improvement							
		Outstanding	Excellent	Good	Average	Satisfactory	Remark			
1	Did the session meet its	73.1958763	20	6.185567	1	0	Objective Achieved -			
1	meet its objectives?	73.20	19.59	6.19	1.00	0.00	Outstanding & Excellent (94.58%)			
	Did you find	Outstanding	Excellent	Good	Average	Satisfactory	Remark			
2	the contents	73.1958763	20	6.185567	1	0	Objective			
	useful?	73.20	19.59	6.19	1.00	0.00	Achieved - Outstanding & Excellent (82.47%)			
	Did it help	Outstanding	Excellent	Good	Average	Satisfactory	Remark			
3	students to	73.1958763	20	6.185567	1	0	Objective			
	enhance their skills or learnings?	73.20	19.59	6.19	1.00	0.00	Achieved - Outstanding & Excellent (84.54%)			

	Was the Audio	Outstanding	Excellent	Good	Average	Satisfactory	Remark
4	Video Quality satisfactory in	73.1958763	20	6.185567	1	0	Objective
7	case of online sessions?	73.20	19.59	6.19	1.00	0.00	Achieved - Outstanding (83.51%)
	Did you receive	Outstanding	Excellent	Good	Average	Satisfactory	Remark
	uninterrupted	73.1958763	20	6.185567	1	0	Objective
5	Connectivity in case of online sessions?	73.20	19.59	6.19	1.00	0.00	Achieved - Outstanding & Excellent (85.57%)
	How do you	Outstanding	Excellent	Good	Average	Satisfactory	Remark
6	rate this session	73.1958763	20	6.185567	1	0	All the
	overall?	73.20	19.59	6.19	1.00	0.00	sessions of the five years were conducted offline and online mode at the time of Covid

Overall Remark:- These kind of sessions should be conducted in the future too for more awareness.



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

A Report on "PCB DESIGNINIG WORKSHOP"

NAME OF ACTIVITY: PCB Designing Workshop

DATE & DURATION: 8 December 2023

TYPE OF ACTIVITY: Co-Curricular

ORGANIZED BY: Department of Electronics & Communication Engineering

LEARNING OUTCOMES:

- LO1-Helps reach education goals through free expression, debates, cooperation, coordination, etc.
- LO2-Developshabitsofconstructivecompetition, improves skills and competence
- LO3-Developsasenseofresponsibilityandbelongingness
- LO4-Developsdecision-makingskills
- LO5-Developsleadership, managerial, and organizing skills
- LO6-Creates opportunities to meet with other like-minded students for socialization, self-assessment, and cultural awareness

MAPPINGSWITHPOANDPSO:

LO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
LO-1						3	2	2	3	3		2	2		3
LO-2						3	2	2	3	3		2	2		3
LO-3						3	2	2	3	3		2	2		3
LO-4						3	2	2	3	3		2	2		3
LO-5						3	2	2	3	3		2	2		3
LO-6						3	2	2	3	3		2	2		3

Dr. Mahesh Bundel

Stapura, JAIPUR

NOTICE:



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PCE/EC/2023-24/06

Date: 7-12-2023

Department of Electronics and Communication

NOTICE

It is to inform you all that Department of Electronics and Communication Engineering is organize a Workshop "PCB DESIGNINIG" on 8 December, 2023. It is mandatory to attend for second year, third year and final year students.

Time: - 08:00 A.M. to 2:00 P.M.

Venue:- R&D Lab

Dr. Garima Mathur

Head, Department of Electronics and Communication Engineering

CC:

> To All Concerned

To Department Notice Board

Dr. Mahesh Bundele

oornima College of Engineerir 131-6, RIICO Institutional Area Stlapura JAIPUR

DESCRIPTION OF THE EVENT:

Designing a Printed Circuit Board (PCB) is a crucial aspect of electronic product development. PCBs serve as the backbone of electronic systems, providing a platform for components to be interconnected and ensuring the proper functioning of the device. Here is a comprehensive report on PCB design, covering key aspects of the process.

Introduction

A. Definition

A PCB is a flat board that supports and connects electronic components using conductive pathways, tracks, or signal traces etched from copper sheets laminated onto a non-conductive substrate.

B. Importance

Efficient PCB design is essential for the optimal performance, reliability, and manufacturability of electronic devices. It influences factors such as signal integrity, electromagnetic interference (EMI), thermal management, and overall system cost.

Key Steps in PCB Design

A. Schematic Design

Component Selection: Choose electronic components based on the project requirements.

Schematic Capture: Create a schematic diagram using specialized software to represent the interconnections between components.

B. Component Placement

Footprint Design: Define the physical dimensions and electrical properties of each component. **Placement Strategy**: Optimize the arrangement of components to minimize signal interference, reduce trace lengths, and facilitate efficient routing.

C. Routing

Signal Traces: Route signal traces to connect components while adhering to design rules.

Power and Ground Planes: Implement solid power and ground planes to enhance signal integrity and reduce noise.

Differential Pair Routing: Employ differential pair routing for high-speed signals to maintain signal integrity.

D. Design Validation

Design Rule Checking (DRC): Use DRC tools to ensure the design complies with manufacturing constraints and specifications.

Simulation: Perform simulations (e.g., SPICE simulations) to assess the electrical performance of the circuit.

E. Gerber File Generation

Layer Generation: Create Gerber files to represent different layers of the PCB.

Manufacturing Files: Generate additional files, such as the Bill of Materials (BOM) and assembly drawings.

III. Challenges and Considerations

A. Signal Integrity

Impedance Matching: Ensure impedance matching for high-speed signals.

Crosstalk Mitigation: Implement strategies to minimize crosstalk between adjacent signal traces.

B. Thermal Management

Heat Dissipation: Design the PCB layout to facilitate effective heat dissipation.

Thermal Relief: Use thermal relief pads for components connected to ground planes to prevent heat buildup.

C. EMI/EMC Considerations

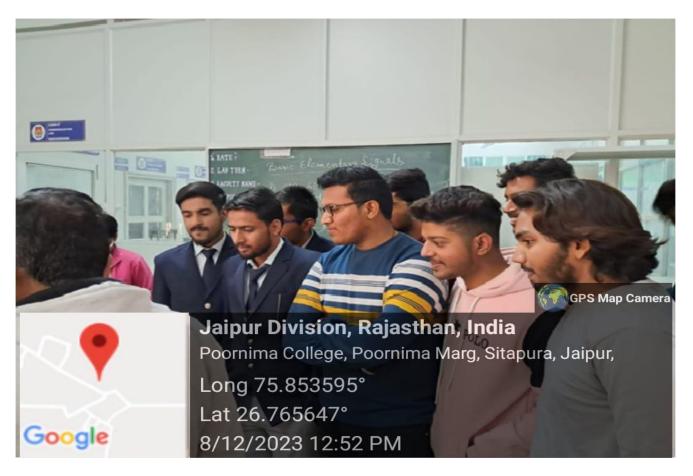
Shielding: Incorporate shielding techniques to minimize electromagnetic interference.

Grounding: Implement proper grounding practices to reduce noise and improve EMC performance.

GLIMPSES:



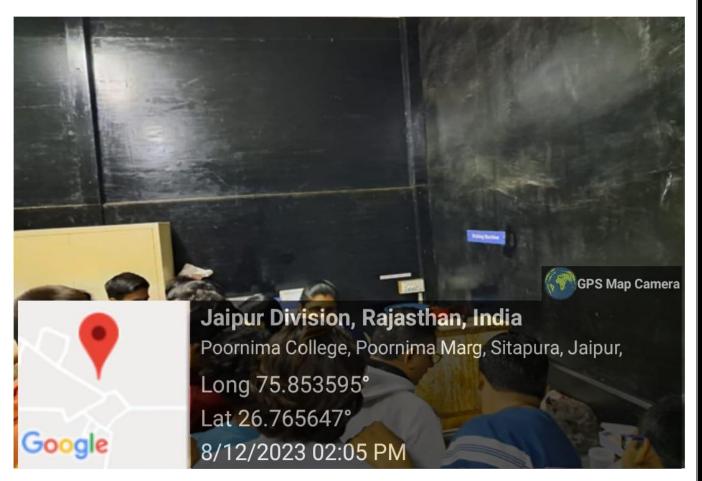


















PARTICIPANTS DETAILS:

Poornima College of Engineering

Department of Electronics & Communication Session 2023-24

Participant Sheet

Date- 8 December, 2023

EVENT: Workshop on PCB Designing

Sr. No	Name of the Student	Enrolment ID
1	ABHINANDAN BHATT	PCE22EC002
2	ABHISHEK KUMAR	PCE22EC003
3	ADARSH KUMAR SINGH	PCE22EC001
4	ADITYA SOMRA	PCE22EC004
5	ADITYA TOSHNIWAL	PCE22EC005
6	AJAY KUMAR SONI	PCE22EC006
7	ANIL BAIRWA	PCE22EC025
8	CHAUHAN NITIN RAJESH SINGH	PCE22EC026
9	CHIRAG JAIN	PCE22EC007
10	DEEPAK DEWATWAL	PCE22EC008
11	DEV SAINI	PCE22EC009
12	DEVENDRA KUMAR SUTHAR	PCE22EC010
13	DHARMRAJ KUMAR	PCE22EC011
14	DIVYAM SETHI	PCE22EC027
15	GAURAV SHARMA	PCE22EC012
16	GAUTAM SAIN	PCE22EC013
17	HANSIKA SAXENA	PCE22EC014
18	HARDIK AJMERA	PCE22EC015
19	KARTIK JAIN	PCE22EC016
20	KRISHAN KANT JANGID	PCE22EC017
21	KUNAL SUHANSIYA	PCE22EC028
22	LOKESH SINGH	PCE22EC018
23	MADHUSUDHAN SINGH	PCE22EC019
24	MOHD SAHIL KHAN	PCE22EC020
25	MS ANUSHKA CHHIPA	PCE22EC021
26	MS SHRUTI AGARWAL	PCE22EC022
27	MUKUL	PCE22EC023
28	RAJWANT	PCE22EC029
29	SHREYA JAIN	PCE22EC024
30	TUSHAR TAILOR	PCE22EC030
31	VINAY PRATAP SINGH MEENA	PCE22EC031
32	DIVANSH JANGID	PCE23EC800
33	ANSHUL KUMAR JAIN	PCE20EC0C1

Dr. Mahesh Bundele

34	ANUSHKA PATEL	PCE20EC002
35	ASHISH KUMAR .	PCE20EC003
36	BHANU SHARMA	PCE20EC004
37	MEENA ASHWINI SEETARAM	PCE20EC005
38	NIKHIL CHOUHAN	PCE20EC008
39	NISHANT SINGH	PCE20EC702
40	PARIHAR HITESH RAMESH	PCE20EC011
41	SURAJ CHAUHAN	PCE20EC012
42	SUSHANK KUMAR	PCE20EC009
43	TARUN VERMA	PCE20EC010
44	TRIPTI JAIN	PCE20EC006
45	APARNA S KUMAR	PCE21EC800
46	ABHAY KHANDELWAL	PCE21EC001
47	ABHISHEK SINGH RAJAWAT	PCE21EC002
48	AVINASH KUMAR .	PCE21EC003
49	BHAWANA SAHANI	PCE21EC004
50	DEVVRATH SINGH	PCE21EC005
51	HARSH KUMAR	PCE21EC006
52	KAMLESH .KUMAWAT	PCE21EC007
53	KASHMI CHOUDHARY	PCE21EC510
54	LOKESH KUMAR .DHAKER	PCE21EC009
55	LOKESH KUMAWAT	PCE21EC010
56	MD ARIF ALAM	PCE21EC023
57	MOHD DAUD QURESHI	PCE21EC011
58	PRIYANSH BAIRWA	PCE21EC012
59	PRIYANSHU SONI	PCE21EC013
60	RAGINI KUMARI	PCE21EC024
61	RAJEEV KUMAR BAG	PCE21EC014
62	RAJENDRA SOLANKI	PCE21EC015
63	RAMAKANT SHARMA	PCE21EC016
64	SAHIL ARORA	PCE21EC017
65	TAMNNA AMERI	PCE21EC020
66	YASH VARDHAN SINGH SOLANKI	PCE21EC022

Dr. Mahesh Bundele

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ATTENDANCE SHEET

Poornima College of Engineering

Department of Electronics & Communication Session 2023-24

Attendence Sheet

Date- 8 December, 2023

EVENT: Workshop	on PCB Designing
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Sr. No	Name of the Student	Enrolment ID	Signature
1	ABHINANDAN BHATT	PCE22EC002	Alah
2	ABHISHEK KUMAR	PCE22EC003	Abhahala
3	ADARSH KUMAR SINGH	PCE22EC001	Adarch
4	ADITYA SOMRA	PCE22EC004	Adulya
5	ADITYA TOSHNIWAL	PCE22EC005	Adit Ya
6	AJAY KUMAR SONI	PCE22EC006	Anil
7	ANIL BAIRWA	PCE22EC025	Chair
8	CHAUHAN NITIN RAJESH SINGH	PCE22EC026	Nitin
9	CHIRAG JAIN	PCE22EC007	hisol
10	DEEPAK DEWATWAL	PCE22EC008	Deepate
11	DEV SAINI	PCE22EC009	K Dev
12	DEVENDRA KUMAR SUTHAR	PCE22EC010	Devendra
13	DHARMRAJ KUMAR	PCE22EC011	· Dharmy
14	DIVYAM SETHI	PCE22EC027	Rivan
15	GAURAV SHARMA	PCE22EC012	tractan
16	GAUTAM SAIN	PCE22EC013	Gauter
17	HANSIKA SAXENA	PCE22EC014	Hamska
18	HARDIK AJMERA	PCE22EC015	Horalik
19	KARTIK JAIN	PCE22EC016	Kartilo
20	KRISHAN KANT JANGID	PCE22EC017	Karolma
21	KUNAL SUHANSIYA	PCE22EC028	bural
22	LOKESH SINGH	PCE22EC018	laker
23	MADHUSUDHAN SINGH	PCE22EC019	Machine
24	MOHD SAHIL KHAN	PCE22EC020	Sahi
25	MS ANUSHKA CHHIPA	PCE22EC021	- Amostretu
26	MS SHRUTI AGARWAL	PCE22EC022	Shruhi
27	MUKUL	PCE22EC023	Muleul
28	RAJWANT	PCE22EC029	Laguer
29	SHREYA JAIN	PCE22EC024	Sharely
30	TUSHAR TAILOR	PCE22EC030	Jusan
31	VINAY PRATAP SINGH MEENA	PCE22EC031	Vhys
32	DIVANSH JANGID	PCE23EC800	Diwash
33	ANSHUL KUMAR JAIN	PCE20EC001	Anshul
34	ANUSHKA PATEL	PCE20EC002	Amuska
35	ASHISH KUMAR .	PCE20EC003	Achiel
36	BHANU SHARMA	PCE20EC004	Bami
37	MEENA ASHWINI SEETARAM	PCE20EC005	Ashuri
38	NIKHIL CHOUHAN	PCE20EC008	Within
39	NISHANT SINGH	PCE20EC702	Wahant

40	PARIHAR HITESH RAMESH	PCE20EC011	08/01
41	SURAJ CHAUHAN	PCE20EC012	The said
42	SUSHANK KUMAR	PCE20EC009	Surey
43	TARUN VERMA	PCE20EC009	Sychause
44	TRIPTI JAIN		70.2
45	APARNA S KUMAR	PCE20EC006	Tripli
46	ABHAY KHANDELWAL	PCE21EC800	Maria
47	ABHISHEK SINGH RAJAWAT	PCE21EC001	Albhank
48	AVINASH KUMAR	PCE21EC002	Athr
49	BHAWANA SAHANI	PCE21EC003	Avena
50	DEVVRATH SINGH	PCE21EC004	Blamana
51		PCE21EC005	Doso
52	HARSH KUMAR	PCE21EC006	Harry
53	KAMLESH KUMAWAT	PCE21EC007	Harte
54	KASHMI CHOUDHARY	PCE21EC510	Kost
	LOKESH KUMAR .DHAKER	PCE21EC009	lalella
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61	RAJEEV KUMAR BAG	PCE21EC014	agith
62	RAJENDRA SOLANKI	PCE21EC015	200
63	RAMAKANT SHARMA	PCE21EC016	Raycus
64	SAHIL ARORA	PCE21EC017	1.91
65	TAMNNA AMERI	PCE21EC020	and
66	YASH VARDHAN SINGH SOLANKI	PCE21EC022	Van
			Jen's -

Dr. Payal Bansal Name & Signature Event Coordinatore

or Mahesh Bundele

Octnima College of Engineering

FEEDBACK:

Content of the workshop is rated as:

- Excellent by 94.58% of participants
- Good by 6.19% of participants

Management/ Administration of the workshop is rated as:

- Excellent by 96.48% of participants
- Good by 3.52% of participants

Overall Workshop is rated as:

- Excellent by 95.58% of participants
- Good by 4.42% of participants

Dr. Mahesh Bundele

Poornima College of Engineerin



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A REPORT ON ONE DAY WORKSHOP TO COMMEMORATE

WORLD STANDARDS DAY-2023 AS MANAK MAHOTSAV

TITLE AND DURATION: One Day Workshop to "commemorate World Standards Day-

2023 as MANAK MAHOTSAV" on October 12, 2023.

ORGANIZER(S): Department of Mechanical, Poornima College of Engineering, Jaipur.

FLYER / POSTER:



Stapura





One Day Workshop to Commemorate World Standards Day as Manak Mahotsav (October 12-16, 2023)

Technically & Financially Sponsored by: Bureau of Indian Standards, Jaipur

Inaugural Ceremony

Thursday, October 12, 2023, **Venue:** 2005, PCE **Time**: 9:00 AM to 2.30 PM

S.N.	Activity	Duration	Time
1.	Registration of the Participants	35 Min	09:00-09:35 am
2.	Gathering of Audience at 2005, PCE	15 Min	09:35-09:50 am
3.	Arrival of Guests	10 Min	09:50-10:00 am
4.	 Welcome of Dignitaries & Lighting of Lamp A. Smt. Kanika Kalia, Director& Head, Bureau of Indian Standards, Jaipur- Chief Guest B. Dr. Kashinath Samgandi, Associate Professor, National Institute of Ayurveda, Jaipur- Guest of Honour C. Dr. H. K. Singh, Deputy Manager, Design2occupany-Guest of Honour D. Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur E. Dr. Pankaj Dhemla, Vice-Principal, Poornima College of Engineering, Jaipur F. Dr. Narayan Lal Jain, Professor & HoD, Department of Mechanical Engineering, Poornima College of Engineering, Jaipur G. Dr. Surendra Kumar Saini, Mentor & Coordinator of Standards Club, & Associate Professor, Department of Mechanical Engineering, Poornima College of Engineering, Jaipur. 	05 Min	10:00-10:05 am
5.	Sarsawati Vandana and BIS Manak Geet by audio play	05 Min	10:00-10:05 am

6.	 Invite Guest on Dias for Felicitation A. Felicitation of Chief Guest - Smt. Kanika Kalia, Director& Head, Bureau of Indian Standards, Jaipur by Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur. B. Felicitation of Guest of Honour - Dr. Kashinath Samgandi, Associate Professor, National Institute of Ayurveda by Dr. Pankaj Dhemla Vice-Principal, Poornima College of Engineering, Jaipur C. Felicitation of Guest of Honour - Dr. H. K. Singh, Deputy Manager, Design2occupany by Dr. Surendra Kumar Saini, Mentor & Coordinator, Standards Club, Poornima College of Engineering, Jaipur. 		10:05-10:20 am
7.	Introduction to the Workshop by Dr. Surendra Kumar Saini, Mentor & Coordinator of Standards Club, & Associate Professor, Department of Mechanical Engineering, Poornima College of Engineering, Jaipur	02 Min	10:20-10:22 am
8.	Welcome address by Dr. Mahesh Bundele , Director & Principal, Poornima College of Engineering, Jaipur	03 Min	10:22-10:25 am
9.	Introduction & Words of Wisdom by Smt. Kanika Kalia, Director& Head, Bureau of Indian Standards Jaipur-Chief Guest.	02 Min	10:25-10:27 am
10.	Group Photograph- at PCE Garden Area	03 Min	10:27-10:30 am
11.	Session on Unlocking Optimal Health: The Ayurevedic Way of Living by Dr. Kashinath Samgandi , Associate Professor, National Institute of Ayurveda, Jaipur	60 Min	10:30-11:30 am
12.	Refreshment	20 Min	11:30-11:50 am
13.	Quiz	25 Min	11:50-12:15 pm
14.	Session on Standardized Technique for Decarbonizing Buildings by Dr. H. K. Singh , Deputy Manager, Design2occupany	60 Min	12:15-1:15 pm
15.	Session on Standards: Hindsight to Foresight by Dr. Surendra Kumar Saini , Mentor & Coordinator of Standards Club, & Associate Professor, Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.	45 Min	1:15-02:00 pm
16.	Results of Quiz & Prize Distribution	25 Min	02:00-02:25 pm
17.	Vote of Thanks by Dr. Narayan Lal Jain , Professor & Head, Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.	05 Min	02:25-02:30 pm

BRIEF OF THE SESSION:

Session was started with the Arrival of Guests. Dr. Surendra Kumar Saini, Mentor & Coordinator of Standards Club, & Associate Professor, Department of Mechanical Engineering welcome the guest. Dr. Surendra Kumar Saini, Mentor & Coordinator of Standards Club, & Associate Professor, Department of Mechanical Engineering explained about the standard and

Stapura, JAIPU

its purpose, he explained A standard is a document, established by consensus and approved by a recognized body, that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context (see ISO Guide 2). Standard can be a product specification, a code of practice, a terminology standard, a process specification, a service specification, a test method, system specification, dimensions, etc (see ISO/IEC Guide 2).

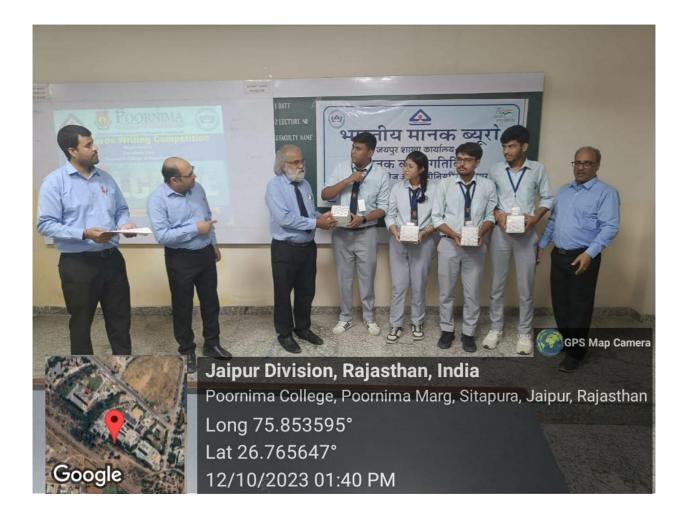
NOTE – Standards should be based on the consolidated results of science, technology and experience, and aimed at the promotion of optimum community benefits. A Standard is a document setting out good practices established by consensus subject to public consultation and approved by a national committee. Rule 15 of BIS Rules, 2018 dwells on the establishment of Indian Standards in relation to any goods, article, process, system or service by the Bureau and in regard to their reaffirmation, amendment, revision and withdrawal by a process of consultation with stakeholders. The Rule also requires the Central Government or the concerned regulator to be consulted, in case a standard is being established at their request. Purpose of Standards Standards can (a) create an enabling framework - for attaining efficiency in processes, Dissemination of technologies and achieving economies of scale; (b) enhance consumer protection and consumer confidence and thereby enable in market access; (c) facilitate trade by reducing technical barriers; and (d) support public policy objectives and provide suitable alternatives to support regulations.

Standards aim to achieve the following:

- a) Defining requisite levels of quality,
- b) Ensuring safety and optimize human effort,
- c) Rationalization of use of resources,
- d) Convenience of use,
- e) Adoption of best possible solutions to recurring problems,
- f) Variety control,
- g) Interchangeability and interoperability, and
- h) Optimum cost.

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineer

GLIMPSES:









Poornima College of Engineering ISI-6, FUICO Institutional Area Stlagura, JAIPUR







Poornima College of Engineering 181-6, Fulco Institutional Area Stlapura, JAIPUR

LIST OF PARTICIPANTS & ATTANDANCE:

SN	Participant Name	BRANC H	ID	Signature
1	SACHIN YADAV	ME	PCEJOMEO13	<u></u>
2	Vishad Tainwala	MF	PCF20MEO17	(<u>Universe</u>
3_	Kanishk Bahiti	M7-	PCEZOME COO	<u>kawintik</u>
4	Ammil Jain	M.F	PCE ZUMEOUS	A is
5	Harshit Soney .	M.G-	R/FROM FOLH	1900
6	Gener Singh	Me	PCE20ME 703	A wall
7	Puncet Kuman	IT	P(EZOITO35	prest
8	Bhanu Sharma	EC	9(E20 E C004	
9	Hitesh Parihar	F.C.	PLEZOECON	blobal
10	Priyanshy Sharma	EF	PF21EF015	Preinand
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12	Pankaj Bijarniya	<i>€</i> €	P(621 66 014	Unn
13	Yostender Yoday	€€	PC6216 GOOD	Later day 2 .
14	Delail Maliapaton	E &	PCE 21 CE 006	Pelonil
15	Kunal Sain	EE	PC€ ZD E €00%	Falmer 7
16	Nishent Verma	E E	PCE 20 FE 012	N/J
17	Britanshi Mittal	EE	PCE-20EEn13	Briganhi
18	Sabra Kumari	EE	PCE 20 EE 016	Samo
19	Latit Jadav	E E	PC EZO E E TOT	Pul-
20	Ankit maretha	E-E	PCE 20EE 002	A.
21	Brance Product	/Y/E	PCE 2 KMEMD	Bronus
22	ROU KINGY	ME	PCEZIMEO13	Dan harry
23	Robin Sinch	ME	PCEZIMEON	Robin.
24	Asum chaudhusing	દદ	PLEZIEFOOT	Anyun
25	Shubham Kumor Yogi	EE		727 77
26	Himmohu Named	E E	PCE 21 EFOR	
27	Aspit kumar supta	 ⊊€	PCEZIE EXOS	अधित ग्रस
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FEEDBACK ANALYSIS:

SESSION FEEDBACK ANALYSIS									
Sr.no.		Total	Total Feed Back- 19						
	Attributes	Feed Back	>80% Objective Achieved, 60 to 79 %- Satisfactory, Below 60%, Need improvement						

1	Do you think session was useful	19	Yes	No	Partial			Remark	
			17	0	2	0	0	Objective Achieved (89.47%)	
	for you?		89.47	0.00	10.53	0.00	0.00		
	Did you receive all the	19	Yes	No	Partial			Remark	
2	information vou		18	0	1	0	0	Objective Achieved (94.74%)	
	expected by the session?		94.74	0.00	5.26	0.00	0.00		
	Opinion on		Outstanding Excellent Good		Good	Average	Satisfactory	Remark	
3	Rating the speaker for the session	19	18	1	0	0	0	Objective Achieved -	
			94.74	5.26	0.00	0.00	0.00	Outstanding & Excellent (94.74%)	
4	Audience Query Response by the Speaker	19	Outstanding	Excellent	Good	Average	Satisfactory	Remark	
			18	1	0	0	0	Objective Achieved (94.74%)	
			94.74	5.26	0.00	0.00	0.00		
	Overall experience about the	19	Outstanding	Excellent	Good	Average	Satisfactory	Remark	
5			19	0	0 0		0	Objective Achieved -	
	Session		100.00	0.00	0.00	0.00	0.00	Outstanding (100%)	
	Would you like to	19	Yes	No				Remark	
6	attend future Alumni Session conducted by the department?		19	0	0	0	0		
			100.00	0.00	0.00	0.00	0.00	Objective Achieved (100%)	

Notice



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PCE/ME/DO/2023-24/18

NOTICE

Date: 08-10-2023

"One Day Workshop to Commemorating International Standards Day as MANAK MAHOTSAV" is being organized by the Department of Mechanical Engineering on 12-10-2023. The activity will be held at as per the following schedule.

Date : 12-10-2023

: One Day Workshop to Commemorating International Standards Day as **Activity Name**

MANAK MAHOTSAV

Venue : 1B -05

Time : 9AM onwards

The students are required to be present at the venue on time. For further query you may contact the Faculty Coordinator Dr. Surendra Kumar Saini.

Dr. N. L. Jain

HoD, ME

ISI-6, RIICO Institutional Area, Sitapura, Jaipur: 302 022 (Rajasthan)

Phone: +91-9829255102, E-mail: registrar.pce@poornima.org, Website: www.poornima.org

131-6, FUICO Institutional



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

A REPORT ON i3 Day Activity

TITLE AND DURATION: i3 Training on "Advance Manufacturing" on NOVEMBER 1-7, 2023.

ORGANIZER(S): Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

EXPECTED OUTCOMES:

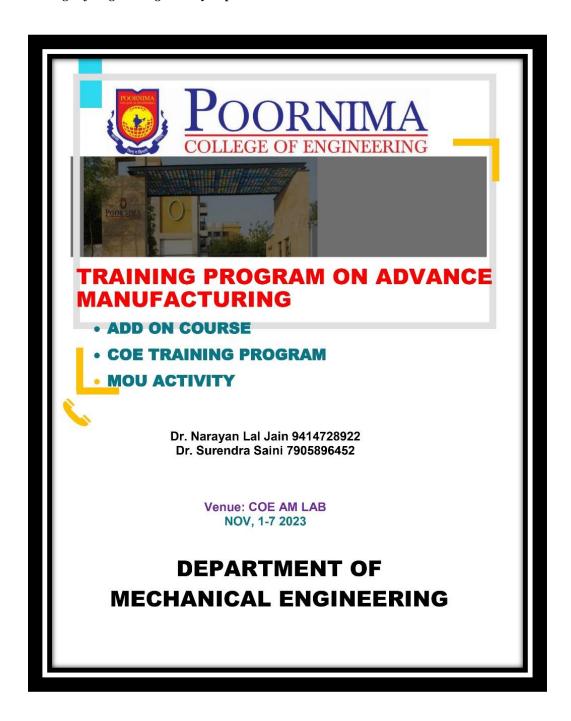
Activity-1.1	Student will be able to enhance the knowledge of advance manufacturing.
Activity-1.2	Student will be able to recognize the Working Scenario for Mechanical Engineers in manufacturing.
Activity-1.3	Student will be able to analyse the working in the field of manufacturing as a Mechanical Engineer.

MAPPINGS WITH PO&PSO:

CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong

СО				PO									P	PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	3	-	-	-	-	-	-	2	3	2
CO2	-	-	-	-	-	-	-	-	3	-	-	-	2	3	2
соз	-	-	-	-	-	-	-	-	-	-	-	3	2	3	2

FLYER / POSTER:



BRIEF INTRODUCTION ABOUT THE PROGRAM:

The training program on Advance Manufacturing was conducted in Mechanical Department, Poornima College of engineering on 1 November, 2023.

The session started on 8:30 am. This training session was conducted for 3rd year students of B.Tech. Students. All the students actively participated in the training session. Session was very

Dr. Mahesh Bundel

Silegura, JAIPUR

useful for students. It helps Student to develop knowledge towards designing and printing using in 3d software and machine respectively.

OBJECTIVE OF THE SESSION:

- To learn about the basics of 3D printing.
- To explore the MAYA software for 3D printing application.

BRIEF OF THE SESSION:

From this training session Student learned about the basics of 3d printing, it's uses in the industrial world. The basics about Maya software has been covered that is mostly used for designing and animation.

Three-dimensional (3D) printing is an additive manufacturing process that creates a physical object from a digital design. The process works by laying down thin layers of material in the form of liquid or powdered plastic, metal or cement, and then fusing the layers together.

- Three-dimensional (3D) printing is an additive manufacturing process in which a physical object is created from a digital design by printing thin layers of material and then fusing them together.
- Some industries, such as hearing aids manufacturers, airline manufacturers, and car manufacturers, use 3D printing to create prototypes and mass produce their products using custom scans.
- While it is currently too slow to be used in mass production, 3D printing technology is still evolving and has the potential to massively disrupt both the manufacturing logistics and inventory management industries.

Since it was introduced, 3D printing technology has already increased manufacturing productivity. In the long-term, it has the potential to massively disrupt both the manufacturing, logistics, and inventory management industries, especially if it can be successfully incorporated into mass production processes.

Currently, 3D printing speeds are too slow to be used in mass production. However, the technology has been used to reduce the lead time in the development of prototypes of parts and devices, and the tooling needed to make them. This is hugely beneficial to small-scale manufacturers because it reduces their costs and the time to market, that is, the amount of time from a product being conceived until its being available for sale.

Dr. Mahesh Bundele B.E. M.E. Ph.D Director Poornima College of Engineer

3D printing can create intricate and complex shapes using less material than subtractive manufacturing processes, such as drilling, injection moulding, and other processes.

Industrial Uses

Car and aircraft manufacturers have taken the lead in 3D manufacturing, using the technology to transform unibody and fuselage design and production, and powertrain design and production. Boeing is using 3D-printed titanium parts in the construction of its 787 Dreamliner airliner.1 In 2017, General Electric created a helicopter engine with 16 parts instead of 900—an indication of how big an impact 3D printing could potentially have on supply chains.

In medical sciences, 3D printing is being used to customize implants. In the future, organs and body parts may be created using 3D printing techniques. In the fashion world, Nike, Adidas, and New Balance are using 3D printing to create their shoes.345 In the construction industry, companies around the world are making breakthroughs in 3D printing of the materials need to build homes. Using layers of concrete, homes can be built in 24 hours, which are stronger than regular cinder blocks and cost a fraction of the price.

In the manufacturing of hearing aids, 3D printing is now customary. The use of 3D printing accelerates the process of manufacturing and enables manufacturers to make custom hearing aids. Audiologists can use 3D scanners to create a custom prototype using reference points from the scan. Manufacturers can feed the scan into a 3D printing machine and after fine-tuning the materials and the ear shapes, print the entire hearing aids.

Types of 3d printing

There are several types of 3D printing, which include:

- Stereo lithography (SLA)
- Selective Laser Sintering (SLS)
- Fused Deposition Modelling (FDM)
- Digital Light Process (DLP)
- Multi Jet Fusion (MJF)
- PolyJet.
- Direct Metal Laser Sintering (DMLS)
- Electron Beam Melting (EBM)

About Maya Software?

Maya is an application used to generate 3D assets for use in film, television, games, and commercials.

Dr. Mahesh Bundele
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Director
Poornima College of Engineering

Maya was originally an animation product based on code from The Advanced Visualizer by Wave front Technologies, Thomson Digital Image (TDI) Explore, Power Animator by Alias, and Alias Sketch! The IRIX-based projects were combined and animation features were added; the project codename was Maya. Walt Disney Feature Animation collaborated closely with Maya's development during its production of Dinosaur. Disney requested that the user interface of the application be customizable to allow for a personalized workflow. This was a particular influence in the open architecture of Maya, and partly responsible for its popularity in the animation industry. After Silicon Graphics Inc. acquired both Alias and Wave front Technologies, Inc., Wave front's technology (then under development) was merged into Maya. SGI's acquisition was a response to Microsoft Corporation acquiring Softimage 3D. The new wholly owned subsidiary was named "Alias Wave front".

In the early days of development Maya started with Tcl as the scripting language, in order to leverage its similarity to a Unix shell language, but after the merger with Wave front it was replaced with Maya Embedded Language (MEL). Sophia, the scripting language in Wave front's Dynamiting, was chosen as the basis of MEL.

Overview

Maya is an application used to generate 3D assets for use in film, television, games, and commercials. The software was initially released for the IRIX operating system. However, this support was discontinued in August 2006 after the release of version 6.5. Maya was available in both "Complete" and "Unlimited" editions until August 2008, when it was turned into a single suite.[13sers define a virtual workspace (scene) to implement and edit media of a particular project. Scenes can be saved in a variety of formats, the default being. mb (Maya D). Maya exposes a node graph architecture. Scene elements are node-based, each node having its own attributes and customization. As a result, the visual representation of a scene is based entirely on a network of interconnecting nodes, depending on each other's information. For the convenience of viewing these networks, there is a dependency and a directed acyclic graph. Nowadays, the 3D models can be imported to game engines such as Unreal Engine and Unity.

Industry usage

The widespread use of Maya in the film industry is usually associated with its development on the film Dinosaur, released by Disney and The Secret Lab on May 19, 2000. In 2003, when the company received an Academy Award for Technical Achievement, it was noted to be used in films such as The Lord of the Rings: The Two Towers, Spider-Man (2002), Ice Age. By 2015, Vert

Dr. Mahesh Bundele

Beat Magazine stated that all ten films in consideration for the Best Visual Effects Academy Award had used Autodesk Maya and that it had been "used on every winning film since 1997." Second days of Training was started with the introduction of CNC part programming and G & M codes. CNC part programming involves a series of coded instructions that are required to produce a part. The program controls the machine tool movements and controls auxiliary functions including spindle, coolant, and rotation. The instructions may include numbers, letters, and symbols arranged in functional format blocks. CNC part programming uses a program input device such as a keyboard, diskette drivers, pouched tape reader or serial ports among others. The program describes work that should be done on a part in the format required by CNC software. Programming is the point at which all the machining data is compiled and translated so that the control system can understand and implement the instructions.

Machining data can be employed as; Machine sequence process, from tool start up to cutting depth, and tool path among others. Cutting conditions, feed rate, spindle speed, coolant, among others. Selection of cutting tools.

G and M codes are required for CNC machining. However, what is the exact function of the two CNC letters program? How do they control CNC machines? This section will answer these questions and also highlight the differences between both codes.

G code (also RS-274D) is the most popular CNC programming language. Most G code commands are in alphanumeric format and start with G which stands for geometry. G-code is responsible for the movements of CNC machines, telling the machine where to start, how to move, and when to stop when fabricating a part.

However, G code programming can be quite complicated for machinists because different machines read G codes in different formats. Most machines' difference is in the presence or absence of spaces between commands and in the number of zeros between the letter and number in the commands. For example, a machine might use G3 while another uses G03. Machinists must always be conversant with the type of machine they're using. Otherwise, errors in the command can lead to serious problems in parts production.

M code also begins with the letter 'M.' the M code is a set of auxiliary commands that control all the machine's non-geometric actions. Machinists refer to the code as miscellaneous codes as it controls non-cutting actions such as stopping programs, flooding the machine with coolants, and shutting it off after the temperature drops. When setting up the CNC letters program using G and M codes, the M code should only have one command per block of information. This is because

Dr. Mahesh Bundele B.E. M.E. Ph.D Director

they mainly turn the machine on and off. Therefore, using them multiple times in one block could cause program problems. Students were learned to write programming and individual students wrote programming for turning operation.

Fourth days of Training was started with the introduction of 3D part programming and G & M codes. 3D part programming involves a series of coded instructions that are required to produce a part. The program controls the machine tool movements and controls auxiliary functions. 3D part programming and designing uses a program input device such as a keyboard, diskette drivers, pouched tape reader or serial ports among others. The program describes work that should be done on a part in the format required by 3D printing Machine. Programming is the point at which all the machining data is compiled and translated so that the control system can understand and implement the instructions. Students found the workshop very useful. It helps students to develop their knowledge towards designing in 3d software. From this training session I learned the basics about 3d printing, its uses in the industrial world.

Industrial Uses

Car and aircraft manufacturers have taken the lead in 3D manufacturing, using the technology to transform unibody and fuselage design and production, and powertrain design and production. Boeing is using 3D-printed titanium parts in the construction of its 787 Dreamliner airliner.1 In 2017, General Electric created a helicopter engine with 16 parts instead of 900–an indication of how big an impact 3D printing could potentially have on supply chains. In medical sciences, 3D printing is being used to customize implants. In the future, organs and body parts may be created using 3D printing techniques. In the fashion world, Nike, Adidas, and New Balance are using 3D printing to create their shoes.345 In the construction industry, companies around the world are making breakthroughs in 3D printing of the materials need to build homes. Using layers of concrete, homes can be built in 24 hours, which are stronger than regular cinder blocks and cost a fraction of the price. In the manufacturing of hearing aids, 3D printing is now customary. The use of 3D printing accelerates the process of manufacturing and enables manufacturers to make custom hearing aids. Audiologists can use 3D scanners to create a custom prototype using reference points from the scan. Manufacturers can feed the scan into a 3D printing machine and after fine-tuning the materials and the ear shapes, print the entire hearing aids.

G-code

G-code is a language that humans use to tell a machine how to do something. With 3D printing, G-code contains commands to move parts within the printer. G-code (also RS-274) is the machine how to do something.

widely used computer numerical control (CNC) and 3D printing programming language. It is used mainly in computer-aided manufacturing to control automated machine tools, as well as for 3D-printer slicer applications. The G stands for geometry.

STL file

STL is a file format commonly used for 3D printing and computer-aided design (CAD). The name STL is an acronym that stands for stereo lithography — a popular 3D printing technology. You might also hear it referred to as Standard Triangle Language or Standard Tessellation Language. Fifth Day of Training (November 6, 2023)

Fifth days of Training was started with the 3D Printing of parts which is developed by part programming and G & M codes. 3D part programming involves a series of coded instructions that are required to produce a part. The program controls the machine tool movements and controls auxiliary functions. 3D part programming and designing uses a program input device such as a keyboard, diskette drivers, pouched tape reader or serial ports among others. The program describes work that should be done on a part in the format required by 3D printing Machine. Programming is the point at which all the machining data is compiled and translated so that the control system can understand and implement the instructions. Students found the workshop very useful. It helps students to develop their knowledge towards designing in 3d software. From this training session I learned the basics about 3d printing, its uses in the industrial world. Sixth Day of Training (November 7, 2023)

Sixth days of Training was started with the 3D Printing of parts which is developed by part programming and G & M codes. 3D part programming involves a series of coded instructions that are required to produce a part. The program controls the machine tool movements and controls auxiliary functions. 3D part programming and designing uses a program input device such as a keyboard, diskette drivers, pouched tape reader or serial ports among others.

Dr. Mahesh Bundele B.E., M.E., Ph. Director

GLIMPSES:

DAY 1:









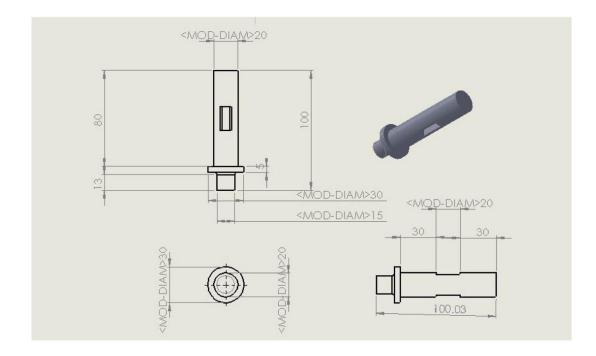


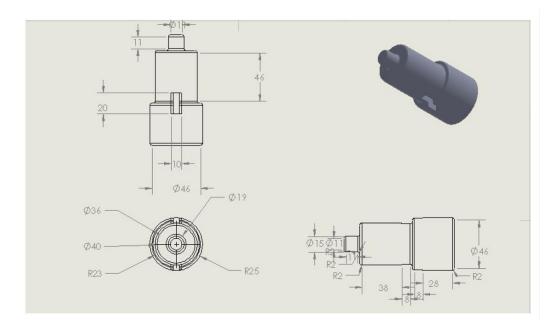


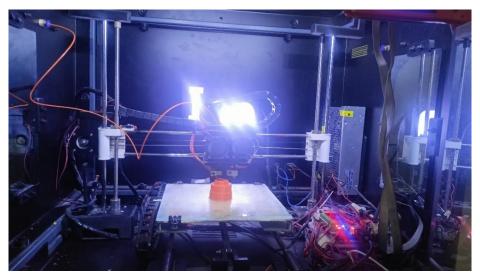


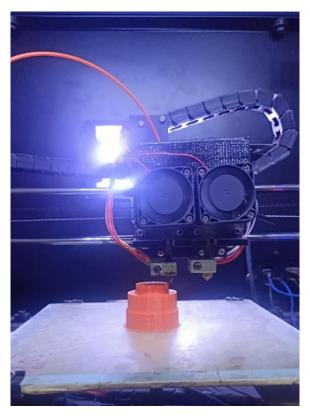


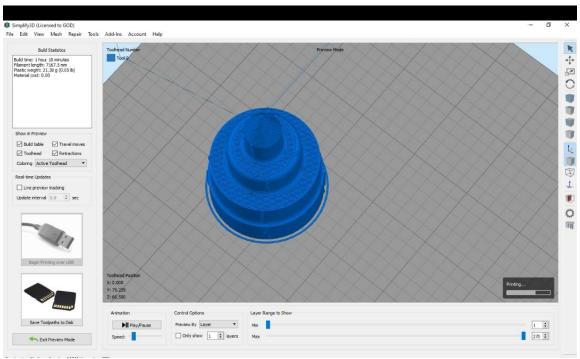
Product Designed











III Year ME Students NSP Project on CNC Machine

S			Group	
No.	Student Name	Registration No.	No.	Project Title on CNC Machine
1	Harshita Joshi	PCE21ME005	G1	Chamfering and TaperTurning Operation on Workpiece
2	Rajveer Singh	PCE21ME014	G1	Chamfering and TaperTurning Operation on Workpiece
3	Ramnaresh Matwa	PCE21ME016	G10	Chamfering and turining Operation on Workpiece
4	Sulabh Saxena	PCE21ME020	G10	Chamfering and turining Operation on Workpiece
5	Adarsh	PCE22ME800	G11	Step Turning on Workpiece
6	Ashish	PCE22ME801	G11	Step Turning on Workpiece
7	Raman	PCE21ME015	G2	Chamfering Operation on Workpiece
8	Vivek	PCE21ME023	G2	Chamfering Operation on Workpiece
9	Priya	PCE21ME011	G3	Taper turning operation on workipiece
10	Robin Singh	PCE21ME017	G3	Taper turning operation on workipiece
11	Tanmay Jangid	PCE21ME021	G4	Step Turning on Workpiece
12	Harsh Kumawat	PCE21ME004	G5	Fillet operation on Turning workpiece
13	Uttkarsh	PCE21ME022	G5	Fillet operation on Turning workpiece
14	Ibrahim	PCE21ME006	G6	Chamfering operation on Turning workpiece
15	Mo. Ayyan	PCE21ME008	G6	Chamfering operation on Turning workpiece
16	Jayant	PCE21ME007	G7	Chamfering and Turning Operation on Workpiece
17	Mohit Joshi	PCE21ME009	G7	Chamfering and Turning Operation on Workpiece
18	Bhanu Pratap	PCE21ME002	G8	Fillet and chamfering operation on Turning workpiece
19	Monu	PCE21ME010	G8	Fillet and chamfering operation on Turning workpiece
20	Aayush	PCE21ME001	G9	Chamfering fillet and taper turning on pointed workpiece
21	Raju Kumar	PCE21ME013	G9	Chamfering fillet and taper turning on pointed workpiece
			I.	

III Year ME Students NSP Project on 3 D Printing Machine

S No.	Student Name	Registration No.	Group No.	Project Title on 3D Printing Machine
1	Harsh Kumawat	PCE21ME004	G1	CNC Turning Workpiece Printing

2	Adarsh	PCE22ME800	G1	CNC Turning Workpiece Printing
3	Uttkarsh	PCE21ME022	G1	CNC Turning Workpiece Printing
4	Ashish	PCE22ME801	G2	Robotic Arm Design & Printing
5	Raman	PCE21ME015	G2	Robotic Arm Design & Printing
6	Vivek	PCE21ME023	G2	Robotic Arm Design & Printing
7	Monu	PCE21ME010	G2	Robotic Arm Design & Printing
8	Ibrahim	PCE21ME006	G3	Gear Box Design & Printing
9	Aayush	PCE21ME001	G3	Gear Box Design & Printing
10	Jayant	PCE21ME007	G3	Gear Box Design & Printing
11	Mohit Joshi	PCE21ME009	G3	Gear Box Design & Printing
12	Harshita Joshi	PCE21ME005	G4	Cotter Joint Design & Printing
13	Rajveer Singh	PCE21ME014	G4	Cotter Joint Design & Printing
14	Tanmay Jangid	PCE21ME021	G4	Cotter Joint Design & Printing
15	Priya	PCE21ME011	G4	Cotter Joint Design & Printing
16	Robin Singh	PCE21ME017	G4	Cotter Joint Design & Printing

LIST OF PARTICIPANTS & ATTANDANCE:

	atmiel	Poornima College of Engineering Department of Mechanical Engineering
- 4 (1)	Tan	COE Training programmer Activity under MOU
	CO.	Training Program is Advanced Manufacturing Presentation
	Registration No.	EAY 1_1/11/23 DAY 2_2/11/23 DAY 3_3/11/23 DAY 4_4/11/23 DAY 5_6/11/23 DAY 5_6/11/23 DAY 6_11/23 DAY 6_
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RAMNARESH MATNIA	PCE21ME016	The state of the s
ROBIN SINGH	PCE21ME017	
SULABH SAXENA	PCE21ME020	Salabh Swingh Salabh Sa
TANMAY JANGID	PCE21ME021	Thomas Barred Tarred Ta
LITKARSH AGRAWAL	PCEZ1ME022	HEREL BURNESH OTHERS
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ASHISH KUSHWAH	PCE22ME801	REGION CONTROL OFFICE PROPERTY CONTROL
Mr. Anurag Tiwari - Technical Coordinator		w a ha h
Mr. Suneel Kumar Sharma		2 1 2 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1
Mr. Chndra Mohan Sharma		The state of the s
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Mr. Ajay Pagre Program Co-Coordinator		get of garden of the off of of out of one
Ar. Sanjay Kumawat Program Co-Coordinator		THE MAN TO BE BY BY BY BY BY BY
r. Akshay Jain. Program Co-Coordinator		At March the Al At At the At Ms man
r. Surendra Kumar Saini ogram Coordinator		The state of the s
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		Dr. Narayan La! Jain-Over

FEEDBACK ANALYSIS:

SESSION FEEDBACK ANALYSIS								
Sr.no.	Attributes	Total Feed Back	Total Feed Back- 18 >80% Objective Achieved, 60 to 79 %- Satisfactory, Below 60%, Need improvement					
	Do you think session was useful for you?	21	Yes	No	Partial			Remark
1			20	0	1	0	0	Objective
			95.23	0.00	4.77	0.00	0.00	Achieved (95.23%)
	Did you receive all the information you expected by the session?	21	Yes	No	Partial			Remark
2			20	0	1	0	0	Objective Achieved (95.23%)
			95.23	0.00	4.77	0.00	0.00	
	Opinion on Rating the trainer for the session	21	Outstanding	Excellent	Good	Average	Satisfactory	Remark
3			20	1	0	0	0	Objective
3			95.23	4.77	0.00	0.00	0.00	Achieved - Outstanding & Excellent (95-23%)

4	Audience Query Response by the trainer	21	Outstanding	Excellent	Good	Average	Satisfactory	Remark
			20	1	0	0	0	Objective
			95.23	4.77	0.00	0.00	0.00	Achieved (95.23%)
5	Overall experience about the Session	21	Outstanding	Excellent	Good	Average	Satisfactory	Remark
			21	0	0	0	0	Objective Achieved - Outstanding (100%)
			100.00	0.00	0.00	0.00	0.00	
6	Would you like to attend future training session conducted by the department.	21	Yes	No				Remark
			21	0	0	0	0	Objective
			100.00	0.00	0.00	0.00	0.00	Achieved (100%)

Notice



Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

Date: 20-10-2023

PCE/ME/DO/2023-24/14

NOTICE

An "i3 training Program on "Advance Manufacturing" celebration is being organized by the Department of Mechanical Engineering on 01-07 November 2023. The activity will be held at as per the following schedule.

Date : 01-07 November 2023

Activity Name : i3 training Program on "Advance Manufacturing Engineering

Venue : 1B-05

Time : 9:00AM Onwards

The students are required to be present at the venue on time. For further query you may contact the Faculty Coordinator Dr. Surendra Kumar Saini.

Dr. N. L. Jain

HoD, ME

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