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Report On STAADPRO WORKSHOP

NAME OF ACTIVITY: Report on STAADPRO WORKSHOP

DATE & DURATION: 2-8 November 2023

ORGANIZED BY: Department of Civil Engineering

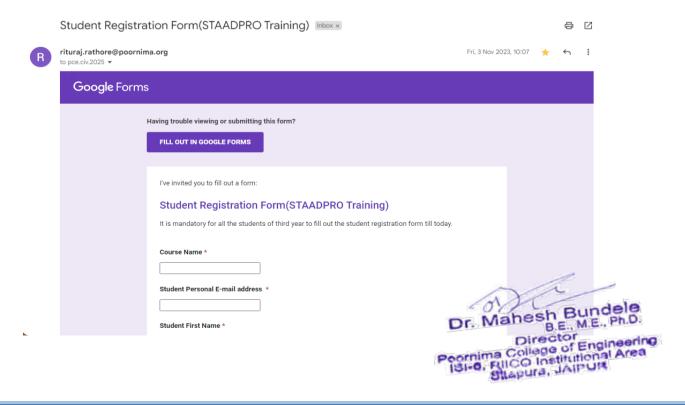
S.No.	Course ID	Workshop Name	No. of	Course	Course Facilitator
			Modules	Duration	
1.	AOC-DEP- CIV-SPRO	STADD PRO	6	40 Hours	MR.RUSHIKESH P TANTAK`

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:



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 standard making the suitable for projects around the world.

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

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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.

Poornima College of Engineering
151-6, RIICO Institutional Area

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
B.E., M.E., Ph.D.

Director

Peornima College of Engineering
181-6, FillCO Institutional Area
Strapura, JAiPUR

ATTENDANCE LIST:

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Dr. Mahesh Bundele B.E. M.E., Ph.D. Director Peornima College of Engineering ISI-6, Fulico Institutional Area ISI-6, Fulico Institutional Area

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Poornima College of Engineering
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Dr. Mahesh Bundele
B.E. M.E., Ph.D.
Director
Peornima College of Engineering
ISI-6, Fill CO Institutional Area
Stapura, JAIPUR

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Dr. Mahesh Bundele
B.E. M.E., Ph.D.
Director
Peornima College of Engineering
131-6, Fill CO Institutional Area
Stapura, JAIPUR

ASSIGNMENT 1:

Analyze and design the following two storied building.

Building specifications to be taken as:

Slab thickness : 125mm

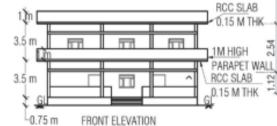
: 20thk Granite Floor Floor finish Live load : Store & Hall - 5KN/m2

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

Wall thickness : 230 mm Conc. Density : 25KN/m3 Depth & footing =1.2 m

Plinth height = 0.75





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Dr. Mahesh Bundele

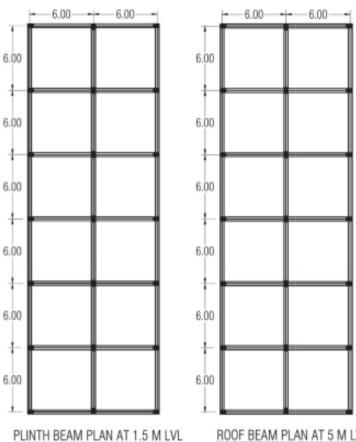
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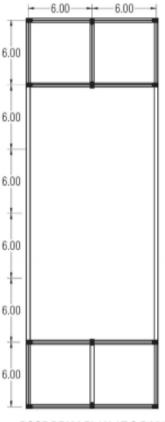
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Poornima College of Engineering
131-6, RIICO Institutional Area

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

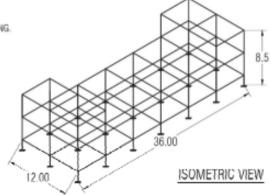
ROOF BEAM PLAN AT 8.5 M LVL

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:-

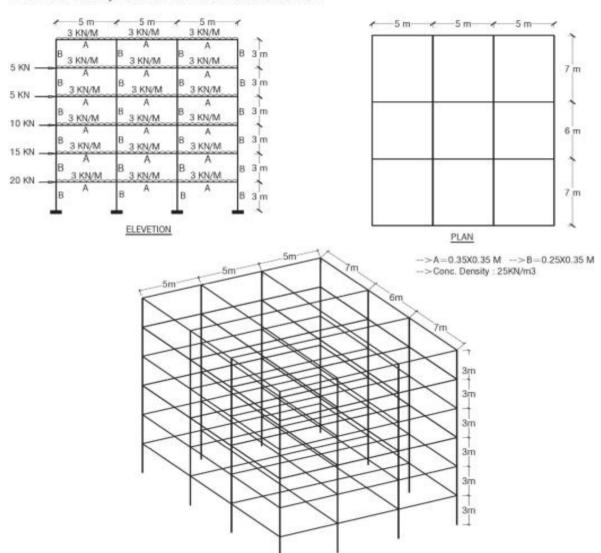
OUTER WALL-0.230 THK WALL INNER WALL - 0.115 THK PARAPET WALL = 0.115 THK WALL 1 M HIGH SLAB THICKNESS -0.150m FLOOR FINISH - 1.5 KN/m2 LIVE FLOOR LOAD- 3 KN/m2



Dr. Mahesh Bundele Poornima College of Engineering
131-0, RIICO 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



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

Director
Poornima College of Engineering
131-0, Fulco Institutional Area
Stapura, JAIPUR

ISOMETRIC VIEW

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Product: STAAD.Pro	Version: CONNECT Edition	
Course Date: November 4, 2023 - December 3, 2023	Learning Units: 45	
Training Partner: Hitesh Lahoti & Associates		
	amittechan	

FEW GLIMPSES OF THE EVENT:





Dr. Mahesh Bundele B.E., M.E., Ph.D. Director Peornima College of Engineering 181-6, PUICO Institutional Area Stlapura, JAIPUR



FEEDBACK:

	FEEDBACK ANALYSIS (2023-24)								
S.No.	o. Attributes Total Feed Back						100		
1	Did the session meet its objectives?	Outstanding	Excellent	Good	Average	Satisfactory	Remark		
		70.21	15.39	8.39	1.00	0.00			
	Did you find the contents useful?	Outstanding	Excellent	Good	Average	Satisfactory	Remark		
2		73.20	19.59	6.19	1.00	0.00			
	Did it help students to enhance their	Outstanding	Excellent	Good	Average	Satisfactory	Remark		
3		71.25	19.29	7.19	1.10 Dr	Mahesh	Bundele M.E., Ph.D. or		

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	skills or learnings?						
	Did you	Outstanding	Excellent	Good	Average	Satisfactory	Remark
	receive						
4	uninterrupted	50.0 0	40.50	c 4.4		0.00	
	Connectivity in case of online	72.20	18.59	6.11	1.11	0.00	
	sessions?						
	sessions.						
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.