



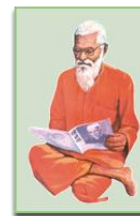
Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagar, Jagatpura, Jaipur-302017, INDIA

Approved by AICTE, Ministry of HRD, Government of India

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ETABS: Building Analysis and Design

Date of the event: 9 Sep to 13 Sep 2024

Workshop Notice

 **Swami Keshvanand Institute of Technology Management & Gramothan**
Department of Civil Engineering

Ref.: SKIT/CE/2024-25/37 Date: 30/08/2024

NOTICE

Subject: Workshop on "ETABS: Building Analysis and Design"


This is to inform all students of the 5th and 7th semesters of the Civil Engineering Department that a workshop on "ETABS: Building Analysis and Design" is being organized from 9th to 13th September, 2024. The workshop aims to equip students with practical skills in building analysis and design using ETABS software: a vital tool in structural engineering.


Details of the Workshop:
Duration: 9th to 13th September, 2024
Time: 12:45 pm to 2:45 pm
Venue: Computer lab, Civil Engineering department-ground floor
Eligibility: 5th and 7th Semester Civil Engineering Students
Number of seats: 25

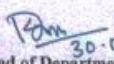
Registration Process:
Registration link: <https://forms.gle/6m9ZgTAFHXsEnNr5>
Last date of registration: 4th September, 2024
Please note that seats are limited and will be allocated on a first-come, first-served basis.

For further details, contact faculty coordinators:
Dr. Sunita Tolani, Assistant Professor, 9910938238
Ankur Mishra, Assistant Professor, 8107579299

****Attendance is mandatory for all registered participants**

 30-08-2024
Dr. Sunita Tolani
Convener
Assistant Professor

 30/8/24
Ankur Mishra
Organizing Secretary
Assistant Professor

 30-08-2024
Head of Department
Department of Civil Engineering
SKIT, Jaipur

Workshop Poster



**Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur**



Department of Civil Engineering

**Organizes
Six Days
Student Workshop
On**

ETABS

**Structural Analysis and Design
9 to 13 September 2024**

Highlights

Basics of Software
Hands-on Training
Minor Project
Expert Talk

Faculty Coordinator

Dr. Sunita Tolani (CE)

Mr. Ankur Mishra (CE)

**For Registration: <https://forms.gle/KJstPhhcHkZEaPrQ6>
Or Scan QR code**

**For more information: Mail us at
sunita.tolani@skit.ac.in or ankur.mishra@skit.ac.in**

Schedule of Workshop

Sr. No.	Date	Topic	Delivered by
1	09/09/24	Software installation, advantages of using ETABS, Geometry generation (assign material, assign properties of members)	Mr. Ankur Mishra
2	10/09/24	Assign dead load and live load on different member of frame. (Using IS 875 part 1 and 2) , Earthquake load static (IS 1893:2016)	Dr. Sunita Tolani
3	11/09/24	Earthquake Dynamic Load (Response spectrum analysis and Time history analysis)	Dr. Sunita Tolani
4	12/09/24	Wind load and its effect on building (IS 875-part 3). Design and detailing of reinforcement (IS 13920)	Ankur Mishra
5	13/09/24	Site Visit of IPD tower SMS Hospital (25 floor steel Structure)	Dr. Sunita Tolani, Ankur Mishra

Detail list of Participants

Sr. No.	Name of Student	RTU Roll no.	Semester	Branch	Affiliation
1	Falguni pareta	21ESKCE022	7th	CE	SKIT
2	Himanshu Tunwal	21ESKCE030	7th	CE	SKIT
3	Jaswant Jangid	21ESKCE035	7th	CE	SKIT
4	Meet Khandelwal	21ESKCE051	7th	CE	SKIT
5	Priyanshu Prajapat	21ESKCE069	7th	CE	SKIT
6	Purva Kumawat	21ESKCE071	7th	CE	SKIT
7	Renu Kumari	21ESKCE077	7th	CE	SKIT
8	Reva Verma	21ESKCE078	7th	CE	SKIT
9	Sheikh Animul Rehman	21ESKCE091	7th	CE	SKIT
10	Simran choudhary	21ESKCE093	7th	CE	SKIT
11	Uday singh sisodia	21ESKCE097	7th	CE	SKIT
12	Urvashi Gautam	21ESKCE098	7th	CE	SKIT
13	Vipul raman	21ESKCE102	7th	CE	SKIT
14	Yogendra	21ESKCE106	7th	CE	SKIT

15	Puneet Dadhich	21ESKCE070	7th	CE	SKIT
16	Pawan Kumar Dhakar	21ESKCE063	7th	CE	SKIT
17	Nikhil Garg	21ESKCE059	7th	CE	SKIT
18	Sarthak Chopra	21ESKCE084	7th	CE	SKIT
19	Anuj Bhatnagar	22ESKCE201	7th	CE	SKIT
20	Avinash Murawatia	22ESKCE020	5th	CE	SKIT
21	Bhavesht Sharma	22ESKCE024	5 th	CE	SKIT
22	Kanika verma	22ESKCE049	5th	CE	SKIT
23	Gourav Galav	22ESKCE035	5th	CE	SKIT
24	Wilson Meel	22ESKCE104	5th	CE	SKIT
25	Nupur Agarwal	22ESKCE067	5th	CE	SKIT
26	Vikas Meena	22ESKCE100	5th	CE	SKIT
27	Sahil kumar	22ESKCE086	5th	CE	SKIT
28	Sumit Kumar Meena	22ESKCE093	5th	CE	SKIT
29	RITESH KUMAR MEENA	22ESKCE081	5th	CE	SKIT
30	Aman Jain	22ESKCE010	5th	CE	SKIT
31	Tushar	23ESKCE207	5th	CE	SKIT
32	Yohesh	22ESKCE107	5th	CE	SKIT

Attendance Record

Swami Keshvanand Institute of Technology, Management & Gramothan

Department of Civil Engineering

STUDENT WORKSHOP

ON

EATBS: BUILDING ANALYSIS AND DESIGN

(9 September to 13 September 2024)

Attendance List

Sr. No.	Name of Student	Roll No.	9 Sep 2024	10 Sep 2024	11 Sep 2024	12 Sep 2024	13 Sep 2024	Remark
1	Falguni pareta	21ESKCE022	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
2	Himanshu Tunwal	21ESKCE030	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
3	Jaswant Jangid	21ESKCE035	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
4	Manik Mehra	21ESKCE049					<i>[Signature]</i>	
5	Meet Khandelwal	21ESKCE051	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
6	Namasya choudhary	21ESKCE055						
7	Priyanshu Prajapat	21ESKCE069	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
8	Purva Kumawat	21ESKCE071	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
9	Renu Kumari	21ESKCE077	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
10	Reva Verma	21ESKCE078	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
11	Sheikh Animul Rehman	21ESKCE091	<i>[Signature]</i>	<i>[Signature]</i>				
12	Simran choudhary	21ESKCE093	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
13	Uday singh sisodia	21ESKCE097		<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
14	Urvashi Gautam	21ESKCE098	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
15	Vipul raman	21ESKCE102	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
16	Yogendra	21ESKCE106	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
17	Yuvraj Sharma	21ESKCE107						
18	Puneet Dadhich	21ESKCE070	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	
19	Pawan Kumar Dhakar	21ESKCE063	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
20	Nikhil Garg	21ESKCE059	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	
21	Yash Mathur	21ESKCE105			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
22	Sarthak Chopra	21ESKCE084			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

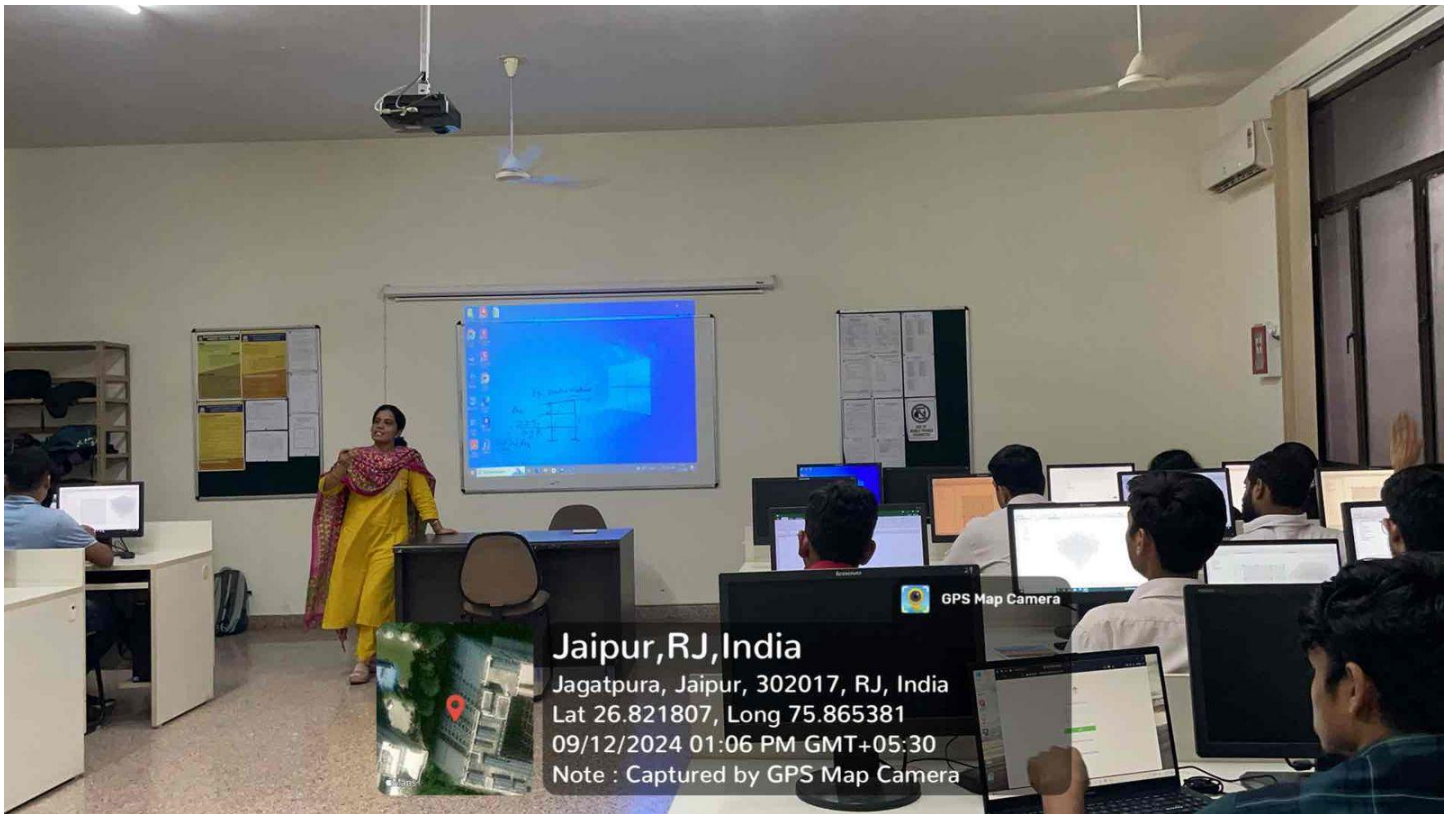
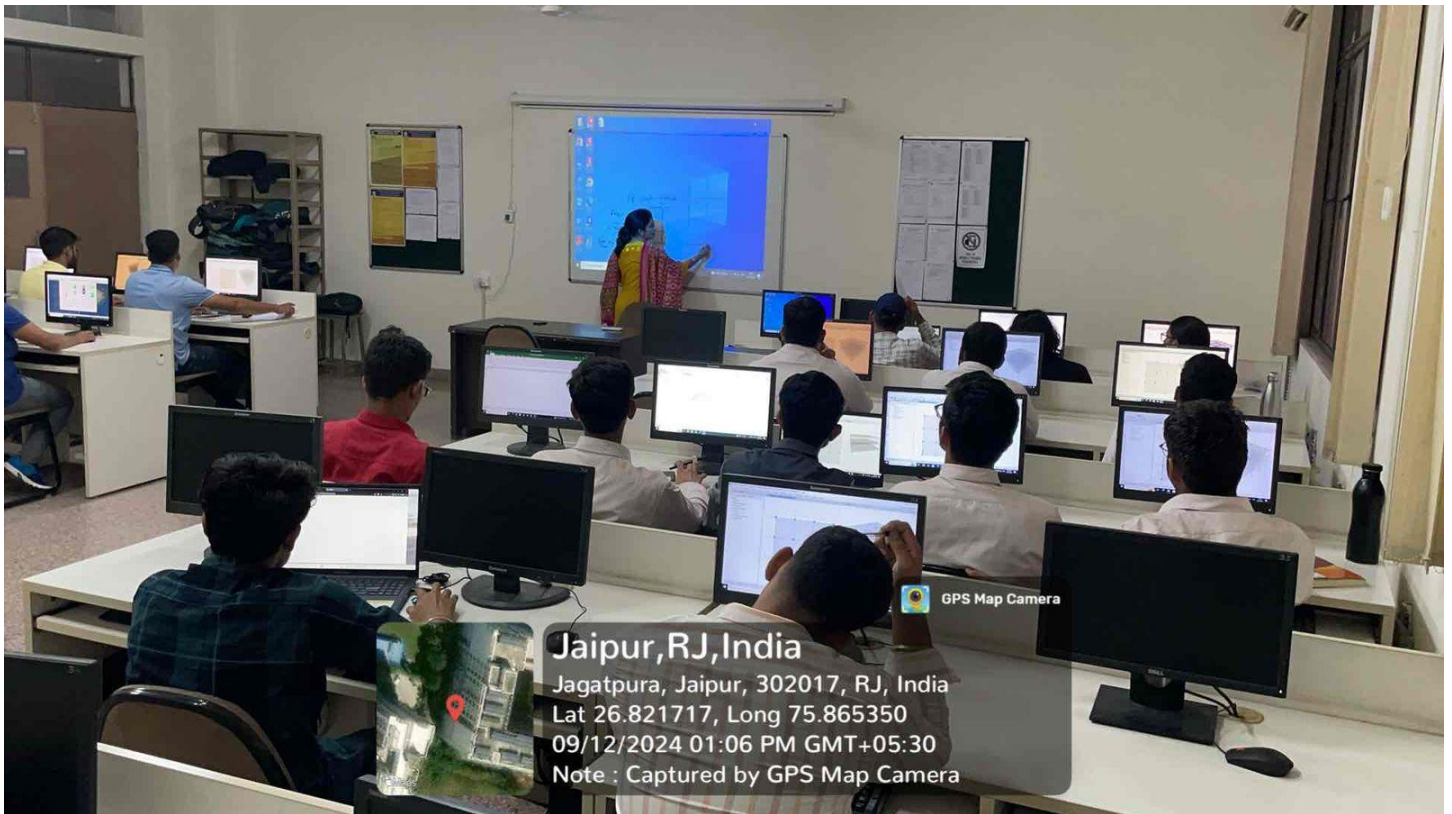
Sr. No.	Name of Student	Roll No.	9 Sep 2024	10 Sep 2024	11 Sep 2024	12 Sep 2024	13 Sep 2024	Remark
23	Anuj Bhatnagar	22ESKCE201	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
24	Avinash Murawatia	22ESKCE020	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
25	Bhavesh Sharma	22ESKCE024	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	More workshop
26	Kanika verma	22ESKCE049	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
27	Gourav Galav	22ESKCE035	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
28	Wilson Meel	22ESKCE104	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Excellent
29	Nupur Agarwal	22ESKCE067	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
30	Vikas Meena	22ESKCE100	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Good
31	Sahil kumar	22ESKCE086	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
32	Sumit Kumar Meena	22ESKCE093	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Excellent
33	RITESH KUMAR MEENA	22ESKCE081		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
34	Manoj Choudhary	22ESKCE061						
35	KANISHKA DHAMMAPRIYA	22ESKCE050						
36	Aman Jain	22ESKCE010	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
37	Tushar Singh Parihar	23ESKCE207	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
38	Yogesh Tilawat	22ESKCE107	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

Dr. Sunita Tolani
Convener
Assistant Professor
Department of Civil Engineering

Photographs

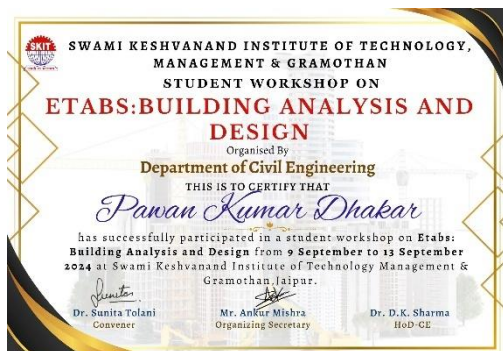
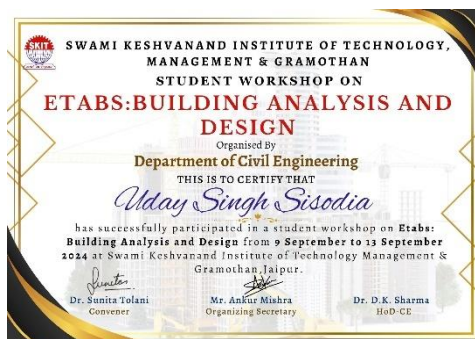


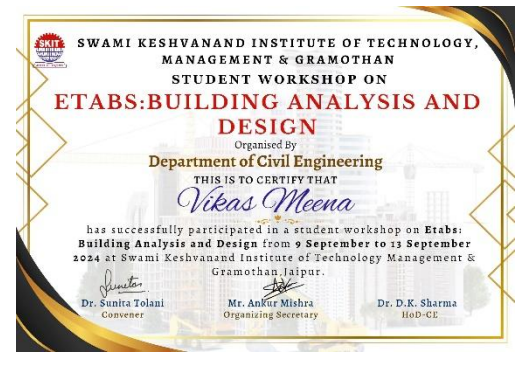




CERTIFICATES







Feedback of students

Email Address	The workshop content was useful. It provided me valuable and practical information.	Hands-on activities were interesting/engaging.	Instructors were knowledgeable about the topic.	Instructors' style of teaching was good.	What did you like BEST about the workshop?	What did you like LEAST about the workshop?	Which software would you like to learn in future workshops?
b200362@skit.ac.in	5	5	5	5	To know about response spectrum method and time history method to analyse the structure	No	Safe and csi detailing
b200959@skit.ac.in	5	5	5	5	Learning about etabs	Nothing	Etabs and primavera p6
b200957@skit.ac.in	5	5	5	5	Hands on Practice and brief Introduction about software	Refreshments were repeating. There should be variety in refreshments	Staad Pro
b200992@skit.ac.in	4	4	5	5	Learning and the faculties	Need to improve the working of cad computers	Related to etab
l210001@skit.ac.in	5	5	5	5	This workshop really amazing	I like how to make model	Staad

					lot's of things learnt during workshop	and apply all cases of loads	
b200965@skit.ac.in	5	5	5	5	Teaching method	Time management	Staad.prp
l210004@skit.ac.in	5	5	5	5	Expert talks	During workshop I learn about how to utilise software knowledge in civil	Revit
b201120@skit.ac.in	5	5	5	5	Good environment	Nothing	Any
b200991@skit.ac.in	5	4	4	5	This session is very informative for me.	All things are good in that workshop.	Staad pro
b221046@skit.ac.in	5	5	5	5	Good	Good	No
b210413@skit.ac.in	5	5	5	5	Everything	Nothing	Primavera
b210988@skit.ac.in	5	5	5	5	Well over all it is a great experience and it is going to help me in my project and I can write one more skill in my resume.	Nothing.	Primavera
b211066@skit.ac.in	5	5	5	5	What we study we can apply on this software	Nothing	Abacus and vray

b210366@skit.ac.in	5	5	5	5	Practical Knowledge	Duration of Workshop it should be more than 5 days.	STAAD Pro
b210483@skit.ac.in	5	5	5	5	Good presentation with teaching faculties.	Number of days should be increased	Slicer
b210794@skit.ac.in	5	4	5	5	The major topics which are covered in the workshop	Time duration	Staad pro
himanshutunwal000@gmail.com	5	5	5	5	Overall good experience	In this workshop there is no least about the workshop	Etabs software and related to civil engineering
b210612@skit.ac.in	5	5	5	5	Practical knowledge	Nothing	Staad Pro
b221251@skit.ac.in	4	4	5	5	Way of delivering the knowledge	Nothing	The app which has max significance in the field of civil engineering
b220797@skit.ac.in	5	5	5	5	applying the theory to practical application by software ,see how structure behave under	time period was less, and some assignment should have	staad pro ,ms excel etc

					different loads	been given	
l220031@skit.ac.in	5	5	5	4	Deep understanding of this software	Easier software	Primavera & MS project
b220253@skit.ac.in	5	5	5	5	Gain knowledge	Time period	Ms excell
b220426@skit.ac.in	4	5	5	5	Last time	First time	Premiere pro
b210671@skit.ac.in	5	5	5	5	Supportive faculty coordinator were there	Duration of workshop (should have been more)	Autocad 3d
b210312@skit.ac.in	5	5	5	5	The way faculties explain the software	Time of workshop should increase	SAP
b221403@skit.ac.in	5	5	5	5	Teaching style of teacher	Less duration of workshop	Staad.pro
b221261@skit.ac.in	5	4	5	4	Hands on practical Application of theory , in real-time , less theory procedure and more engaging practice	Operating system are very very poor , in terrible condition . Need upgrade As soon as possible, because its make learning irritating and efficienc	More of E-tabs and Primavera Software

						y very low	
b210618@skit.ac.in	5	5	5	5	The practical knowledge we gained	Nothing	Revit

जयपुर, शनिवार, 14 सितम्बर 2024 (8)

खबरें-फटाफट...

एसकेआइटी में स्ट्रक्चर डिज़ाइन कार्यशाला का हुआ समापन



जयपुर। (आस-पास ब्यूरो) स्वामी केशवानंद इंस्टिट्यूट ऑफ़ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथान (एसकेआइटी), जगतपुरा में सिविल अभियांत्रिकी विभाग द्वारा ' स्ट्रक्चरल एनालिसिस एंड डिज़ाइन ' विषय पर विद्यार्थियों के लिए पांच दिवसीय कार्यशाला आयोजित की गई। कार्यशाला के अंतर्गत विद्यार्थियों को भूकम्परोधी बिल्डिंग डिज़ाइन के गुर सिखाए गए। कार्यशाला का समापन समारोह शुक्रवार को हुआ। समापन समारोह में सिविल अभियांत्रिकी विभागाध्यक्ष प्रो डी के शर्मा ने सभी का अभिवादन किया। प्रो. बी.एल शर्मा ने विद्यार्थियों का उत्साहवर्धन किया। कार्यशाला के समन्वयक असिस्टेंट प्रोफेसर अंकुर मिश्रा एवं डॉ सुनीता तोलानी ने सभी को धन्यवाद ज्ञापित किया।

Day Wise report

Day 1: 09/09/24

Mr. Ankur Mishra initiated the workshop with a focus on establishing the foundational elements. The day commenced with the installation of relevant software, providing students with the necessary tools for structural analysis. Following this, participants explored the advantages of utilizing ETABS, delving into the software's capabilities. The practical aspect of the day involved hands-on experience with geometry generation, emphasizing the importance of assigning materials and properties to structural elements.

Day 2: 10/09/24

Dr. Sunita Tolani took charge, guiding students through the intricacies of load analysis. The day began with the meticulous process of assigning dead and live loads to various members of a frame, adhering to the standards outlined in IS 875 part 1 and 2. The session then transitioned into a comprehensive exploration of earthquake loads, with a specific focus on static analysis following the guidelines of IS 1893:2016.

Day 3: 11/09/24

Dr. Sunita Tolani continued to deepen the understanding of earthquake dynamics. The day's agenda included an in-depth exploration of Response Spectrum Analysis and Time History Analysis, offering students a profound insight into the dynamic forces that structures may encounter during seismic events.

Day 4: 12/09/24

Ankur Mishra returned to the forefront, shifting the workshop's focus towards environmental factors impacting structural design. Wind loads and their effects on buildings, as per the standards outlined in IS 875-part 3, were meticulously examined. Additionally, the day covered the critical aspect of design and detailing of reinforcement, aligning with the guidelines set by IS 13920.

Day 5: 13/09/24

the day covered the critical aspect of design and detailing of reinforcement, aligning with the guidelines set by IS 13920. And drawing also prepared.

Objectives of Workshop

The "Analysis and Design of RCC Buildings on ETABS" workshop is designed with the following objectives:

1. **Introduction to ETABS Software:** Familiarize participants with ETABS, highlighting its features and applications in RCC building analysis and design.
2. **Software Installation and Configuration:** Provide hands-on experience in installing and configuring ETABS for effective utilization.
3. **Geometry Generation and Material Assignment:** Instruct participants on creating accurate building geometry and assigning materials within the ETABS platform.
4. **Load Analysis:** Train participants in load analysis principles, covering dead loads, live loads, and seismic loads following standards and codes.
5. **Dynamic Analysis Techniques:** Introduce dynamic analysis methods, enhancing understanding of structural behavior under varying conditions.
6. **Wind Load Considerations:** Explore the impact of wind loads on RCC buildings and guide participants in incorporating wind load factors into designs.
7. **Design and Detailing of Reinforcement:** Instruct participants on designing and detailing reinforcement for RCC structures following IS 13920 guidelines.
8. **Site Visit for Practical Exposure:** Provide a practical exposure through a site visit, allowing participants to witness real-world applications of theoretical concepts.
9. **Interdisciplinary Learning:** Foster collaboration by involving experts like Dr. Sunita Tolani and Mr. Ankur Mishra for a holistic educational experience.
10. **Problem-Solving Sessions:** Conduct interactive problem-solving sessions to address participant queries, encouraging active engagement.
11. **Hands-on Design Projects:** Engage participants in hands-on design projects, allowing them to apply acquired skills to solve practical design problems using ETABS.

12. Certificate of Completion: Recognize participants' successful completion with a certificate, acknowledging their skills in RCC building analysis and design using ETABS.

Outcome of workshop

The outcomes of the "Analysis and Design of RCC Buildings on ETABS" workshop include participants acquiring:

1. **Proficiency in ETABS:** Participants gain a solid understanding of ETABS software, from installation to practical application in RCC building analysis and design.
2. **Practical Skills:** Hands-on experience in geometry generation, material assignment, load analysis, and dynamic analysis, providing practical skills applicable in real-world scenarios.
3. **Wind Load Expertise:** Knowledge and expertise in considering and incorporating wind loads according to relevant standards, ensuring buildings are designed to withstand environmental forces.
4. **Reinforcement Design Knowledge:** Understanding of the principles behind designing and detailing reinforcement for RCC structures in adherence to IS 13920 guidelines.
5. **Interdisciplinary Exposure:** Exposure to interdisciplinary learning through interactions with experts like Dr. Sunita Tolani and Mr. Ankur Mishra, enriching participants' perspectives on structural engineering.
6. **Real-World Insight:** Practical exposure through a site visit, allowing participants to witness the application of theoretical concepts in an actual construction setting.
7. **Problem-Solving Competence:** Improved problem-solving skills through interactive sessions, enabling participants to address challenges encountered in RCC building analysis and design.
8. **Project Application:** Application of acquired skills in hands-on design projects, demonstrating participants' ability to solve practical design problems using ETABS.