Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur

A

Report

on

Five-day Student Workshop

"Analysis and Design of RC Buildings and Foundations using Software"

held

on

06th – 10th September 2022

Organized by:

Department of Civil Engineering, SKIT M&G, Jaipur

In collaboration with

Indian Concrete Institute (Student Chapter, SKIT)

Swami Keshvanand Institute of Technology Management & Gramothan
Ramnagaria, Jagatpura, Jaipur-302 017, Rajasthan, India

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Civil Engineering

Date: 20 Aug 2021

Note

Following proposals of online FDP/ workshops are being submitted for your kind approval.

S. No.	Proposed Title	Event Type	Name of Coordinator(s)	Tentative dates	Duration	Budget
1.	Transportation Geotechnics and Materials for Sustainable Infrastructure	FDP	Dr. D K Sharma, Dr. Prachi Kushwaha, Nishant Sachdeva	13-17 Dec, 2021	5 Days	35000/-
2.	Modern Construction Techniques in Infrastructure Development	Student Workshop	Mr. Kishan Lal Jain, Mr. Vikas Vyas, Mr. Ankur Mishra	20-24 Dec, 2021	5 Days	35000/-
3.	Analysis and Design of RC Buildings and Foundations using Softwares	Workshop	Dr. Sunita Tolani, Dr. Bharathi M.	17-21 Jan. 2022	1 Week	Rs. 20,000/-
4.	Ecological and Eco-efficient Construction Practices	FDP	Dr. Abhishek Jain, Pooja Jain	7-11 Feb	5 Days	35000/-

Forwarded to Registrar for Approval.

Principal, SKIT

Approved
27/8/2021

Prof. D.K. Sharma
HoD, CE

Swami Keshvanand Institute of Technology, Management &Gramothan, Jaipur

Department of Civil Engineering

SKIT/CE/2021-22/1049

24-03-2022

To

The Principal

SKIT, Jaipur

Through: Professor and Head, Department of Civil Engineering, SKIT Jaipur

Subject: **Postpone the events to next academic session**

Dear Sir,

The following events were planned for the current academic year 2021 - 22. We were unable to conduct these events as per the revised dates since the target students were engaged in the RTU exams. The current semester being very short we hereby request you to kindly postpone these events to the next academic session for the benefit of the students.

S. No.	Proposed Title	Event Type	Name of Coordinator(s)	Tentative dates	Revised Date	Duration	Budget
1.	Modern Construction Techniques in Infrastructure Development	Student Workshop	Dr. Kishan Lal Jain, Vikas Vyas, Ankur Mishra	20-24 Dec., 2021	7-11 March, 2022	5 Days	35000/-
2.	Analysis and Design of RC Buildings and Foundations using Softwares	Workshop	Dr. Sunita Tolani, Dr. Bharathi M.	17-21 Jan., 2022	15-19 Feb., 2022	5 Days	20,000/-

Thanks & Regards

M. Bharathi

Event Coordinator(s)

Forwarded & recommanded to postpone as proposed.

24.03.22

HOD-CE

May be postponed.
The new dates for these events may be proposed & shared

24.3.22

Swami Keshvanand Institute of Technology, Management &Gramothan, Jaipur

Department of Civil Engineering

29-03-2022

To

The Principal

SKIT, Jaipur

Through: Professor and Head, Department of Civil Engineering, SKIT Jaipur

Subject: **Tentative dates for the events in the next academic session (2022-23)**

Dear Sir,

Please find the tentative dates (next academic session) for the following events.

S. No.	Proposed Title	Event Type	Name of Coordinator(s)	Tentative dates	Duration	Budget
1.	Modern Construction Techniques in Infrastructure Development	Student Workshop	Dr. Kishan Lal Jain, Vikas Vyas, Ankur Mishra	05-09 Sep., 2022	5 Days	35000/-
2.	Analysis and Design of RC Buildings and Foundations using Softwares	Workshop	Dr. Sunita Tolani, Dr. Bharathi M.	26-30 Sep., 2022	5 Days	20,000/-

Thanks & Regards

Will decide in May - June 22

29-03-22

Event Coordinator(s)

Department of Civil Engineering, SKIT, Jaipur

Ref: SKIT/CE/2021-22/1076

Date: 30.06.2022

Sub: Schedule of proposed activities for Session 2022-23

S.No	Types of Event*	Title of Event	Mode of Conduction	Proposed Date	Name of Coordinator	Any Collaboration	Budget Required
1	5 day Student Workshop (hands on training)	Analysis and Design of RC Buildings and Foundations using Software (for final year students)	Offline	6-10 September 2022	Dr. Sunita Tolani and Dr. Bharathi M.	NA	Nil
2	5 day Student Workshop (hands on training)	Development of Special Concrete (Self-Compacting Concrete/Geoplymer) for 3rd year students	Offline	7-11 November, 2022	Dr. Rakesh Choudhary and Dr Abhishek Jain	NA	5000
3	FDP	Modern Construction Techniques & Digitilization in Civil Engineering	Online	12-16 Dec, 2022	Dr KL Jain, Nishant Sachdeva	NA	25000
4	Student Workshop by CoE-TE (for all RTU affiliated college students)	Workshop on Highway Material Testing	Offline	05-09 Dec, 2022	Anirudh Mathur & Nikhil Kumar Sharma	NA	10000
5	Expert Talks (06 Nos)	Expert Talks by Renowned Academicians/Industry Experts	Offline	Sep. 2022 to May 2023	Mr Nishant Sachdeva, Dr Abhishek Jain	NA	25000
6	Student Workshop (Hands on training)	Primavera P6 training	Offline	April 2023	Mr Ankur Mishra	NA	10000
7	Survey camp	Survey camp for 3rd semester students	Field activity	07-18 November 2022	Mr Ankur Mishra & Mr Deepak Sharma	NA	Two buses for 10 days
8	Student Workshop (Hands on training)	Effective learning through Laboratory Investigations in Geotechnical Engineering	Offline	21-25 Feb, 2023	Dr Pooja Gupta & Dr Bharathi M	NA	5000

Prof. D.K. Sharma
Head-Deptt. of CE

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN JAIPUR-302017

DEPARTMENT OF CIVIL ENGINEERING

Ref.: SKIT/CE/22-23/1097 09.08.2022

NOTICE

The student workshop for final year Civil Engineering students on "Analysis and Design of RC Buildings and Foundations Using Software" is scheduled from September 06, 2022 to September 10, 2022.

Dr. Bharathi M.
Event Co-ordinator

Dr. Sunita Tolani
Event Co-ordinator

Prof. D.K. Sharma
HoD

Copy to:

i. Director (Academics)
ii. Principal
iii. Dean
iv. All Faculty Members of CE
v. All Notice Board
vi. NBA/ NAAC File

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN JAIPUR-302017

DEPARTMENT OF CIVIL ENGINEERING

Ref.: SKIT/CE/22-23/1110 06.09.2022

NOTICE

A guest lecture on "Carrier Opportunities for Budding Engineers in Indian Construction Industry" will be organized as a part of the student workshop on "Analysis and Design of RC Buildings and Foundations Using Software".

Speaker: Er. Sandesh Saxena, Sr. Manager, and Head, Department of Project Planning and Control, Desire Energy Solutions Pvt. Ltd.

Date and Time: 09/09/2022 and 1.30 pm

Platform: Google Meet (Link will be shared)

Dr. Bharathi M.	Dr. Sunita Tolani	Prof. D.K. Sharma
Event Co-ordinator	Event Co-ordinator	HoD

Copy to:

i. Director (Academics)
ii. Principal
iii. Dean
iv. All Faculty Members of CE
v. All Notice Board
vi. NBA/ NAAC File

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN JAIPUR-302017

DEPARTMENT OF CIVIL ENGINEERING

Ref.: SKIT/CE/22-23/1109 06/09/2022

NOTICE

We invite you to the valedictory function of student workshop on "Analysis and Design of RC Buildings and Foundations Using Software" on September 12, 2022 (10.30 am onwards) at 1F3.

Dr. Bharathi M.	Dr. Sunita Tolani	Prof. D.K. Sharma
Event Co-ordinator	Event Co-ordinator	HoD

Copy to:

i. Director (Academics)
ii. Principal
iii. Dean
iv. All Faculty Members of CE
v. All Notice Board
vi. NBA/ NAAC File

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Civil Engineering

In collaboration with

Indian Concrete Institute
(Student Chapter, SKIT)

Organizes

Five Day Student Workshop

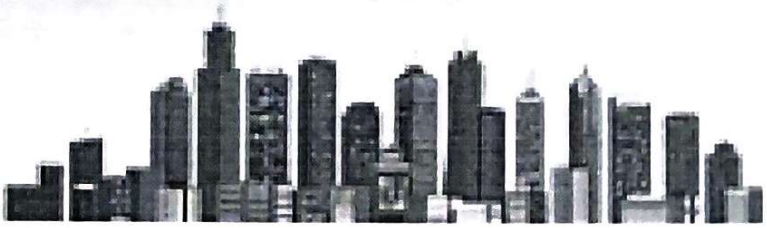
on

Analysis and Design of RC Buildings and Foundations Using Software

September 06-10, 2022

Topics

- Basics of Software
- Hands-on Training
- Minor Project



Faculty Coordinators

Dr. Bharathi M.
Assistant Professor (CE)

Dr. Sunita Tolani
Assistant Professor (CE)

For Registration: https://forms.gle/WiSnUBxVRK7EM97s7
For more information: Mail us to bharathi.m@skit.ac.in or sunita.tolani@skit.ac.in
Student Co-ordinators: Jenisha Devnani (7734800925) and Sonal Meena (9461317210)

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN JAIPUR-302017

DEPARTMENT OF CIVIL ENGINEERING

5 – Day Student Workshop on

Analysis and Design of RC Buildings and Foundations using Software

In collaboration with ICI

Tentative Schedule

September 06, 2022	
1.30 to 3.30 pm	Introduction to ETABS interface and various toolbars.
September 07, 2022	
1.30 to 3.30 pm	Modelling a multi-storey RC Building in ETABS and analysing.
September 08, 2022	
1.30 to 3.30 pm	Interpretation of results and report generation.
September 09, 2022	
1.30 to 3.30 pm	Guest lecture on "Carrier Opportunities for Budding Engineers in Indian Construction Industry" by Er. Sandesh Saxena.
September 10, 2022	
1.30 to 3.30 pm	Importing reactions from ETABS for design of raft foundation and modelling isolated footing in SAFE.
September 12, 2022	
10.30 to 11.00 am	Valedictory Program

Event Coordinators

List of Participants			
S. No.	Roll No.	Student name	Contact No.
1	19ESKCE014	Amit Kumar Sonwal	8302750240
2	19ESKCE016	Anand Kumar	9122804353
3	19ESKCE017	Ankit Mina	7357775666
4	19ESKCE022	Arvind Kumawat	9782513882
5	19ESKCE029	Banwari Lal Meena	9799797477
6	19ESKCE032	Deepak Meena	7073719312
7	19ESKCE033	Dipak Kumar	8824768940
8	19ESKCE040	Himanshu Agarwal	9602534941
9	19ESKCE043	Hitesh Kumar Meena	8875990933
10	19ESKCE049	Jatin Vedwal	9351139967
11	19ESKCE051	Jayant Kumar	8302072726
12	19ESKCE052	Jenisha Devnani	7734800925
13	19ESKCE053	Kahkashan Khanam	7737037867
14	19ESKCE055	Kanishka	9530289979
15	19ESKCE057	Kartikay Singhal	9667484757
16	19ESKCE058	Kavya Kulshrestha	8946954465
17	19ESKCE060	Kumkum Maurya	9414769808
18	19ESKCE061	Lalit Kumar Suwalka	7412831174
19	19ESKCE062	Lokesh Mali	8290076585
20	19ESKCE064	Mahendra Meena	9610649026
21	19ESKCE069	Mehul Agarwal	8218587406
22	19ESKCE073	Mukul Mangal	8824196882
23	19ESKCE080	Pooja Kumari Meena	9461305376
24	19ESKCE082	Pravesh Sehra	7976985944
25	19ESKCE094	Reddy Sai Praveen Reddy	9351406758
26	19ESKCE095	Ritesh Kumar Maurya	9140189096
27	19ESKCE102	Samyak Jain	9461521205
28	19ESKCE111	Sonal Meena	8209805189
29	19ESKCE114	Sumit Dangda	8769124390
30	19ESKCE129	Youvan Jain	7742149493
31	19ESKCE302	Shouryaraj Singh	9636160336
32	20ESKCE202	Ashish Verma	9829474302
33	20ESKCE203	Chitransh Srivastava	8278631943
34	20ESKCE204	Mukul Saini	7742377824
35	20ESKCE206	Priyanka Sharma	8302438173
36	20ESKCE213	Yash Sarswat	7339990332

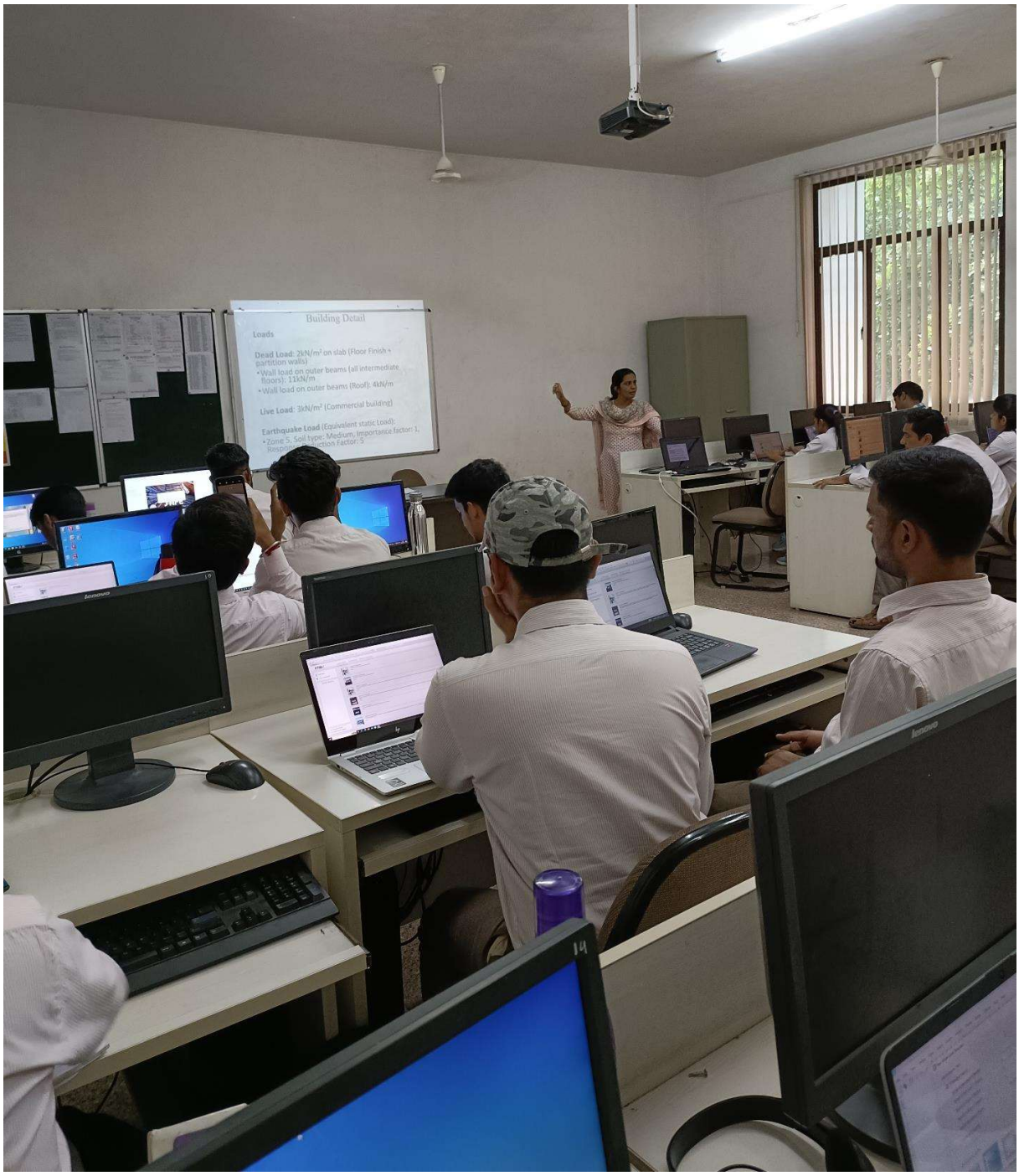
SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN
Department of Civil Engineering

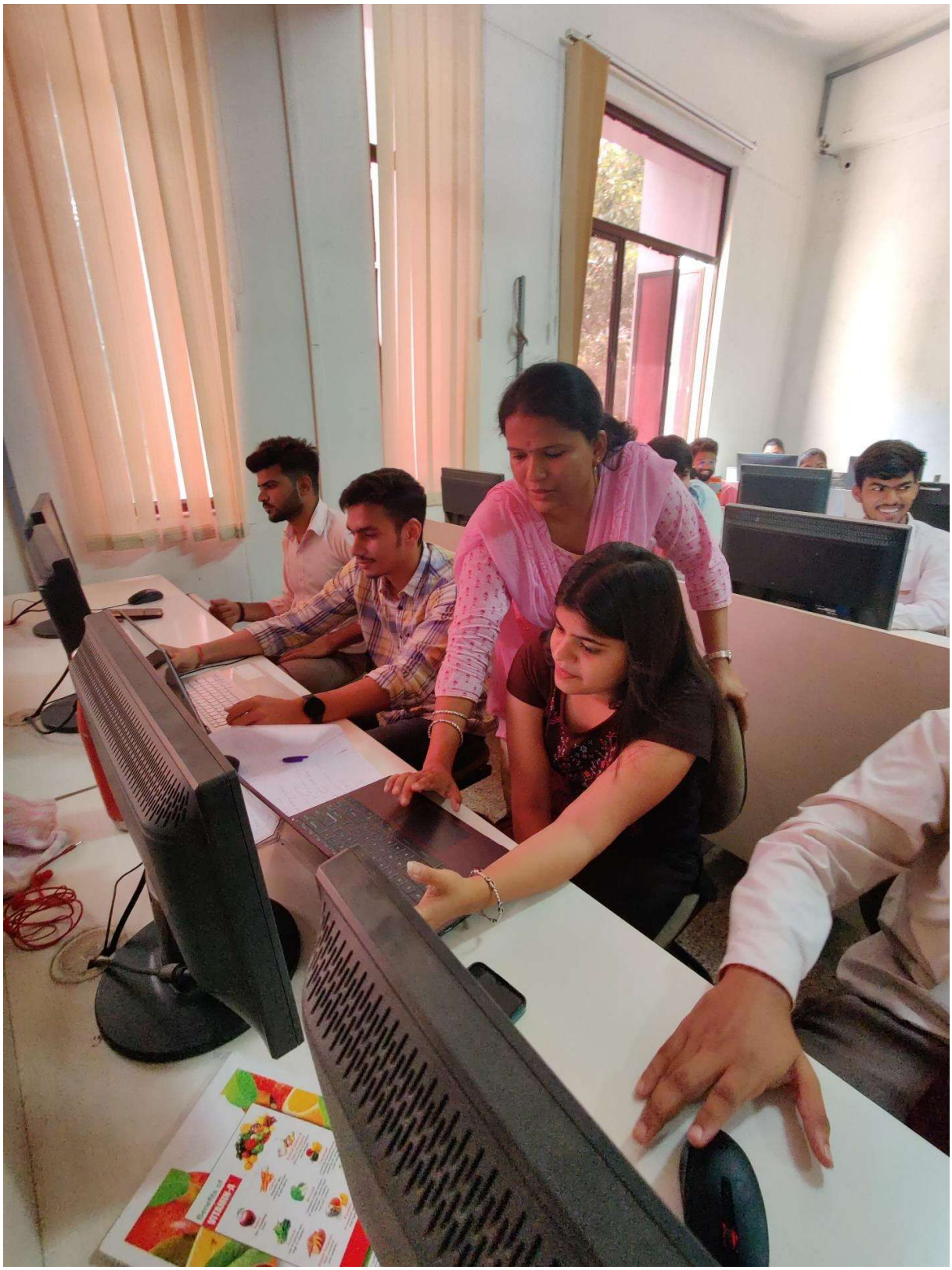
Attendance of Student Workshop on "Analysis and Design of RC Buildings and Foundations using Software"

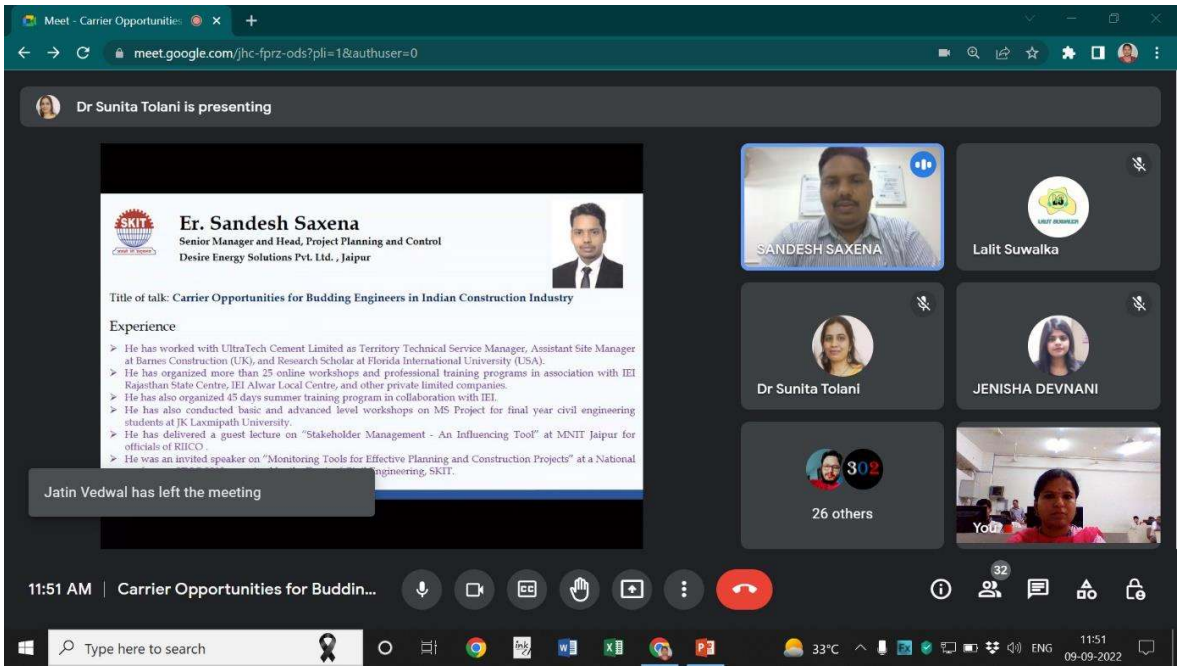
S. No.	Name of Student	RTU Roll no.	06-09-2022	07-09-2022	08-09-2022	09-09-2022	10-09-2022
1	Amit Kumar Sonwal	19ESKCE014	P	A			
2	Anand Kumar	19ESKCE016	P				
3	Ankit Mina	19ESKCE017	P				
4	Arvind Kumawat	19ESKCE022	P				A
5	Banwari Lal Meena	19ESKCE029	P				
6	Deepak Meena	19ESKCE032	P				
7	Dipak Kumar	19ESKCE033	P				
8	Himanshu Agarwal	19ESKCE040	P				
9	Hitesh Meena	19ESKCE043	P			A	
10	Jayant Kumar	19ESKCE051	P				
11	Jenisha Devnani	19ESKCE052	P				
12	Kahkashan Khanam	19ESKCE053	P				
13	Kanishka	19ESKCE055	P				
14	Kartikay Singhal	19ESKCE057	P				
15	Kavya Kulshrestha	19ESKCE058	P				A
16	Kumkum Maurya	19ESKCE060	P				
17	Lalit Kumar Suwalka	19ESKCE061	P				
18	Mahendra Meena	19ESKCE064	P				A
19	Mehul Agarwal	19ESKCE069	P		A		A
20	Mukul Mangal	19ESKCE073	P		A		A
21	Pooja Kumari Meena	19ESKCE080	P			A	

S. No.	Name of Student	RTU Roll no.	06-09-2022	07-09-2022	09-09-2022	10-09-2022	12-09-2022
22	Pravesh Sehra	19ESKCE082	P	A			
23	Sai Praveen Reddy	19ESKCE094	P				
24	Ritesh Kumar Maurya	19ESKCE095	P				
25	Samyak Jain	19ESKCE102	P				A
26	Sonal Meena	19ESKCE111	P		A		
27	Sumit Dangda	19ESKCE114	P				A
28	Youvan Jain	19ESKCE129	P				
29	Ashish Verma	20 ESKCE202	P		A		
30	Chitransh Srivastava	20ESKCE203	P				
31	Mukul Saini	20ESKCE204	P				
32	Priyanka Sharma	20ESKCE206	P		A		
33	Yash Sarswat	20ESKCE213	P				
34	Shouryaraj Singh	19ESKCE302	P				
35	Lokesh Mali	19ESKLE062	A				
36	Jatin Vedwal	19ESKCE049	A				
37	Harsh Vardhan Rawat	19ESKCE039	A		A	A	A

Photographs/ Screen shots of the Event






Meet - Carrier Opportunities
meet.google.com/jhc-fprz-ods?pli=1&authuser=0
Dr Sunita Tolani is presenting
Er. Sandesh Saxena
Senior Manager and Head, Project Planning and Control
Desire Energy Solutions Pvt. Ltd. , Jaipur
Title of talk: Carrier Opportunities for Budding Engineers in Indian Construction Industry
Experience
He has worked with UltraTech Cement Limited as Territory Technical Service Manager, Assistant Site Manager at Barnes Construction (UK), and Research Scholar at Florida International University (USA).
He has organized more than 25 online workshops and professional training programs in association with IEI Rajasthan State Centre, IEI Alwar Local Centre, and other private limited companies.
He has also organized 45 days summer training program in collaboration with IEI.
He has also conducted basic and advanced level workshops on MS Project for final year civil engineering students at JK Laxmipath University.
He has delivered a guest lecture on "Stakeholder Management - An Influencing Tool" at MNIT Jaipur for officials of RIICO.
He was an invited speaker on "Monitoring Tools for Effective Planning and Construction Projects" at a National
ngineering, SKIT.
Jatin Vedwal has left the meeting
SANDESH SAXENA
Lalit Suwalka
Dr Sunita Tolani
JENISHA DEVNANI
26 others
You
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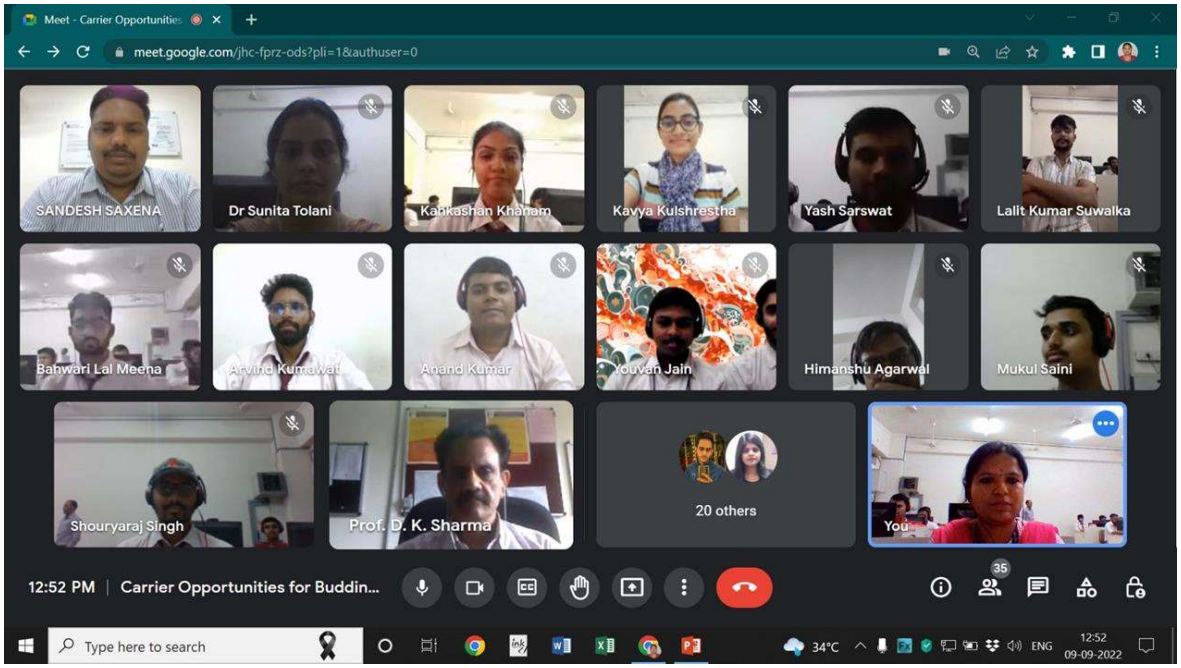
09-09-2022


Meet - Carrier Opportunities
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SANDESH SAXENA
Dr Sunita Tolani
Kakkashan Khanam
Kavya Kulshrestha
Yash Sarswat
Lalit Kumar Suwalka
Bahwari Lal Meena
Arvind Kumawat
Anand Kumar
Himanshu Agarwal
Mukul Saini
Shouryaraj Singh
Prof. D. K. Sharma
20 others
You
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09-09-2022

Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur
Department of Civil Engineering
In collaboration with
Indian Concrete Institute (Student Chapter, SKIT)
Valedictory Function
5 Day Student Workshop
on
Analysis and Design of RC Buildings and Foundations Using Software
Faculty Coordinators
Dr. Bharathi M.
Assistant Professor (CE)
Dr. Sunita Tolani
Assistant Professor (CE)

Sample Certificate

5 – Day Student Workshop on

Analysis and Design of RC Buildings and Foundations using Software

Organised by

Department of Civil Engineering

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

In collaboration with

Indian Concrete Institute (ICI)

Certificate

This is to certify that ___*Mr. Amit Kumar Sonwal (19ESKCE014)*___ *has participated in 5 - Day Student Workshop on "Analysis and Design of RC Buildings and Foundations using Software" held from 06/09/2022 to 10/09/2022 at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur.*

Dr. D. K. Sharma	Dr. Bharathi M.	Dr. Sunita Tolani
HoD – CE	Coordinator	Coordinator
(SKIT, Jaipur)	(SKIT, Jaipur)	(SKIT, Jaipur)

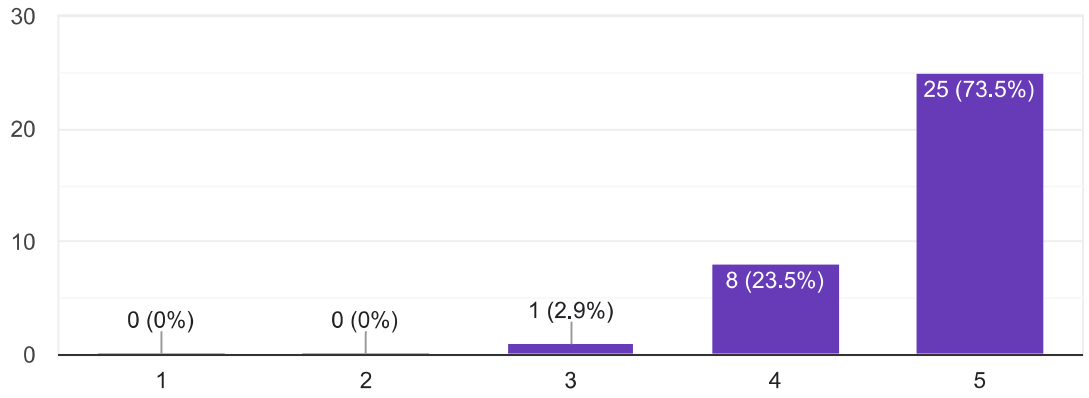
Student Workshop Feedback Form

34 responses

The workshop content was useful. It provided me valuable and practical information.

Copy

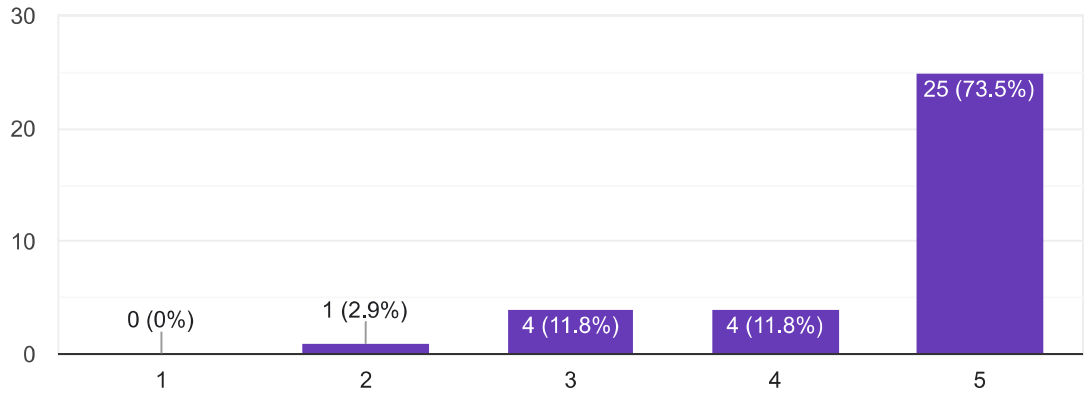
34 responses



Hands-on activities were interesting/ engaging.

Copy

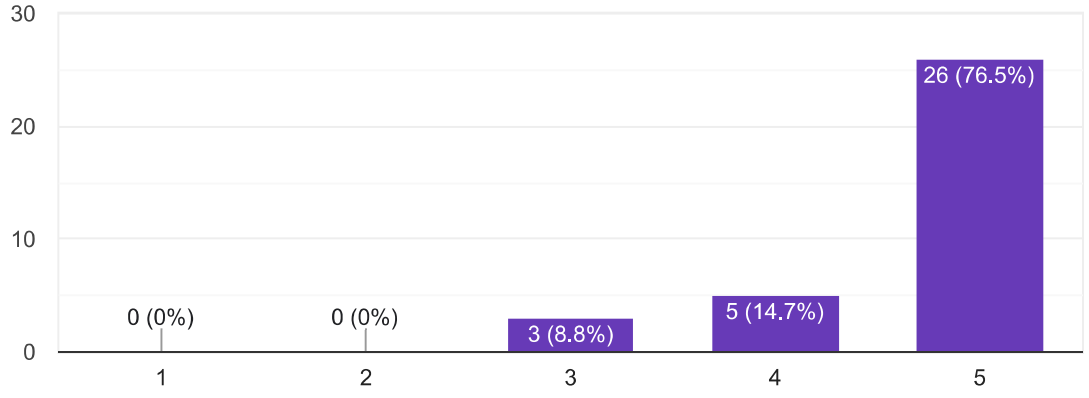
34 responses



Instructors were knowledgeable about the topic.

Copy

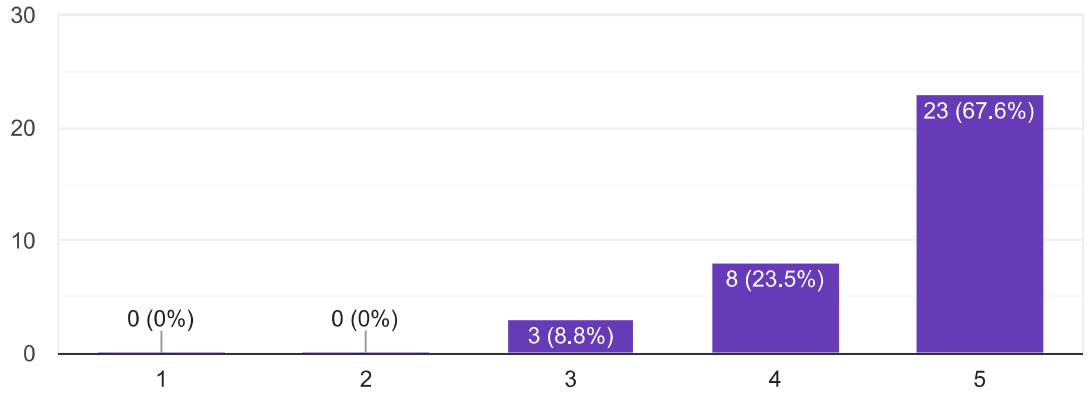
34 responses



Instructors' style of teaching was good.

Copy

34 responses



What did you like BEST about the workshop?

34 responses

- Handling of workshop.
- In class workshop is amazing
- Excellent workshop
- ETABS sessions
- Learning Etab software only
- Good workshop
- A
- Proper explaination
- Etabs
- Workshop has been knowledgeable
- Good
- It was very knowledgeable
- Etab software
- Software
- Content
- Personal attention being paid by mentors to all the queries. Thank you ma'am.
- Teaching style
- Knowledge of teaching
- Learning software
- 1.Allows user for Graphic input and modification for the sake of easy and quick model creation for any type of structure.
  2.Creation of 3D model with the utilization of plan views and elevations, 3D model of any kind of complex structure can be created easily.
- ETABS

It's quite wonderful to learn about the interface of the software like etabs. Sunita mam was brilliant at delivering the content.

Explanation and problem resolving

Teachers were very cooperative and helped each and every student where they had issues

They way of explaining about software e tab

Hands on training with proper explanations.

Instructor's way of teaching and explanation

Etab software

My overall experience was very good but the best part was learning right beside my mentor.

Mam gave quite descent time to run the program

The sessions were really interactive.

It was quiet informative

The whole workshop was interesting and it was very fun learning ETabs

Faculty Support

What did you like LEAST about the workshop?

34 responses

Nothing

Nothing

.

Duration of workshop.

Nil

Yes sure

SAFE sessions, lost progress and couldn't keep up.

Safe software

B

visibility

Safe

Lab projector was not upto the mark

Non pratical

Explaining process

I wasn't able to rectify the issue with installation of ETABS in my system.

Nothing least

Learn

Sometimes acts are gone through very quickly

The only lack of proper process was there which needs to be given to the students. Because After session all things will be mixed up and there is not any meaning of that workshop.

Duration of workshop was less

Visibility of projector screen was not clear which made us lacked in understanding what was being done in one go.

Explaining of sap

Duration of the workshop could have been more.

Projector display not clearly visible

A 5 day workshop was efficient but it could have been even better if the time was extended followed with more practice sessions.

The projector visibility was not upto the mark

Time was very limited.

Less number of hours

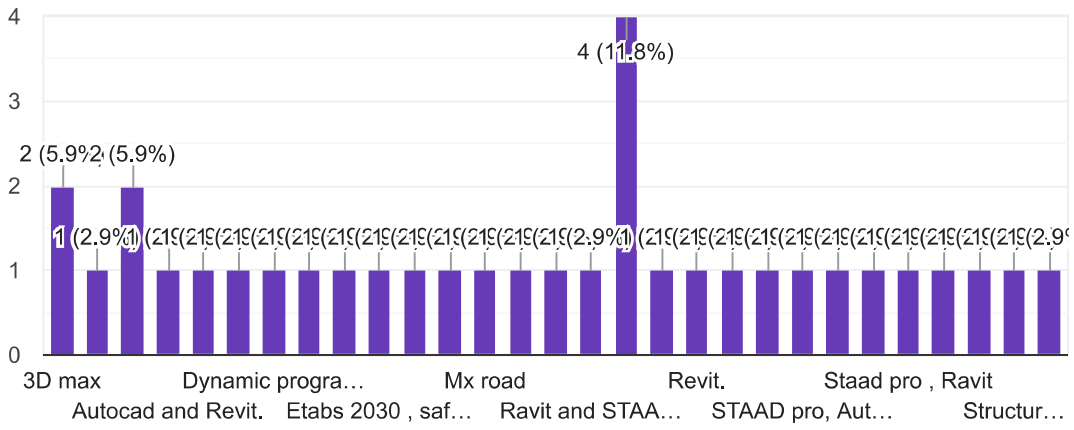
The 5 day time period was short and more practice session could have held.

Should increase duration

Which software would you like to learn in future workshops?

Copy

34 responses



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Media Coverage

एसकेआईटी मे सिविल इंजीनियरिंग विभाग ने छात्र कार्यशाला का समापन किया

P3 Police Publice Politics

जयपुर ! सिविल इंजीनियरिंग विभाग, स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथन (एसकेआईटी) द्वारा इंडियन कंक्रीट इंस्टीट्यूट (स्टूडेंट चैप्टर) के सहयोग से आयोजित ÷एनालिसिस एंड डिजाइन ऑफ आर.सी. बिल्डिंग्स एंड फाउंडेशन यूजिंग सॉफ्टवेयर÷ पर पांच दिवसीय छात्र कार्यशाला का समापन समारोह 12 सितंबर, 2022 को आयोजित किया गया था। कार्यशाला 06 सितंबर, 2022 को शुरू हुई और 10 सितंबर, 2022 को समाप्त हुई। कार्यशाला विशेष रूप से सिविल इंजीनियरिंग के अंतिम वर्ष के छात्रों के लिए आयोजित की गई थी। कार्यशाला के दौरान, छात्रों को सॉफ्टवेयर श्वञ्जक्र और स्त्रश्व का प्रशिक्षण दिया गया, जहां छात्रों ने आरसी भवनों और नींव का मॉडल, एनालिसिस और डिजाइन करना सीखा। कार्यशाला के समन्वयक सुश्री सोनल मीणा और सुश्री जेनिशा देवनानी ने समापन कार्यक्रम में पांच दिवसीय कार्यशाला से सीखों का सारांश दिया। प्रो. डी.के. शर्मा, एचओडी, सिविल इंजीनियरिंग विभाग, एसकेआईटी ने अपने विचार साझा किए कि इस तरह की कार्यशालाएं छात्रों के करियर में कैसे मददगार हो सकती हैं। प्रो. बी.एल. शर्मा ने कार्यशाला को सफलतापूर्वक पूरा करने के लिए सभी प्रतिभागियों को बधाई दी। समन्वयक डॉ सुनीता तोलानी और डॉ भारती एम ने सभी प्रतिभागियों से कार्यशाला की प्रतिक्रिया एकत्र की।

जयपुर/आसपास

खबरों की दुनिया

एक नजर

सिविल इंजीनियरिंग विभाग ने छात्र कार्यशाला का समापन किया

खबरों की दुनिया

जयपुर। सिविल इंजीनियरिंग विभाग, स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथन (एसकेआईटी) द्वारा इंडियन कंक्रीट इंस्टीट्यूट (स्टूडेंट चैप्टर) के सहयोग से आयोजित 'एनालिसिस एंड डिजाइन ऑफ आर.सी. बिल्डिंग्स एंड फाउंडेशन यूजिंग सॉफ्टवेयर' पर पांच दिवसीय छात्र कार्यशाला का समापन समारोह 12 सितंबर को हुआ। कार्यशाला विशेष रूप से सिविल इंजीनियरिंग के अंतिम वर्ष के छात्रों के लिए आयोजित की गई थी। कार्यशाला के दौरान, छात्रों को सॉफ्टवेयर और सेफ का प्रशिक्षण दिया गया, जहां छात्रों ने आरसी भवनों और नींव का मॉडल, एनालिसिस और डिजाइन करना सीखा। कार्यशाला के समन्वयक सोनल मीणा और जेनिशा देवनानी ने समापन कार्यक्रम में पांच दिवसीय कार्यशाला से सीखों का सारांश दिया। प्रो. डी.के. शर्मा, एचओडी, सिविल इंजीनियरिंग विभाग, एसकेआईटी ने अपने विचार साझा किए कि इस तरह की कार्यशालाएं छात्रों के करियर में कैसे मददगार हो सकती हैं। प्रो. बी.एल. शर्मा ने कार्यशाला को सफलतापूर्वक पूरा करने के लिए सभी प्रतिभागियों को बधाई दी। समन्वयक डॉ सुनीता तोलानी और डॉ भारती एम ने सभी प्रतिभागियों से कार्यशाला की प्रतिक्रिया एकत्र की।

स्टूडेंट्स को सिखाए बिल्डिंग डिजाइन के गुर

बेधड़क | जयपुर

सिविल इंजीनियरिंग विभाग, स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी और मैनेजमेंट एंड ग्रामोथान (एसकेआईटी) द्वारा इंडियन कंक्रीट इंस्टीट्यूट (स्टूडेंट चैप्टर) के सहयोग से एनालिसिस एंड डिजाइन ऑफ आर.सी. बिल्डिंग्स एंड फाउंडेशन यूजिंग सॉफ्टवेयर विषय पर पांच दिवसीय छात्र कार्यशाला का समापन किया गया। कार्यशाला विशेष रूप से सिविल इंजीनियरिंग के अंतिम वर्ष के छात्रों के लिए आयोजित की गई थी।

इस कार्यशाला में स्टूडेंट्स को सॉफ्टवेयर ईटीएबीएस और एसएएफई का प्रशिक्षण दिया गया, इसमें स्टूडेंट्स ने आरसी भवनों और नींव का मॉडल, एनालिसिस और डिजाइन करना सीखा। कार्यशाला के अंतिम दिन एसकेआईटी के सिविल इंजीनियरिंग विभाग के प्रमुख प्रो. डी.के. शर्मा ने अपने विचार साझा किए। उन्होंने कहा कि इस तरह की कार्यशालाएं उनके के कॅरियर में कैसे मददगार हो सकती हैं। प्रो. बी.एल. शर्मा ने कार्यशाला में प्रतिभागी बनने और इसे सफलतापूर्वक पूरा करने के लिए सभी प्रतिभागियों को बधाई दी। समन्वयक डॉ सुनीता तोलानी और डॉ. भारती एम ने सभी प्रतिभागियों से कार्यशाला की प्रतिक्रिया की जानकारी ली। कार्यक्रम समन्वयक सोनल मीणा और जेनिशा देवनानी ने कार्यशाला के समापन अवसर पर स्टूडेंट्स को कार्यशाला में मिले अनुभवों और सीख को अपने विद्यार्थी जीवन में उतारने का मैसेज दिया।

Technical Report

A 5-days student workshop on "**Analysis and Design of RC Buildings and Foundations using Software**" has been organized by the Department of Civil Engineering, SKIT M&G, Jaipur in collaboration with Indian Concrete Institute (ICI) from 6th to 10th September 2022. In the inaugural session, Dr. Bharathi M. welcomed participants and explained the importance of software in structural designing. Dr. Sunita Tolani briefed the participants about the workshop and gave an overview of the schedule of the workshop.

On Day 1, Dr. Sunita Tolani gave an introduction of the ETABS software interface. She discussed the sample building, which was supposed to be modeled on the software and shared details of the same, which included plan, elevation, support, and loading conditions.

The 2nd Day began with the execution of modeling of the sample building, which included defining material properties and section sizes and assigning loads to the building. The several loads constituted dead load, live load, and earthquake load, which were calculated by following the Indian Standards. Finally, the analysis was performed which was followed by the designing of the building as per IS 456:2000.

On Day 3, students learned about the interpretation of results, in which they checked the maximum storey drift, base shear, beam-column capacity ratio of the building and compared these results with the permissible limits. In addition, it was checked whether all the members have passed the design check or not. Finally, the report of the project was generated with the help of a report generation tool in the software.

On Day 4, a Guest lecture on "Carrier Opportunities for Budding Engineers in Indian Construction Industry" was conducted by Er. Sandesh Saxena (Sr Manager and HOD, Project Planning and Control, Desire Energy Solutions Pvt Ltd., Jaipur). He briefed students about the different career opportunities after completing graduation in civil engineering and guided them to improve their technical and communication skills.

The 5th Day started with the introduction of SAFE software. Dr. Bharathi M. explained the SAFE software interface. Students learned to import reactions of building model from ETABS software and design raft foundation. In addition, students learned about the analysis and design of isolated footing.

The valedictory function was held on September 12, 2022. Ms. Sonal Meena and Ms. Jenisha Devnani, student co-ordinators of the workshop summarized the learnings from the five-day workshop in the valedictory programme to all the final year students of B.Tech. Civil Engineering. Prof. D.K. Sharma, HoD, Civil Engineering Department, SKIT shared his views on how this kind of workshops can be helpful for students in their career. Prof. B.L. Sharma congratulated all the participants for successfully completing the workshop. Co-ordinators Dr. Sunita Tolani and Dr. Bharathi M. collected the feedback of the workshop from all the participants.

The workshop was of great benefit to the participants as they are enlightened about the widely used software tools that are used to design buildings and foundations. It will help them to meet the industry demand and improve their employability skills.

Objective and Outcome of the Expert Talk

Objectives

- To make students understand the interface of design software.
- To create awareness among students about analysis and design procedures using software.
- To provide hands on experience on software used in civil engineering industry.
- To create awareness among students about various career opportunities in Indian construction industry.

Outcomes

- The participants of the workshop will be able to create building models and perform analysis and design.
- The participants will be able to create, analyse and design foundation models.
- Students will be aware about the needs of industry after graduation.

Relevance to PO's and PSO's

S. No.	Name of Activity	Resource Person	Related Pos and PSOs
1.	**"Analysis and Design of RC Buildings and Foundations Using Software"**	Dr. Sunita Tolani and Dr. Bharathi M	PO (3.1.1, 3.1.4, 3.1.6, 3.2.1, 3.2.2, 5.1.1, 5.1.2, 5.2.1, 5.2.2, 5.3.2, 6.1.1, 6.2.1, 12.1.1, 12.2.1, 12.2.2), PSO (1.1.1, 1.1.2, 1.1.3, 2.1.1, 2.1.2)
2.	**A guest lecture on "Carrier Opportunities for Budding Engineers in Indian Construction Industry"**	Er. Sandesh Saxena, Sr. Manager, and Head, Department of Project Planning and Control, Desire Energy Solutions Pvt. Ltd.	PO (6.1.1, 6.2.1), PSO (2.1.1, 2.1.2)