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*Shaping Lives...
Empowering Communities...*

Workshop on

ETABS - High-rise Building Design

Date: 16th to 17th September, 2022

Organized by

Department of Civil Engineering, CUTM, Paralakhemundi

Resource person (s):

Prof. B. Bikram Narayan

Asst. Professor, Civil Engineering Department,
SoET, CUTM, Paralakhemundi

Prof. B. Bikram Narayan is currently working as Asst. professor in the department of Civil Engineering. He has completed his masters in Structural Engineering. His expertise includes Structural modelling and design various Civil as well as industrial structures.

No. of participants: 50

About the Workshop

Civil Engineers use ETAB software for multi-storied building analysis and structural design. Load application based on various codes, modeling tools, and templates, various analysis systems, and solution strategies is simple with this program. Everything can manage with the grid-like geometry unique to this type of structure. In this regard the Civil Engineering Department of CUTM, Paralakhemundi, Odisha has organized a two days' workshop on "**ETABS - High-rise Building Design**" on 16th to 17th September 2022. This workshop organized to provide a hands-on-practice on the use of ETABS software in High-rise Building design. Prof. B. Bikram was the resource person from the department to deliver the lecture and to give the practical exposure on the software. All B. Tech Civil Engineering students of SoET, CUTM, PKD campus attended the 2-days sessions. The workshop was conducted successfully as per the agenda given below.

Agenda of the Workshop

Day 01 – Students were introduced to the software and they were asked to install the software in their laptops. After the installation process is over, they were introduced to the toolbars and also to various parts as well as structural elements of the building. Students were asked to refer a plan from AutoCAD to make a grid of the building so that it will look like a frame structure. After that students were trained to define the IS codes, materials, i.e., Concrete and Steel, Section Properties, i.e., Beams, Columns and Slabs. After that students were introduced to Shear Wall, which are being provided in High rise buildings.

Day 02 – Students were trained to do the modelling of the structure by using the toolbars, materials and sections which they learned in previous session. After completion of the modelling of the structure, they are trained to define various loads, i.e., Dead loads, Live load, Earthquake load and wind load by using IS codes. After defining the entire load in the software, students applied the combination of loads into the structure and then analyse it by using ETABS. Then the final step was to design the structure by the inbuilt program in the software and to download the output reports from ETABS.

Objectives of the Workshop

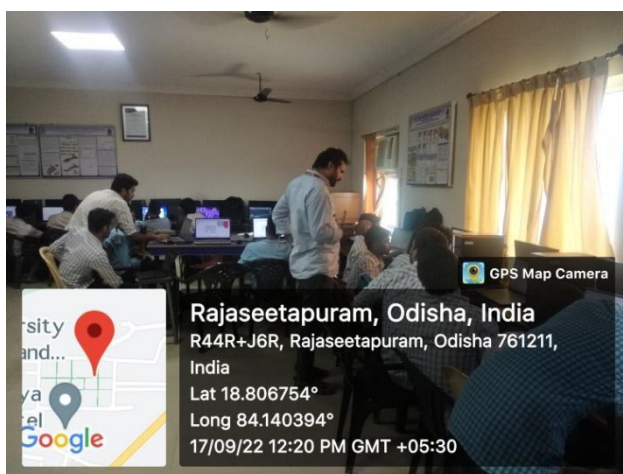
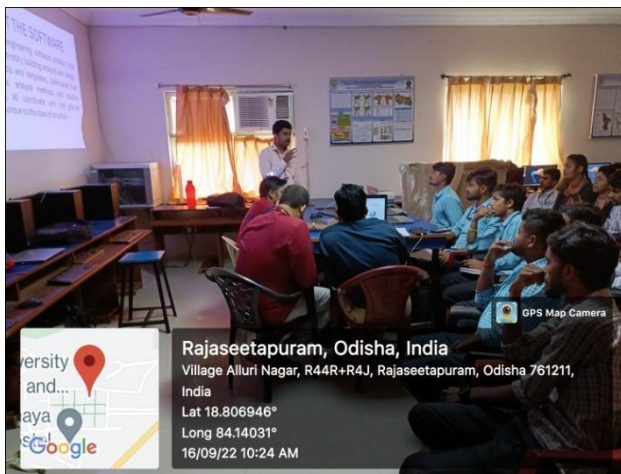
- To make the students user-friendly with the interface of the ETAB software.
- To train the students with respect to modelling and structural design of high-rise Building.
- To train the students with respect to design of various steel structures.
- To make the students aware of the different job possibilities in ETAB structural design.

Outcomes of the Workshop

After attending the workshop, the students will be

- Proficient in the ETABS tool and able to perform different structural design and analysis case studies/projects.
- Able to complete the ETABS interface, how to perform different types of analysis, post-process the results, and prepare reports.
- Able to design Steel Frame, Concrete Frame, Composite Beam, Composite Column, Steel Joist, Shear Wall, and Steel Connection.
- Able to perform different types of analyses like Static Structural, Dynamics, P-Delta, Buckling, and Pushover.

Geotagged Photographs of the workshop



Students attending training program

List of participants

1	190101110001	B. PURANDHAR REDDY	P	P	P	P
2	190101110002	SWASTIK K GOUDA	P	P	P	P
3	190101110003	BISWAJIT SINGH	P	P	P	P
4	190101110011	ARVIND KUMAR	P	P	P	P
5	190101110012	CHITRANJAN KUMAR	P	P	P	P
6	190101110016	KANHAIYA KUMAR	P	P	P	P
7	190101110019	NITESH KUMAR PATEL	P	P	P	P
8	190101110018	PRADIP K SHARMA	P	P	P	P
9	190101110020	ANIL KUMAR	P	P	P	P
10	190101110024	ALOK KUMAR	P	P	P	P
11	190101110023	KUNDAN KUMAR	P	P	P	P
12	190101110022	ROHIT MALLICK	P	P	P	P
13	190101110030	ARUN KUMAR	P	P	P	P
14	190101110032	GAUTAM KUMAR	P	P	P	P
15	190101110033	AKBARI SABAWOON	A	A	A	A
16	190101110034	MD.GULAM RAZA	P	P	P	P
17	190101110035	RAHUL KUMAR	P	P	P	P
18	190101110038	BABLU KUMAR PASWAN	P	P	P	P
19	190101110036	MANISH K CHOURASIA	P	P	P	P
20	190101110039	AVIJEET RAJ	P	P	P	P
21	190101110040	SUHAILA	A	A	P	P
22	190101110042	SUDHIR KUMAR	P	P	P	P
23	190101110043	MD.PERWEZ ALAM	A	A	P	P
24	190101110044	MD.ZAID HUSSAIN	P	P	P	P
25	190101110046	DIGAMBAR RAY	P	P	P	P
26	200101110002	SUDHANSHU KUMAR	P	P	P	P
27	200101110004	NIKET KUMAR SINGH	P	P	P	P
28	200101110006	SANTOSH KUMAR	P	P	P	P
29	200101110007	SAHIL SAH	P	P	P	P
30	200101110008	ANKIT KUMAR	P	P	P	P
31	200101111009	B. LAXMAN RAO	P	P	P	P
32	200101111010	GUPTA K BHUIYAN	P	P	P	P
33	200101111011	RAGINI KUMARI	P	P	P	P
34	210101110001	VIBHESH K PRASAD	P	P	P	P
35	210101110002	KAUSHAL KUMAR	P	P	P	P
36	210101110003	ARUN KUMAR	P	P	P	P
37	210101110008	FUL KUMAR SINGH	P	P	P	P
38	210101110009	RAHUL KUMAR	A	P	P	P
39	210101110010	VIKRANT KUMAR	P	P	P	P

40	210101110012	ADITYA KUMAR	A	P	P	P
41	210101110013	MD AZAD ALAM	A	P	P	P
42	210101110019	RAHUL KUMAR	P	P	P	P
43	210101110020	OMKAR BEHERA	A	P	P	P
44	210101110021	ABHINAV ANAND	P	P	P	P
45	210101110022	PRIYANSHU KUMAR	P	P	P	P
46	210101110023	NEHA SINGH	A	A	P	P
47	210101110024	SONU KUMAR	P	P	P	P
48	210101111026	GEEDALA HARISH	P	P	P	P
49	210101111027	SAHUKAR CHINNARI	A	A	P	P

Brochure of the workshop

A WORKSHOP ON ETABS - HIGH RISED BUILDING DESIGN

On Date
16-09-2022 and 17-09-2022

Time
9.30 am to 12.50pm and 1.50pm to
4.50 pm

Venue
CAD LAB

ABOUT THE SOFTWARE

ETABS is an engineering software product that caters to multi-story building analysis and design. Modeling tools and templates, code-based load prescriptions, analysis methods and solution techniques, all coordinate with the grid-like geometry unique to this class of structure.



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Organised By

**Department of Civil
Engineering
SoET, Paralakhemundi
Centurion University of
Technology and
Management**

REGISTRATION LINK
[HTTPS://FORMS.GLE/BFR6XFAXRFTRBXGZ6](https://forms.gle/BFR6XFAXRFTRBXGZ6)

A handwritten signature in black ink, appearing to read "Campbell", written in a cursive style.

Coordinator