



**GUJARAT TECHNOLOGICAL UNIVERSITY
GRADUATE SCHOOL OF ENGINEERING AND TECHNOLOGY**

Skill Enhancement Hands-on training work shop:

“Design and Analysis of Industrial steel structure & Bridge using MIDAS Software”

Date: 4th & 5th May 2023

Time: 10:00 AM to 05:30 PM

Expert Name: Ms. Ashrita Kulkarni (Regional Head, Midas-IT) & Mr. Akshay Mager (Sr. Technical Engineer, Midas-IT)

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Mode of session : Offline

" ANALYSE & DESIGN OF INDUSTRIAL STEEL STRUCTURES AND BRIDGES USING MIDAS-CIVIL & MIDAS-GEN SOFTWARE" (HANDS-ON TRAINING SESSIONS)

**Coordinator
Dr. Apurva Dave**

**4th & 5th May 2023
10:30 AM to 5:30 PM**

VENUE
AutoDesk Lab - 330, Structure Engineering Department, GTU - Graduate School of Engineering and Technology, Academic Block 5, GTU-Chandkheda Campus, Nr. Visat Three Roads, Visat - Gandhinagar Highway, Chandkheda, Ahmedabad - 382424 - Gujarat.

Mr. Akshay Mager
Senior Technical Support Engineer,
MIDAS-IT

Ms. Ashrita Kulkarni
Regional Head, Gujarat,
MIDAS-IT

The department of Structural Engineering, GTU-GSET has organized 2nd skill enhancement hand-on work shop on 4th & 5th May 2023 for the ME (Structure Eng) students in association with Midas-IT. The topic of workshop was “Analysis & Design of Industrial Steel Structures and Bridges Using Midas-Civil & Midas-Gen software”.

There are many popular software’s available in domain of structure engineering, Midas-Civil & Midas-Gen are among them. They are widely used and accepted by various structural consultants and firms.

Therefore the objectives of workshop were

- To provide practical aspects of analysis & design of industrial steel structures and various types of Bridges using Midas-Civil & Midas-GEM software.
- To provide industries need based soft skill to the students of ME (Structure.Eng).

Ms. Ashrita Kulkarni (Regional Head) & Mr. Akshay Mager (Sr.Tech.Eng) from Midas-IT has conducted the all the sessions right from 10am to 5.30pm on both the days.

Both experts were alumni of VIT- Bangalore with post graduate in structure engineering back ground, they covered all the relevant topic of theory part also.

The List of topics covered are follows,

- Basic discussion and introduction to MIDAS.
- Different technical terminologies explained throughout the training.
- Basic commands of MIDAS software.
- Analysis of simple truss structures.
- Modelling of Simple PSC Box-girder Bridge.
- Analysis and Design of PSC Box-Girder bridge using MIDAS Civil Software.
- Modelling of Industrial Steel Structure in MIDAS Gen software.
- Analysis and Design of Industrial Steel structure using MIDAS Gen Software.
- Post-processing result of analysis and design for above mentioned structures.
- To make you competent and confident as per the requirement of industry/field.

Glimpse of Event



The Midas software company has provided 30 license of full version software for the period of four month for the ME (Structure.Eng) students and faculties. So that students and faculties can take maximum advantage in learning and make themself confident to understand usefulness of the software. Also experts has shown various self-learning links provided by the company so students can explore it at his/her convenient time. The Hands-on session split into two part Pre-Lunch session and post lunch session on each day.

The experts has shown all the features as well as conducted hands-on session for the Design of bridges and Design of Industrial structures. They make students aware about the importance of software in the domain of structural engineering.

Session was attended by 22 students of ME Structural Engineering, GSET. The Hand-on workshop was coordinated by Dr. Apurva Dave Assistant Professor, Structure.Eng, GTU-GSET, under the esteemed guidance of Prof. (Dr.) J. A. Amin, Programme Coordinator, Structure.Eng, GTU- GSET and under the direction of Prof. (Dr.) S. D. Panchal - Director GTU-GSET.