

Industry Institute Interaction (IIC) and Institution's Innovation Council (IIC)

22-08-2026

A Report on Five day workshop viz., “Industry Oriented REVIT structure Workshop”

	NALLA NARASIMHA REDDY EDUCATION SOCIETY'S GROUP OF INSTITUTIONS-INTEGRATED CAMPUS (UGC AUTONOMOUS INSTITUTION)	 
Industry Institute Interaction Cell (IIC) & Institution's Innovation Council (IIC) <i>in association with</i> CANTER CADD INDIA PVT. LTD. DEPARTMENT OF CIVIL ENGINEERING		
Resource Person 	Organize A Five Day Industry Oriented REVIT Structure Workshop	
Mrs. Ch. Lahari Priya Training Manager CANTER CADD, H.O.	Date: 17 - 21 August 2026 Venue: Incubation Center	
Shri Nalla Narasimha Reddy <i>Chairman</i>	Shri Nalla Prashanth Reddy <i>Vice-Chairman</i>	Dr. C.V. Krishna Reddy <i>Director</i>
Dr. G. Janardhana Raju <i>Dean - School of Engineering</i>	Dr. G. Subba Rao <i>HoD - Civil</i>	Mrs. M. Priyamvada <i>Coordinator</i>

The Department of Civil Engineering organized a Five-Day “Industry Oriented REVIT Structure Workshop” in association with Canter CADD India Pvt. Ltd. from 17–08-2026 to 21-08-2026 at the Incubation Center.

The workshop was conducted by Mrs. Ch. Lahari Priya, Training Manager, Canter CADD, H.O., who provided students with an effective combination of theoretical orientation, software demonstrations and hands-on practical training. The programme primarily focused on Building Information Modeling (BIM) and its application in structural engineering using Autodesk Revit Structure.

The workshop was designed to bridge the gap between academic learning and industry expectations by enabling students to understand the complete workflow of developing a structural model. The participants were introduced to the fundamentals of BIM, Revit Structure interface, structural components, foundation modeling, reinforcement, roof truss placement, visualization and model assessment. The session began on 17-08-2026 at 10AM with an introduction of the Resource Person Mrs Lahari Priya and her experiences in various fields. A total of 42 Civil Engg II, III & IV year students and 03 faculties attended the workshops. The five-day programme emphasized application-based learning through demonstrations, guided practice and industry-oriented discussions. Participants were introduced to the REVIT Structure environment and its role in developing coordinated digital structural models. The workshop provided valuable exposure to modern structural modeling workflows and encouraged students to relate software skills to real-world engineering requirements.

Aim: To provide participants with practical, industry-oriented knowledge of Revit Structure for developing and managing structural Building Information Models (BIM).
To enhance their skills in structural modeling, detailing, documentation, and workflow practices aligned with current industry requirements.

Objectives

- To familiarize students with REVIT Structure and its industry applications.

- To develop practical skills in structural modeling and BIM workflows.
- To bridge the gap between academic learning and current industry practices.
- To enhance technical confidence and employability through software-based learning.

DAY-1(FN & AN SESSIONS)-17-08-2026

The first day focused on establishing the fundamentals of BIM and introducing students to the Revit Structure working environment. The session began with an introduction to Building Information Modelling, followed by discussions on its need, importance and applications in the construction industry.

The resource person explained the evolution of construction technology, highlighting the differences between traditional design and documentation practices and modern BIM-based workflows. The limitations of conventional 2D CAD drawings and the advantages of BIM in improving coordination, reducing errors and increasing project efficiency were discussed.

The participants were also introduced to the difference between 2D CAD and BIM, along with the integration of architectural, structural and MEP disciplines using BIM. Various BIM software platforms were introduced, followed by a detailed overview of Revit as a BIM software.

DAY-2(FN & AN SESSIONS)-18-08-2026

The second day emphasized practical structural modelling, particularly isolated footing creation, placement and reinforcement. Students were guided through the process of selecting an appropriate isolated footing from the available foundation types and creating a new footing type by duplicating an existing family.

The required footing dimensions, including width, length and thickness, were specified and modified. Students were introduced to family editing and the use of reference lines, mirror and extension tools for modifying structural components.

DAY-3(FN & AN SESSIONS) 19-08-2026

The third day commenced with a brief review of the practical work completed during the previous sessions. The participants revisited the creation of grids, levels, structural columns, floors, isolated footings and roof trusses.

The session progressed towards detailed roof modeling and visualization. The existing truss was duplicated using the Edit Type option, and its dimensions were modified according to the required roof configuration.

DAY-4(FN & AN SESSIONS) 20-08-2026

A major strength of the workshop was its emphasis on learning by doing. Instead of limiting the sessions to theoretical explanations, students were given practical exposure to the Revit modeling environment and were guided through the step-by-step creation of structural elements.

Through the practical exercises, students developed familiarity with project setup, grids, levels, structural columns, floors, isolated foundations, reinforcement and roof trusses. They also learned how to inspect the model using different views and how to modify structural elements based on project requirements.

The participants gained an understanding of how BIM can support accurate modeling, coordination and documentation of construction projects. The use of 3D views and realistic visualization helped students understand the spatial relationship between different structural components.

DAY-5(FN & AN SESSIONS) 21-08-2026

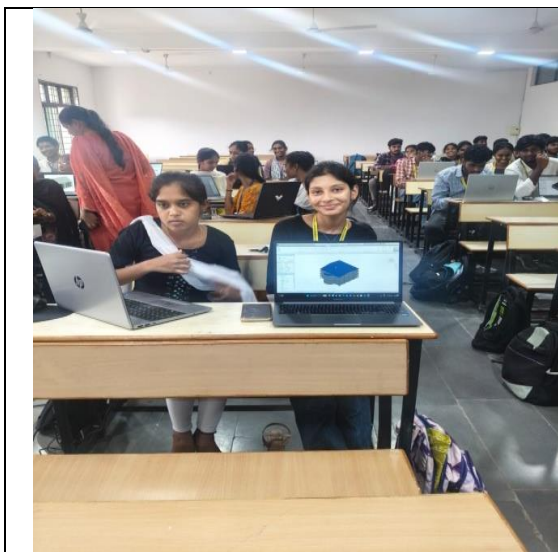
A test was conducted to the participants in the FN session to assess their performance and Valedictory session in the AN.



Students practicing session



Trainer demonstrating the software



Students displaying their output



Feedback by student



Students attending the Hands-on session



Felicitation to the Trainer



Group photo with the Participants and the Trainers

Outcome:

The workshop enhanced participants' awareness of REVIT Structure and BIM-based workflows and improved their understanding of digital structural modeling. It also provided valuable industry exposure and encouraged students to develop software proficiency for academic projects and future professional practice.

The workshop was a valuable initiative for strengthening industry-academia interaction and providing career-oriented learning opportunities to Civil Engineering students. The collaboration with Canter CADD India Pvt. Ltd. significantly contributed to students' exposure to contemporary structural engineering software and BIM practices. The session concluded with a recap of the key concepts like tools of REVIT followed by a feedback of students, certificate distribution and vote of thanks on 21-08-2026 at 4 .00 PM.

Dr.G.SUBBARAO
HOD-CE