



Civil Engineering Consortium

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

(Established by H.P. State Legislature vide Act No. 14 of 2002)

Bridge Making Competition

Igniting Innovation Through Structural Ingenuity

Organized by: Civil Engineering Consortium (CEC)

In Collaboration with: Institution's Innovation Council (IIC)

Date: 3rd–4th May 2025

Venue: Dhyan Kaksh (DK) & Open Cafeteria (OC), JUIT

As part of the *Innovate to Excel* initiative, the **Bridge Making Competition** brought together passion, precision, and the spirit of civil engineering on **3rd and 4th May 2025**. Organized by the **Civil Engineering Consortium (CEC)** in collaboration with the **Institution's Innovation Council (IIC)**, the event served as a dynamic platform for aspiring engineers to showcase their creativity and structural prowess through hands-on design.

The competition was successfully coordinated by a dedicated team of **3rd-year CEC members** from the **Organising, Commute, and Management Committees**, who managed everything from logistics to participant engagement with professionalism and enthusiasm.

We were honored to have the invaluable guidance and support of **Dr. Amardeep, Dr. Saurabh, and Prof. (Dr.) Ashish Kumar**, HoD (Civil Engineering), whose active involvement during both the construction and evaluation phases greatly enriched the learning experience.

Event Highlights

The event officially began on **3rd May at 5:30 PM** in **Dhyan Kaksh (DK)**. Each team was provided with:

- **6 packets of ice cream sticks** (approx. 45 sticks per packet)
- **Adhesive for bonding**
- A requirement to construct a bridge with a **minimum span of 30 cm**

Teams of **4–5 participants** were tasked with building structurally sound and aesthetically creative bridges within a fixed time frame using only the provided materials. A total of **16 students** took part in this exciting challenge.

The construction phase witnessed impressive displays of ingenuity. From unique truss patterns to efficient load paths, students explored real-world structural behavior in a creative and time-bound setting. The atmosphere reflected an active blend of engineering ideas and teamwork.

Testing & Evaluation

The final testing session took place on **4th May at 11:00 AM** at the **Open Cafeteria (OC)**. Under the mentorship of **Dr. Amardeep, Dr. Saurabh, and Prof. (Dr.) Ashish Kumar**, each bridge was assessed for strength and deflection by applying incremental weight on the top span. The bridge ends were placed **25 cm apart**, simulating real structural loading conditions.

This session was not only a test of craftsmanship but also a valuable lesson in structural analysis and load distribution, turning theoretical learning into practical experience.

Results – Outstanding Performances

First Place – 1st Year Civil Team

Maximum Load Withstood: 75+ kg

- Annwasha Dhole (241020006)
- Manik Tyagi (241021002)
- Daksh Bharara (241020009)
- Jatin Singh (241020003)

Second Place – Team Beam

Maximum Load Withstood: 35 kg

- Chetanya Baliyan (221030137)
- Sambhav Thakur (221040001)

Closing Note

The **Bridge Building Competition** was more than just a structural challenge—it was a celebration of engineering intellect, teamwork, and innovation. The enthusiasm of the participants, the dedication of the organizing team, and the gracious support of our esteemed faculty members turned this event into a memorable and meaningful experience.

The **Civil Engineering Consortium** extends sincere gratitude to **Prof. (Dr.) Ashish Kumar, Dr. Amardeep, and Dr. Saurabh** for their continued encouragement and to all students who contributed to the event's success.

Report by:

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Jaypee University of Information Technology



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