

AMALTHEA '25

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BRIDGE-A-THON

BUILD. TEST. TRIUMPH

OFFICIAL RULEBOOK

VENUE: Multipurpose Hall

DATE: 8th November

FEEL FREE TO CONTACT: Rishi (70622 95389)



INTRODUCTION

Bridge-a-thon is an exciting civil engineering design event where participants put their creativity and structural understanding to the test!

The challenge? Build a bridge that can withstand heavy loads using the materials provided on the spot.

The event will be held at Multipurpose Hall, where teams will design, construct, and finally test their bridges for strength and efficiency.

This event not only tests your technical skill and teamwork but also your intuition in predicting structural failure points.

FORMAT

- **Material Distribution: 10:00 AM (8th November)**
- **Bridge Testing: 5:00 PM (same day)**
- **Materials: All materials required for construction will be provided by the organizers at 10 AM.**
(Teams are not allowed to bring their own materials.)
- **Design Freedom: Currently, there are no design constraints — participants have complete creative freedom to design any type of bridge.**



- **Team size: 1–3**
- **Load Testing: Bridges will be tested by placing buckets filled with mud and weights at the center of the span.**
- **The load will be gradually increased until the bridge fails.**

RULES & JUDGING CRITERIA

Scoring Formula:

**Efficiency = Maximum Load Supported by Bridge /
Weight of the Bridge**

- **The team with the highest efficiency score will be declared the winner.**
- **A bonus of 5% will be added to the final score if the team correctly predicts the point of failure of their bridge before testing.**



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ADDITIONAL RULES

- **Each team must complete the bridge construction within the given time frame.**
- **Only materials provided by the organizers can be used.**
- **Bridges must be self-supporting and able to span the required gap (to be specified).**
- **Any unsafe or unstable structure may be disqualified from testing.**
- **Teams must handle the provided materials responsibly and maintain cleanliness at the venue.**

