

WELDATHON

Weldathon is an event aimed at bringing out young mechanical engineers' innovative and creative potential. Undergraduate students from different technical streams with expertise in welding can participate in the event. The main objective of this event is to design and fabricate an innovative or functional product from scrap. All the teams are free to exhibit their creativity.

Participant Guidelines:

- Teams in the workstation are not allowed to bring prefabricated pieces.
- All team members are strictly instructed to stay at the workstation during the overall event.
- The teams are instructed to weld a hinge at the CG point for balancing test.
- The participants should be pursuing a UG Degree.
- Team should follow the safety instructions instructed by the coordinators.
- For aesthetics, participants can bring their own paints if interested.

Materials provided:

- Arc welding machine
- Metal scrap - 2-3kg

Rounds Breakdown:

Round 1: Ideation (150 points)

In this round, the teams have to sketch their ideas with care and attention to detail, where it should serve a meaningful purpose and have its own unique features or functions. The team should also be able to point out the CG (Center of Gravity) point of their product.

Round 2: Implementation (200 points)

In this round, every team is offered with 2-3 kgs of scrap and will be given 2 hours of time. Teams should fabricate the product which should meet the objective mentioned in the ideation round within the due time. Finally, a metal hinge must also be welded to accompany balancing test. Smooth chipping has to be done for clean surfaces. Center of Gravity will be checked or inspected as a part of balancing test.

Round 3: Inspection (150 points)

This round deals with the inspection of product balance and weld continuity, where the product will endure a balancing test and a form of NDT chemical tests. A sharp wedge will be mounted on the hinge point, which is decided by the teams in the previous round for a fixed time period. The product which withstands the balancing and chemical checks will be rewarded.

Penalties:

- The team which does not follow safety precautions or go against guidelines will get penalty marks.

Disqualification :

- The team will be disqualified if they violate any of the rules and regulations mentioned in the rulebook.
- The coordinators have the right to disqualify any team if they deem it necessary.

Liability:

- The participants are responsible for their own safety and the safety of others.
- The organizers will not be held liable for any damages or accidents that may occur during the event.

Appeals:

- The coordinators have the right to change the rules of rounds if necessary.
- In case of any disputes, the coordinators' or judges' decision will be final and binding.
- No appeals will be entertained.

Winning Criteria:

- The team with the highest total score from all rounds will be declared the first place winner.
- In the case of a tie, the team with the shortest overall completion time for all rounds will be declared the winner.

Competition Rewards:

The winners of the event will be awarded the following prizes:

- 1st Prize: INR 5,000
- 2nd Prize: INR 2,500

Additionally, all participants will receive a certificate of participation as a token of appreciation for their effort.

Registration Details:

Registration fee structure varies according to the team size.

- Single member 200/-
- Two members 350/-
- Three members 400/-

NOTE: The team should consists of maximum three members.

Contact Details:

Department Faculty Coordinator: D. Raghuveer - 9778903403

Department Student Coordinator: S. Suresh - 6300338027

Event Coordinator: G. Rama Lokesh - 9398568371

The Weldathon competition is a fantastic opportunity for students to demonstrate their technical abilities and imaginative ideas. We wish all participants a thrilling and secure experience during the event. Best of luck to all the teams!



ASPIRE