Tractor Design Competition

DESIGN, BUILD AND TEST

First time in India – Student Design competition

- Unique Engineering Design Competition for Students with a realistic 360-degree workplace experience
Domain of Educational Institutions

- Theoretical Problem
- Physical Problem
- Theoretical Solution
- Physical Solution

Domain of Industry
• First time in India
• Engineering students entering the industry will be equipped with practical knowledge and design experience.
• Prepares the students to be effective professional engineers.
Students gain practical experience in the

- design of drive train systems,
- tractor performance,
- manufacturing processes,
- analysis of tractive forces and
- strength of materials.

Develop skills in

- communication,
- leadership
- teamwork
Design Report
Teams are required to submit a design report detailing,

- Customer requirements.
- Conceptual design details.
- Analysis Reports, FMEA & Testing and Development
- Original and Innovative Ideas

Cost Estimation report

Total Manufacturing Cost, BOM wise cost and Aggregate Based Cost

Tech Inspection

- Initial tractor weighing
- Dimensional Check
Evaluation Phases

Performance Events

- Maneuverability Event.
- Tractor Pull Event.
- Durability Event.
- Noise Test

Team Presentation

In addition Students are required to present the design report and Cost report to the Evaluation panel and justify their innovation.
A panel of industry experts judge

– design for innovation,
– manufacturability,
– serviceability,
– ergonomics.
– safety,
– Performance
  • Maneuverability,
  • Tractor pull
  • Durability
  • Noise
Engage Members for their growth

This Competition is kind of Seed which will grow in Future
THANK YOU