



MECHANICAL PRODIGIUM

STUDY GUIDE



Explore the engineering domain of 'Mechanical Prodigium'. Engage with practicality, critical thinking, and applied physics to tackle challenges and dive into engineering expertise. Encounter tests evaluating problem-solving, structural design, and mechanical innovations. Pull up your socks and brace for the battles ahead!

General Guidelines/ Rules:

Delegates are prohibited from assisting other teams, as well as utilizing additional or external materials during all three rounds. Adherence to the delegate limit is mandatory, and the decisions made by the category heads are final and not subject to dispute. If any of the listed regulations are breached it may result in deduction of marks or immediate elimination. Moreover, any time overrun by delegates will result in corresponding subtraction from their scores.

Round 1: Hydraulic Judo Bot

Delegate limit: 3

Round Weightage: 25%

Duration: 2 hours 30 minutes

Round description: Buckle up, future senseis of engineering, and prepare to channel your inner Karate Kid. Your mission for the day, should you choose to accept it or not, is to craft a Hydraulic Judo Bot that would make Mr. Miyagi silently nod in approval. Don't worry, waxing on and off is not part of this challenge. Following the end of this session, your presentation topics will also be revealed along with the marking criteria.

Round 2: FastTrack Frenzy

Delegate limit: 3

Round Weightage: 25% (Slingshot Car) and 25% (Presentation)

Duration: 3 hours 30 minutes

Round description: We are now diving into the world of slingshot cars! Here you will create vehicles that conquer vast distances and outperform even the deadliest rivals with ease. But hold onto your steering wheels because, surprise alert, this isn't your average race; there's a thrilling twist waiting for you. But the journey doesn't end here. Your presentations still need to be delivered. Don't underestimate them, they are just as vital as the speed of your car. Get ready for a journey filled with surprises and a touch of innovation-this challenge eagerly awaits your unique touch.(<https://youtu.be/JNFLFWj9l88?feature=shared>)

Round 3: Architectural Mayhem

Delegate limit: 3

Round Weightage: 25%

Duration: 2 hours

Round description:This round is all about crafting your own architectural marvel. You might think the sky's the limit, but think again as there might be a twist in store.

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