Sonae E-Bike Design Challenge

At E-Cell, IIT Bombay's E-Summit 2022

❖ About the Design Challenge

This challenge will test the skills and thinking powers of students with regards to a workable E-Bike design. We expect the students to be high on research on the latest in E-Bikes in the world and then put their knowledge, skills, and innovation powers to create an E-Bike design that fits best for Indian roads which have international standard

❖ Team Composition

The team can have 1 member to 5 members from various backgrounds and expertise to design Electric Bike. The team can have 1 mentor from college or Industry for guidance.

❖ Specification to work on City Speed Commuter Bike

- Top speed:80+ Kmph
- Range:150+
- Kerb weight: Less than 150kg
- Payload capacity: 250kg
- Gradebility:21.8 Degree/40%
- Motor (Hub/Center): 2KW-4KW
- Battery: 60V /72V Platform
- Frame: Tubular Lightweight
- Breaking system to meet CMVR
- Ground Clearance: More than 140mm.