

Go-Kart Team –INITIA 3.0

Bake Team Head

Duration: July 2018 - March 2019

◆ System Overview

A competition involving the design, analysis and fabrication of a student Go-Kart vehicle by a team of 25 students from undergraduate classification to compete in several events such as Braking test, Acceleration test, Skid Pad and Endurance Race that test the performance of the vehicle fabricated.

◆ Key Contributions:

- ✓ Designed and optimized a high-performance braking system in SolidWorks, ensuring enhanced safety & efficiency.
- ✓ Conducted theoretical calculations for braking torque, caliper sizing, piston dimensions, hub, and disc specifications
- ✓ FEA & Structural Analysis – Validated load-bearing capacity of the Pedal.

