Student Innovation

AMITY FORMULA 1 RACING CAR

The team from Amity School of Engineering and Technology named as “MACH-RELOADED” registered for SUPRA SAE INDIA 2012 Formula-1 Type Race Car Event in October, 2011 and in February 2012, the model of Amity F1 Race Car was selected amongst 105 models designed by students from Engineering colleges located across India.

UNIQUE FEATURES

- Light weight of just 340 kilograms with 68 kilograms for the driver
- Top speed of 105 kilometers per hour
- Fitted with Maruti F8B engine with rear wheel drive and two radiators
- USPs - Split readers and front wing tiers are its USP in the car
- 796 cc engine
- Max Torque Design rpm- 59nm@2500 rpm
- Overall Length, Width, Height- 2410mm Long, 1620 Wide, 1425 mm high
- Pick up- 0-60 in 4.2 sec.

AMITY HYBRID CAR

India's First Tri-Fuel Hybrid Concept Car

Students of Amity School of Engineering and Technology (ASET), designed and developed India’s First Tri-Fuel Hybrid Concept Car, a project under the aegis of Amity Science, Technology and Innovation Foundation (ASTF).

In today's scenario, when fuel prices are skyrocketing, the Amity Hybrid Car will bring a sigh of relief to many Indians. The sleek & glistening green & black two seater car comes with multiple fuel options - Batteries, Auto LPG and Petrol thereby reducing transportation costs significantly. Switching from one mode to another is simple. The car can run 80-90 km on batteries on a single charge with the maximum speed of 50 km/hr on batteries and 45 km/hr on engine. Besides, the car has been tested successfully for more than 400 km on Delhi roads. Environment friendly with zero emissions in urban driving conditions and with low maintenance cost, the Amity Hybrid car is just what the Indian urban driver needs. Amity Hybrid car was exhibited at Auto Expo 2008.

UNIQUE FEATURES

- India’s first split parallel hybrid car
- Runs on Auto LPG/Petrol & Electric Customized transmission system
- Sep-Ex DC motor for electric drive
- Motor controller with high frequency switching and ultra low voltage drops
- Can be made commercially viable
- 5 speed constant mesh gearbox coupled with single cylinder four stroke engine