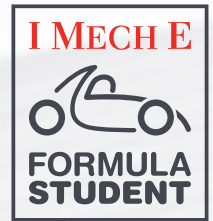


FORMULA STUDENT

Institution of Mechanical Engineers



Congratulations to the Indian Institute of Technology Delhi

FOR PARTICIPATING IN FORMULA STUDENT 2008

The AXLR8R is a multidisciplinary team comprising of undergraduate and postgraduate students from different disciplines and from different years. Because of the high academic pressure and the strict discipline requirements, the team members generally spend their day hours at the institute and work on the project in the late hours of the evening or night. Their dedication and devotion for the team always keeps them motivated.

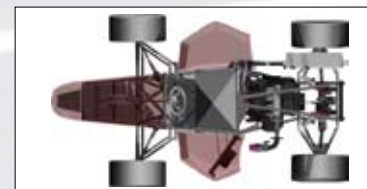
Last year IIT-Delhi team participated for the first time in FSAE West at California speedway. The project taught them the basics of engineering: to study a given problem and then find its solution by applying basic science and technology. They have also learned to work in a team. The team has grown into family now and they all hold the common aim to make a number one Formula Student car.

Studying design from the top teams, manoeuvrability was given preference over engine performance. Hence criteria such as less weight, compactness, low ride height and strength are considered as guiding performance parameters. Safety, reliability, cost, simplicity in design and ease of manufacture all guided the final design.

Considering the immense amount of learning and pleasure, most of the components were self-designed and self-manufactured.



First
time
of FS UK



Length/width/height/wheelbase	2480mm/1400mm/1100mm/1560mm
Track (front/rear)	1250mm/1150mm
Weight including 68kg driver (front/rear)	126kg/154kg
Suspension (front/rear)	Unequal length A-Arms. Push rod actuated Fox Vanilla RC spring/damper units
Tyres (front/rear)	Goodyear D2692 20.0x7.0 - 13 R 075
Wheels (front/rear)	Alloy 13" x 6" - 46mm offset
Brakes (front/rear)	1040 steel, hub mounted, 242mm diameter/1040 steel, differential mounted, 276mm diameter
Frame type	Welded Steel tube space frame, ASTM A 179 mild steel tube (Equivalent to MS1010)
Engine	Honda CBR F4i/2002
Bore/stroke/cylinders/cc	67.0 x 42.5 mm/4 cylinder/599 cc
Fuel	Gasoline
Fuel system	CBR F4i stock Fuel injectors
Max power/max torque	12,000rpm/9,000rpm
Transmission/differential/final drive	Chain 530 pitch/JTEKT Torsen University special #012000 Bias ratio 2.6:1/3.636