

DelTech Baja - Annual Report



DelTech Baja is a team of undergraduate students working under Dr. Vikas Rastogi which designs and develops a single seater off road racing vehicle every year and takes part in national and international SAE events.

Every year a team of 30 students is made comprising of students mostly from Department of Mechanical Engineering; Automobile Engineering; Production Engineering and Electrical Engineering. The team is basically divided into 5 departments - Engine & Transmission; Suspension and Steering; Brakes & Chassis and Electronics and Data Acquisition.

Last year the team participated in Virtual BAJA SAE INDIA(Chandigarh) ; ENDURO STUDENT INDIA(Coimbatore) and BAJA SAE INDIA(ROPAR).

VIRTUAL BAJA SAE INDIA ; held at Chitkara University (Chandigarh) ;JULY 2017

Before qualifying for the main event ; every team has to go through this round where we have to give a presentation of the design of the car that we would be manufacturing . Around 400 teams from all around the country participate here and every team gets about 25 minutes to present their idea and convince the judges that the team is capable of building the vehicle.The top 150 teams get a chance to participate in the main event that is held later.We were one of those teams and were top seeded in the North region.



ESI is a five day off- road student design competition based on the need to train engineering students on practical aspect of building something with their own hands and also train them on the science of team management. The event consists of 5 dynamic events - Acceleration ; Sprint ; Maneuverability ; Hill Climb and 4- hour Endurance race. There are also other static events such as Cost Challenge; Business Plan Challenge and Design Event.

Before we can participate in all these events we are required to pass the Technical Inspectors where we have to convince the judges that our vehicle is built according to rules and is safe to drive. We were among the first few teams to clear the Technical Inspection and later on participated in all the above mentioned events. Our best results came in the Design Event where the team made it to the Design Finals i.e. in the top teams from a pool of 100.



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Deltech Baja

Delhi Technological
University

 JKTYRE



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INDIA

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BAJA SAE INDIA; ROPAR

March 2018

BAJA SAE India a competition similar to Enduro Student India with both dynamic and static events but instead of five days ; it is just a 3 days event. Also the level of competition here is greater with tougher terrains and tougher cars.

