

ROAD ACCIDENT CONTROL

With the phenomenal growth in the number of motor vehicles, the accident reports in news papers are the indicators of the dangers involved on roads of developing countries including India.

In the recent years, with the opening up of the market, the automobile manufacturers in the country adopt every possible measure to bring down the cost of their product so that they can compete with their counterparts. Under such circumstances – the possibility of compromising with the standard compulsory requirements as well cannot be ruled out.

OVER 1.3 lakh people across the country succumb to injuries from road accidents every year, which translates into 15 people dying every hour. Nearly 10% of the 1.3 million deaths due to road accidents worldwide happen in India, making it worse than an epidemic. While most road mishaps attract little attention, it is almost like a jumbo aircraft crashing every day here killing nearly 350 people.

An airbag is a vehicle safety device. It is an occupant restraint consisting of a flexible envelope designed to inflate rapidly during an automobile collision, to prevent occupants from striking interior objects such as the steering wheel or a window. Modern vehicles may contain multiple airbags in various sides and frontal locations of the passenger seating positions, and sensors may deploy one or more airbags in an impact zone at variable rates based on the type and severity of impact; the airbag is designed to only inflate in moderate to severe frontal crashes. Airbags are normally designed with the intention of supplementing the protection of an occupant who is correctly restrained with a seatbelt.

Using the above example, innovate and explore new ideas that can be implemented in an automobile or a two wheeler, that can help to prevent accidents or reduce the damage to man and property in an accident without compromising with other features like cost and style. Be simple and realistic.

The proposed idea should be **innovative and practical**, which can be implemented on an automobile.

The following are the bare minimum things that the participant should incorporate while giving their ideas:-

1. Practicality of the idea.
2. **Idea should be original ,it should not be copied from any source.**
3. The idea must be given keeping the Indian roads and traffic in mind.
4. Any specific part of an automobile can be discussed and problems related to that part must be listed before giving the new idea.

Judging criteria:-

1. How innovative the idea is.
2. Originality of the idea.
3. Applicability of the idea on Indian conditions.
4. The idea should be economical.

Rules and Regulations of Abstract Submission: -

1. Submit your abstract latest by 23:59 hours on 15th September, 2011.
2. Submission should be in hard copy and not more than 6 pages (Font size:-12, Line spacing 1.5) excluding the cover page and also the soft copy at thematica.mechrocosm2011@gmail.com.
3. A team consists of 3 members and one should compulsorily from either mechanical or production.
4. Mention Team names and details of Team members on cover page.