

GTU INNOVATION COUNCIL

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A Report on Udisha / Innovation Activities of Government Engineering College , Modasa

Government Engineering College –Modasa, being one of the leading Engineering Institute in Gujarat, is putting full effort to march towards desired goals of innovation council. The Udisha Club at Institute level comprising of co-ordinator, faculty and student members from each discipline, is functioning as per guidelines of GTU Innovation Council. To achieve the main objective of innovation council that is, “The benefits of advancements in technology to reach millions at the bottom of the pyramid in India and across the world and for that innovation has to go beyond technology” the Udisha club of the institute is regularly doing the student counseling to identify the real life problems as a project IDP and to apply the innovative ideas to solve the same.

Followings are the highlights of initiative steps

- (1) Students and faculties are organizing shodhyatra for identifying real life technical problems prevailing at construction sites, Industries and organizations. Emphasis has been given to local problems. The following picture shows a group of civil engineering students and faculty during their visit of one of the local construction site to observe the ongoing construction activities and to identify the technical problems.



- (2) Meetings with local and district level GIDC Presidents and leading industrialists have been arranged under the leadership of Himmatnagar Zone Udisha Co-ordinator (Dr.N.M.Patel), Udisha Co-ordinator of GEC, Modasa (Prof.B.J.Panchal), Udisha member and Head of the Automobile Engineering Prof.R.J.Jani. The objectives of Innovation council were discussed. The role of students, Industry expert and institute experts to identify and solve the technical problems were also discussed. The following photos are of meeting events at GIDC, Modasa.



What is an IDP?

How to solve it?

Photos of meeting events

Some Notable IDPs

At the Institute level, total 195 IDPs were identified by the Final year students and 455 students are participating in solving the IDPs. Following are some notable IDPs.

- (1) Frequent Breakage of Cylinder Liner Collar –** The IDP of Automotive Manufactures Private Limited (Ashok Leyland) Identified by the team of Automobile Engineering students.



- (2) Study and Redesign of accident prone Road Intersection at Modasa Bypass**

This is the IDP of one of the deadly road intersection at Modasa bypass on Shamlaji Road. The intersection is lacking most of requirement for good intersection and is the deadly spot where two to three incidents per week of over toppling of large trailers is taking place. The problem is well relevant for IDP and one of the groups of civil engineering students is working on it.



Live IDPs in front of us

Outstanding Innovative Performances and Achievements

(1) A team of eight students of Automobile Engineering of Government Engineering College, Modasa:- Adwani Mohit, Yuvraj Singh Jadeja, Yagnik Riddhesh and Manat Bhargav, Hitesh Mangukiya, Darshan Gandhi, Gaurav Kansara and Himansu under the guidance of Head of Automobile Engineering Prof. R.J. Jani of Automobile engineering, participated in the competition **Effi Cycle SAE INDIA** a short of **Electric Tricycle Using Hybrid Technology** held at University Institute of Engineering & Technology-Punjab (UIET) and stood first in design and in overall stood fourth. Students work hard for the entire process of designing, fabrication and performance testing and won the rank. The purpose was to design and fabricate an energy efficient Hybrid human powered three wheeled electric vehicle. Effi cycle is an intercollegiate design competition for undergraduate and graduate students where teams have to design and fabricate an energy efficient Hybrid human powered three wheeled electric vehicle.



A model



A fabrication stage



An Acid Test



Events of Success and Pride

(2) A team of four students of Electronics and communication Engineering of GEC Modasa: Patel Rahul, Patel Hardik, Prajapati Ankit and Barot Jaydeep participated in a Path Finder Robotics Competition held at Sankanchand Patel College of Engineering and stood 1st. Students came out with **an innovative computer program** to guide the robots automatically. The team has qualified for the final round to be held at IIT Delhi.



Events of Success and Pride

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