



The Differential

Department of Mechanical Engineering

Acropolis Institute of Technology and Research

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From Editor's Desk



Tejasvi Harshwal
(Student Editor)

Mechanical engineering involves study of some of the most interesting phenomena of science and engineering. The basic focus during study is on subjects such as thermal engineering, fluid sciences, machine design, industrial engineering and production engineering.

Ever thought GOD also implemented mechanical engineering in nature? Motion of your body, arms, hands and feet involves mechanical engineering. Your heart pumps blood and it runs through all your veins. This is again application of mechanical engineering. The more you look into nature with the eye of a mechanical engineer, you will find more application of it.

Vision

To be an academic leader for the development of human potential so as to meet the global challenges.

Mission

- ✓ To create an intellectually stimulating learning environment.
- ✓ To impart value based, innovative, and research oriented education.
- ✓ To develop positive attitude with communication skills.
- ✓ To increase employability and entrepreneurship through collaboration with industries and professional organizations.

BAJA 2016-17

Acropolis Institute of Technology & Research, Indore participated in “BAJA SAEINDIA 2017”

Event held from 15th to 19th February, 2017 at NATRAX, Pithampur.

This national event is organized by SAEINDIA every year since 2006. The BAJA SAEINDIA competition challenges teams of University undergraduate students to conceive, design, fabricate and complete with their own off-road All Terrain Vehicle (ATV). A team of 25 students was constituted along with faculty advisor Prof.

Tapan Jain. The competition is conducted in two phases:

1. Virtual BAJA: There were approximately 480 teams participated in M-BAJA (main) and 50 teams in E-BAJA from all over the country. Out of them 150 teams cleared the virtual round and selected for final event.

AITR team (named Acro streak) ranked 22nd among 480 teams.

2. Final Event: BAJA Aptitude Test was conducted at SVITS, Indore. 8 eligible students of final year out of 12 in the team took the test. Mr. Deepesh Avlasia, student of final year was selected in M/s Mahindra & Mahindra with 6 LPA. There were 150 teams for this final event and 8 teams from Indore. In all, 110 teams reported for the event. Out of which 92 teams cleared Technical inspection and Brake. These teams could qualify technically for endurance test. our team could clear all the technical tests. Participation in BAJA-2017 as a project has boosted moral of the team to be able to carry out more such projects in future.



Expert Lectures

An Expert Lecture organized by Mechanical Engineering Department on “Manufacturing Skills” by Mr. Milind Dhere, General Manager (Quality) ; P. S Group of companies Pithampur on 13th April, 2017. Mr. Dhere discussed his views on the latest technology, the role of Engineers in Society, benefits of quality & how to maintain the healthy and pleasing atmosphere on the workplace in industries. Mr. Dhere also discussed various quality policies like Kaizen, 5-S, Pokayoke, JIT etc, that used for improving manufacturing skills.

Training Programs

1 Training conducted on “Basics and advanced design in CREO” for BE Second year ME-1 students. The training duration was 60 hours.

2. Training conducted on “Basics and advanced design in CREO” for BE Second year ME-2 students. The training duration was 60 hours.



Industrial Visit

Industrial visits are organized throughout the year to give real-life experiences to students. A good blend of theory and practice is maintained. Faculty organizing: Prof. Saurabh Jain and his team member have taken efforts and initiative, which made the visits a grand success. Our students visited following industries: Volvo-Eicher, Bridgestone, Sant Singaji thermal power plant, NHDC hydro power plant Omkareshwar, Caparodewas, Porwal Auto components



Faculty Achievements

A. FDP/Workshop/Seminar

1. Dr. Manoj Modi, attended one day workshop on “Developing the attitude of leadership: conflict, Assertive and In-Charge-Leadership” on 8/12/2017 organised by IMA.
2. Mr. Tapan Jain, attended “NEN mentors meet for Business success” on January 28, 2017 and Coordinated SAE workshop on New Technologies and Sensors by Mr. Rajesh Malviya from M/s. Patwa Automotives, Indore.
3. Mr. Nitin Rathi, attended one day workshop on the topic “Effective Internal Coordination for Productive Outputs” organized by Indore Management Association on 23rd August 2017 at Cummins Turbo Technologies India Ltd.

B. Conference/Research Publication

1. Mr. Saurabh Jain, Dept. of Mechanical Engineering, Presented a Paper Titled “Agent Based Scm: A Proposed Model For Vecv” In National Conference On Emanate Trends In Mechanical & Allied Engineering Sciences At Cdgi On April 1st-2nd, 2017
2. Ms. Sonali Shukla, Dept. of Mechanical Engineering, Presented a Paper Titled “Design Optimization of Diaphragm Spring with Various Load Condition”, Emanate Trends in Mechanical Engineering & Allied Engineering Sciences 2016, 1 / 04 / 2017.
3. Mr. Ashish Khare Dept. of Mechanical Engineering Presented a Paper Titled “Recovering Rejected Heat from Refrigerator for Water Heating using Heat pipes”.

Student Achievements

- 1) Rishabh khatri Dept. of Mechanical Engineering (2017) has successfully completed np-tel online certification course of duration (jan-apr 2017) on conduction and convection heat transfer from indian institute of technology kharagapur.
- 2) Rishabh khatri Dept. of Mechanical Engineering (2017) has successfully completed np-tel online certification course of duration (mar-apr 2017) on experimental stress analysis-an overview from indian institute of technology madras.
- 3) Nishant Bhosle Dept. of Mechanical Engineering (2017), Presented a Paper Titled “Designing and Comparative Analysis of EN-45 Steel Mono Leaf Spring with Composite Material Mono Leaf Spring under Static Loading Condition” Global Journal of Research & Analysis Volume-6, issue-1, ISSN No 2277-8160.