



The Differential

Department of Mechanical Engineering

Acropolis Institute of Technology and Research

NEWSLETTER

JULY 2015

At A Glimpse...

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Chief Editor -
(Prof. Saurabh Jain)

Student Editors-
(Rahul Talreja, Tejasvi Harshwal)

From H.O.D's Desk



Dr. Manoj Modi
(Head of Mechanical Department)

It gives me great pleasure to give my best wishes to **The Differential**, newsletter from Department of Mechanical Engineering of Acropolis Institute of Technology and Research Indore. The students and faculties of department are always proactive in taking initiatives in technical, cultural and social events. I hope that this newsletter will serve the purpose of reflecting all activities of department and it will inspire others to do their best.

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.

Big Idea Contest



Mechanical Engineering Department, Acropolis Institute of Technology & Research, Indore has embarked on an ambitious contest for the school going students named “BIG IDEA CONTEST”. This contest aims at inspiring students towards innovation and suggests high-impact student-led idea aimed at solving problems of the society and matters related to current generation. By encouraging novel proposals and then supporting next steps, “Big Idea” will help contest winners in making an impact all over the world. This event is a part of our programs to mark completion of a Decade of Enlightening Wisdom.



Quadtorc 2015

Organizing Committee: ISNEE- Indian Society of New Era Engineers, www.isnee.in

About Quad bike: An all-terrain vehicle (ATV), also known as a quad, quad bike, three-wheeler, or four-wheeler, is defined by the American National Standards Institute (ANSI) as a vehicle that travels on low-pressure tires, with a seat that is straddled by the operator, along with handlebars for steering control. As the name implies, it is designed to handle a wider variety of terrain than most other vehicles



Event Date: Aug 1st - 4th, 2015

Venue of Final Round: Camp Wiwwwwwwwwwwwwwwld, Dhauj, Haryana (Dhauj is situated at Aravali Hills of Haryana)

Faculty Advisor: Prof. Nitin kr. Rathi, Associate Professor

Team: Roneet Borade (Captain), Shashank Dubey (Vice Captain), Dhrumil Verma (Driver 2), Mohit Budlani, Dinesh Samai, Mayank Rajawat, Vivek Sharma, Ankit Sharma, Mayur Shrivastva, Amitesh Rathore, Deepesh Avlasia, Suyash Gupta, Shashwat Sharma, Shubham Kushwah, Abhishek Rodwal, Shubham dubey, Tanmay Bhise, Tushar Dhotre, Ashwini Motiwale, Abhishek Mahesh, Yash Vyas, Nitin.

Go-Kart

Event Name : GKDC- Go-Kart Design Challenge- A On Road vehicle Championship

Organizing Committee: ISNEE- Indian Society of New Era Engineers, www.isnee.in

Virtual/ Pre Final Round: Pre Final Round of the Event was held between 22 and 23 August 2015 at Acropolis Technical Campus, Indore and secured 51th rank at All India Level out of around 150 participated. Now team will be going to participate in Final Round to be held in February 2016 at Buddh International Circuit, Greater Noida. There are 25 students in team.

Team Captain: Mr. Dinesh Samai, 4th Yr.,MED.

Faculty Advisor: Prof. Umesh Carpenter, Assistant Professor

Expert Lecture



1. Department of Mechanical Engineering organized an Expert Lecture on “CNC Machines and Programming”. By **Mr. Nagarajan.A, CEO, SAN3D Technologies, Indore**. In this session, Mr. Nagarajan explained about various CNC applications like laser cutting, plasma cutting, abrasive water jet machining and EDM etc. He also explained about the today's trends in manufacturing and market expectations from an engineering graduate. Mr. Nagarajan shared his experience of shop floor control in the session.

2. Department of Mechanical Engineering organized an Expert Lecture on “Design of Thermal System” by **Dr. Basant Agrawal, Associate Professor, SGSITS, Indore**. In this session, Dr. Basant Agrawal explained about basic concept of thermodynamics, thermodynamic laws, classification of vapour cycle and air standard cycles, classification of heat exchangers and design of heat exchangers from an engineering graduate. Dr. Basant Agrawal shared his experience of research.



Workshop



A seminar was organized by Techno knight club on Engineers Day, 15th Sept. 2015 on “Basic aggregates of Automobiles”. The session was conducted by the final year students on complete terminologies, different systems of automobile and their functioning. There were 80 participants from junior classes of mechanical engineering. The session was coordinated by Neeraj Jaiswal, and managed by Dinesh Damai, Vivek Sharma, Dhrumil Verma, Chandan Agrawal, Amit Rane, Shubham Kushwah, Yash Vyas, Shashwat Sharma, Ashwini Motiwale, Mohit Shrotiya. The faculty coordinators were Prof. Tapan Jain and Prof. Anand Sharma.

Industrial Visit

- SANT SINGAJI THERMAL POWER PLANT, DIST. KHANDWA
- VOLVO-EICHER PITHAMPUR
- BRIDGESTON INDIA
- GAJRA GEARS DEWAS
- IGTR MSME INDORE
- CAPARO DEWAS
- PS CAMSHAFT
- PS CAM COMPONENTS
- GG AUTOMOTIVES GEARS



Student Achievements

- 1) Rishabh Khatri of 3rd year has successfully completed nptel online certification course (Elite category) of duration (jul-sept 2015) on Manufacturing Systems and Technology from Indian Institute of Technology Kanpur.
- 2) Rishabh Khatri of 3rd year has successfully completed nptel online certification course (Elite category) of duration on Basics of Noise and its measurement from Indian Institute of Technology Kanpur.
- 3) Rishabh Khatri of mechanical 3rd year has successfully completed nptel online certification course of duration on analysis and Modeling of Welding from Indian Institute of Technology Kanpur.

Faculty Achievements

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 Indore
2. Ms. Aditi Sharma, Ms. Fatema Qureshi And Ms. Sonali Shukla Dept. of Mechanical Engineering, Presented a Paper Titled “Computational Fluid Dynamic Analysis Of Turbocharger Turbine” Emanate Trends In Mechanical Engineering & Allied Engineering Sciences at CDGI
3. Ms. Fatema Qureshi, Ms. Aditi Sharma, And Ms. Sonali Shukla, Dept. of Mechanical Engineering, Presented a Paper Titled “Dynamic Analysis of Connecting Rod” Emanate Trends