



The Differential

Department of Mechanical Engineering

Acropolis Institute of Technology and Research

NEWSLETTER

JAN 2016

At A Glimpse...

- ❖ NKRC
- ❖ BAJA 2015-16
- ❖ Expert Lectures
- ❖ Trainings Conducted
- ❖ Workshops
- ❖ Industrial Visits
- ❖ Faculty Achievements
- ❖ Student Achievements

Chief Editor-
(Prof. Saurabh Jain)

Student Editors-
(Rahul Talreja,
Tejasvi Harshwal)

From Editor's Desk



Prof. Saurabh Jain
(Chief Editor)

The spirit of improvement is not always a spirit of liberty; for it may aim at forcing improvement on an unwilling people.

Mechanical Engineering is the largest of the engineering disciplines. The department cares for student support, mentoring, tutoring, study skills workshops and career development. Mechanical Engineering students culminate their studies with a year-long capstone project requiring design problem solving, creative thinking, project planning and team work

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.

NKRC



NKRC- National Kart Racing Championship 2015(Season 2) – A Go-karting Competition

Organizing Committee: Virtualis Motorsports, www.virtualis.in

Virtual/ Pre Final Round: Pre Final Round of the Event was held between 18th and 19th July 2015 at Vikrant Institute of Technology, Indore and secured 1st Rank at State Level and 12th Rank at All India Level out of around 100 participated. The team has participate in Final Round held in October 2015 at RPM Go Karting Circuit, Bhopal. has secured 10 th Rank at All India Level. **Team**

Captain: Mr.Suyash Gupta, 3rd Year, ME.

Faculty Advisor: Prof. Aatish Rajore, Assistant Professor

Baja 2015-16

BAJA 2015-16- The ATV Championship

Organizing Committee: SAE India, www.bajasaehindia.co.in

Virtual/ Pre Final Round: Pre Final Round of the Event was held between 10th and 11th July 2015 at Chitkara University, Chandigarh and secured 142th Rank at All India Level out of around 580 participated. Final Round was held in February 2016 at NETRIP, Pithampur . There were 25 students in team.

Team Captain: Mr.Dinesh Samai, 3rd Yr., MED.

Faculty Advisor: Prof. Tapan Jain,



Experts Lectures



Department of Mechanical Engineering organized an Expert Lecture on “Finite Element Methods”. By **Dr.**

Manoj Chouksey, Assistant Professor,

SGSITS, Indore. In this session, Dr. Manoj Chouksey explained about basic concept of Finite Element Methods, Dynamic analysis of Internal Combustion Engine, Connecting rod and various parts from an engineering graduate. Dr. Manoj Chouksey shared his experience of research.

2. Department of Mechanical Engineering organized an Expert Lecture on “Interaction between Industries, More practical Approach”. By Mr. Rajendra Joshi, Vice President, John Deere India Private Limited, Dewas. In this session, Mr. Rajendra Joshi explained about basic concept of Tractor, classification of Tractors, Operation and Manufacturing of Tractor Parts from an engineering graduate. Mr. Rajendra Joshi shared his working experience.

Trainings Conducted

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.
3. Training conducted on “Basics in AutoCAD” for Diploma Second year students. The training duration was 40 hours.
4. Training conducted on “Basics in Hyper works” for BE Third year ME-1 students. The training duration was 22 hours.
5. Training conducted on “Basics in Hyper work” for BE Third year ME-2 students. The training duration was 22 hours.
6. One Day Training on “Inspection on Metrology” was arranged for BE Third year ME-1 students at IGTR-MSME Indore
7. One Day Training on “Heat Treatment of Steels” was arranged for BE Third year ME-2 students at IGTR-MSME Indore.

Workshops

Engineers Day Celebration:

Knowledge transfer from final year students to their junior

students:

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 Visits

- INDIRA SAGAR HYDRO POWER PLANT
- INDO TOOLING PVT LTD
- SWARAJ TECHNOCRAFT PVT LTD
- SAN 3D TECHNOLOGIES
- GENIOUS ENGG. PVT.LTD.
- KACH MOTORS
- CUMMINS TURBO
- MAHINDRA 2-WHEELRS
- KIRLOSKER BRO.
- YASHAS FRP
- NEO CORP
- JOHN DEERE
- RRCAT
- RAJRATAN GLOBAL WIRE
- LLYOD INSULATIONS
- PORWAL AUTO COMPONENTS



Student Achievements

1. Arpit Patel, Akhilesh Yadav, Hassan Baig, Jay Kag, Krishn Kumar Samdaria, Rahul Yadav, Rajat Mahajan, Shriram Patidar, Shubham Jaiswal, Shubham Bagora, Vivek Verma, Sudhir Choudhary have qualified GATE-2016.
2. Apoorva Jain Deshmukh has qualified GRE-2016 with 308 Marks and Toffel-2016 with 97 Marks and got admission in University of Texas U.S. for higher studies.
3. Aayush Lakkad, Abdul Mannan Rehmani, Amit Jaiswal, Ankit Somnani, Abhishek Singh Chauhan, Bikku Pandey, Gulshan Prajapati, Mohit Mathur, Anurag Chaturvedi,

Faculty Achievements

1. Ms. Sonali Shukla, Ms. Aditi Sharma And Ms. Fatema Qureshi, 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 Sciences at CDGI on April 1st-2nd, 2016.
2. Mr. Ashish Khare, Dept. of Mechanical Engineering, Presented a Paper Titled "Design Development of Test-Rig To Evaluate Performance of Heat Pipes In Cooling of Printed Circuit Boards, Vsr International Journal of Mechanical, Civil,