

AUTO HORIZON

MAY 2016

Newsletter Issue 2

Department of Automobile Engineering

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TECHORIZON-"NATIONAL LEVEL PROJECT EXHIBITION AND CONFERENCE"



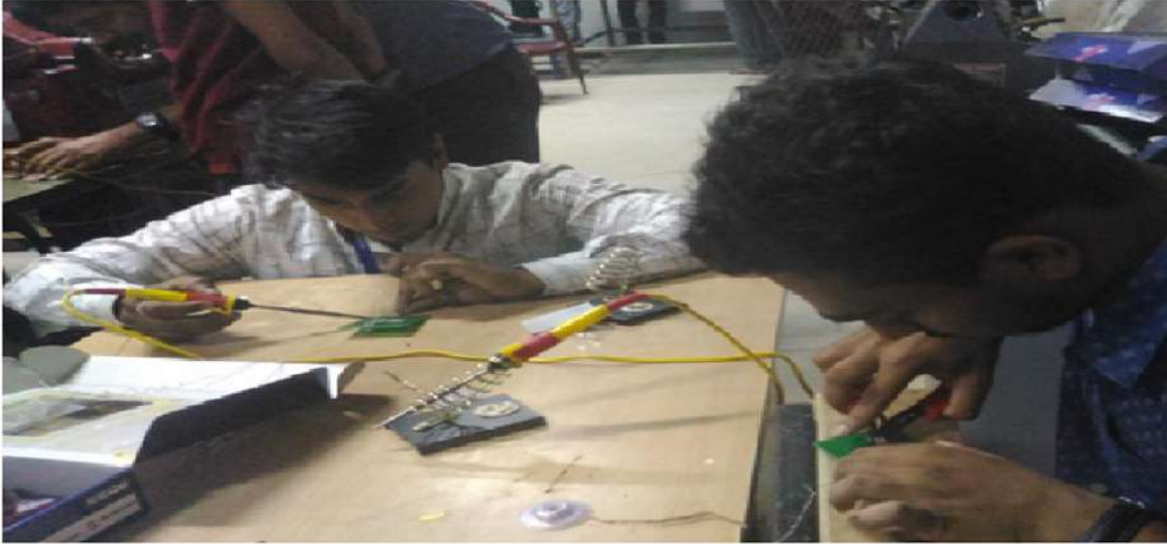
Techorizon was a “ National level project exhibition and Conference” organized by the Department of Automobile Engineering in association with Institution of Engineers India on the 21st of May 2016. The event focused on research activities in the field of Auto-tronics, Earth moving equipment, hydraulics and pneumatics, hybrid vehicles and IC engines etc.

The conference aimed at providing a forum for researchers, academicians, UG students to portray their ideologies. The conference also intended to bring together those ideologies which hold the power to contribute to the growth of society on a large scale.

The event consisted of an advisory committee comprising of some well know personalities such as Dr. R.M. Vasagam, Dr. P.K Sahoo, Mr. Madhusudhanan K, Mr. Raj Pillai etc. The technical team consisted of Dr. K Ramachandra, Dr. W.P Krishna, Dr. Shanmukha etc.

The students from different Engineering colleges exhibited their projects. Many of the students also presented their technical papers in the conference.

WORKSHOP ON “AUTOTRONICS”



Autotronics workshop was conducted on 02/04/16. The workshop highlighted the importance of electronics in to the field of automotive engineering. The students had hands-on experience in building Gesture based DC motor.

INDUSTRIAL VISIT TO VST TILLERS & TRACTORS LTD

On 13th of April 2016, students of Automobile Department visited VST Tillers and Tractors. Visit was organized with support from Institution of Engineers India.



Students were taken to various manufacturing facilities, such as engine assembly shop, inventory storage bay, Sheet metal and part treatment shop, paint shop, Engine testing facility, Vehicle testing facility and shipping facility.

WORKSHOP ON “GEOMETRIC DIMENSIONING AND TOLERANCES”



A two day workshop was held on “Geometric Dimensioning and Tolerances” in New Horizon College of Engineering in association with Indian Society of Technical Education from 17-03-2016 to 18-03-2016.

The students of third, fifth and seventh semester were part of the workshop which was held by “Fourth Dimension”. The workshop focused on the importance of geometric dimensioning and tolerances in the industry.

The workshop explained to the students about the various basic symbols and terms used to indicate the fits. The students were shown videos on how the process of dimensioning works such that it would be easier for them to understand it. The meaning of the symbols and specifications, how to properly specify the plus and the minus in GD&T were clearly explained in the workshop. Finally, a blue drafting paper which had all the symbols was displayed which created a clear picture on how GD&T was overall used in the industry.

WORKSHOP ON “UNIGRAPHICS AND HYPERMESH”

It was a 6 day workshop held from 31st of Jan 2016 to 5th of Feb 2016 in collaboration with Indian Society of Technical Education.

2-D drafting, 3-D part modeling and assembly and Surface modeling were the topics covered under Unigraphics. The students were able to get a hands on training on the modeling tool.

The workshop on Hypermesh enabled the students to create finite element models for analysis and prepare high-quality meshes in an efficient manner. This program offered the skills needed to work with geometry editing tools for preparing CAD models for the meshing process. The students gained knowledge about the Batch Meshing technique that facilitates users to mesh several files in the background to match the standards set by users.

WORKSHOP ON “DESIGN AND FABRICATION OF GO-KART”

The event was held in collaboration with the Institution of Engineers India starting from 18th January to 22nd January. The students were first taught the fundamental basics required for the smooth functioning of a go kart after which they were made to design a go kart from scratch using solid works designing software. This workshop was clearly based on the developing the knowledge and sharing the experience in Designing and Fabrication of Go-Kart. And its competitions too

The agenda for the workshop included the following:

1. Design of the complete go kart with 3D modeling.
2. Analysis of the go kart on the software.
3. Fabrication of the go kart.
4. Testing of the fabricated Go Kart.

Overall the workshop was a real boon to the students which provided hands on experience and the latest information on design and fabrication.

Expert Lectures Conducted

- Expert lecture on “ Automotive emissions and environment” by Mr. G R Reddy, Service Manager, TATA Motors was conducted on 12-05-2016 for the students of VIII sem. The session included discussion on different emission standards around the world, European emission standard, Bharath stages 1,2,3 & 4 and how fuel gradient & quality effects emission characteristics.
- Expert Lecture on “ Design and development of engines” by Mr. Yogesh Bolar, DGM (R&D), Ashok Leyland, was conducted on 13-02-2016. The session included discussion on design principles and procedures in engine design, commercial vehicle engine specifications and purpose, etc.

Guest lectures conducted

- Guest lecture on “Service related issues in off-road commercial vehicles in mining sector” by Mr. Venkatesha Babu, Executive Manager, Mahindra & Mahindra was conducted on 13-04-2016 for the students of VI semester.
The discussion included Service issues, Frequency of servicing, Service cost, Preventive Maintenance and on-board vehicle diagnostics in commercial vehicles and Mining Equipment manufacturers.
- Guest lecture on “Career Guidance and Entrepreneurship” by Mr. P Krishna Kumar, Business Development Executive, TVS training, was conducted on 04-02-2016 for the students of all semesters.
the discussion included Job opportunities for Automobile engineers, Different software packages used in industries and Motivation for Entrepreneurship.

Sports Achievements

- John Ratnam (1NH15AU404), part of college volleyball team participated in event named “Resilienz-2016” , conducted by Jain University, Bangalore from 11-05-2016 to 13-05-2016 and secured 1st place.
- John Ratnam (1NH15AU404), part of college volleyball team participated in a VTU Inter Collegiate Zonal Tournament, conducted by VTU at Cambridge Institute of Technology, Bangalore 29-02-2016 to 01-03-2016 and secured the runner up position.
- John Ratnam (1NH15AU404), part of college volleyball team participated in RNS Inter Collegiate Tournament, conducted by RNSIT, Bangalore from 27-02-2016 to 29-02-2016 and secured the 1st place.

EDITORIAL BOARD

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