

AUTO HORIZON

MAY 2017

Newsletter Issue 4

Department of Automobile Engineering

Auto Expo- Incepto 2K17

Page 1

Workshop on Hypermesh

Page 2

Auto Sketch & Auto Quiz

Page 3

Industrial visit to Sansera Engineerig Pvt Ltd

Page 4

Techorizon-National level project exhibition

Page 4

Expert Talk & Guest lectures

Page 6

Sports Achievements

Page 7

INCEPTO 2K17-AUTO EXPO



“INCEPTO-AUTO EXPO 2K17” was a unique event conducted by the Automaniacs Club of Automobile Engineering Department in the campus of New Horizon College of Engineering on the 6th of April 2017.

The term “INCEPTO” was derived from the Latin word which means perfect. The preparation for this event began long before the main day, so that we could do our part and make it close to perfect.

The day began with the riders entering the college at 10:00 AM. The bikes were parked at the basement of the Chathrapathi Shivaji Block. All the bikers arrived by 11:00 AM. The Expo was inaugurated by the principal, Dr. Manjunatha along with the president of the Automaniacs club at 11:30 AM. The dignitaries were presented with a token of appreciation by the Head of Automobile Department, Dr. Shridhar Kurse.

The dignitaries made their way into the basement to have a look at all the bikes exhibited. There were over 25 super bikes of Yamaha, Ducati, Triumph, Kawasaki, Hyosung and Aprilia. A brief description and specification was pasted on the wall along side the bike so that everyone knew what they were looking at.

After a few safety precautions, the basement was open to the general public at 12.30 PM. The riders were seated in the automobile lab where arrangements were made for them along with food and refreshments. Lunch was served to the riders at 1.30 PM.

The gates for the Auto Expo were opened till 2.30 PM, after which the bikes made their way through the lawn to the quadrangle. The bikes were protected all the way by the



security team to control the excited crowd.

There was a small photoshoot at the quadrangle after which all the bikers made their way out of the campus through the main gate.

Overall, the event was a grand success with over 1,800 people entering the basement, out of which around 200 students were from other engineering colleges. The overall estimated cost of all the super bikes displayed were 7-8 crores. One of the sponsors, Toyota, brought a special edition Etios Liva to display it. Mementos were sponsored by Umapathi films and Namma Shivmogga. Lunch for the riders were sponsored by BFC. The other sponsors included Nester, Honda and Adisesh Projects.

WORKSHOP ON HYPERMESH

A five day workshop on hypermesh was conducted for the second year students from the 21st of May 2017, which continued till the 25th of May. The common topic of this workshop was, of course, how to employ HyperWorks to solve your engineering tasks in an optimal way. The focus (or agenda) is on how to get started with a particular HyperWorks application. Overall, content and duration of the workshop takes your needs into account.

Hypermesh 12.0 software, a computer aided engineering (CAE) simulations software platform. The workshop enabled the students to create finite element models for analysis and prepare high-quality meshes in an efficient manner. The attendees had gained knowledge about the Batch Meshing technique that facilitates users to mesh several files in the background to match the standards set by users.

AUTOSKETCH

Autosketch was conducted by the SAE Club on the 2nd of March 2017 in association with Institute of Engineers, India. The competition was held at the library of New Horizon College of Engineering where the students were to sketch their designs of a car or bike on an A3 sheet provided to them. The best sketch was selected on the basis of creativity and attention to detail. Students from all the departments took part in the event, showcasing their skill and passion for automobiles. Rohan



(Automobile department) grabbed the first place followed by Vijay Mahendran (Automobile Department) and Benjamin (Mechanical Department). The event was judged by the automobile professors based on the overall creativity and design of the vehicle sketched.

AUTOQUIZ

Auto quiz was conducted by the SAE Club of Automobile Department on the 2nd of March 2017 in association with Institution of Engineering, India. The event was conducted in the MBA block auditorium. It had 2 levels, in the first round, photos were projected onto the screen and the students were asked to identify the image or answer the question asked. The students who had answered 10 or more questions correctly out of the 15 questions, were selected for the next round. In the second round, the selected students were split into 6 groups and asked questions in the rapid fire round. Overall 12 prizes were distributed.



INDUSTRIAL VISIT TO SANSEERA ENGINEERING PVT. LTD



The students of Automobile Department had gone for an industrial visit to Sansera Engineering Pvt. Ltd, Bommanahalli on the 20th of April 2017. Visit was organized with support from SAE INDIA. The students were accompanied by Prof. Keerthana and Prof. Sunil Prashanth. After entering the premises of the plant, they were made to assemble in a conference room, where the students were briefed about the company and the components manufactured in the plant. The students were split into 2 groups and each group was guided by one employee around the manufacturing plant. The students got to witness the manufacturing process of connecting rod used in Toyota and Ford engines. The company also manufactures bearings and rocker arms.

TECHORIZON-NATIONAL LEVEL STUDENT PROJECT EXHIBITION





Techorizon-2017 was a “National level project exhibition”, held in New Horizon College of Engineering on the 27th of May 2017. Techorizon was organized in association with ISTE, IPE, Ministry of MSME, etc.

The chief guest for the event was Mr. Vikas Reddy-Head of Amazon Robotics launch, EU & Japan, who also inaugurated the event.

A number of projects were showcased by the students of different colleges all over India. The 8th semester students of Automobile Department also took part in the event and below are the projects taken up by them

- Simulation of Vehicle suspension system using Simulink.
- Compressed air engine with implementation of pre-heater.
- Identification and analysis of defects in PDM pump.
- Modification of fuel tank for proper suction of fuel at higher gradients for low fuel conditions.
- Application of nanoparticles in fuel filters.
- Experimental study on the use of Edible and Non Edible lubricant in an IC engine.
- Fabrication of voice operated intelligent wheelchair.
- Case study and failure mode & effects analysis on steering fluid filter.
- Enhancing assembly line process with virtual manufacturing techniques.
- Control in 2 stroke engine with electrical catalyst heating.
- Design, fabrication and testing of aqua silencer for 4 stroke engine.

Expert Talk

- An expert talk on “Bio-Diesel and Climate Change”, by Mr. Avinash (Asst. Prof. CIIRC– Jyothi College of Engineering) was conducted by Auto Avishkar club in association with Indian Institution of Safety and Environment on 24th March 2017 for students of all semesters.

The session included discussion on Effects of Pollution on Climate change and global warming and challenges faced to bring Bio-Diesel as the main fuel.



- An expert talk on “Importance of Machine Drawing”, by Mr. Gnanashekar (Business Development Manager, Fourth Dimension) was conducted on 21st March 2017 for students of IV semester.

The session included discussion on Computer aided drawing, industry standards and software packages.

Guest Lectures

- Guest lecture on “ATV Overview” by Mr. Pratha K, Campus ambassador , Elite Techno Groups was conducted on 10-05-2017 for the students of VIII sem.
- Guest lecture on “Bridging the gap between academia and industry” by Mr. Parimal Priyadarshi, CEO Brain Storming Labs was conducted on 17-02-17.

Sports Achievements

- John Ratnam (1NH15AU404) and Prajwal(1NH16AU019), part of college volleyball team participated in event named “Rajalakshmi Intercollegiate Tournament” , conducted by MVJCE, Bangalore on 13-05-2017 and secured 1st place.
- John Ratnam (1NH15AU404) and Prajwal (1NH16AU019), part of college volleyball team participated in event named “Sai Leo Trophy” , conducted by Sairam College of Engg., Bangalore from 03-05-2017 to 04-05-2017 and secured 3rd place.
- Akarsh (1NH13AU064) and Sumukh (1NH14AU053) part of college cricket team participated in event named “Inter Collegiate Cricket Tournament” , conducted by UVCE, Bangalore from 02-05-2017 to 05-05-2017 and secured 1st place.
- John Ratnam (1NH15AU404) and Prajwal Kumar (1NH16AU019), part of college volleyball team participated in event named VTU Inter Zonal Tournament, conducted by VTU (at BMSIT, Bangalore) from 31-03-2017 to 01-04-2017 and secured the runner up position.
- John Ratnam (1NH15AU404) and Prajwal Kumar (1NH16AU019), part of college volleyball team participated in event named VTU Inter Zonal Tournament, conducted by VTU (at NHCE, Bangalore) from 25-03-2017 to 26-03-2017 and secured the 1st place.
- John Ratnam (1NH15AU404) and Prajwal Kumar(1NH16AU019) part of college volleyball team participated in event named “ National Cultural and Sports Festival Revels' 2017”, conducted by VTU (at BMSIT, Bangalore) from 08-03-2017 to 11-03-2017 and secured the 1st place.
- John Ratnam (1NH15AU404) and Prajwal Kumar(1NH16AU019) part of college volleyball team participated in event named “ B S Narayan Memorial Volleyball Tournament”, conducted by VTU (at BMSIT, Bangalore) BMSCE, Bangalore from 08-03-2017 to 11-03-2017 and secured the 1st place.

EDITORIAL BOARD

Publisher: Dr. Shridhar Kurse, HOD, Dept. of Automobile Engg., NHCE.

Faculty : Mr. Sunil Prashanth Kumar, Asst. Professor, Dept. of Automobile Engg., NHCE

Student : Ashwin Unnikrishnan(1NH14AU065), VI Semester.

Arjun B C (1NH14AU005), VI Semester.