

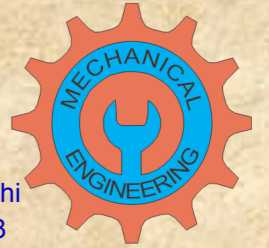
- ◆ C.Shangavi, Second year student has participated in the event **Reverse Engineering** in the workshop **KURUSHETRA'2015** held at College of Engineering, Guindy, Chennai from 28/01/2015 to 31/01/2015.
- ◆ Krishnapriya, Second year student has participated in the event **Reverse Engineering** in the workshop **KURUSHETRA'2015** held at College of Engineering, Guindy, Chennai from 28/01/2015 to 31/01/2015.
- ◆ B.Akshay Rahul, P.Ashik, P.Bhuvaneshwaran & S.Harikrishnan, Second year students have Participated in the workshop on Welding & Sheet metal conducted by **SAEINDIA** in Kalasalingam University, Srivilliputhur from 30/01/2015 to 31/01/2015.
- ◆ D.Gokul, Second year student has participated in Automobile mechanics and IC engines workshop **Pravega'2015** held at Indian Institute of science, Bangalore from 30/01/2015 to 01/02/2015.
- ◆ K.Saravanan & V.Rajkumar, have attended the workshop on "**Drone Tech, Sensors & Internet of things**" held at Indian Institute of Technology(IIT), Chennai on 27/02/2015.
- ◆ Muthumani, Third year students has participated in **Arduino workshop** during **Flight'15** held at Madras Institute of Technology from 27/02/2015 to 28/02/2015.
- ◆ Aravindkumar, vaishnav kumar, B.Vineeth, S.Venkatesan, M.Jason Daniel & Harwin ramoj, second year students have participated in **Jet workshop** during **Flight'15** held at madras institute of technology, chennai from 27/02/2015 to 28/02/2015.
- ◆ R.M.GuruVignesh Raja second year student has participated in **Composite workshop** during **Flight'15** held at madras institute of technology, Chennai from 27/02/2015 to 28/02/2015.
- ◆ M.Jason Daniel, Second year student & V.Raj kumar, Third year student have participated in **BIZENCE'2015**, A National Level B-Plan competition Conducted by Entrepreneurship Development cell (EDC) in Graduate school of technology(SIES), Nerul on 24/02/2015.
- ◆ M.Jason Daniel & S.Aravind kumar, Second Year Students were the members of the team that participated in **The Singapore Autonomous Underwater Vehicle Challenge 2015, Singapore** on 08/03/2015.

DEPARTMENT OF MECHANICAL ENGINEERING  
 PANIMALAR INSTITUTE OF TECHNOLOGY  
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# PANIMALAR INSTITUTE OF TECHNOLOGY MECHRONICLE

A Newsletter of Mechanical Engineering Department  
 Affiliated to Anna University - Chennai, Approved by AICTE - New Delhi  
 Bangalore trunk Road, Nazarathpet, Poonamallee, Chennai - 600123



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Issue 02

## Department Activities

### Organized Events

- ◆ The professional society named **Society of Automative Engineers (SAE)** "**PIT-SAEINDIA COLLEGIATE CLUB INAUGURAL FUNCTION**" was organized on 08.01.2015.
- ◆ One day National Level Technical Symposium **MECHREVZ '15** on 07.03.15. **Dr.N.Nithyanandan Professor and Head** welcomed the gathering and introduced the Chief Guest. **Dr. T. Jayanthi, Principal** delivered the presidential address. **Mr.JoseThangamani,B.E.,MBA., Corporate vertical marketing head-MRF** inaugurated the symposium and released the souvenir. During his inaugural address he highlighted the importance of innovative thinking and the power of novel ideas. Events like Paper

Presentation, Technical Quiz, CAD modeling, Water Rocketry etc., were conducted and around 100 students of various engineering colleges from all over the state participated. It has been providing a platform for the budding mechanical engineers to display their skill.

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Symposium souvenir released by the Chief guest and the same was received by the principal.

Principal Dr.T.Jayanthi (start from left), Chief Guest Mr.Jose Thangamani, Marketing Head - MRF, Dr.N.Nithyanandhan Professor and Head, Dr.Sankar, Professor and Head of Electrical and Electronics Department

### Short term Course

- ◆ Short Term Course on Non - Destructive Testing for III Year students during the period 02/03/2015 to 11/03/2015.

### Workshop:

- ◆ One day National level workshop on “Nano Materials: Synthesis, Characterization, and Applications (NSCA - 2015) held on 25<sup>th</sup> March 2015.

### Guest Lecture:

- ◆ Guest Lecture on “Micromachining” given by Dr.P.Hariharan., Professor and Head, Department of Manufacturing Engineering, College of Engineering, Guindy, Chennai held on 23<sup>rd</sup> January 2015.
- ◆ Guest Lecture on “Non - Destructive Testing” given by Mr.K.Ravindran Managing Director, Southern Inspection Services, Chennai held on 28<sup>th</sup> January 2015.
- ◆ Guest Lecture on “Abrasive Water Jet Machining” given by Dr.M.Kanthababu, Professor, Department of Manufacturing Engineering, College of Engineering, Guindy, Chennai held on 30<sup>th</sup> January 2015.

### Seminar:

- ◆ One day Seminar on “Tool and Die Making” given by Mr.R.Prabhakaran, Senior Manager T & D, Lucas - TVS Ltd Chennai held on 24<sup>th</sup> January 2015.

### Project Expo:

- ◆ One day Project Exhibition for final year students on 21.03.15. The main objective of the Project Exhibition is to develop the creative thinking and technical skill among the students. The students exhibited and demonstrated their individual project. The external expert to evaluate their project was Mr.Gnana vel, Professor and H.O.D, Saveetha University, Chennai. K.S.Arun, R.Bala anand, K.Baskaran, R.Daniel (III Year MECH Students) presented and demonstrated the project entitled “Utilisation of Green Energy From R&A/C System” and won the First Prize.

### Faculties Achievements:

- ◆ **Dr.N.Nithyanandan, Mr.K Balasubramanian, Mr.S.Manohanran, Mr.C.Velmurugan Mr.B.Dhanasakkaravarthi** published a paper “**Reduction of HC/CO Emission From SI Engine By Using Transition Metal Oxide Catalyst**” International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 10, Number 4(2015), pp.11385-11392
- ◆ **Dr.N.Nithyanandan**, published a paper “**Simulation on Inlet Ports of Six Cylinder Diesel Engine To Obtain The Swirl Motion**” International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 10, Number 7
- ◆ **Mr.B.Dhanasakkaravarthi, Mr.K.Balasubramanian, Mr.S.SanthoshKumar** published a paper “**Structural Analysis of Fillet Weld Based on the Shape of the Weld Bead By Using Ansys**”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, No 10 (2015)

- ◆ **Mr.B.Dhanasakkaravarthi** published a paper “**Aircraft Evacuation System**”, International Journal of Applied and Engineering Research, ISSN 0973-4562, Vol. 10, No.39 2015
- ◆ **Dr.I.Paul Theophilus, Mr.B.Dhanasakkaravarthi, Mr.R.Naveen Kumar, Mr.V.Sharun**, published a paper on “**Comparative Study on Jute and Kneaf Fiber Composite Material**”, International Journal of Applied Sciences and Engineering Research, ISSN 2277-9442, Vol. 4, 2015
- ◆ **Ms.R.Vigithra, Mr.S.Shanmugasundram** published a paper on “**Nano Material Thermal-Spraying Process**”, International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 10, Number 7, 2015, pp.16627-16636
- ◆ **Ms.R.Vigithra** published a paper on “**Robot Leg Mechanism**”, International Advanced in Science, Engineering and Technology, ISSN 2321-9653, Vol. 3, Issue 4 2015
- ◆ **R.NaveenKumar** et al., (2015) “Comparative study on jute and kenaf fiber composite material”, IJASER, Vol.4, Issue 2, ISSN 2277-9442, March-April 2015.
- ◆ **Mr.K.Balasubramanian, Dr.N.Nithyaanandan, Mr.S.Manoharan** published a paper on “**Extraction of Green Energy From Refrigeration Systems**” International Journal of Science and Research, ISSN:2319-7064, Volume 4, Issue 1 January 2015
- ◆ **Mr.K.Balasubramanian** published a paper on “**Waste Heat Recovery in R & AC System**” International Journal of Science and Research, ISSN:2319-7064, Volume 4, Issue 1 January 2015

### Student Activities

#### Awards & Recognition:

- ◆ R.Balaanand, R.Daniel, K.Baskaran & K.S.Arun, third year students have attended the workshop on manufacturing technology conducted by **SAEINDIA** in Kalasalingam University, Srivilliputhur from 30/01/2015 to 31/01/2015 and secured **First position**.
- ◆ L.Narendhar,C.Sephrin Geno,Y.S.Siva prasad,N.S.Mani & P.Manikandan, Third year students participated in the Zonal Round of the Indo-US Robo League (IURL) during Robotics Workshop held at Government College of Technology,Coimbatore on 21/03/2015 & 22/03/2015 and secured III Position.

#### Workshop attended

- ◆ M.Jason Daniel and Arjun Prakash, Second year students have attended the workshop on automobile training program, **vehicle overhauling** in Indian Institute of Technology (IIT), Chennai from 04/01/2015 to 06/01/2015.