

## DEPARTMENT OF MECHANICAL ENGINEERING **NEWS LETTER**

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### **Vision**

To provide quality education of international standards in Mechanical Engineering and promote professionalism with ethical values, to work in a team and to face global challenges.

### **Mission**

- To provide an education that builds a solid foundation in Mechanical Engineering.
- To prepare graduates for employment, higher education and enable a lifelong growth in their profession.
- To develop good communication, leadership and entrepreneurship skills to enable good knowledge transfer .
- To inculcate world class research program in Mechanical Engineering.



### **H.O.D's Desk**

Mechanical branch of engineering is recognized and accepted everywhere internally for its output nature and economy benefits that it brings out to mankind. Various fields from automobile engineering to the present space technology are examples to them. We, engineers of India, can be proud that our country is progressing fast in these areas. The recent success in space technology by launching PSLV C-34 adds confidence to us. Hard and continuous sincere work can bring excellent output. Let us fix our targets very specific and proceed systematically, so that the success will be ours in near future.



## Departmental Activities



**Department of Mechanical Engineering (AMES)** in association with SAEINDIA Collegiate club initiated (30 hour training) Add on Course on “Sheet Metal Design Using SOLIDWORKS” by Mr.Lippin Pauly and Mr.Christy V Vazhappilly for Mechanical Engineering students from 16-03-2016.



AMES in association with SAEINDIA Collegiate club organized an expert talk on “Application of FEM in Biomedical Engineering” by Mr. C Karunakaran, Lead Instructor, MAHA Industrial Skill Development Centre, Vellore, Tamil Nadu, on 11-03-2016.

## Staff Achivements



Mr.Lippin Pauly, Mr.Christy V Vazhappilly & Mr.Melvinraj C R published a research paper that had already presented at international conference (ICETEST), titled “**Numerical simulation for solar hybrid photo-voltaic thermal air collector**” in Elsevier Procedia Technology 2016.

## Students Achivements



Mr.Suneeth sukumaran.and five students of S8ME-B (Vipindas,Nidhin M J, Midhun Unnikrishnan, Nygin Jose, Rishikesh P) published their Mini Project as a research paper titled “**Fabrication and Analysis of solar powered air cooler**” in International Journal of Engineering and Science (IJES), Vol.05, Issue 01, April 2016



published their Main Project as a research paper titled “**Experimental Investigation Of Waste Heat Recovery System For Household Refrigerator**” in International Journal of Engineering and Science (IJES), Vol.06, Issue 04, April 2016.



Mr.Suresh O.P., Edwin Joy, Edwin Chalissery, Balakrishnan C.R, Adersh R, Abi Daison and Elias K Presented a Paper titled “**Design And Fabrication Of Reverse Gear Mechanism In Two Wheeler For Handicapped People**” at National Conference on Innovative Developments In Engg & Advanced Science Developments In Engg & Advanced Science , March 30-31, UKF College Of Engg & Technology, Kollam.



Ms. Sushmitha S. & Mr. Vipin Das of S8ME-B, awarded the “**Best Student in Mathematics**” in the Academic Year 2015-2016.



Mr. Nasimanto Joseph and Nithin T N students of S4 ME B participated in SRISHTI Project expo conducted at Jyothi engineering college.



## Students Achivements



**Mr. Denzil James, Edwin Babu, Edwin Joseph, Geo Martin, Francis P X** students of S6 ME A participated in SRISHTI Project expo conducted at Jyothi engineering college.



**Mr. Francis P X (volley ball), Abijith T (football), Arif P (football)** students of S6 ME A participated in D-zone competition & PECSAGA



**Mr. Abhinav K P, Arun Krishnan, Jaison Xavier S** students of S6 ME A participated in python workshop conducted by ISTE at Jyothi engineering college



**Mr. Vipin Das** of S8 ME-B qualified Graduate Aptitude Test in Engineering for scoring **360** in the examination held in February 2016.



**Mr. Raymon Charly, Robin Wilson, Royal Wilson** students of S4 ME B participated in SRISHTI Project expo conducted at Jyothi engineering college.

**Mr. Raymon Charly, Robin Wilson, Royal Wilson** students of S4 ME B participated in Tech Fest of NSITE conducted by Nehru engineering college at Jawahar college of engineering, Pambady.



**Mr. Nithin M K** student of S4 ME B won first prize in shotput & second in discuss throw in sports day 2016 conducted at Jyothi engineering college.

**Mr. Varun Menon** student of S6 ME B Won first prize in techathlon by ICT ACADEMY and UST global at technopark Trivandrum

**Mr. Vishnu Krishnan & Vishnu M** Won first prize in startup I3 by Kerala startup mission at CIST, Moovattupuzha

**Mr. Varun Menon** student of S6 ME B reached semi-final in DZone table tennis event & Winner in PECSAGA Table Tennis event



**Rahul M** student of S4 ME B won first prize in 200m, 400m race and third prize in 100m race. Also won a title of individual champion of sports day 2016 in sports day conducted at Jyothi engineering college.



**Murali P R, Nithin T N, Rahul M, Ronit Raphel, Nithin N Menon, Suvish T K, Lijoy John, Nikhil J Ukken, Nithin M K** students of S4 ME B won first prize in 'nadodiganam' in tharunyam arts fest 2016 conducted at Jyothi engineering college.



## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)**

**PEO I:** Graduate Engineers shall have strong practical and theoretical exposure in the field of Mechanical Engineering and will contribute to the society through innovation and enterprise.

**PEO II:** Graduate Engineers shall have global outlook and technological leadership, good employments or opt for higher studies/research and have creative thinking to initiate and develop innovative ideas.

**PEO III:** Graduate Engineers shall have excellent teamwork, communication and interpersonal skills, having high morals and ethical values.

### **PROGRAMME OUTCOMES**

- a. Ability to apply knowledge of mathematics, science and engineering in the field of Mechanical Engineering.
- b. Ability to design and conduct experiments, analyze and interpret data and results in Mechanical Engineering.
- c. Ability to design Mechanical systems, components, or processes to meet the desired needs within realistic constraints such as health and safety, manufacturability and sustainability with economic, environmental, social, political and ethical considerations.
- d. Ability to work individually as well as in multidisciplinary teams as a member or as a leader to accomplish the common goal.
- e. Ability to identify, analyzes, formulate, and solve engineering problems.
- f. Knowledge of professional and ethical responsibility.
- g. Ability to communicate effectively in any area of their field to the industry, fellow beings and society.
- h. Broad knowledge necessary to understand the impact of engineering solutions on individuals, organizations and society.
- i. Ability to engage in life-long learning to update their knowledge to keep pace with changes caused by dynamic nature of engineering field.
- j. Awareness of the contemporary issues that help to integrate advanced and sustainable solutions in the user environment.
- k. Ability to use the techniques, skills, and modern engineering tools, software and equipment to analyze and model complex engineering solutions.





Mr. Arun raj A, Colin Varghese, David Babu, Delwin Kuriyakose, Harikrishnan.A.S, and Irshad M presented paper titled "Four wheel steered multi-utility vehicles-Review" at National Conference on **Innovative Innovative Developments In Engineering & Advanced Science developments In Engineering & Advanced Science**, March 30-31, UKF College Of Engg & Technology, Kollam



Mr. Krishnadas M, Kiran B Chirayath, Joel J Manjaly, Joemon Benny, Joseph Anto students of S8 ME B got second prize in SRISHTI Project expo conducted at Jyothi engineering college.

Mr. Krishnadas M, Kiran B Chirayath, Joel J Manjaly, Joemon Benny, Joseph Anto students of S8 ME B got best promising start up award conducted by TKM college of Engineering, Kollam.

Mr. Krishnadas M, Kiran B Chirayath, Joel J Manjaly, Joemon Benny, Joseph Anto students of S8 ME B got best start up project award by federal bank.

Mr. Krishnadas M, Kiran B Chirayath, Joel J Manjaly, Joemon Benny, Joseph Anto students of S8 ME B got first prize in project expo conducted by FISAT Karukkutty.



Ms. Sushmitha S. of S8ME-B, awarded the "**Best Outgoing Student**" of Mechanical Engineering Batch during the Academic Year 2015-2016.

Ms. Sushmitha S. of S8ME-B, won the "**Academic Excellence Award**" for scoring **9.36 SGPA** in the Fifth Semester B.Tech Examination of University of Calicut held in December 2014.

Ms. Sushmitha S. of S8ME-B won the "**Certificate of Proficiency**" for securing **first place** in the Fifth Semester B.Tech Examination of University of Calicut held in December 2014.

Ms. Sushmitha S. of S8ME-B won the "**Certificate of Proficiency**" for securing **first place** in the Sixth Semester B.Tech Examination of University of Calicut held in May 2015.

Ms. Sushmitha S. of S8ME-B won the "**Sunny Diamonds Excellence Award**" for being selected the **best all-rounder** for the Academic Year 2015-2016.

Ms. Sushmitha S. of S8ME-B, won the "**Academic Excellence Award**" for scoring **9.63 SGPA** in the Sixth Semester B.Tech Examination of University of Calicut held in May 2015.



Mr. Dinay KP, Jino Joshi, Aravind M S students of S6 ME A participated in vehicle body engineering workshop conducted by SAE INDIA SOUTHERN SECTION at Anna University, Guindy, Chennai.

Mr. Raymon Charly, Robin Wilson, Royal Wilson students of S4 ME B participated in Tech Fest of KSCSTE and KTU conducted at Amaljyothi engineering college, Kanjirapilly Kottayam.

Mr. Raymon Charly, Robin Wilson, Royal Wilson students of S4 ME B participated in seminar of SYPM conducted at Lulu Convention Centre, Thrissur.

Mr. Vinu Varghese student of S6 ME B reached semi-final in PECSAGA basketball event



## Departmental Activities



**SAEINDIA** Collegiate club officially inaugurated by Dr. S. Karunanidhi Scientist 'G' and Director, Control Systems Laboratory, Research Centre Imarat (RCI), DRDO, Hyderabad on 22-01-2016.



**AMES** in association with SAEINDIA Collegiate club organized an expert talk on "Mechatronic Systems" by Dr. S. Karunanidhi Scientist 'G' and Director, Control Systems Laboratory, Research Centre Imarat (RCI), DRDO, Hyderabad on 22-01-2016.



**AMES** in association with SAEINDIA Collegiate club and IE(I) student chapter organized an expert talk on "Vidya Science of happiness" by Dr. S. Karunanidhi Scientist 'G' and Director, Control Systems Laboratory, Research Centre Imarat (RCI), DRDO, Hyderabad on 26-02-2016.

A faculty development program organized by Department of Mechanical engineering in association with SAEINDIA on "Robotics and Industrial Automation" held during 10th to 11th February 2016. Following Resource persons handling various sessions, Dr. A.P Sudheer, Assistant Professor, NIT Calicut. Mr.P.Suresh, Senior Research Fellow, IIT Madras & Former Div.Manager TATA Motors. Mr.Sreekanth M, Research Fellow NIT Calicut. Mr.Jobin Varghese, Research Fellow NIT Calicut. Participates also visited various Research Laboratories.

