

## Departmental Activities



A Faculty Development programme organized by Department of Mechanical Engineering in association with ISTE Mechanical Chapter and SAEINDIA Collegiate Club on "Reverse Engineering" held during 31<sup>st</sup> March and 1<sup>st</sup> April, 2017. Following Resource persons handling various sessions, Dr. R Ramakrishnan, VIT University, Vellore, Mr. Joseph V. A, Technical Head- Kyeesha Techno Solutions, Mr. Shiju George, Founder - Kyeesha Techno Solutions, Mr. Omkar

Upadhyay, Director- Cimtrix Systems (P) Ltd, Bangalore, Mr. Nijesh Nandan, CAD Engineer- CADD Centre, Thrissur. Mr. Biju CV and Mr. Christy V Vazhappilly are the coordinators of this program. Live demonstration of 3-D scanning and 3-D printing is the highlights of this program. Altogether 53 participants, including interstate participants were benefitted by the programme.



Christy V. Vazhappilly, Melvinraj C.R, Nikhil N.S, T.R Sreesastha Ram, Arun Raj A, Lippin Pauly, Nice Menachery and Sheik Afthab S Represented the college staff team from the Dept. of Mechanical Engineering. Jyothi team secured Runners up - 1st All kerala Professor's Cricket Tournament at FISAT.



Christy V. Vazhappilly secured the '**BEST BATSMAN OF THE TOURNAMENT**' award. 1st All kerala Professor's Cricket Tournament at FISAT.



Mechanical Engineering Department of Jyothi Engineering College, Cheruthuruthy in association with SAE (India), Kerala Start up mission and IEDC conducted 48hour hackathon Agora'16 - **GERIATRIC CARE AND MANAGEMENT**. Total 29 teams comprising 130 students from five Departments participated in the competition. The chief guest of the event was Mr Nirmal George, Co-Founder BUILD-NEXT. First prize of five thousand Rupees and Trophy was awarded to Mr. Deepak Vijayan, Ms. Nimitha R Shenoy, Mr. Anto P.K, Mr. Jackson Xavier and Mr. Besto Goerge of Electrical Engineering students for their work on Tongue Driven Wheel Chair. Mr. Vishnu Saseendran, Mr. Anand Rajan, Mr. Varun Krishnan, Mr. Thejus P.M., and Jithu Selwyn bagged second prize for their work on Smart Shoe for Geriatric Care.



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## NEWS LETTER

### DEPARTMENT OF MECHANICAL ENGINEERING

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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



In the wake of NBA accreditation of B Tech programme and NAAC accreditation of the institution, the visibility of the Dept., has improved. Efforts are to be made for further improvement of results and placements. Our students' performance in competitive examinations is to be improved and we should target at a higher number of graduates with valid qualifying scores admitted to reputed institutions in India and abroad.

## Staff Achievements



Mr. Parveen Raj (APME) attended a short term training programme on “**Research Methodology**” organized by Dept of EEE in association with ISTE JECC chapter during 11th – 15th January 2017 at Jyothi Engineering College Cheruthuruthy Thrissur.



Mr. Jithin K. Kuriakose (APME) attended an FDP on “Advanced Mechanics of Solids” organised by KTU at Adi Shankara College on 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Jan 2017. & 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> January 2017.



Mr. Suresh O.P. (APME) attended a one week Short-Term course on "Advanced Machining Techniques" organized by Department of Mechanical Engineering, Pondicherry Engineering College, Puducherry.



Mr. Jithin K. Kuriakose (APME) attended an FDP on “An over view of mathematics in research” organized by BSH Dept. of JECC.

## Students Achievements



Nixon Johny, Murali T R, Manu Mathew P.S. of S6ME-B presented a paper on 'CARBON DIOXIDE CAPTURE FROM FLUE GAS' in National Conference on Latest Trends in Mechanical Engineering (NCLTME 2017) held at NSS PALAKKAD.



VARKEY F THACHIL & NIKHIL CHACKO of S8ME-B got 2<sup>nd</sup> prize on startup i3 conducted by Kerala startup mission at Rajagiri School of Engineering & Technology.



Nisha Sherief (APME) & Praveen P, Mebin Devasia, Linus C Lawrence, Albin E.J, Nibin F Bennan of S8ME-B published a paper entitled “GASOLINE VAPOUR RECOVERY SYSTEM” in International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 -0056 Volume: 04 Issue: 01 | Jan -2017 ISSN: 2395-0072.



Roysan K Wilson, Sam Thomas, Sanal V S, Sanju Rappai, Arun K.R of S8ME-B got 1<sup>st</sup> PRIZE in NON CIRCUIT CATEGORY for SRISHTI PROJECTR EXPO on the topic “FABRICATION OF AQUATIC WEED REMOVER”.



NITHIN M K , LIJOY JOHN , MURALI T R , RAHUL M , NITHIN N MENON of S6ME-B participated in the ‘NADODIGANAM’ competition of college arts day 2017 and won the second prize.



## 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 (POs)

- Ability to apply knowledge of mathematics, science and engineering in the field of Mechanical Engineering.
- Ability to design and conduct experiments, analyze and interpret data and results in Mechanical Engineering.
- 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.
- Ability to work individually as well as in multidisciplinary teams as a member or as a leader to accomplish the common goal.
- Ability to identify, analyzes, formulate, and solve engineering problems.
- Knowledge of professional and ethical responsibility.
- Ability to communicate effectively in any area of their field to the industry, fellow beings and society.
- Broad knowledge necessary to understand the impact of engineering solutions on individuals, organizations and society.
- Ability to engage in life-long learning to update their knowledge to keep pace with changes caused by dynamic nature of engineering field.
- Awareness of the contemporary issues that help to integrate advanced and sustainable solutions in the user environment.
- Ability to use the techniques, skills, and modern engineering tools, software and equipment to analyze and model complex engineering solutions.