

Newsletter
MECHFEEED



Department of Mechanical Engineering

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St. Thomas College of Engineering & Technology

Kozhuvallur, Chengannur, Alappuzha, Kerala



Vision

To produce Mechanical Engineers with technical and moral competence.

Mission

- M1 Implement effective teaching and learning process through defined academic processes.
- M2 Provide conducive platform for the institute-industry interaction for our faculty and students
- M3 Encourage socio-environmental engagement with internal and external stakeholders.

Program Educational Objectives

PEOI: Resolve Engineering Challenges

Portray professional skills necessary to formulate, resolve and analyse engineering problems.

PEOI: Team Work

Exhibit team work, empathy and interpersonal skills in the organization.

PEOI: Life Long Learning

Upgrade latest knowledge and skills required for professional and organization growth.

Program Specific Outcomes

PSOI: Professional Skills

Acquire technical skills like design, manufacturing, quality control and inspection in mechanical engineering projects.

PSO2: Design and Development Skills

Ability to design and analyze the mechanical components and systems for manufacturing.

I am glad to note that Department of Mechanical Engineering is coming up with newsletter. St, Thomas College of Engineering and Technology has been doing a wonderful job in technical education. I extend my heartiest congratulations to HOD of the department, distinguished faculties, students and the entire team for their initiative and wish them all the best.



Er. Jose Thomas
Secretary

St.Thomas College of Engineering and Technology has been playing a vital role in contributing immensely towards promoting technological, engineering and technical education. It gives me on immense pleasure to note that Department of Mechanical Engineering is coming up with its 2nd issue of the Newsletter "MECHFEEED". I extend my heartiest congratulations to the entire department for their initiative and wish them all the best.



Dr. Shajan Kuriakose
Principal

I am very happy that Department of Mechanical Engineering is releasing a 2nd issue of newsletter "MECHFEEED". The newsletter aims to bring into view about various academic activities, functions and happenings in the department held in the academic year 2018-2019. I sincerely congratulate, appreciate and honour the entire department faculties and students for the initiative. Also, I invite readers of "MECHFEEED" for their contribution and suggestions for the forthcoming issues.



Mr. Jerrin Joy Varugheese
HOD ME

WELCOME TO THE TEAM



MR. PRAVEEN KUMAR P

Mr. Praveen Kumar P joined as Assistant Professor during the academic year 2020-2021. He had industrial experience of 2.5 years in HVAC field and 4 years of teaching experience.



**MR. ROSHIN THOMAS
VARUGHEESE**

Mr. Roshin Thomas Varugheese joined as Assistant Professor during the academic year 2020-2021. He completed his ME from NIT Rourkela. He has a total teaching experience of 4.5 years in various Engineering Colleges across Kerala.

Workshops

The screenshot shows a Zoom meeting interface. The main window displays a presentation titled "Why BS VI" with four sections: **NO_x – Oxides of Nitrogen** (with an eye diagram and text "Irritation to Eyes, Lungs and Skin"), **CO – Carbon Monoxide** (with a diagram of people and text "Combines with Hemoglobin to form carboxyhemoglobin"), **HC – Unburnt Hydro carbon & PM – Particulate Matter** (with a lung diagram), and **PN – Particulate Number** (with a diagram of a filter). The bottom of the screen shows a toolbar with icons for participants, chat, and other controls. On the right, a "Participants" panel lists attendees: Dr. Shajan Kurlikose, HOO-ME, ABHUTH K V, ABHUTH T A, ALAN FERNANDEZ, ALLEN JOHN ABRAHAM, arackalfrancis (Guest), ARJIT RAJ, and ASHWANTH P K.

BS-IV EMISSION NORMS

An expert talk on “BS-IV Emission Norms” was organized for third & fourth year Mechanical Engineering students by the department. The session was conducted by Er. MIDHUN V S, Assistant General Manager, Ashok Leyland-Chennai .

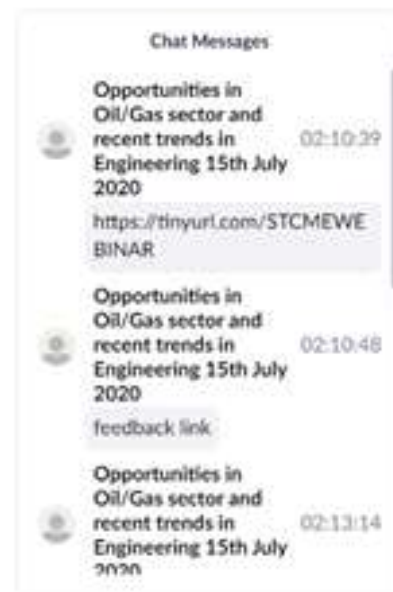
This program helped the students to get more knowledge about the recent development in automobile field to control the environmental pollution. This session helped them to understand the importance to implement BS-VI norms in developing nation like India and different measures taken by automobile manufacturers to achieve the same.

NANOTECHNOLOGY FOR MECHANICAL ENGINEERS

The screenshot shows a presentation slide titled "Nanofluidics" with a sub-heading "Nano needles". It features a large image of a forest of nano-needles on the left and a 2x2 grid of images on the right showing a needle, a hand holding a needle, and two microfluidic chips. A small video inset in the top right corner shows a person speaking. The source is cited as "Source: Higgins et al. 2013". The EC-SENS logo is visible in the bottom left corner.

An expert talk on “Nanotechnology for Mechanical Engineers” was organized for Mechanical Engineering students by the department. The session was conducted by Dr. Dilu George Mathew, Chief Executive Officer, EC-SENS.

With unique experience in nanoscale electrical engineering, sample transport and surface functionalization, EC-SENS develop extremely sensitive and selective, plug and play health care technology.



Opportunities in Oil/Gas sector and Recent Trends in Engineering

An expert talk on “Opportunities in Oil/Gas sector and Recent Trends in Engineering” was organized for Final year Mechanical Engineering students by the department. The session was conducted by Mr. Renju M.G. (Executive Director, Techshore Inspection Services, Kochi).

Mr. Renju.M.G. explained the technologies used in processing of Oil & Gas and also explained the field facilities required for the processing of Oil & Gas. The session helped the students to clearly understand the different stages in the processing of Oil & Gas. Students of S7 Mechanical Engineering, HOD and faculties attended the whole session.

Intellectual Property Rights



SAEISS Cochin Division in association with the SAE Collegiate Club of St Thomas College of Engineering and Technology, Chengannur has organized a lecture meet on “Intellectual Property Rights” on 19th June 2021. The meet was held through the online platform WebEx which was attended by over 170 participants including students and faculties from different engineering colleges as well as delegates from industries.



Publications & Journals

2020-2021

Pratheesh G Panicker & Shajan Kuriakose (2020) Parameter Optimisation of Squeeze Casting Process using LM 20 Alloy: Numeral Analysis by Neural Network and Modified Coefficient-based Deer Hunting Optimization, Australian Journal of Mechanical Engineering.

DOI: 10.1080/14484846.2020.1842306

Abraham, Biju & Kuriakose, Shajan. (2020). Biodiesel mixtures with additives as alternative fuels for direct injection diesel engine. AIP Conference Proceedings. 2263. 020008.

DOI: 10.1063/5.0017126.

Mangalathu, Georgekutty & Kuriakose, Shajan. (2020). Effect of nanoparticle additives to biodiesel on performance and exhaust emissions in a diesel engine. AIP Conference Proceedings. 2263. 020006.

DOI: 10.1063/5.0017197.

Sunny K George and Shajan Kuriakose , (2020).Optimizing design parameters of caliper disc brake system using hybrid approach-KHGWO, AIP Conference Proceedings 2263, 040011 (2020);

DOI: 10.1063/5.0017705

INTERNSHIPS BY STUDENTS @



Following students from S3 Mechanical did the one week internship training on Keltron Tool Room Research and Training Centre, Aroor.

- Georgie David
- Ashwanth P K
- Arjith Raj
- Nidhin B
- AmalLal
- Abhijith K V
- Govind Sai

INTERNSHIPS BY STUDENTS @



Following students from S7 Mechanical did the 14 day internship training at KSRTC, Mavelikkara.

- Jerin P Eapen
- Siju George Viju

EXTERNAL EVENTS PARTICIPATED BY STUDENTS

Bharath V, Event Name: National level online quiz on world environmental day, Hosted by Saintgits College Of Engineering And Technology.

Bharath V, Event Name: Quiz on OP-AMP, Hosted by College Of Engineering ,Nashik.

Bharath V, Event Name: Tech talk series on BS-6 norms and regulations, Hosted by Amal Jyothi College Of Engineering And Technology Kanjirappally.

Bharath V, Event Name: Introduction to data science and signal analytics, Hosted by UKF College Of Engineering.

INDUSTRY INSTITUTE COLLABORATION

Let's Benefit Mutually

Department of
Mechanical Engineering



MoU Signed Between

Dr. Shajan Kuriakose
Principal

St Thomas College of
Engineering and Technology

Mr. Krishnanunni J S
CEO

Acutro Technologies
Thiruvananthapuram



St. Thomas College of Engineering & Technology
Kozhuvallur, Chengannur, Alappuzha, Kerala

Congratulations

from STC Placement Cell

for getting placed in



Marymatha

WELFARE SOCIETY



Anandakrishnan V.
ME



Abin Anil.
ME



Arjun M Pillai.
EEE



Ashish Yohan Jones.
ME



Justin Philip.
ME



Akhil M Sunny.
ME

Placement Achievers in



SUTHERLAND



Akhil A.
ME



Arun Kumar A.
ME



Abin Anil.
ME



Robin Mathukutty.
ME



P.S.Aswanth Kumar.
ME

Tech

Placement Achievers in

Mahindra



Bibin Benny.
ME



Sujith Vijayan.
ME



P.S.Aswanth Kumar.
ME



Bobin K Babu.
ME



Shaun Jacob Raja.
ME



Sibin Stephan Abraham.
ME



Febin V Roshan.
ME



Abdul Ahad.M.
ME



St. Thomas College
of Engineering & Technology

Graduation Day (2020-2021)





Visit the Campus

Our campus tour allows students to familiarise the teaching environment of the college. The facilities that STC offers will be open to the aspiring student candidates. We can assure you our campus tour will inspire you to become part of the STC family.

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Travancore International School, Adoor

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