

# NEWSLETTER

Jan 2020 - Dec 2020

Department of

# MECHANICAL

Engineering



**MEA ENGINEERING COLLEGE**  
PERINTHALMANNA

MEMBODIR - PATTINGAL P.O. PERINTHALMANNA, MALAPPUZHA DISTRICT, KERALA - PIN 570335



**NBA**  
NATIONAL BOARD  
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5 YEAR ACCREDITED FOR  
2015-2020

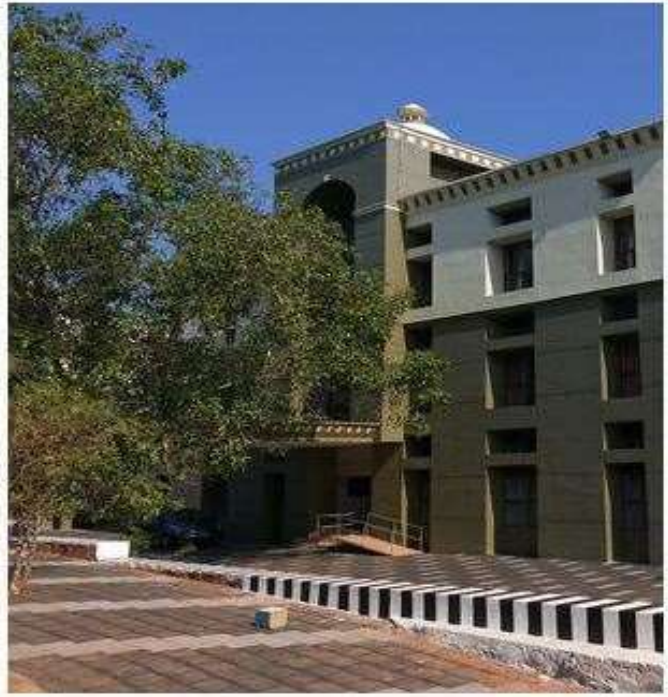


ISO 9001:2015  
INTERNATIONAL ORGANIZATION  
FOR STANDARDIZATION

# ME Newsletter

2020

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Department of Mechanical Engineering, MEAEC Accredited with NBA for the academic years 2020-2021, 2021-2022 and 2022-2023



## About the Mechanical Engineering Department

The Department of Mechanical Engineering at MEA Engineering College offers a four year B Tech. degree program in Mechanical Engineering with a yearly intake capacity of 30 students. Since its inception in 2007, the department has been thriving to achieve academic excellence by molding quality mechanical engineers with emphasis on comprehensive learning techniques. The Department of Mechanical Engineering allows the students to gain unique academic experiences in conducting various technical events at our college. In summary, the Department of Mechanical Engineering is thriving for professional excellence, building upon which our department is confident of shaping the future of the mechanical engineering students

### Vision of the Department:

To create graduate Mechanical engineers having excellence and competence in addressing the needs in the disciplines of Mechanical Engineering and allied areas at both National and International levels with a deep commitment to serving the society for bettering the standard of living through research and development

### Mission of the Department:

- 1) To impart formal education in Mechanical engineering and allied areas at undergraduate levels by integrating a variety of project experiences at every level throughout the curriculum.
- 2) To be able to apply with confidence the knowledge in Mechanical engineering through research in science and technology.
- 3) To nurture conducive academic ambience by giving more emphasis to have competent faculty in the department of Mechanical Engineering
- 4) To encourage the students towards higher education through research and development activities

## Editorial Board



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(HOD-ME)(Chief editor)



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## HOD's Message

I'm extremely happy to announce the publishing of this newsletter portraying various departmental activities during Jan-Dec 2020. I wholeheartedly congratulate the student members of the mechanical engineering department for the successful publishing of this edition.

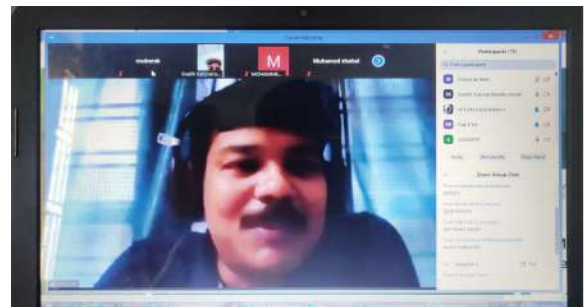


### GLIMPSE OF ACTIVITIES

- WEBINAR ON HOW TO BECOME AN ENTREPRENEUR
- WEBINAR ON AUTOMOTIVE COMPETITION – MESA
- VICATRME '20 – FIRST VIRTUAL INTERNATIONAL CONFERENCE ON ADVANCED TECHNOLOGIES AND RESEARCH IN MECHANICAL ENGINEERING – 26-28 OCTOBER, 2020
- WEBINAR ON SAFETY ENGINEER AS A CAREER
- WEBINAR ON WELDING AND ALLIED TECHNOLOGIES AS CAREER
- IEI WEBINAR SERIES – IEI STUDENTS CHAPTER – “IDEA TO PRODUCT METAMORPHOSIS”
- ASNT LEVEL II NDT TRAINING (INTERNATIONAL CERTIFICATE COURSE) (2020 – 2021)
- WEBINAR ON ADDITIVE MANUFACTURING
- WEBINAR ON EFFECT OF AUTOMOTIVE POLLUTION IN ENVIRONMENT
- ONLINE FDP ON BIO FUELS & ITS APPLICATION IN IC ENGINES
- WEBINAR ON AUTOMOTIVE STYLING

### WEBINAR ON HOW TO BECOME AN ENTREPRENEUR

The Department of Mechanical Engineering conducted a webinar on “How to become an Entrepreneur” on 18th May 2020 handled by Mr. Sandeep K S, Managing Director – SAKS Equipments Pvt Ltd.



### WEBINAR ON AUTOMOTIVE COMPETITION – MESA

The Department of Mechanical Engineering, MEA Engineering College, Perinthalmanna and MESA- Mechanical Engineering Students Association organised a webinar on automotives and quiz on automotive

competitions for the students. Mr. Adithya and Mr. Joyel D Sim (Start up), Ernakulam were the resource persons for the occasion.

## **VICATRME '20 – FIRST VIRTUAL INTERNATIONAL CONFERENCE ON ADVANCED TECHNOLOGIES AND RESEARCH IN MECHANICAL ENGINEERING – 26-28 OCTOBER, 2020**

The Department of Mechanical Engineering organized the First Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering (VICATRME) during October



26th–28th, 2020. More than 240 authors submitted their quality research work for the conference in which 75 papers were considered for final presentation after peer review. The inauguration speech was given by Dr Héctor A. Ruiz, Autonomous University of Coahuila, Mexico alongside five other eminent professors delivered the session talks on advanced areas of Mechanical Engineering. Apart from paper presentation sessions, distinguished professors and eminent personalities around the world contributed to the occasion in the role of advisory committee members, keynote speakers and session chairs. Best papers were published in CARE Journals (Revised Version of Full length paper after peer review).

## **WEBINAR ON SAFETY ENGINEER AS A CAREER**

The Department of Mechanical Engineering in association with MESA (Mechanical Engineering Students Association) conducted a webinar on “Safety Engineer as a Career” on 30th August 2020. The session was handled by Mr. MUHAMMED FENSIYAS EDALOLI (Project HSE Specialist at SAUDI ARAMCO Project Management Team, Former Regional Safety Manager at HAPBCO PVT LTD, Udaipur Region, Former Safety Engineer at LARSEN and TOUBRO LTD, Reliance Jamnagar Export Refinery Project). Numerous students were benefited in planning their career in terms of the insights and experiences shared by the resource person

## WEBINAR ON WELDING AND ALLIED TECHNOLOGIES AS CAREER

The Department of Mechanical Engineering conducted a webinar titled “Welding and Allied Technologies as Career” handled by Mr. Shyam Krishnan A P. (International Welding Engineer (IIW-IWE), PG Certificate in Welding Technology, NDT Level II – Indian Society of Non Destructive Testing, Member: Indian Institute of Welding, MEA Alumni 2011 – 15 Batch) on 28th August 2020.

## IEI WEBINAR SERIES – IEI STUDENTS CHAPTER – “IDEA TO PRODUCT METAMORPHOSIS”

The IEI students chapter, Department of Mechanical Engineering organized a 3 day webinar from 25th to 27th August 2020 which covered topics on Idea to Product Metamorphosis, Design Considerations of a Robotic Exoskeleton and its present challenges and An overview on metal matrix composites of which the resource persons included eminent scientists from KSCSTE TVM and Professors from various Engineering Colleges. The resource persons Dr. Ajit Prabhu V (Chief Scientist and Head, TDPM, KSCSTE, Dr. Jobin Varghese, Associate Professor, Adi Shankara Institute of Engineering and Technology, Ernakulam, and Dr. Titus Thankachan, Associate Professor, Karpagam College of Engineering, Coimbatore.

**MEA ENGINEERING COLLEGE**  
PERINTHALMANNA

DEPARTMENT OF MECHANICAL ENGINEERING  
IEI STUDENTS CHAPTER  
ORGANIZES  
**WEBINAR SERIES 2020**

PLATFORM: GOOGLE MEET | E Certificate will be provided

**Session 1:**  
Date: 25-8-2020 Time: 3pm-4:30pm  
Topic: Inauguration and keynote address  
Dr. Ajit Prabhu V  
Chief Scientist and Head (TDPM), KSCSTE  
(Keynote Address) Idea to Product Metamorphosis

**Session 2:**  
Date: 26-8-2020 Time: 4 pm  
Topic: DESIGN CONSIDERATIONS OF A ROBOTIC EXOSKELETON AND ITS PRESENT CHALLENGES  
Dr. Jobin Varghese, Associate Professor,  
Adi Shankara Institute of Engineering and  
Technology, Ernakulam.

**Session 3:**  
Date: 27-8-2020, Time: 3 pm  
Topic: AN OVERVIEW ON METAL MATRIX COMPOSITES  
Dr. Titus Thankachan, Associate Professor,  
Karpagam College of Engineering, Coimbatore

## WEBINAR ON ADDITIVE MANUFACTURING

The Department of Mechanical Engineering conducted a webinar on Additive Manufacturing on 3rd June, 2020 for the students in view of academic interest and improvement during the Lockdown sessions. Mr. Ragul Sivakkumar, Director, Shiv prema Project Consultant acted as the resource person for the webinar.

## ONLINE FDP ON BIO FUELS & ITS APPLICATION IN IC ENGINES

A 5 day online FDP on Bio Fuels & its Application in IC Engines with Dr Mubarak M (HoD-ME) as the resource person was conducted between 01st to 05th June, 2020 which included 70+ participants across India.

## ASNT LEVEL II NDT TRAINING (INTERNATIONAL CERTIFICATE COURSE) (2020 – 2021)

The Department of Mechanical Engineering at MEAEC in collaboration with UNITED NDT Training and Inspection Centre – Cochin organized training program on ASNT (American Society for Non Destructive Testing) Level II Non Destructive Testing on 18th August 2020. The function was inaugurated online by chief guest Dr. V. A. Raikar, Vice-Chancellor, Sanjay Ghodawat University, Kolhapur and was open to the third and final year mechanical engineering students. This program aims at providing hands-on training in NDT and builds the confidence of students by opening their doors to the industrial career



A green-themed poster for a webinar. It features logos for NAAC, MEA Engineering College, and ISO 9001. The text includes: 'DEPARTMENT OF MECHANICAL ENGINEERING (B.Tech ME and CSE Accredited by NBA)\*', 'Organizes a Webinar Session on Effect of automotive pollution on Environment on World Environmental Day 5th June 2020 2 to 3 pm'. It also states 'Registration is free. E-Certificate will be provided. Platform: Webex'. On the left, it lists the resource person: 'Dr. Mubarak M Associate Professor and Head Dept. of Mechanical Engineering MEA Engineering College.' At the bottom left, it says '\*Upto 30-06-2023'.

## WEBINAR ON EFFECT OF AUTOMOTIVE POLLUTION IN ENVIRONMENT

The Department of Mechanical Engineering conducted a webinar titled “Effect of Automotive Pollution in Environment” on 5th June 2020, as a part of World Environmental Day.

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## **WEBINAR ON AUTOMOTIVE STYLING**

The Department of Mechanical Engineering, MEA Engineering College, Perinthalmanna and MESA-Mechanical Engineering Students Association in association with Alcritas Technologies organized a webinar Automotive Styling on 26th May 2020. The webinar covered various topics including role and perception of designers, automotive styling and developing a personal portfolio.