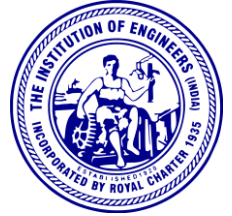




**MEA ENGINEERING COLLEGE**  
PERINTHALMANNA

VENGOOR - PATTIKKAD PO, PERINTHALMANNA, MALAPPURAM DISTRICT, KERALA - PIN 679325



**IEI STUDENTS CHAPTER**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**ACADEMIC YEAR 2020-2021**

The poster features a dark blue background with white and yellow text. At the top, it displays the MEA Engineering College logo and name, along with accreditation logos for NBA, NAAC, and ISO. The central text reads 'DEPARTMENT OF MECHANICAL ENGINEERING IEI STUDENTS CHAPTER ORGANIZES WEBINAR SERIES 2020'. Below this, it specifies the platform as 'GOOGLE MEET' and that an 'E Certificate will be provided'. Three webinar sessions are listed, each with a speaker's photo, name, title, and topic. The dates and times for each session are also provided.

**ME A ENGINEERING COLLEGE**  
PERINTHALMANNA

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

PLATFORM  
GOOGLE MEET

E Certificate  
will be provided

Date: 25-8-2020 Time: 3pm-4.30pm

**Inauguration and keynote address:**  
**Dr Ajit Prabhu V**  
Chief Scientist and Head ( TDPM), KSCSTE  
Keynote Address: Idea to Product Metamorphosis

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.

Date: 27-8-2020, Time: 3 pm

Topic: AN OVERVIEW ON METAL MATRIX COMPOSITES  
**Dr. Titus Thankachan**, Associate Professor,  
Karpagam College of Engineering, Coimbatore

## REPORT ON IEI WEBINAR SERIES 2020

### DAY 1 (25-08-2020)

The IEI Student Chapter of Department of Mechanical engineering organized a three days webinar series for mechanical engineering students on 25-08-2020 to 27-08-2020 in Google meet online platform. The webinar was conducted specifically for our mechanical engineering students, with a view of making the students gain knowledge on different subjects in Mechanical Engineering. 150 students registered and participated in the webinar.

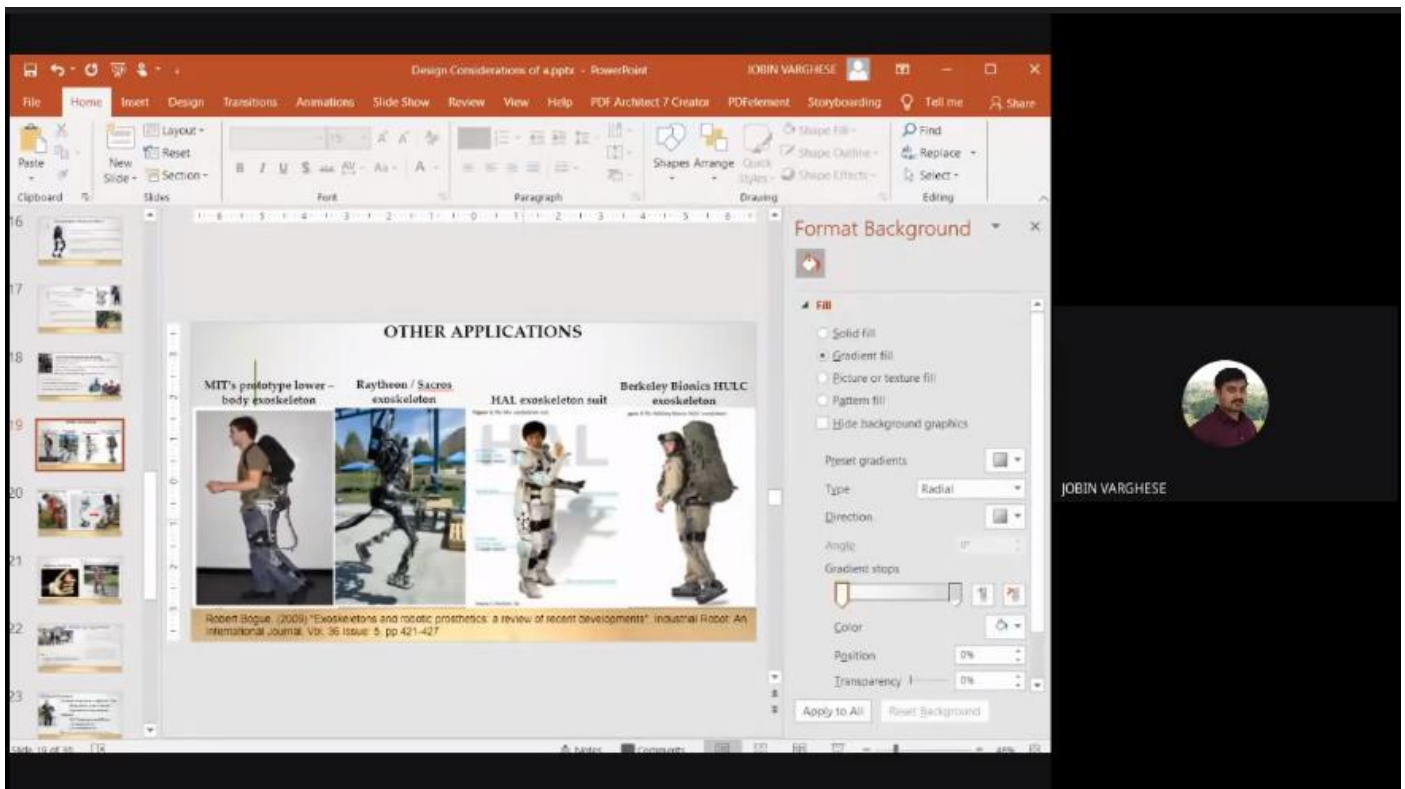
The Webinar Started with a Welcome address by Arshad Nasar Kombath, Faculty Adviser – IEI Student Chapter. He briefly introduced the aim of the webinar and the topics for three days webinar. Dr Mubarak M, HoD, Department of Mechanical Engineering, MEA Engineering College presided over the meeting. The webinar was formally inaugurated by the chief guest Dr. Ajit Prabhu V, Chief Scientist and Head (TDPM), KSCSTE. He appreciated the efforts of the IEI students' chapter and idea of webinar on interesting topics on that covid pandemic condition. Dr G. Ramesh, Principal of MEA Engineering College, Prof. (Dr) V. H. Abdul Salam, Director of MEA Engineering College felicitated the occasion. Mr. Muneeb K. K Student Representative - IEI proposed the vote of thanks.

### KEYNOTE ADDRESS



Keynote address is given by Dr Ajit Prabhu V, Chief Scientist and Head (TDPM), KSCSTE, on “**Idea to Product Metamorphosis**”. In that session he had discussed about How to make our ideas into reality? And he also mention that innovation comes about through new combinations made by an entrepreneur, and it lead to a new product, a new process, opening of new market, new way of organizing the business. And also, he discussed about the necessary of protecting intellectual property of the idea. At last, he advised students to improve their creativity in interested areas as well. The session by Dr Ajit Prabhu V helped the students to have a understanding about product idea and development. More than 98 students participated in this session. In the end Dr Mubarak M, HoD,ME appreciated the effort taken by Dr Ajit Prabhu V for starting this webinar series with a informative and interesting topic.

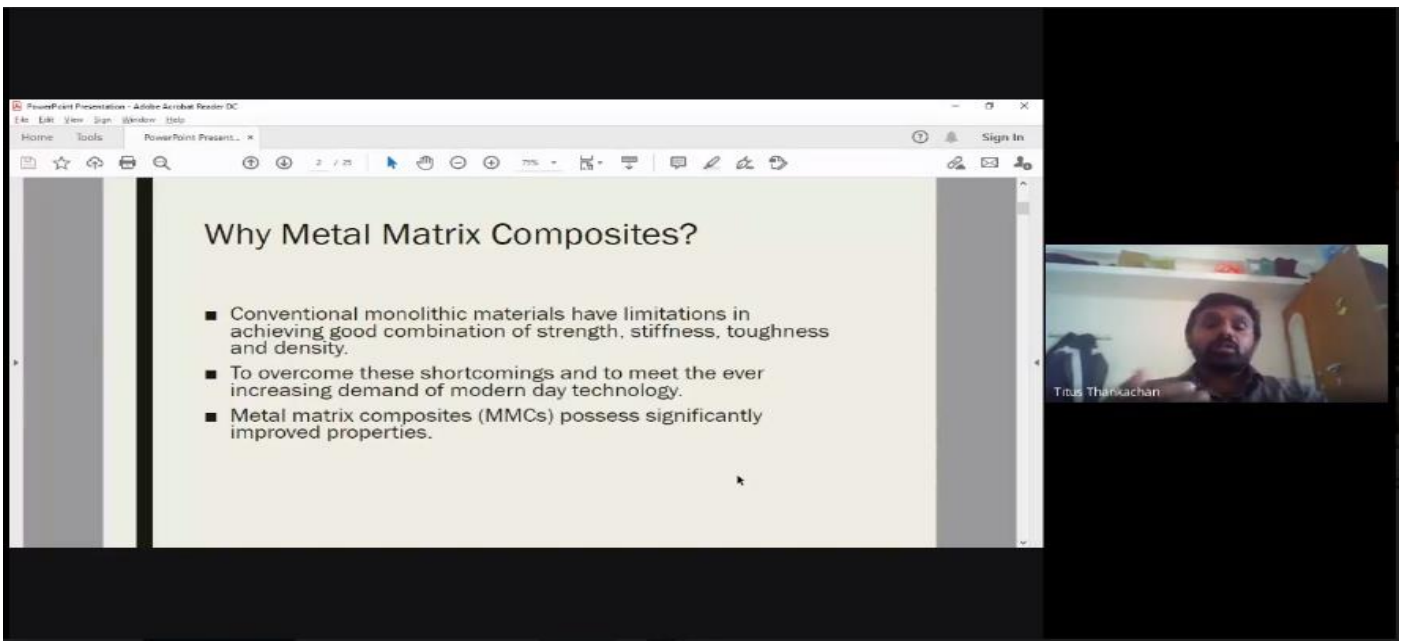
## DAY 2 (26-08-2020)



On the second day Dr. Jobin Varghese, Associate Professor, Adi Shankara Institute of Engineering and Technology, Ernakulam, Handled a session on **“Design Considerations of a Robotic Exoskeleton and its present challenges”**. He started with an example of Mr. Christopher Reeve and Development of computer assistive technology. He also gone through the types of motor disabilities and the cause of disabilities in human beings, in this presentation he mainly focused on the design and development of robotic assistive devices, which will help the disabled patients. The presentation also mentioned about the latest research and development of Exoskeleton suit. The session was informative and interesting, about 93 students has participated in the session. And a questioner session was also provided in the end of the session. In the end Arshad Nasar Komath (Faculty Adviser – IEI Student Chapter) appreciated the effort taken by Dr. Jobin Varghese for webinar with a informative and interesting topic.

## DAY 3 (27-08-2020)

On the third day Dr. Titus Thankachan, Associate Professor, Karpagam College of Engineering, Coimbatore, had a session on **“An overview on metal matrix composites”**, in that session he had discussed about the purpose of brining Metal Matrix Composites (MMC), classification of Metal Matrix Composites. He also discussed How MMC will affect the properties of the materials with reinforcing different matrix materials. Material properties such as strength, hardness, thermal properties etc. Processing techniques of MMC is also discussed in this session. The session was informative and interesting, about 48 students had participated. And a questioner session was also provided in the end of the session. In the end Arshad Nasar Komath (Faculty Adviser – IEI Student Chapter) appreciated the effort taken by Dr. Titus Thankachan for webinar with a informative and interesting topic.



A short duration feedback cum thanksgiving session was arranged at the end of the Webinar series, Feedback was collected in google form, the formal vote of thanks on behalf of IEI Students Chapter of Mechanical Engineering was proposed by Dr.Mubark.M HOD ME.

An E – certificate was provided for every participants of each day in the banner of IEI Student Chapter, Department of Mechanical Engineering MEA Engineering College Perinthalmanna.

**Event Schedule:** The event schedule is attached.