

**DEPARTMENT OF MECHANICAL ENGINEERING  
SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)**

**Academic Year 2022-23**

- Our students team participated in the Electric Two wheeler design Competition organized by SAE and received best maneuverability award with a cash prize of Rs. 15000.

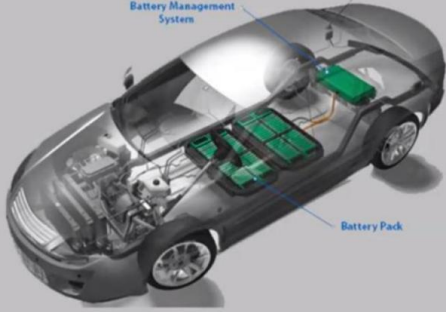
**Academic Year 2021-22**

- Crescent SAE Collegiate Club members "TEAMTRADENT" participated in SAE Electric Two-Wheeler Design Competition 2021 and the event is in line for Endurance.
- Team Members of Electric Two Wheeler Design Competition 2022 from SAE attended an online workshop for Dr. G Padmanabham Memorial Electric Two-Wheeler Design Competition 2022-Phase 1 on 12<sup>th</sup> & 13<sup>th</sup> March 2022 and Phase 2 on 19<sup>th</sup> & 20<sup>th</sup> March 2022.

**Academic Year 2019-20**

- The webinar on “Electric Vehicle (EV) design” was organized in collaboration with the corporate product marketing center SIEMENS on 25th April 2020. The presentation was delivered by Mr. Pradeep Singh of PLM team SIEMENS.

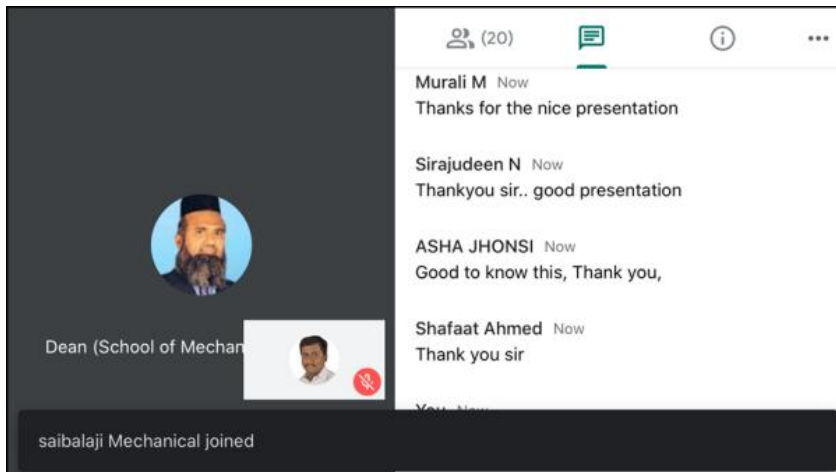




**Why do we need a Battery Management System (BMS)?**

The Lithium-ion batteries have proved to be the battery of interest for Electric Vehicle manufacturers because of its high charge density and low weight. Even though these batteries pack in a lot of punch for its size they are highly unstable in nature. It is very important that these batteries should never be over charged or under discharge at any circumstance which brings in the need to monitor its voltage and current. This process gets a bit tougher since there are a lot of cells put together to form a battery pack in EV and every cell should be individually monitored for its safety and efficient operation which requires a special dedicated system called the **Battery Management System**.

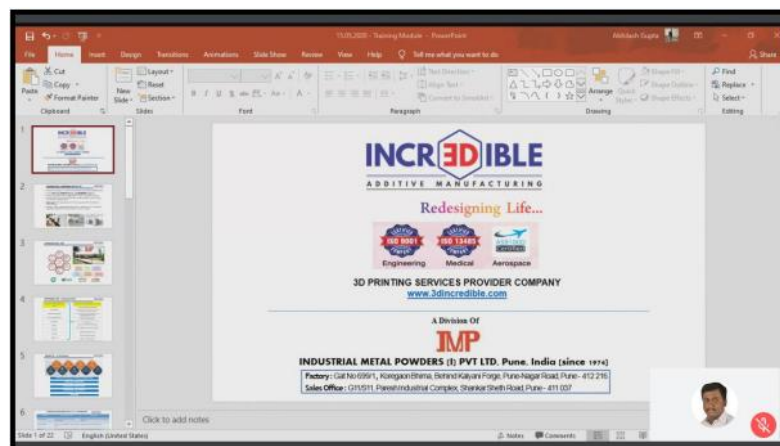
- The webinar on “Basics of 3D Printing Technologies & Its Industrial Applications” was organized in collaboration with the Incredible Additive Manufacturing Pvt. Ltd., Pune on 21st May 2020. The presentation was delivered by Mr. Kiran Chandwadkar and Mr. Abhilash Gupta of the Marketing team of IPM Division, Pune.



WhatsApp chat interface showing messages from participants:

- Murali M Now: Thanks for the nice presentation
- Sirajudeen N Now: Thankyou sir.. good presentation
- ASHA JHONSI Now: Good to know this, Thank you,
- Shafaat Ahmed Now: Thank you sir
- Yousuf Now: [Message partially visible]

Participants visible in the chat: Dean (School of Mechan...), saibalaji Mechanical joined.

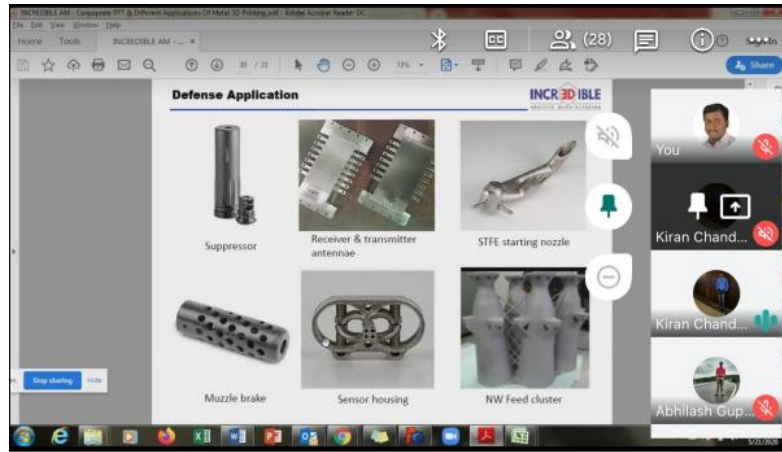


INCREDIBLE  
 ADDITIVE MANUFACTURING  
 Reshaping Life...

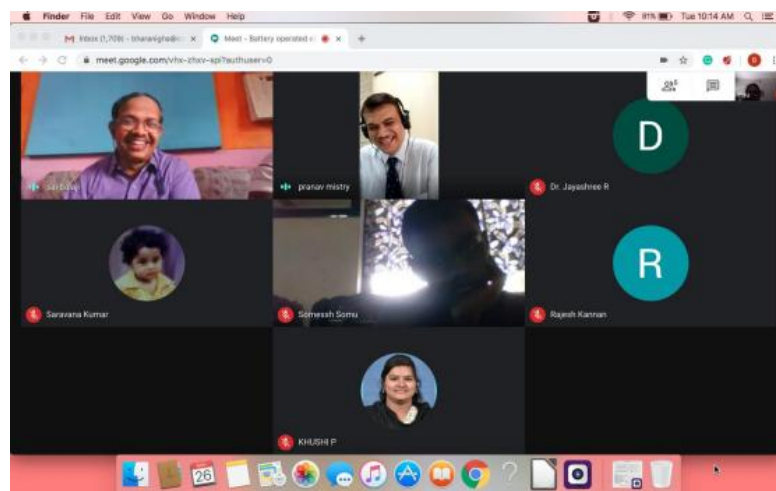
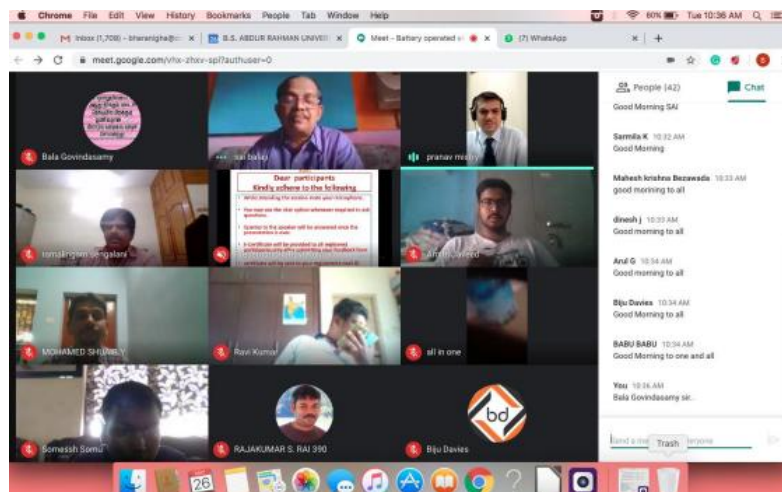
Engineering Medical Aerospace

3D PRINTING SERVICES PROVIDER COMPANY  
[www.3dinccredible.com](http://www.3dinccredible.com)

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 INDUSTRIAL METAL POWDERS (I) PVT LTD. Pune, India (since 1974)  
 Factory: Cell No 099/1, Konegachan Shana, Behind Kalyani Forge, Pune-Nagar Road, Pune - 412 210  
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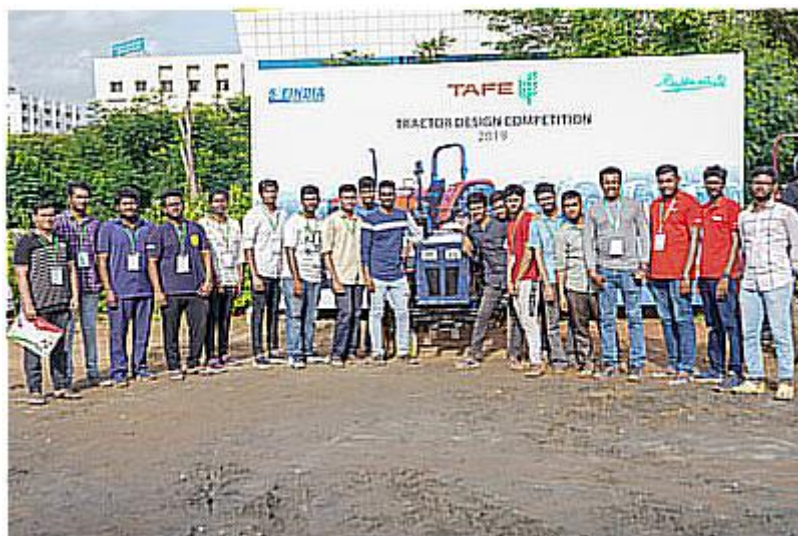


- The webinar on “Battery Operated Electric vehicle” was organized in collaboration with PM Tech Innovator on 26th May 2020. The presentation was delivered by Mr. Pranav Ramanlal Mistry of PM Tech Innovator.



## Academic Year 2017-18

- Starting with the timeline we participated in the BAJA SAEINDIA 2018 Virtual's Round which was held on the 14<sup>th</sup> of July 2017. We cleared the virtual round successful to be one of the top 120 teams among 383 teams to qualify for the main event conducted at NatriP pitampur Indore.
- We participated at the main event and were placed 64<sup>th</sup> place in the overall standings and 14<sup>th</sup> place in the suspension traction event among 120 teams.
- SAEISS proudly conducted the first innovative competition, the "Tractor design challenge 2018". where our team CRESTRAC had done a magnificent performance winning 3rd place in the "DURABILITY" event.



- Our students participated in Virtual BAJA SAE India event conducted during July 2016 at Bangalore.
- Our students participated in SAE SUPRA 2017 at Budd International Circuit conducted during June 2017 at Noida.
- Tractor Prototype has been made first time in India which is reviewed by TAFE during November 2016.
- An Industrial visit organised to TAFE, Madurai.
- Guest lectures were organised for SAE students on the following topic
  - Transmission, which outlined various aspects that is considered for designing the system.
  - Steering, where the important and salient features of steering in tractor were explained.
  - Brakes, where the uniqueness of the tractor is discussed and selection of suitable brakes for tractor were covered.
- SAE ASOP program was launched successfully to make students industry ready. In the 1<sup>st</sup> phase a workshop on “Reverse engineering” was conducted by Mr.S.Shanmugam on December 2016.
- SAE students volunteered in the International Conference on ADMMS 2017 conducted by the Department.
- A plant visit to Mahindra and Mahindra was organized on July 2017.
- Ajay Krishna of 3<sup>rd</sup> year mechanical has been nominated as Student Executive Council member in SAE India Southern Section.