



SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

S.R.M NAGAR KATTANKULATHUR - 603 203

DEPARTMENT OF MECHANICAL ENGINEERING

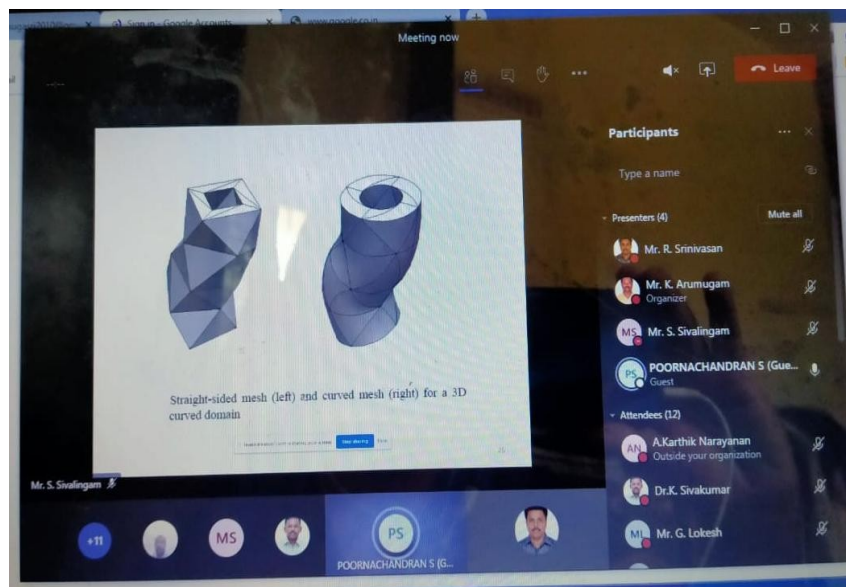
EVENTS DURING 2020_21



FACULTY DEVELOPMENT PROGRAMME

1. An online Faculty Development Programme on “**Concepts of Applied Thermodynamics, Finite Element Analysis and Professional Ethics**” conducted from 7.12.2020 to 12.12.2020. The External experts, **Dr.E.Ganapathy Sundaram**, Associate Professor & HoD, Mechanical Engineering, Velammal Engineering, College, Chennai.

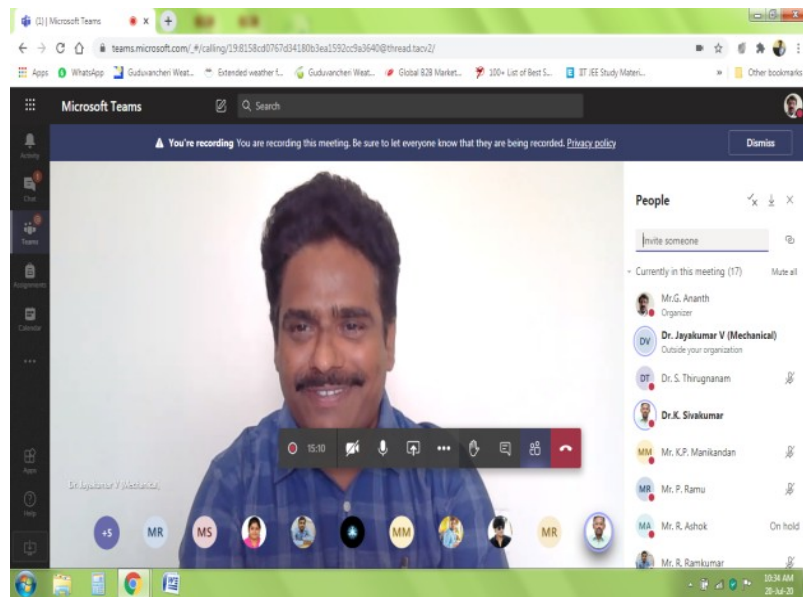
Dr.A.R.Pradeepkumar, Professor & Head/ Mechanical, Dhanalakshmi Engineering College, Chennai. **Dr.R.Muruganandhan**, Associate Professor and NSS Programme Officer, AUFRG Institute for CAD/CAM, Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai. **Dr.S.Suresh Kumar**, Associate Professor/ Mechanical SSN College of Engineering, Chennai **Mr.K.Malar Mohan**, Assistant Professor, AUFRG-ICC, Mechanical Engineering, College of Engineering Guindy, Anna University, **Mr.G.Ananth**, **Mr.R.Ashok**, **Mr.R.Ramkumar** and **Mr.S.Pradeep**/Asst. professor/Mechanical, SRM Valliammai Engineering College, Chennai delivered lectures in various topics.



GUEST LECTURE

1. Dr.V.Jayakumar, Associate Professor and Chairperson in the Department of Mechanical Engineering, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Chennai

delivered an online guest lecture on **“Motivational Talk for Bridge Course - The Skills You Need For Tomorrow’s Job”** on 20.07.20.



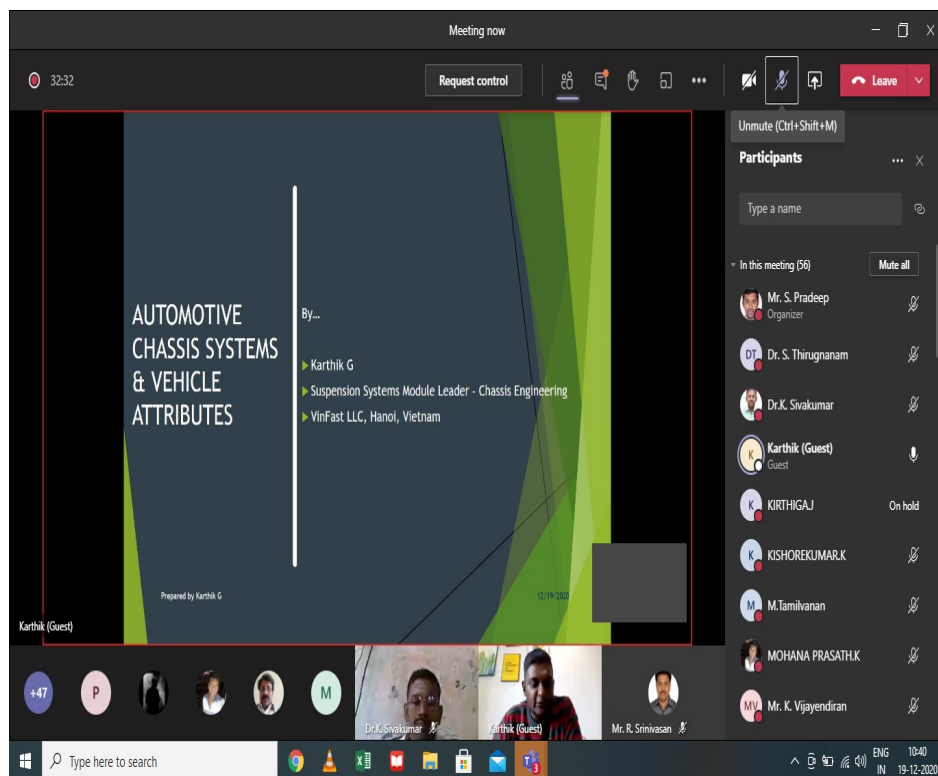
2. Mr. Subramanya Abiram Kathiresan, MES Engineer, Abbott Diabetes Care Ltd, Donegal Ireland delivered an online guest lecture on **“Production Systems- Now Ongoing & Future”** on 19/09/2020.



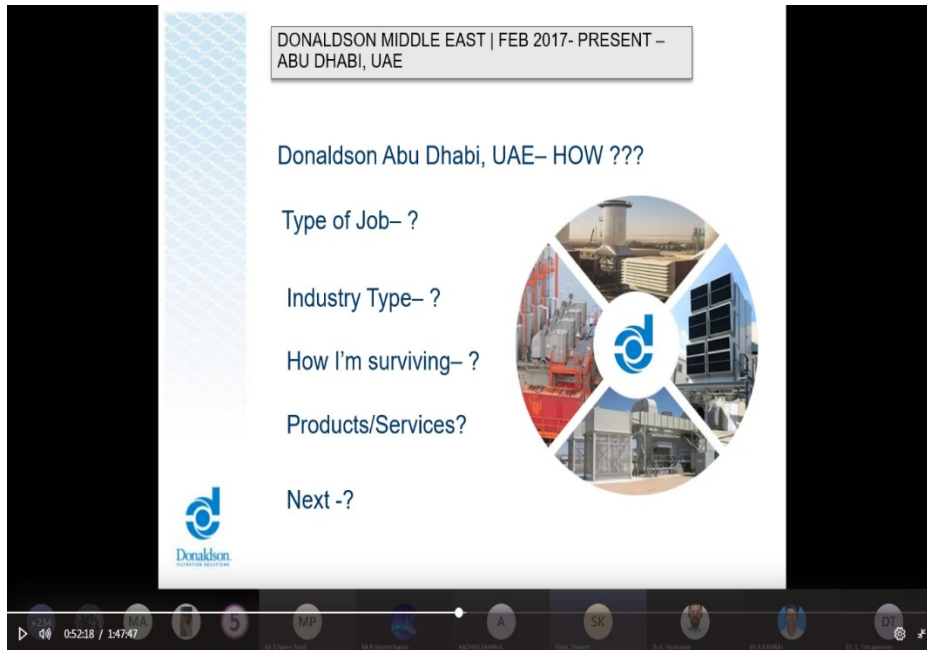
3. Mr.Sriramkumar Sivasubramanian, Design Engineer, ZIM Flugstiz GmbH, Schwerin, Germany delivered an online guest lecture on **“Aerospace Design”** on 26/09/2020.



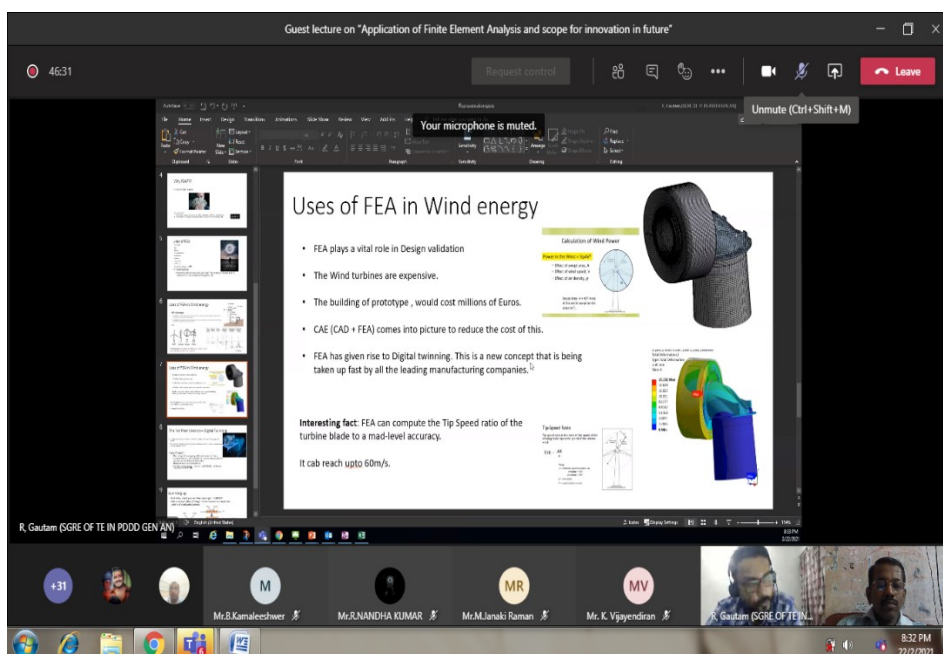
4. **Mr.G.Karthik**, Suspension Systems Module Leader, VinFast LLC, Hanoi, Vietnam delivered an online Guest Lecture on “**Automotive Chassis Systems and Vehicle Attributes**” on 19.12.2020.



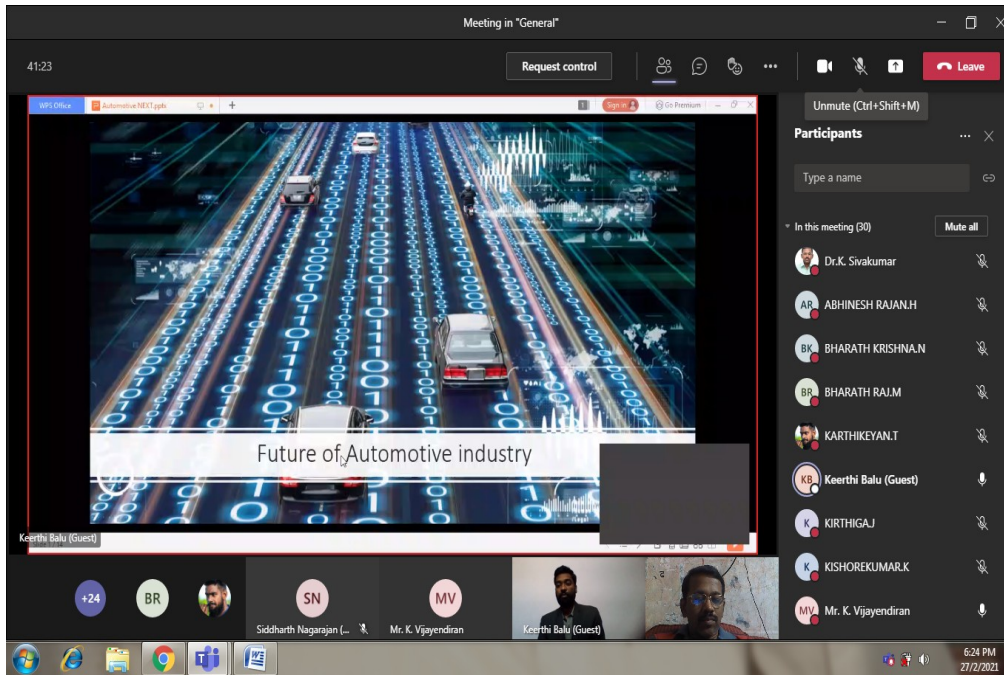
5. **Mr. Shabeer Khan**, Field/Maintenance/Rotary engineer, Donaldson Middle East Filtration System, Abu Dhabi, UAE delivered an online guest lecture on “**Motivational Talk**” on 03.02.21



6. Mr.Gautam Rajasegaran, AssociateManager, Siemens Gamesa Renewable Engineering LTD, delivered an online guest lecture on “Application of Finite Element Analysis and Scope for Innovation in Future” on 22-02-2021



7. Mr.Keerthi Balu, Deputy Manager/Production Planning, Connected cars-Consultant, delivered an online guest lecture on “Innovation in Digital Manufacturing” on 27-02-2021.



8. Mr.Mohammed Hussain Faizullah, Manager – Industrial Engineering- alfanar Electrical Systems - Riyadh, Saudi Arabia delivered an online guest lecture on “Recent trends and scope for innovation through lean manufacturing” on 12-03-2021.



9. Er.N.Siddharth, CFD Engineer, Valeo India Private Ltd, Chennai delivered an online guest lecture on “Introduction to Computational Fluid Dynamics” on 21-03-2021.

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Fluid Mechanics and Heat transfer

Fluid – Any substance that **deforms with the slightest amount of shear stress** applied on it

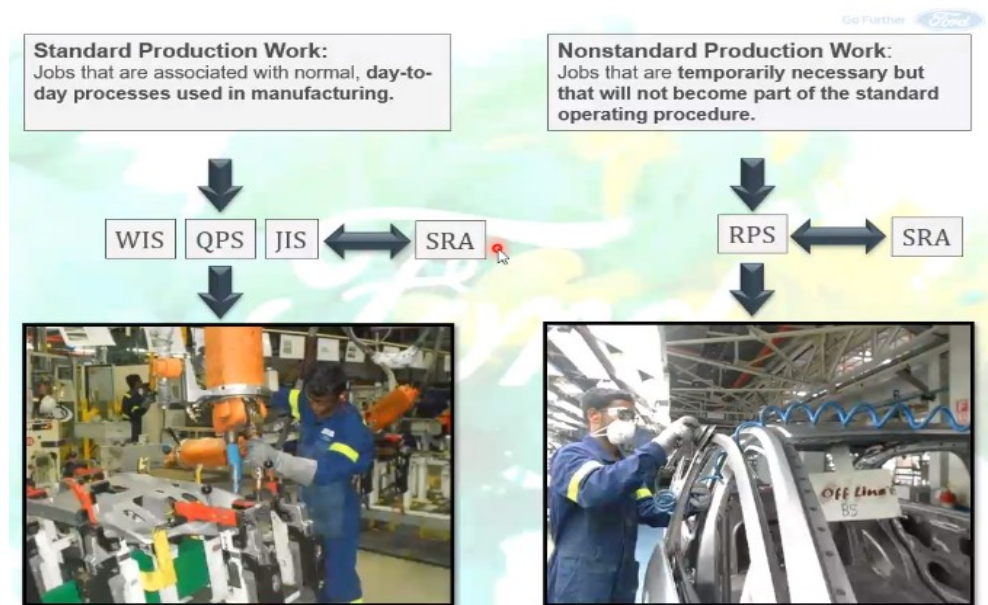
Heat transfer – Form of **energy transfer** that takes place as a result of **temperature gradient**

What are the Navier-Stokes equations?

What is a transport phenomenon?

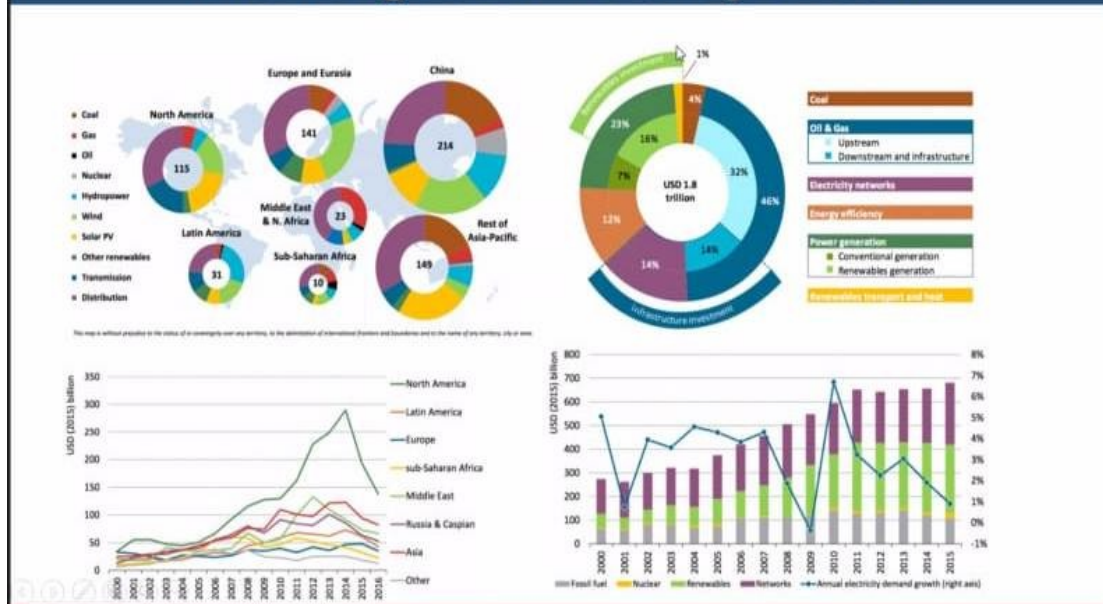
Siddharth (Guest)

- 10. Mr.X.Velanganni Manohar**, Senior Health and Safety officer – Ford India Private Limited, delivered an online guest lecture on **“Best Safety Practices in Automobile Industry”** on 26/03/2021.

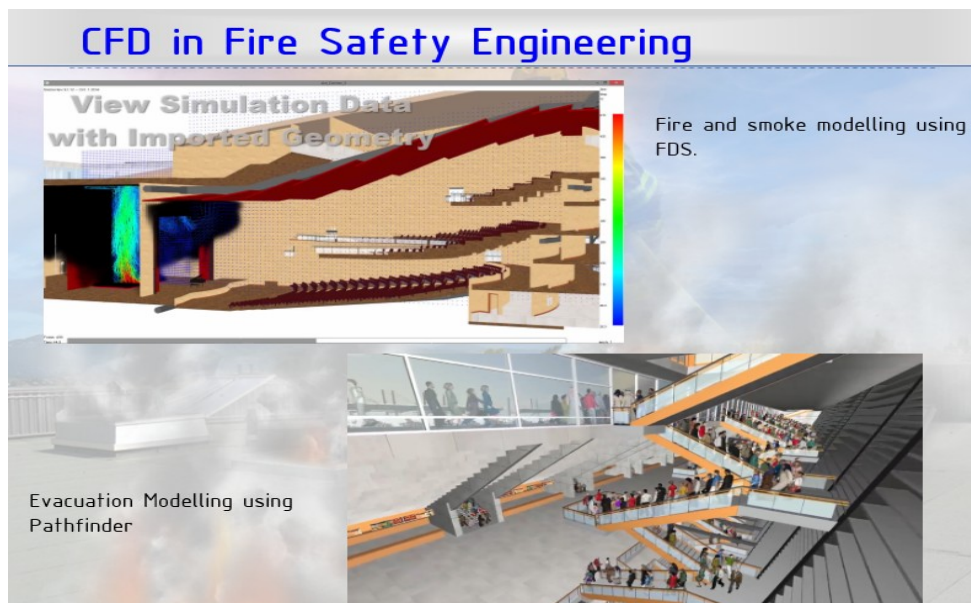


- 11. Mr.Ashhar Ahmed** , Skill development director – Skillshark EduTech, Telangana delivered guest lecture on **“E-Mobility in India-Challenges, Technologies, Market & Opportunities for Indian Youth”** through online mode on 16-04-2021.

Challenges for Mobility Sector

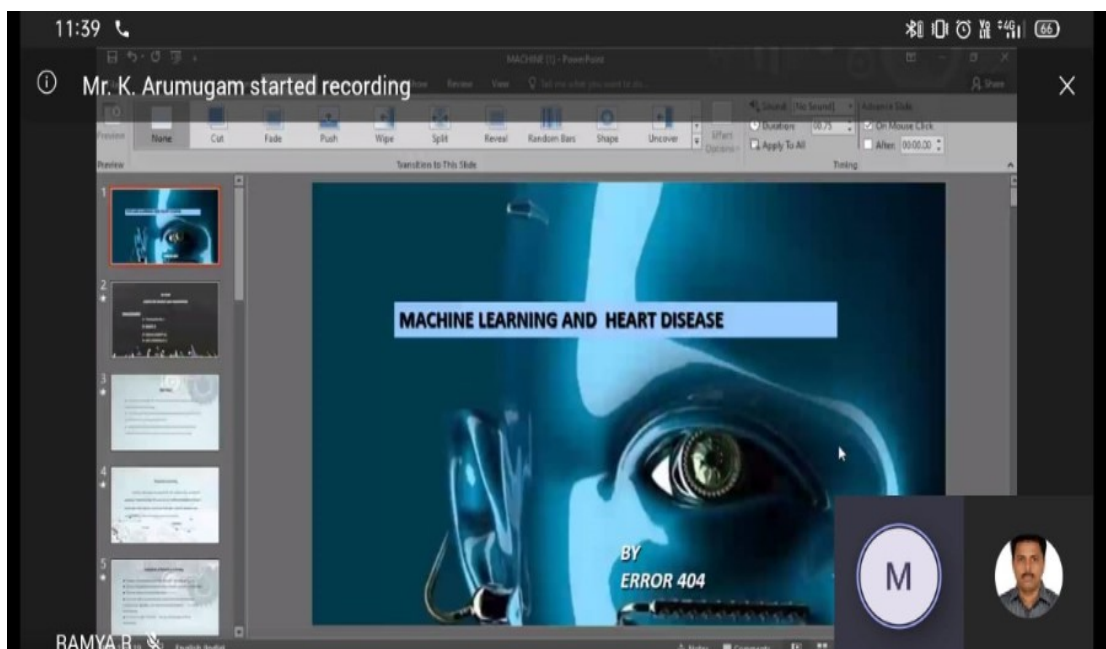
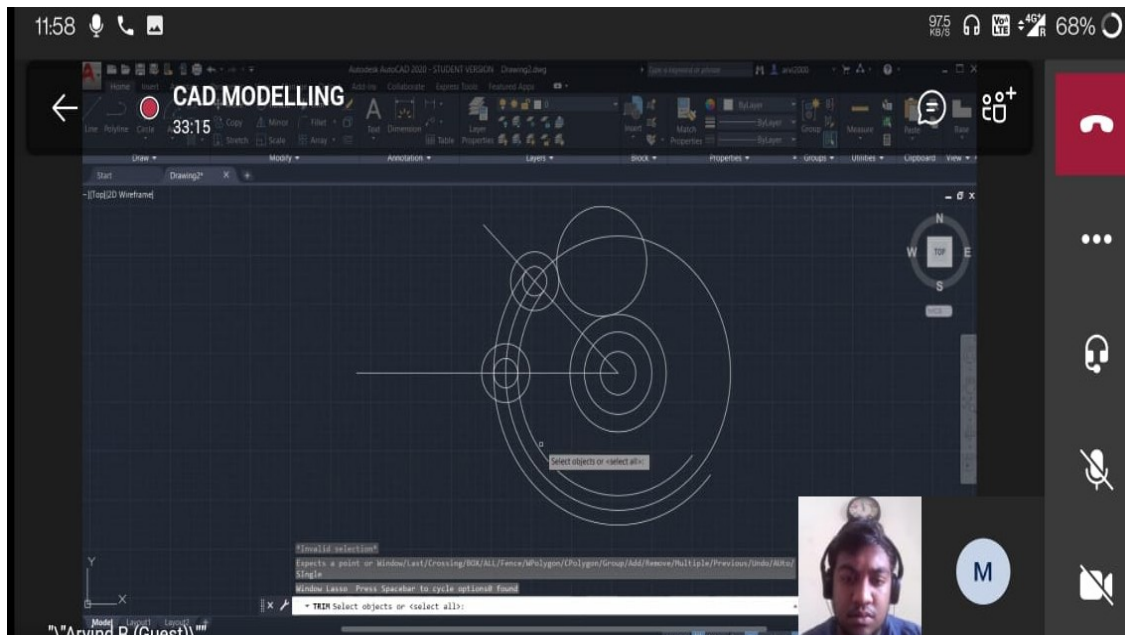


12. The International Guest Lecture on “Application of CFD in Fire Safety Engineering” was delivered by Mr.S.Manoj Pradeep, M.E., Senior Engineer, Ignesis Private Limited, Singapore on 24-04-2021.



SYMPOSIUM

A National Level Technical Symposium “MEQNZO 21” was conducted through online mode on 20-03-2021. Technical events like Paper Presentation, Mequiz, CAD Modelling and Non-technical events like photography and short video presentation were conducted.



TECHNICAL TALK

An on line “**Technical Talk**” was conducted by Ph.d pursuing faculty members from 14/12/20 to 04/01/21. The session details are given below:

S. No.	Staff Name	Title	Date(Timing 2.00 PM to 3.00 PM)
1	Mr.S.Sivalingam AP(Sr.G)	Formability studies of nano composites	15/12/20
2	Mr.K.Arumugam AP(Sr.G)	Machinability studies of super alloys by ECM	16/12/20
3	Mr.K.Venkatesan AP(Sr.G)	Investigation of mechanical and thermal properties of sisal-abaca natural fiber reinforced epoxy composites	17/12/20

4	Mr.R.Srinivasan AP(Sr.G)	Manufacturing process of FRP composites for various application	22/12/20
5	Mr.K.Vijayendiran AP(Sr.G)	Biomass combustion and morphology analysis	21/12/20
6	Mr.J.P.Ramesh AP(Sr.G)	Aerodynamic technologies to improve aircraft performance	24/12/20
7	Mr.K.P.Manikandan AP(O.G)	Formability effects of process parameters on forming forces in SPIFP	28/12/20
8	Mr.K.Velavan AP(O.G)	Hybrid composites with nano particles	31/12/20
9	Mr.S.Suresh Pungaiiah AP(O.G)	Thermal spray coating technology to increase the heat transfer	30/12/20
10	Mr.T.Muthu Krishnan AP(O.G)	Advanced welding process	04/01/21
11	Mr.S.Sivasankar AP(O.G)	Gas turbine performance	29/12/20
12	Mr.M. Vadivel AP(O.G)	Functionally graded materials	14/12/20
13	Mr.S.Pradeep AP(O.G)	Studies on reactivity controlled compression ignition engine	18/12/20