SRM VALLIAMMAI ENGINEERING COLLEGE

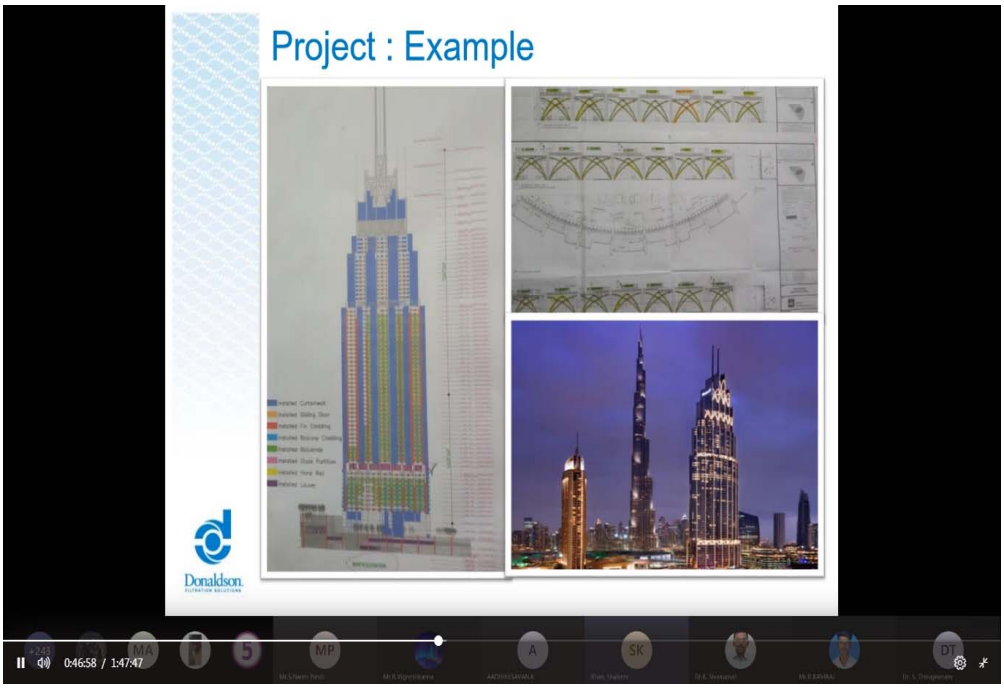
(An Autonomous Institution)

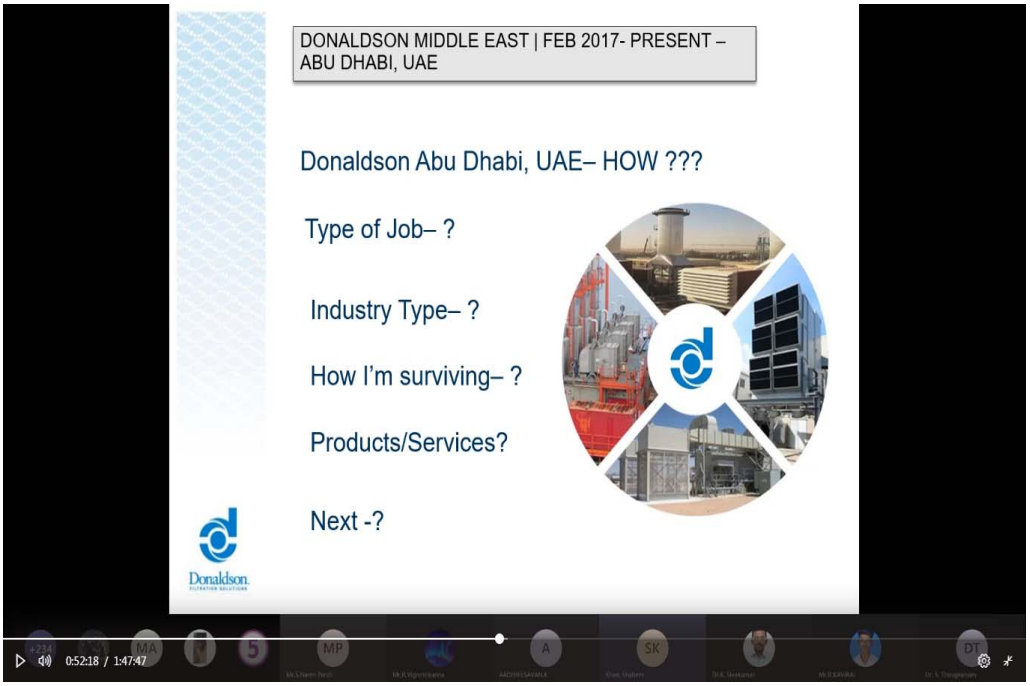
S.R.M NAGAR KATTANKULATHUR - 603 203

DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER Jan _ March 2021

1. As a part of bridge course, an online Guest Lecture on **"Motivational Talk"** conducted 03.02.21 through MS TEAM. The chief guest **Sri. Shabeer Khan, Field/Maintenance/Rotary engineer, Donaldson Middle East Filtration System, Abu Dhabi, UAE**, started his presentation on 'Expectation from the Industries'. He shared his personal experience of how he got selected in "Larson and Toubro". He clearly explained about the expectations of different industries from the fresh engineering graduate. He narrated how to prepare CV as per the requirement of the individual company. The session was very much interactive as the speaker motivated by providing industrial examples. The speaker has given lot of tips how to set a goal and insisted about the hard work and passion to achieve the desired industry. The speaker has pointed out various software training programme like Revit, Solid modelling, Siemen NX software for our students. Speaker cleared all the doubts raised by our students and the speaker has given the contact number and mail id for further clarifications.



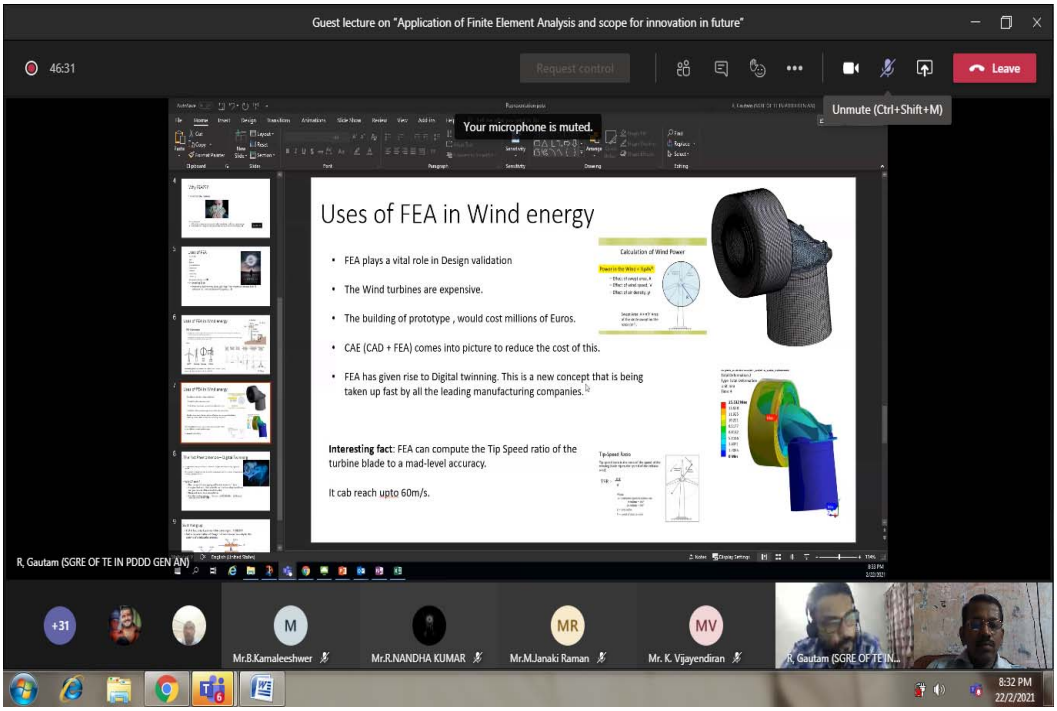


2. The Guest Lecture on "**Application of Finite Element Analysis and Scope for Innovation in Future"** was successfully conducted through online mode on 22-02-2021. The resource person **Mr.Gautam Rajasegaran**, **AssociateManager, Siemens Gamesa Renewable Engineering LTD**, delivered the expert lecture on the respective topics. He covered the recent advancement in the area of Renewable Energy and technological developments in the wind energy sectors through FEA.

- Introduction to Finite Element Analysis
- Modern wind turbines
- Application of FEA in the field of renewable energy
- Matrices and its approach in FEA on problems

- ❖ Development of FEA models on energy sector
- ❖ Governing differential equation in FEA
- ❖ Mathematical modelling
- ❖ Validation in FEA
- ❖ Digital Twinning

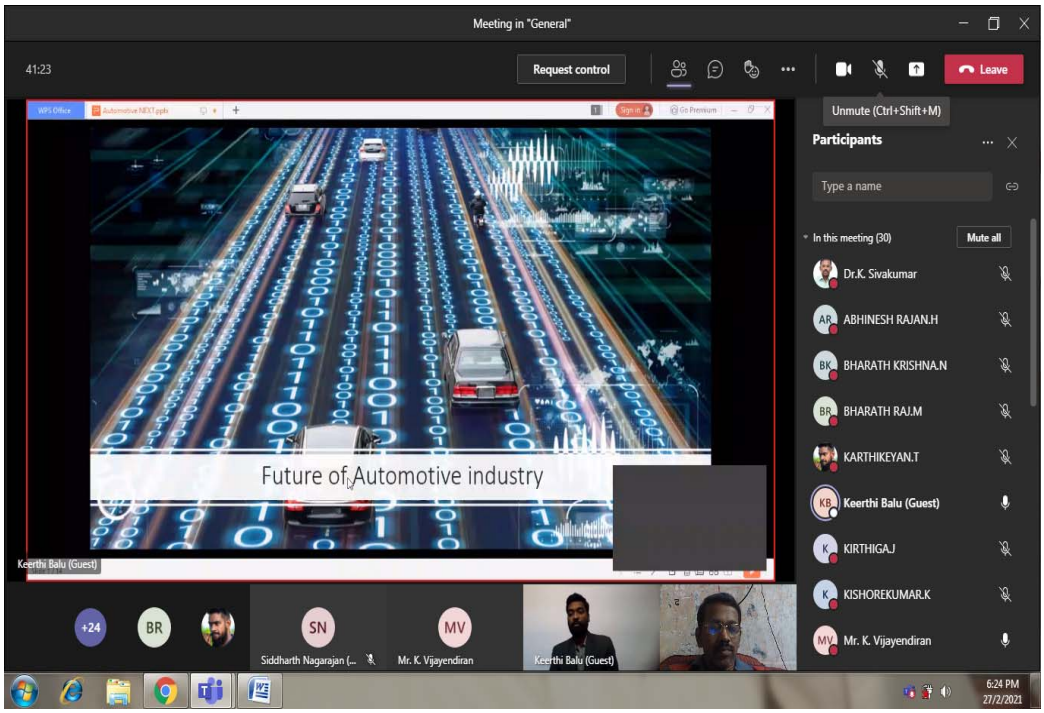
The topics covered were very useful to the budding engineers. A total 94 members registered out of which 48 members participated in the guest lecture.

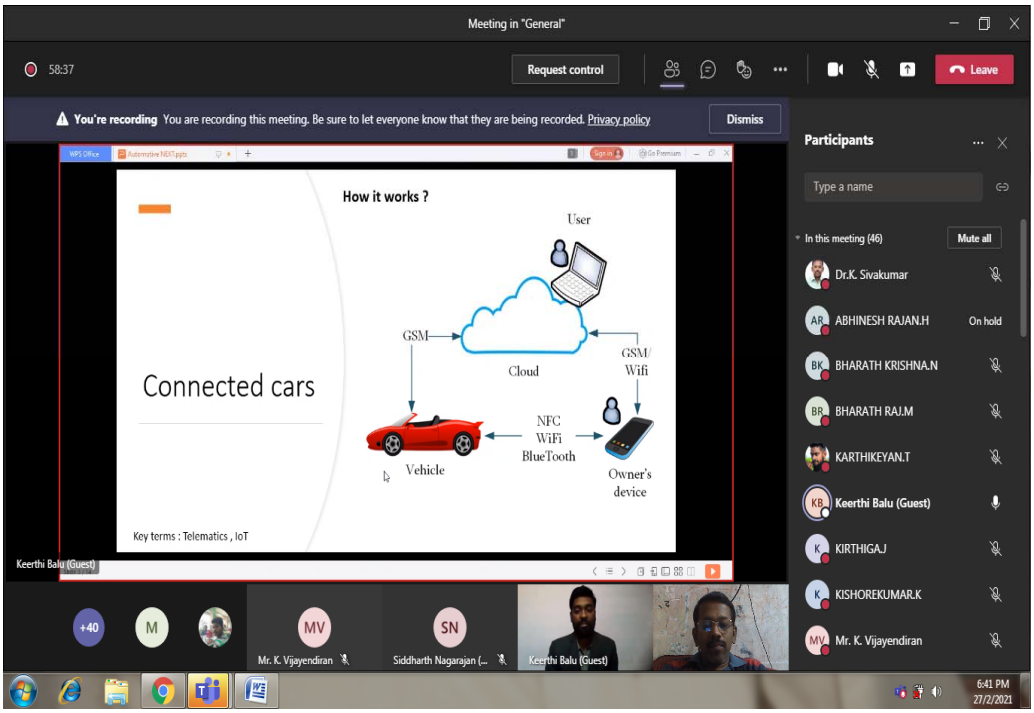


3. The Guest Lecture on "Innovation in Digital Manufacturing**"** was successfully conducted through online mode on 27-02-2021. The resource person **Mr.Keerthi Balu**, Deputy Manager/Production Planning, Connected cars-Consultant, delivered the expert lecture on the respective topics. He covered the recent advancement in the area of automobile engineering

- ❖ Introduction to Digital Manufacturing
- ❖ Innovation in Automobile fields
- ❖ Application of artificial intelligent (AI) and internet of things (IOT) in cars
- ❖ Autonomous Vehicle Development
- ❖ Electrification is the future
- ❖ Types of Electric Vehicle
- ❖ Validation in Digital Manufacturing
- ❖ Digital Twinning

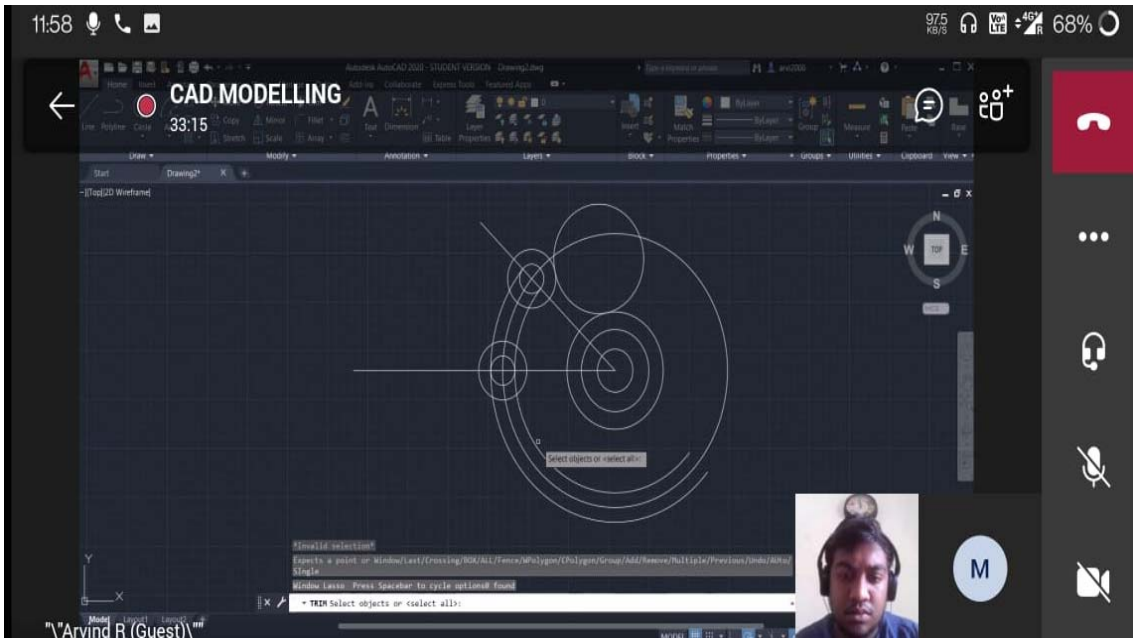
The topics covered were very useful to the budding engineers. A total 92members registered out of which 50members participated in the guest lecture.

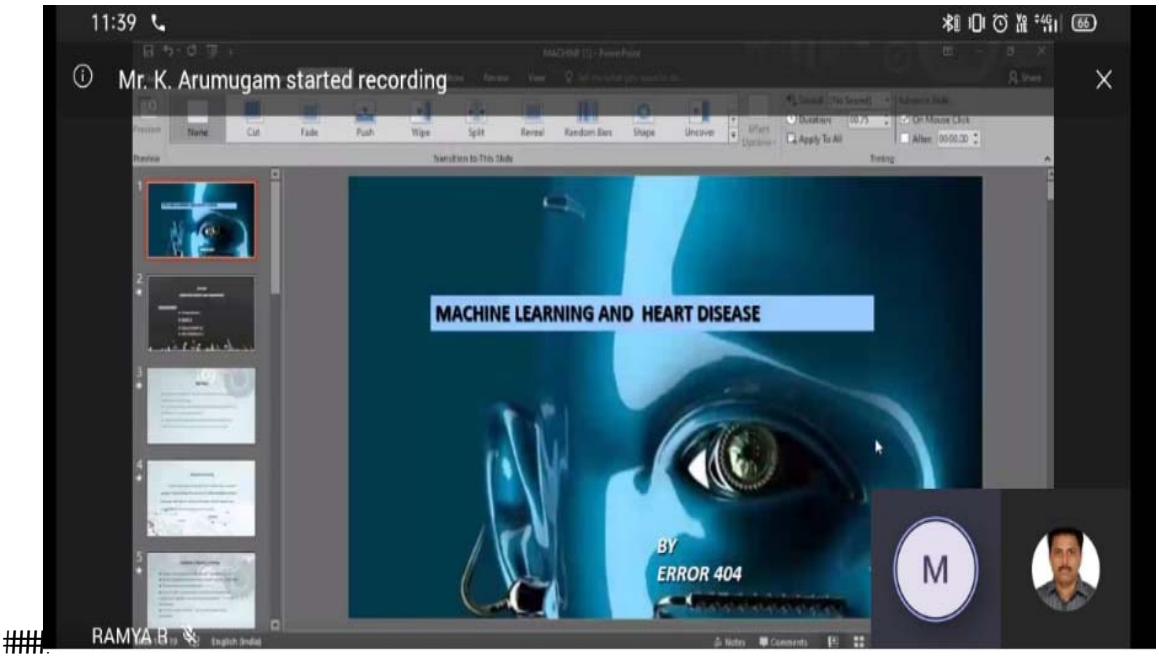




4. The Guest Lecture on "**Recent trends and scope for innovation through lean manufacturing"** was successfully conducted through online mode on 12-03-2021. The resource person **Mr.Mohammed Hussain Faizullah**, Manager – Industrial Engineering-alfanar Electrical Systems - Riyadh, Saudi Arabia, delivered the expert lecture on Lean manufacturing, 7 forms of lean waste, Theory of constraints, step by step process of constraints, Industrial automation. . He also covered the recent advancement in the area of lean manufacturing and technological developments in the manufacturing automation. The topics covered were very useful to the budding engineers. A total 136 members registered out of which 104 members participated in the guest lecture.

5. A National Level Technical Symposium "MEQNZO 21"was successfully conducted through online mode on 20-03-2021. The Symposium was organized with the primary objective of bringing together of the academicians and practitioners in Mechanical Engineering and other associated fields in an online platform, to share their knowledge and expertise, so as to contribute towards research and development in the field. Technical events like Paper Presentation, Mequiz, CAD Modelling and Non-technical events like photography and short video presentation were conducted in the symposium MEQNZO-2021. About 20 papers on diverse topics encompassing Manufacturing, Design, Thermal Engineering including recent trends in other fields of Engineering & Technology were received for the symposium, from reputed institutes across the country. A total 103 members were registered and participated in various activities.

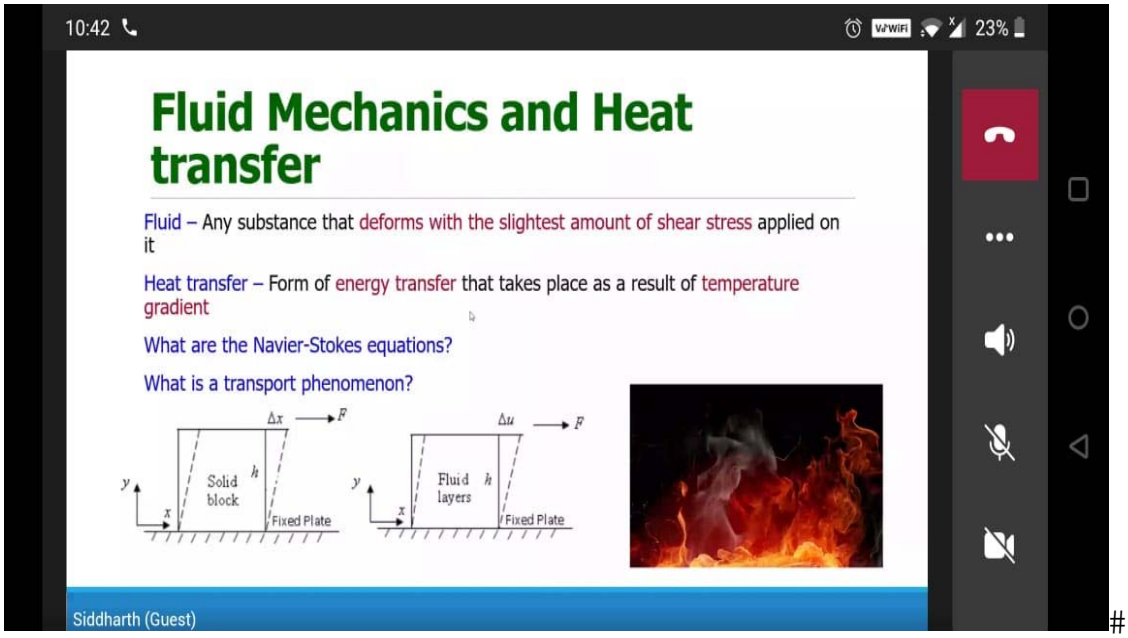




6. The Guest Lecture on "Introduction to Computational Fluid Dynamics**"** was successfully conducted through online mode on 21-03-2021. The resource person **Er.N.Siddharth**, CFD Engineer, Valeo India Private Ltd, delivered the guest lecture on the respective topics. He covered the recent following topics during lecture.

- Basics of Fluid mechanics and heat transfer
- Mathematics in computational fluid dynamics
- Conditions to be satisfied to solve a problem using CFD
- Computational algorithms in CFD
- How to use the Ansys FLUENT
- Heat transfer problem using CFD
- Laminar flow in a pipe
- Comparison of Results
- Tutorial Problems
- Applications of CFD

The topics covered were very useful to the mechanical engineering students. A total 95members registered out of which 59 members participated in the guest lecture.



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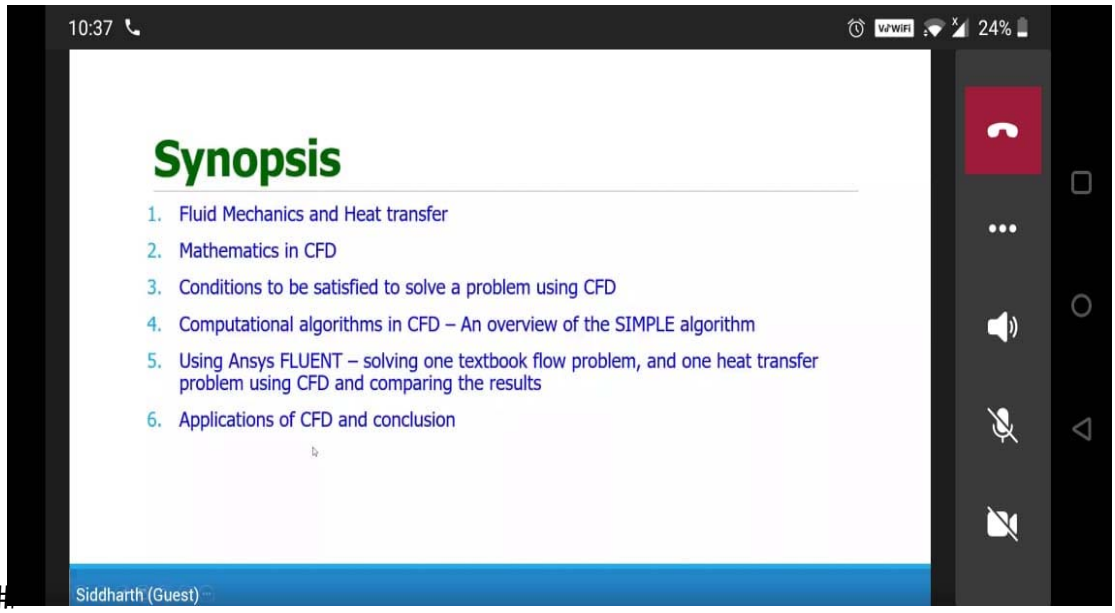

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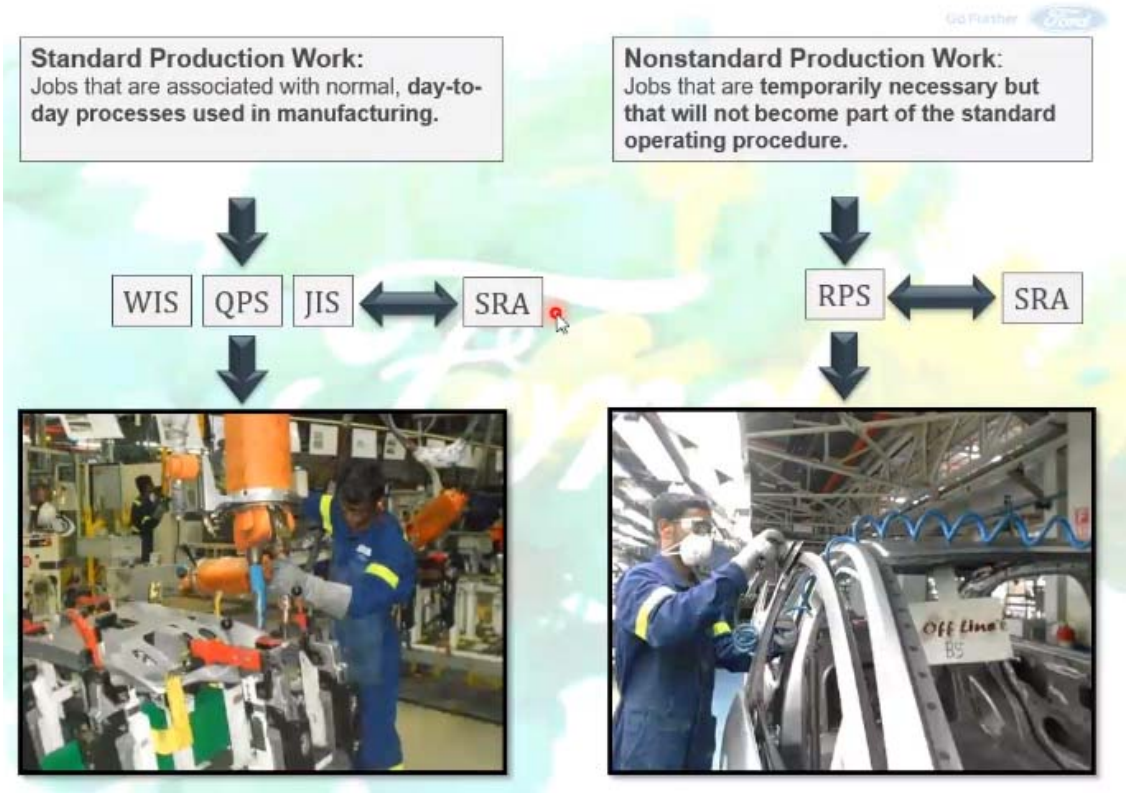
7. The Guest Lecture on "**Best Safety Practices in Automobile Industry**" was successfully conducted through online mode on 26/03/2021. The resource person **Mr.X.Velanganni Manohar**, Senior Health and Safety officer – Ford India Private Limited, delivered the expert lecture on the respective topics. He covered the latest safety developments in the present automobile industry like

- Safety measures adopted in Ford India Private Limited
- Safety practices implemented in job floor
- Ergonomic and workplace stress
- Fire safety
- Electrical safety
- Workplace accident: Reporting & Prevention
- Importance of PPE for employees
- Latest advancement in safety

- ❖ Emergency action plans

The topics covered were very useful for everyone to learn about the safety practices in automobile industry. A total 94 members registered out of which 51 members participated in the guest lecture.



Staff Participation:

1. Dr.S.Thirugnanam, Professor and Mr.R.Srinivasan Assistant Professor (Sr.G) presented a paper in 3rd National E-conference on Recent Development in Automobile and Mechanical Engineering (RDAME'21) at Easwari Engineering College under the title of "Experimental investigations on the effect of heat treatment on Aluminium Hybrid Composites reinforced with Graphite and Aluminium Oxide"

Staff In charge HoD / Mech