Sri Venkateswara College of Engineering

FEA in Wind Turbine,

Date: 15th November, 2022

Chief Guest

Ms.Roshi Gautham, Products and Solutions Development Team leader,FEA Engineer, Chennai, Tamil Nadu, India

Google meet link :meet.google.com/cfh-jreb-enp

SVCE | Sri Venkateswara College of Engineering

SME SVCE

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

DEPARTMENT OF MECHANICAL ENGINEERING

SOCIETY OF MECHANICAL ENGINEERS

Solicit your Gracious Presence for the

Guest lecture on

Speech regarding FEA in wind turbine gearbox

Resource Person

Ms. Roshini Gautham

Products and Solutions Development Team Leader

Wind Simulation-FEA

SVCE-B.E (MECH) - Batch 2011

Meet link:

http://meet.google.com/cfh-jreb-enp

Date	Time
15th November,2022	11.00AM TO 12.00PM(IST)

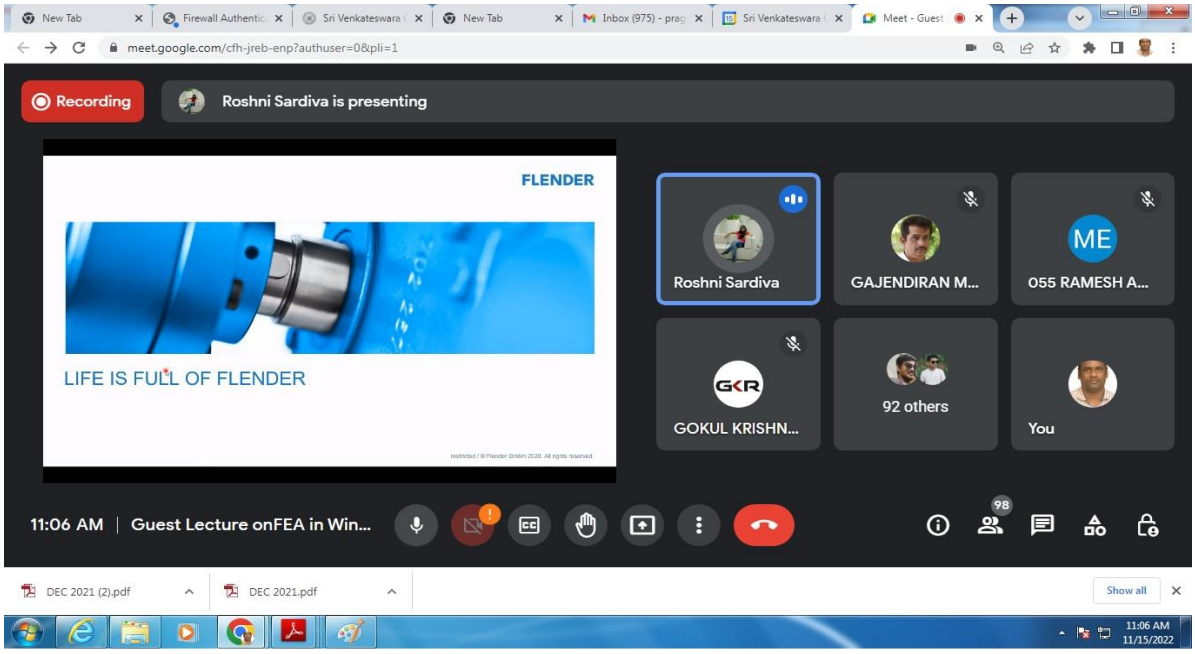
MODE:ONLINE

SRI VENKATESWARA COLLEGE OF ENGINEERING

To begin with SME Joint secretary Mr Gokul Krishnan from 3rd year delivered his welcome speech. Then gave the chief guest introduction given by Praveen kumar 3rd year pin the presence of our Hod Dr.S.Ramesh babu and Assistant head of the department Dr. Mohandass and also with other faculty members of Department of Mechanical Engineering Our chief guest

Ms.Roshni Gautham brief about the FEA Solutions aim for providing solution to a wide range of engineering problems. We have a track record of delivering FEA-verified product to field. We work with our clients with meticulous attention to detail, efficient speed, and straightforward communication. FEA, or finite element analysis, is a technique for predicting the response of structures and materials to environmental factors such as forces, heat and vibration.

GEAR UNITS, Here you will find the right gear unit solution for your application. We offer you helical and planetary gear units out of our standard modular construction system or as a finished application solution. The worldwide largest portfolio of industry couplings offers flexible, highly flexible, torsionally rigid, hydrodynamic as well as backlash-free solutions and railway couplings.Our modular construction system comprises all parts of the gear unit periphery from motor bell housings and torque reaction arms over swing-bases and oil-supply systems to complete bevel gear sets.Here you will find an overview of the lubricants.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Roshni Sardiva is presenting
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LIFE IS FULL OF FLENDER
Roshni Sardiva
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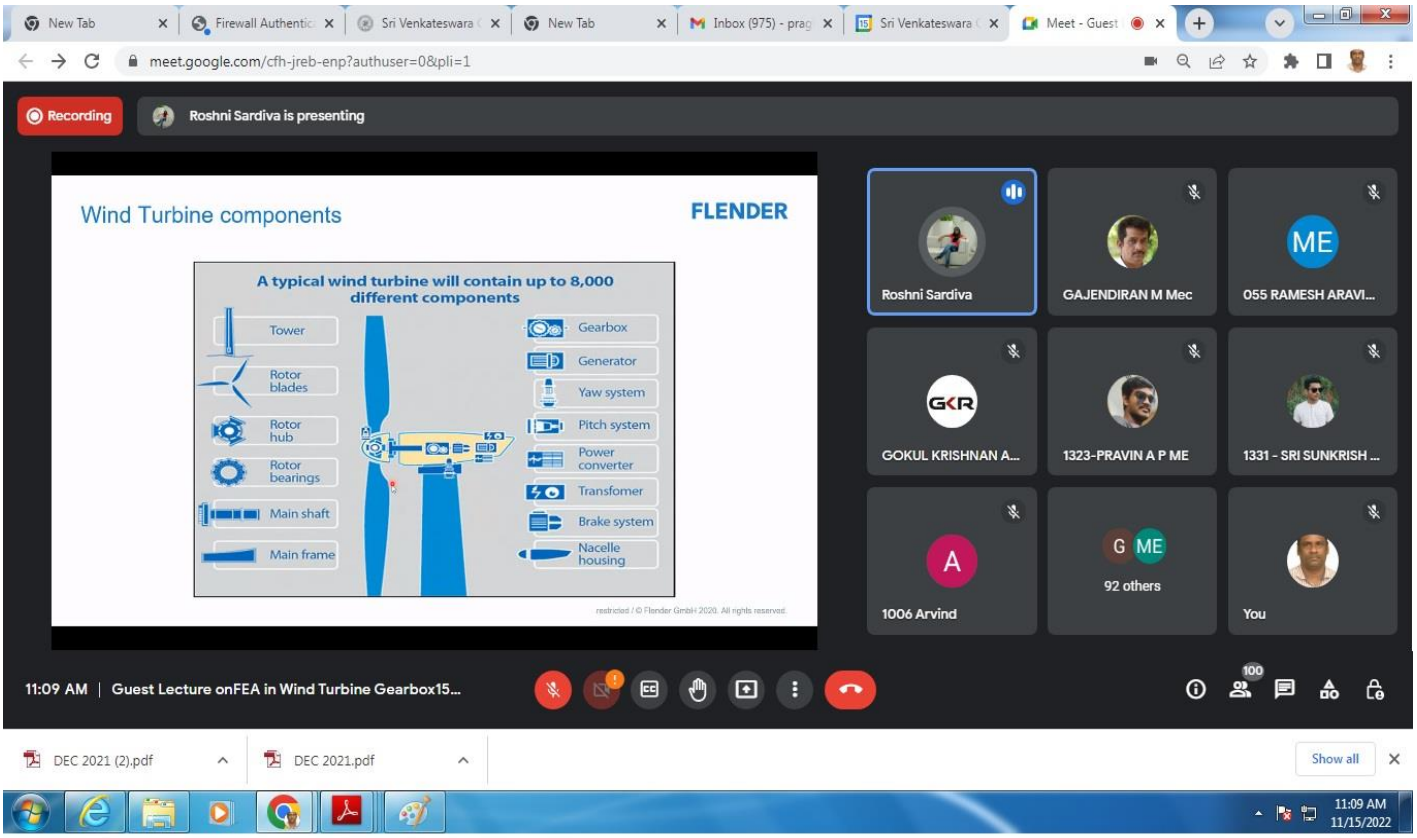
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Recording
Roshni Sardiva is presenting
Wind Turbine components
FLENDER
A typical wind turbine will contain up to 8,000 different components
Tower
Rotor blades
Rotor hub
Rotor bearings
Main shaft
Main frame
Gearbox
Generator
Yaw system
Pitch system
Power converter
Transfomer
Brake system
Nacelle housing
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Roshni Sardiva
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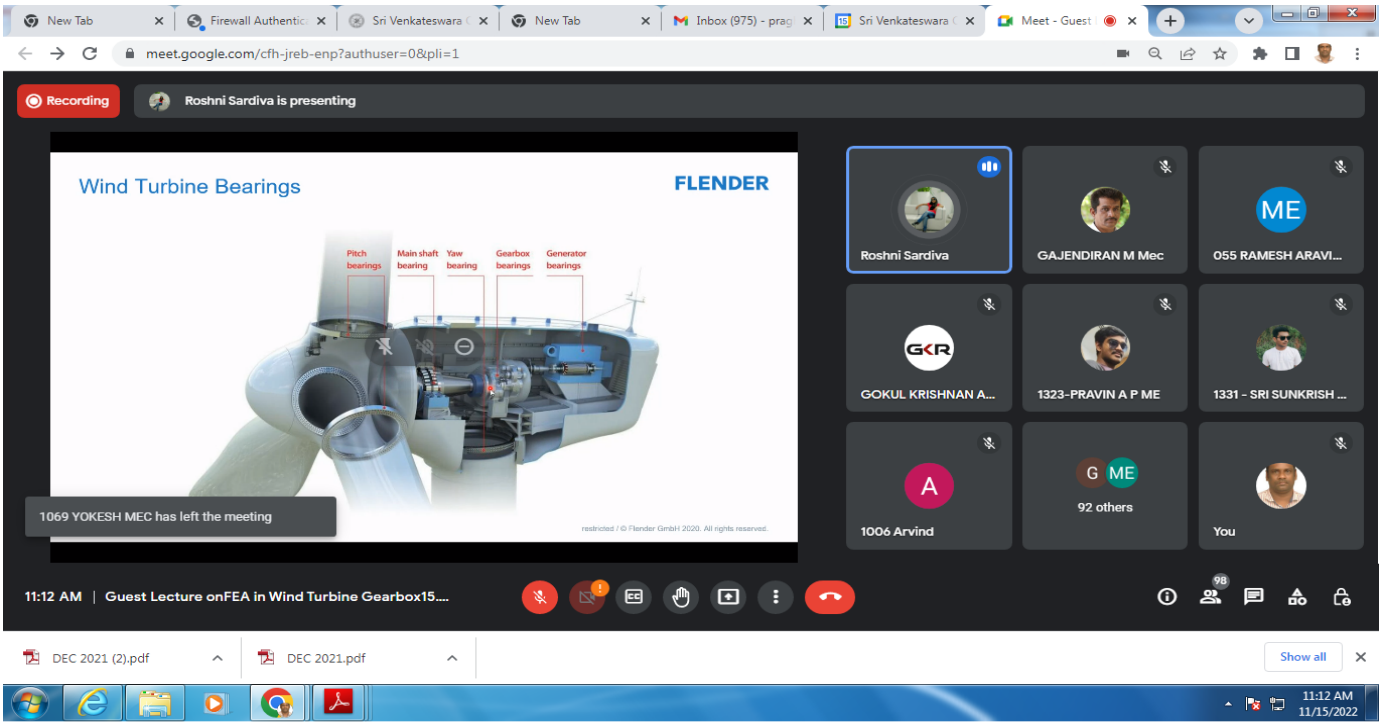
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Wind Turbine Bearings
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Pitch bearings
Main shaft bearing
Yaw bearing
Gearbox bearings
Generator bearings
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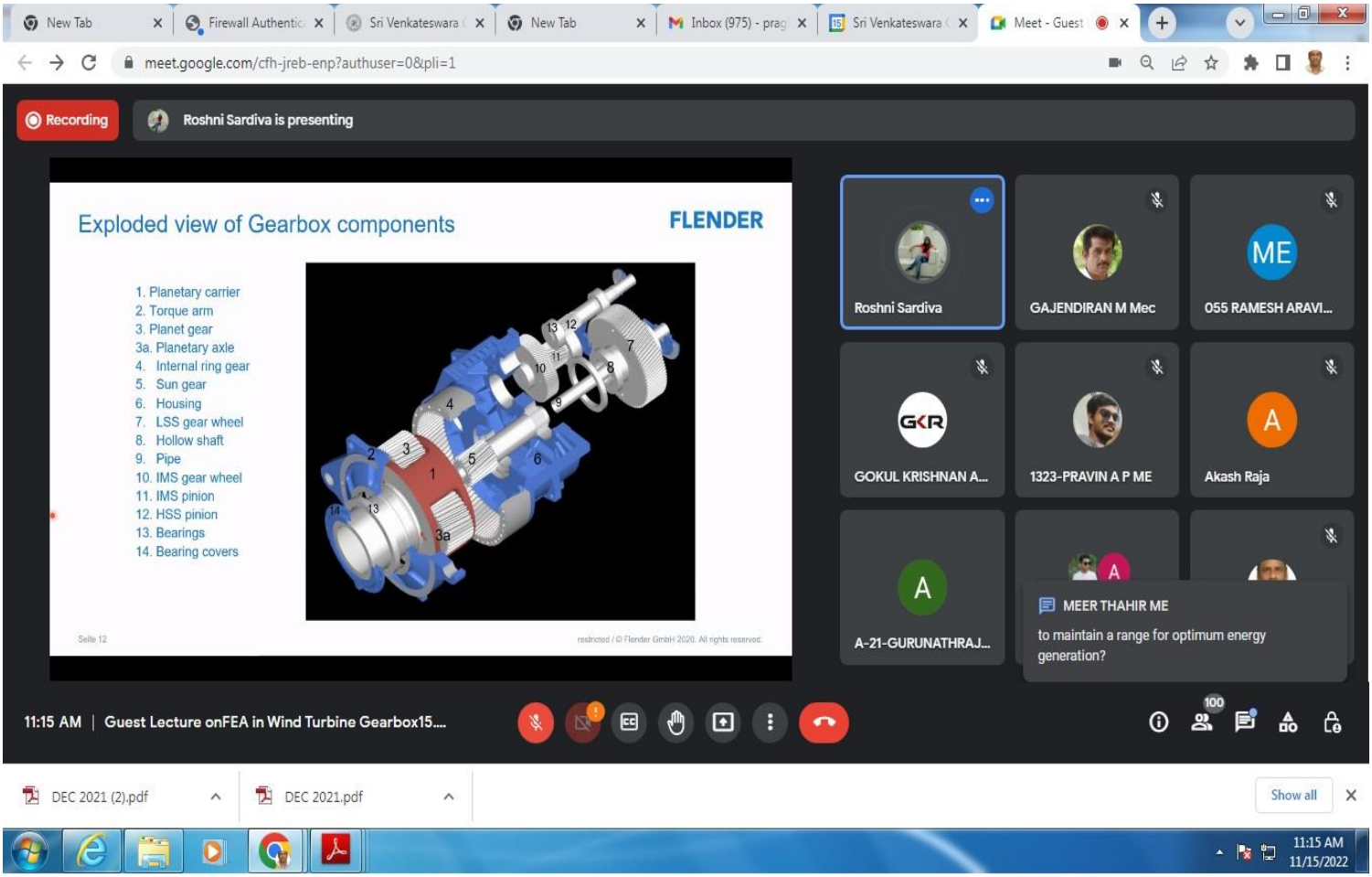
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Exploded view of Gearbox components
FLENDER
1. Planetary carrier
2. Torque arm
3. Planet gear
3a. Planetary axle
4. Internal ring gear
5. Sun gear
6. Housing
7. LSS gear wheel
8. Hollow shaft
9. Pipe
10. IMS gear wheel
11. IMS pinion
12. HSS pinion
13. Bearings
14. Bearing covers
Seite 12
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