

Department: ME | Date: December 02, 2021

EXPERT LECTURE

on

"ROLE OF MECHANICAL ENGINEERS IN AEROSPACE DOMAIN"

(December 02, 2021)

An online expert lecture on **"ROLE OF MECHANICAL ENGINEERS IN AEROSPACE DOMAIN"** was organized by the Department of Mechanical Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati, Andhra Pradesh.

The online expert lecture was scheduled on (December02, 2021@ 6.00 PM). The Coordinator of the event **Dr. Sadanand Sarapure**, Associate Professor, Department of Mechanical Engineering welcomed the Resource person and all the participants of this event and provided brief introduction about the talk.

Later **Dr. Sadanand Sarapure** introduced the resource person **Dr. MADEVA NAGARAL**, Deputy Manager (Design), Aircraft Research & Design Centre, Hindustan Aeronautics Limited, Bangalore-560037 to all the participants and later handed over the session to the guest speaker.

The online event was organized through Zoom platform. A total of 40students from Mechanical Engineering-SVEC actively participated in this event. The Event has received an overwhelming response from the participants.

A mechanical engineer in the aerospace field is not uncommon. Once an engineering degree such as mechanical engineering is obtained, a route into multiple areas of engineering is possible. Aerospace engineering is definitely a viable career path for a Mechanical Engineer. Mechanical engineering combines mathematics, physics and engineering principles with materials science to design, analyze, create, and maintenance of mechanical systems. It is one of the eldest and most varied of the engineering disciplines. It is the branch of engineering that is concerned with the creation and operation of machinery. The mechanical engineering profession demands a good understanding of the main areas including structural analysis, thermodynamics, mechanics, dynamics, materials science, and electricity.

Mechanical engineers are typically involved with the generation, distribution, and use of energy; the control and automation of manufacturing systems; the processing of materials; the design and development of machines; and the solutions to environmental problems. Mechanical engineers are distinguished by their personal versatility and creativity and also their vast knowledge. They are very reliable and valuable multidisciplinary team members.

The main objective of this expert lecture is to introduce the fundamental principles of Aeronautical Engineering from an Industry expert to the graduate students of Mechanical engineering and to motivate them to take up aeronautical engineering as career. The resource person exposed all his real time practical experience and important theoretical aspects which he has come across in his aerospace engineering journey.

The outcomes of Expert are as follows:

The participants came to know about the fundamentals of aeronautical engineering and technologies. Following were the important outcomes of the expert lecture

- Plan, conceptualize, and create mechanical designs for new products
- Perform engineering calculations to support design work
- Create and review technical drawings, plans, and specifications using computer software
- Importance of material selection and their testing
- Career opportunities in aeronautical engineering.

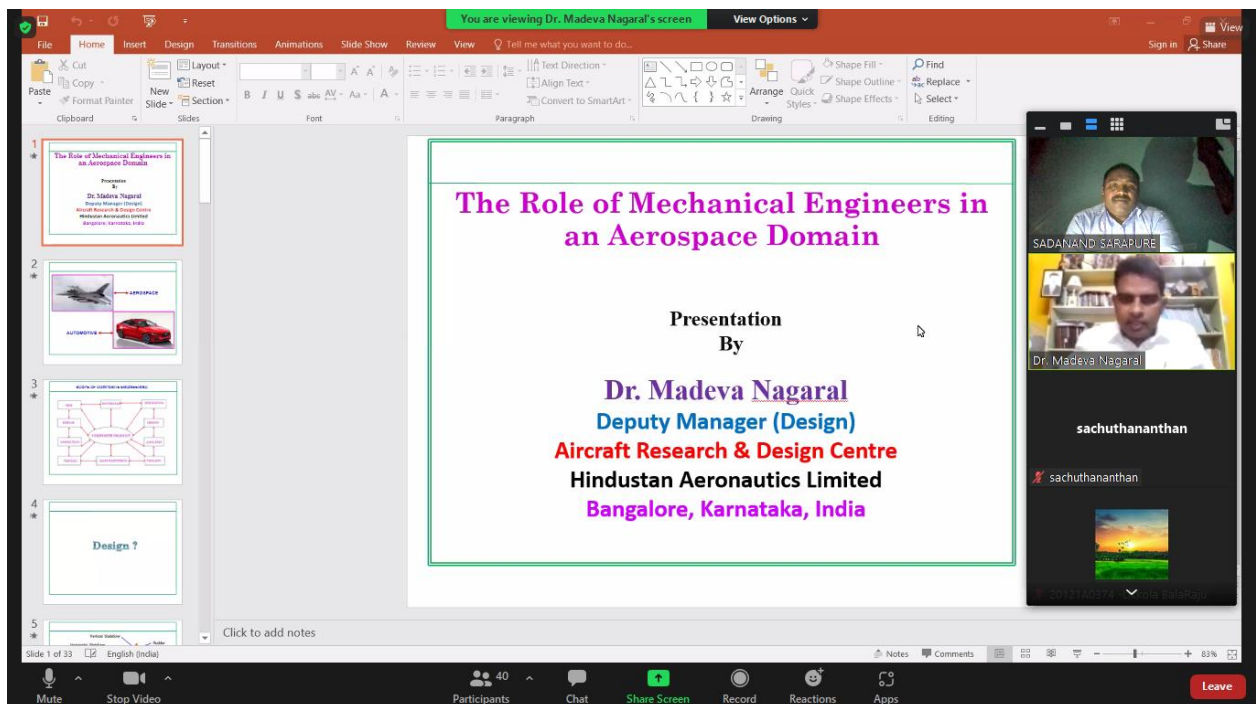


Figure 1 welcoming and introduction of resource person

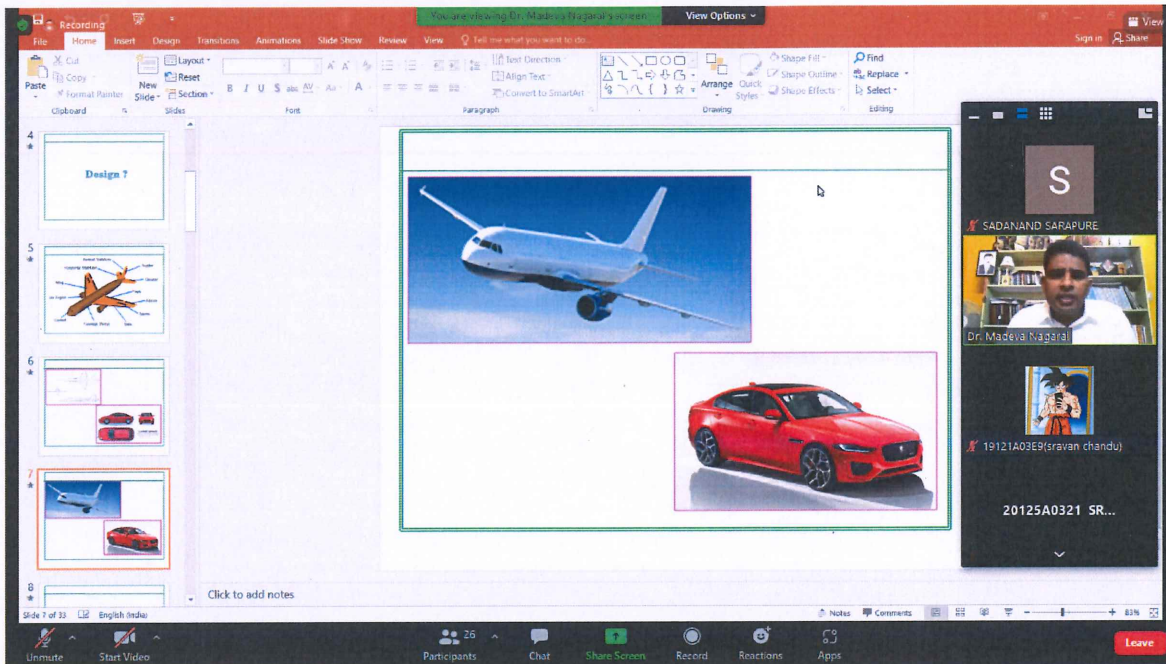


Figure 2 Resource person delivering talk about concepts of design

Dr. Sadanand Sarapure, Coordinator of this event initially thanked the Management of SVEC, The Director, The Principal and Head of the Department of Mechanical Engineering for having extended their support in organizing this expert lecture. Later, he thanked all the participants for their enthusiastic participation. At the end, he conveyed his heartfelt thanks to the Resource person without whom this program would not have happened. Later he thanked all the stakeholders for their constant support in making this event a grand success.

Sadanand Sarapure
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