

Department: ME | Date: March 23, 2022

ONE DAY WORKSHOP

on
"MATLAB FOR MECHANICAL ENGINEERING SUBJECTS"
(March 23, 2022)

An online workshop on "**MATLAB FOR MECHANICAL ENGINEERING SUBJECTS**" was organized by the Department of Mechanical Engineering in association with IEI (The Institution of Engineers (India)), Sree Vidyanikethan Engineering College (Autonomous), Tirupati, Andhra Pradesh.

The online workshop was scheduled on (March 23, 2022@ 10.00 AM to 04.00 PM). The Coordinator of the event **Dr. Gurubasavaraju T M**, Assistant Professor, Department of Mechanical Engineering welcomed the Resource person and all the participants of this event and provided brief introduction about the session.

Session 1.

The Coordinator of the event **Dr. Gurubasavaraju T M** introduced the resource person **Dr. Lijesh KP**, Post-Doctoral Fellow, Louisiana State University, Baton Rouge, Louisiana Area, USA, to all the participants and later handed over the session to the guest speaker. The speaker detailed the procedure of curve fitting using MATLAB and its application in various fields like sports, Engineering, Biomedical and Aerospace.

Session 2.

The Coordinator of the event **Dr. Gurubasavaraju T M** introduced the resource person **Dr. Mohammad Taufik**, Assistant Professor, Department of Mechanical Engineering, MANIT, Bhopal, Madhya Pradesh, India 462003, to all the participants and later handed over the session to the guest speaker. The resource person introduced the basic coding and building blocks of the MATLAB to the participants and demonstrated various methods of operation used in MATLAB.

The online event was organized through Zoom platform. A total of 120 students from Mechanical Engineering-SVEC actively participated in this event. The Event has received an overwhelming response from the participants.

The main objective of this online workshop is to educate the students on usage of MATLAB and its basics in solving the mechanical Engineering problems. Also, conducting this WORKSHOP on "APPLICATION OF MATLAB IN MECHANICAL ENGINEERING SUBJECTS" is to enhance the technical knowledge of the participants on usage of the coding software in solving mechanical engineering problems. Analyzing the designed components for various industrial applications. To provide insights into the advanced methods of modelling the system and extracting the performance of the devices and interpreting the results in readable means.

The outcomes of Workshop are as follows:

The participants came to know about the basic coding using MATLAB and its operations.

- Creation of Arrays and Matrices
- Generating random Numbers and linear sequence of numbers using linspace.
- Create Graphs using basic codes
- Curve fitting and basic math scripts for solving the equations.

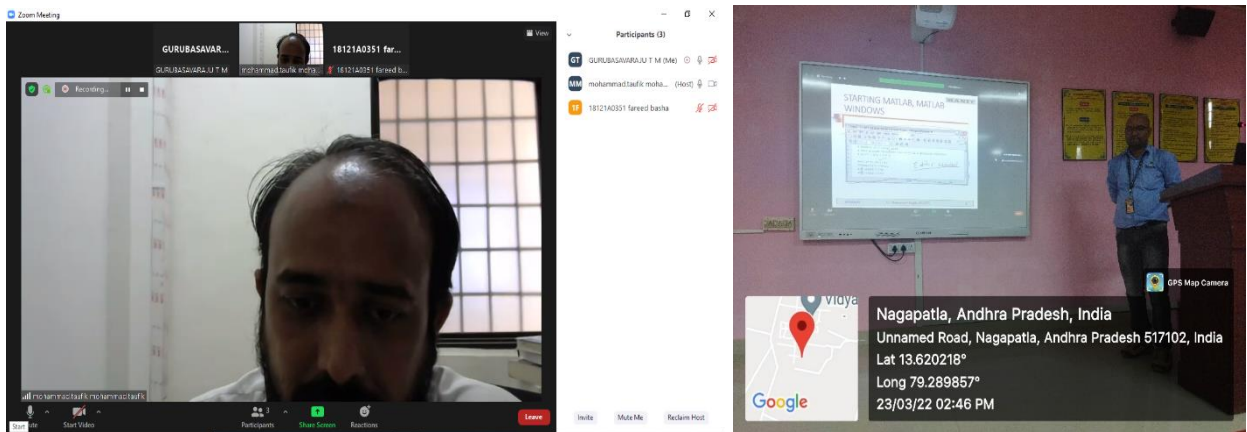


Figure 1 welcoming and introduction of resource person

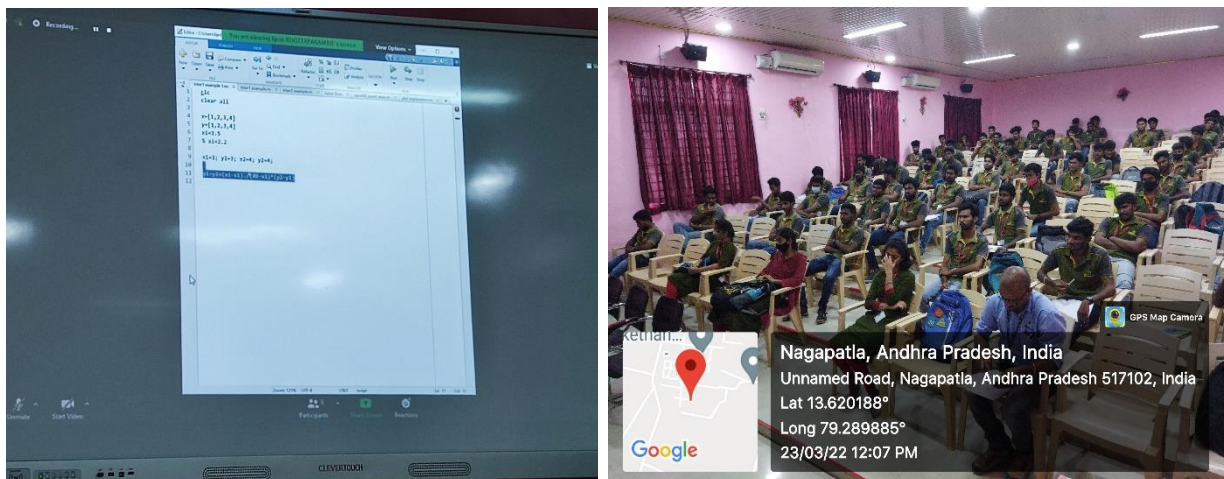
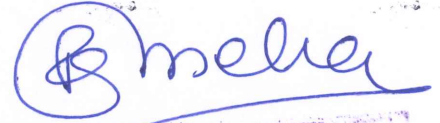


Figure 2 Resource person delivering talk about concepts of design

Dr. Gurubasavaraju T M, 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 workshop. 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.



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