

Department: ME | Date: 20<sup>th</sup> to 21<sup>st</sup> September, 2019

ICT based Two-Day Faculty Development Programme

on

## **“SCILAB for Engineering Computation”**

Department of Mechanical Engineering organized an ICT based Two-Day Faculty Development Programme on “SCILAB for Engineering Computation” on 20<sup>th</sup> and 21<sup>st</sup> September, 2019. Dr. V. Ganesan, Professor (Superannuated), IIT Madras & Research Advisor, Dept of ME, SVEC and Dr. Vijayashree, IIT Madras were the resource persons of the program.

During inaugural session, Dr. K.C. Varaprasad, Professor & Head, Department of Mechanical Engineering accentuated the need for organizing the program. This program was organized to empower the faculty members with a working knowledge on Scilab. The emphasis was given on how Scilab fits in teaching the theoretical and laboratory courses.

The resource persons dealt the following concepts with hands-on training sessions:

- Features and capabilities of Scilab
- Programming with Scilab
- Modeling advanced engineering problems with Scilab and its toolboxes

Dr. V. Ganesan emphasized the prominence of Scilab to the participants. Scilab is a free, open source, cross platform software for numerical computation. It provides a powerful computing environment for engineering and scientific applications. Scilab provides functionalities comparable to existing state- of- the- art commercial products.

As mentioned by Dr, Vijayashree, Scilab is an open source alternative to MATLAB and is becoming an industry standard for scientific and technical computing. Hence, almost anyone who has to carry out any computation will find the program extremely useful. It can be used for data analysis, signal processing, image enhancement, fluid dynamics simulations, and numerical optimization.

The theoretical concepts were dealt by the resource persons and hands-on training was provided through tutorials. Basic computations, Matrices, Plotting and Advanced applications were discussed during the training. The resource persons encouraged the participants to show interest on the Scilab programming by providing challenges and announced cash prizes to the participants.



**Dr. V. Ganesan, Research Advisor, SVEC addressing during Inaugural Session**



**Participants of the Workshop**



### Certificate Distribution

During the valedictory function on 21st September 2019, certificates were distributed to the participants. The feedback was collected from the participants and it found to be satisfactory. Dr. V. Ganesan advised members of faculty to make a Scilab companion for the subjects being taught.



### Felicitation to the Resource Persons