



POORNIMA

COLLEGE OF ENGINEERING

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A Report On Workshop On

“INTRODUCTION TO PROGRAMMING USING MATLAB”

TITLE AND DURATION: Introduction to programming using MATLAB on August 04, 2021.

SPONSORS & SPORTEERS: Not applicable.

ORGANIZERS: Department of Electrical Engineering, Poornima College of Engineering, Jaipur.

ABOUT THE WORKSHOP:

Dr. Pankaj Verma coordinated and executed the workshop on Introduction to programming using MATLAB scheduled on August 04, 2021. In the first half of the workshop, he conducted the session programming codes and in the second half of the workshop he conducted hands on training on the same. In addition to this he explains the feature of matlab and importance of matlab for the engineers. Highlight of his contains are as under.

- MATLAB is a software package for high-performance mathematical computation, visualization, and programming environment. It provides an interactive environment with hundreds of built-in functions for technical computing, graphics, and animations.
- MATLAB stands for Matrix Laboratory. MATLAB was written initially to implement a simple approach to matrix software developed by the LINPACK (Linear system package) and EISPACK (Eigen system package) projects. MATLAB is a modern programming language environment, and it has refined data structures, includes built-in editing and debugging tools, and supports object-oriented programming.
- MATLAB is Multi-paradigm. So, it can work with multiple types of programming approaches, such as Functional, Object-Oriented, and Visual based programming environment.

MATLAB is also a programming language. As its name contains the word Matrix, MATLAB does its' all computing based on mathematical matrices and arrays. MATLAB's all types of variables hold data in the form of the array only, let it be an integer type, character type or String type variable

- MATLAB is a dynamic and weakly typed programming language. MATLAB environment handles tasks of the declaration of the data type of the variables and provision for an appropriate amount of storage for the variables.
- The development of the MATLAB started in the late 1970s by Cleve Moler, the chairman of the Computer Science department at the University of New Mexico. Cleve wanted to make his students able to use LINPACK & EISPACK (software libraries for numerical computing, written in FORTRAN), and without learning FORTRAN. In 1984, Cleve Moler with Jack Little & Steve Bangert rewrote MATLAB in C and founded MathWorks. These libraries were known as JACKPAC at that time, later these were revised in 2000 for matrix manipulation and named as LAPACK.

The workshop was concluded with vote of thanks to the department and institution heads and all the student participants.

GLIMPSES OF THE WORKSHOP:



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