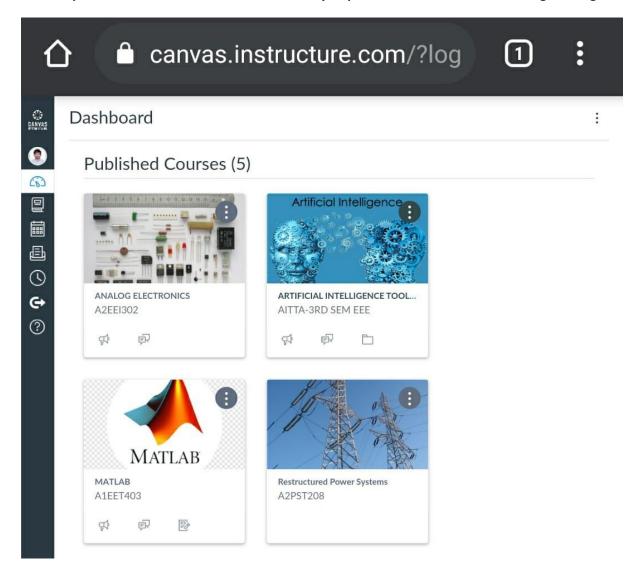
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Course description

MATLAB® is a software package which is being used by the scientific and engineering community all over the world. This is one of the most versatile and user-friendly software useful for solving large and complex problems.

This course, gives a comprehensive account of MATLAB basics and its implementation in design and analysis of systems in engineering.

Also provides a detailed insight of MATLAB environment, illustrating its different features, elaborates the basic features of programming language, relates to the basic program control structures, i.e., loops and branches and their implementation, describes operations on vectors and matrices, relates to handling of polynomials, illustrates the different methods of data input and output, and describes two-dimensional and three-dimensional graphics commands available.

Course objectives

- 1. To give an understanding of the basic environment in MATLAB and different data types
- 2. To enable students to learn how to use functions and structures
- 3. To empower the students with knowledge of vectors and matrices
- 4. To impart the skill of solving equations and plotting using graphics in MATLAB

Course outcomes

Upon successful completion of this course, a student will be able to:

- 1. Understand the main features of the MATLAB development environment
- 2. Learn the MATLAB programming fundamentals
- 3. Gain ability to write programs using input, output functions
- 4. Gain ability to write programs for matrix manipulations
- 5. Handle polynomials
- 6. Use 2D and 3D Graphic commands

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