

MATLAB Programming for Engineers

MATLAB is widely used for data analysis, simulation and other areas of engineering computation, however, it is typically not covered in academic coursework beyond an introductory level. The “MATLAB Programming for Engineering” course provides working engineers with the in-depth knowledge of the MATLAB programming language and built-in numerical analysis capabilities needed to solve real engineering problems. This course is intended for practicing engineers who want to use MATLAB as a practical problem solving tool.

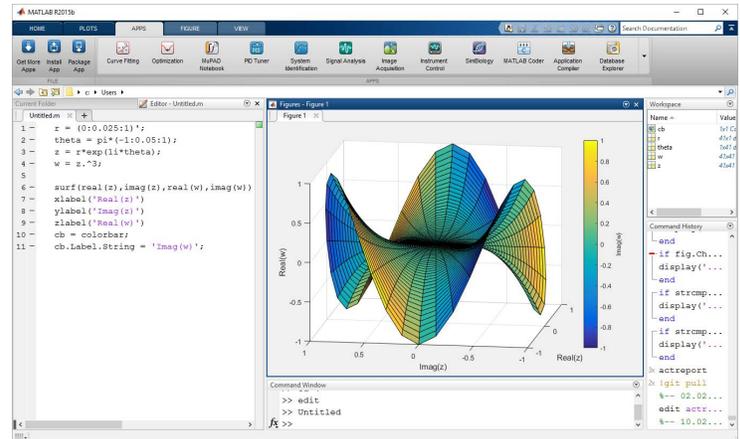
The “MATLAB Programming for Engineering” course is delivered 100% online. It consists of forty hours of course materials in which participants must successfully complete within a fourteen week period in order to obtain the certificate of completion. Check program website for course dates at go.osu.edu/eng-matlab.

PARTICIPANTS WILL LEARN HOW TO:

1. Use scalars, scripts, built-in functions
2. Create and index arrays
3. Understand user-defined functions and program structure
4. Use local functions, global variables
5. Test and debug
6. Use structs and struct arrays
7. Use and understand dialog boxes, message boxes and images
8. Use curve fitting and interpolation
9. Solve systems of linear equations and ordinary differential equations
10. Link MATLAB to Simulink

PRE-REQUISITES

An elementary understanding of computer programming in any language, and undergraduate-level knowledge of basic engineering physics and math is expected.



ABOUT THE INSTRUCTORS

The MATLAB Programming for Engineers course is co-taught by Dr. James Toney and Dr. Adithya Jayakumar within the Dept of Engineering Education.

Dr. James Toney is a senior lecturer in the Dept of Engineering Education. With over 20 years of experience, his research areas include, electro-optics; electric field sensing; photonic device modeling; wide-band gap semiconductor nuclear radiation detectors.

Dr. Adithya Jayakumar is a senior lecturer in the Dept of Engineering Education. He founded the student organization Design for 90 and currently serve as its advisor. The organization works to design products and tools for folks who are underserved in the central Ohio region and beyond. Additionally, Adithya has served as one of the Resident Directors to Humanitarian Engineering trips to Panajachel, Guatemala.

PRICE

\$799 Per Person

EARLY BIRD DISCOUNT:

\$725 per person

If registered & paid two weeks before the course start date.

REGISTER

To register, please visit: go.osu.edu/eng-matlab

CONTACT

Professional and Distance Education Programs

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