

MATLAB Course



Time

14:10-17:10



Location

Classroom 2624,
6F, Building 2



Registration
or question

Email to Bruce

(bruce@saturn.yzu.edu.tw)
or contact #2531

MATLAB®
& SIMULINK®



Course Detail

MATLAB Basic I

Data : 3/ 8

Start to use MATLAB

1. Introduction for MATLAB User Interface
2. How to plot in MATLAB
3. Introduction for MATLAB variables

Working with the MATLAB User Interface

- Reading data from file
- Saving and loading variables
- Plotting data

Variables and Expressions

- Entering commands
- Creating variables & Data Type
- Getting help
- Accessing and modifying values in variables
- Creating character variables

MATLAB Basic II

Data : 3 / 15

Introduction for programming process in MATLAB environment

Automating Commands with Scripts

- A modeling example
- The Command History
- Creating script files
- Running scripts
- Code sections
- Publishing scripts

MATLAB Adv

Data : 3/22

1. How to write and call function M file in MATLAB
2. Introduction for different type of function

Writing Functions

- Creating functions
- Calling functions
- Workspaces
- Path and precedence

Structuring Code

- Private functions
- Subfunctions
- Nested functions
- Function handles
- Anonymous functions
- Precedence rules
- Comparison of function types

Statistic Basic in MATLAB

Data : 3/29

1. How to store data in an appropriate data type.
2. Access and manipulate data stored in a statistical data type.
3. How to do statistical plotting in MATLAB

Importing and Organizing Data

- Importing data
- Table arrays
- Categorical data

Exploring Data

- Statistic related plotting
- Correlations
- Grouped data