

**Course Title: Neural Network With MATLAB/
Simulink for Control System Application**

Course Code: EEA 168

Course Background / Summary:

Neural Network is one of the control algorithms which are gaining popularity. Its flexibility and ability of it to deal with nonlinear and complex systems make it the best option to be used. This course will introduce participants to how to make use of neural networks for the application of pattern recognition and decision making. MATLAB/ Simulink will be the tool to test the control algorithm.

Course Objectives:

- Use neural network control algorithm for pattern recognition and decision making.
- Familiarize with MATLAB/ Simulink as the processing engine for this neural network algorithm.

Target Audience:

- Electricians, Research assistants, Research officers, Researchers, Academicians
- Technicians, Hobbyist
- Engineers & Instructors

Course Duration: 3 Days

Course Contents

1.0 Introduction to Radio Frequency Theory

2.0 Basic Knowledge on MATLAB/ Simulink Introduction to Data Communication Theory

3.0 Write and use Neural Network Algorithm for Pattern Recognition and Decision Making