

Course Title: Digital Electronics for Motor Control Application

Course Code: EEA 146

Course Background / Summary:

Digital electronics are an important element being used for electronics, automation systems for house appliances, and industry. This course will introduce the participants to make use of and apply this electronics circuit IC (AND, OR, 555 TIMER, SR, JK., etc) for the application of motor control.

Course Objectives:

- Acknowledge digital circuit elements for motor control
- Control DC and AC machine, stepper motor, and RC servo motor

Target Audience:

- Electricians, Research assistants, Research officers, Researchers, Academicians
- Technicians and Engineers
- Instructors

Course Duration: 3 Days

Course Contents

1.0 Introduction to Electronic Circuit

2.0 Introduction to Basic AC and DC Machine, Stepper Motor, and RC Servo Motor

3.0 Construct Circuit for Motor Control Application

4.0 Commissioning, Testing, and Fault Finding Circuit using Oscilloscope