# **UNIVERSITI KUALA LUMPUR**

### MALAYSIAN SPANISH INSTITUTE



## Course Title: Analog Circuit Design Fundamentals Course Code: EEA 193

#### **Course Background / Summary:**

This course is suitable for Electrical Engineers who work in consultation companies, contractors, and maintenance fields in a factory. Electrical Design has a huge demand in many segments like design, manufacture, and installation of power and distribution systems, Sub-stations Design, commercial and Domestic interior lighting

#### **Course Objectives:**

- Understand the working principle of active and passive components
- Understand the frequency response of an RLC Circuit
- Design a first order and second order passive filter
- Design a single stage and double stage amplifier

#### **Target Audience:**

- Industrial workers from technicians to engineers, etc.
- Teaching staff (vocational & technical teachers), lecturers, etc.

**Course Duration: 4 Days** 

Course	Contents

1.0 Basic Circuits Using passive components

5.0 Basic Circuits Using active components

2.0 Transient Response in DC circuit

**6.0 MOSFET Multistage Amplifier** 

3.0 Resonance in AC circuit

7.0 Laboratory Tutorial Exercise: Simulation Tools Application

4.0 Passive Analog Filter