

Course Title: Industrial Communication

Course Code: EEA 172

Course Background / Summary:

This subject will introduce the essential topics of computer communications which consist of serial/parallel communications, interfaces, transmission media, data communication equipment, link control/ protocols, and error detection. It actually describes the basic communication process that takes place between computers which then forms standard industrial communications in industries. Finally, it will introduce a basic local network of computers and focus on the design and implementation of LAN within a small workgroup.

Course Objectives:

- Explain the theory of industrial communication, the pyramid of automation, and data transmission media and relate the theory with the application in manufacturing industries.
- Explain the concept, example, operating principle, and basic application of field bus technology (Device Net) in relation to industries.
- Describe the terms, terminology, characteristics communication process, protocol, architecture, topology, and basic components and functions of PC communication and networking.

Target Audience:

- Management Level/ Supervisory Level/ Supporting Staffs

Course Duration: 5 Days

Course Contents

1.0 Introduction to Industrial Communication

2.0 Fundamentals of Data Communication

3.0 Ports, Modem and Transmission Media

4.0 Ethernet Technology in Industrial Communication