

DIPLOMA IN ENGINEERING TECHNOLOGY (INDUSTRIAL COMMUNICATION SYSTEM)

JPT/BPP(K)1000-600/B293 JId3(7)(N/523/4/0237)(MQA/PA 4870) 12/2019

PROGRAMME BRIEF

This programme introduces the underlying principles and tools needed to design effective communications systems, and outlining the equipment, software, and protocols structures and models required to transmit, report and process real-time data in an integrated automation plant.

Students will plan and use the appropriate tools to design, configure, and verify the operation of data communication system in which communication networks are the critical backbone of automation and control systems to manage information for monitoring, control, and automation.

The rapidly converging industrial network protocols such as Ethernet/ IP, ControlNet, DeviceNet, Modbus, Profibus, and EtherCAT will also be discussed to ensure that the graduates are able to cope with the advancement of technology and trend in industrial protocol and communication system.

CORE STUDY AREAS

- Computer Programming
- Industrial Network & Communication
- Instruments and Control
- Industrial Network Protocols

JOB OPPORTUNITIES

- Industrial Communication Technologist
- Industrial Network Infrastructure Designer
- Industrial IT Technical Assistant
- Industrial Communication Network Planner

“ This programme integrates various industrial bus communication technology in one system by Bechhoff, Germany. It includes HART, Fieldbus and Profibus by SIEMENS. ”