Course Title: Big Data Analytics   Course Code: IR 104

Course Background / Summary:

This subject provides the participants to obtain, store, transform and analyze large data problems. They will be introduced to an algorithm to classify the data and make predictions or forecasting. From this data, the participants will be able to identify good or defective products based on missing components in images using Orange Software.

Course Objectives:

- Perform data analysis to solve specific problems related to manufacturing production line.
- Formulate data driven algorithm using Python and Orange Software.
- Critically evaluate predictive data models and detect future trends using ARIMA.

Target Audience:

- Engineers, IOT Analytics, Fresh Graduates, Industrial Workers

Course Duration: 3 Days

Course Contents
1.0 BDA Overview
2.0 Introduction to Data Modelling
3.0 Data Cycles in Smart Factory
4.0 Analyzing Data using ARIMA Method
5.0 Learning Data Sense with Orange
6.0 Basics of AI, Data Science and Machine Learning
7.0 Advanced Analytics vs Traditional BI
8.0 Important Considerations in Building BDA Applications
9.0 Main Roles in BDA

IR 4.0 / ICT