



JEPPIAAR ENGINEERING COLLEGE
(A Christian Minority Institution)
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai 119.
(ISO 9001:2008 Certified & NBA Accredited Institution)



YOKOGAWA TRAINING (18th Aug – 22nd Aug 2014) – Report

The Yokogawa Training Programme on “**DCS FUNDAMENTALS AND ENGINEERING WITH FIELD INSTRUMENTS**” was a five day workshop organized by the Department of Electronics and Instrumentation Engineering to have hands on experience on the current working scenario in the field of instrumentation and equip themselves practically with the latest technologies used in the field. **65** students participated and got benefited by acquiring knowledge through the Training Programme. The workshop lasted for 5 days starting from **18th August to 22nd August**, and expert trainers from Yokogawa **Ms. Lydia Jennifer** and **Ms. Lalitha Manohar** handled the sessions in an interactive way. The two main topics covered by them were DCS and Field Instruments. A training manual on Filed Instruments and DCS CS3000 along were given to each participant

Day 1

The first day started with the trainers giving a brief introduction about their Company Yokogawa India Limited, its mission and vision, the current projects they are working on and the regional headquarters present in India. The trainers started the class with the evolution of Yokogawa , and the currently used DCS(Distributed Control System) which was CS3000. The Divisions of DCS were clearly explained with the main components of DCS being HIS (Human Interface Station), FCS (Field Control Station) and Communication Bus which helps in exchanging the data between the FCS and HIS. The students also practised on the control loops using the CS3000 software.



MOU Signed Between E&I Department of Jeppiaar Engineering College and Yokogawa India Limited to train the Students on Industrial Automation Programme

Day 2:

The different types of control loops especially open loop, close loop, cascade loop slip range loop were explained and implemented practically using the software.

Day3:

The digital types of inputs especially the sequential loops were dealt and practised practically using the software



Guest Speech by Mr Anand during the training Sessions

Day 4:

The different types of alarms/ interlocks in the system with the messages displayed when the limit is exceeded were explained. Introduction to field instruments were dealt, including the instruments used in Process measurement. The main instruments used for temperature, pressure, level and flow were explained with the help of videos

Day 5:

The last day was spent by reviewing the latest instruments used in process measurement with practical implementation of transmitter, recorder and different modules used. The instruments were displayed and the students had the opportunity to directly witness the operation in a plant in large scale. And workshop ended with short test was conducted at the end, with 35 questions regarding the materials and topics learnt during the workshop.

A memorandum of understanding (**MOU**) was signed on 21.8.14 between E&I Department of Jeppiaar Engineering College and Yokogawa India Limited to train the Students on Industrial Automation Programme. All these were possible only by the untiring efforts of our College Management & Department without whom the training workshop would have been highly impossible.

The 5 day training workshop turned out to be an eye opener for all the students showing the real time importance of Instrumentation Engineers and their values.