Citizens of most countries require valid visa to enter Bangladesh. For details please visit: www.mofa.gov.bd/missions-officers

The participants will be provided with furnished accommodation and food at IUT campus. The maximum limit of the number of participants is 40. Early applications are highly encouraged.

The Short Course will be held in the beautiful campus of Islamic University of Technology (IUT) at Board Bazar, Gazipur, Bangladesh about 13 km north from the international airport of Bangladesh. Additional information about IUT campus is available at the website <www.iutoic-dhaka.edu>
A Programmable Logic Controller (PLC) is a general-purpose device that automatically controls machinery, facilities and assembly lines by user-defined programs. It also has a variety of communication functions for sequence, motion and process controllers. In the most basic terms, a PLC is a computer with a microprocessor but has no keyboard, mouse or monitor. It is designed to be enormously robust, so it could withstand harsh industrial environments such as extreme temperatures, vigorous vibrations, humidity, and electrical noise.

In the short course, the main components of a PLC system will be introduced and their hardware and software will be explained. Special attention to ladder programming for industrial processes will be examined through comprehensive examples. The course will also address the key challenges faced by automation engineers, technicians and academic experts while dealing with PLC systems.

To promote industrial automation learning and PLC programming to the new Generation.

To create opportunities in the job market for the Engineers.

Course Outcome

At the end of the course the participants will acquire knowledge on industrial automation in depth and meet real world industrial challenges. The participants will be able to handle any automated machine independently.

Overview of the topics to be covered

1. Overview of PLC and their application in industry
2. PLC hardware and types, Input/Output architecture
3. PLC ladder logic, ladder diagrams
4. Introduction to PLC programming with XG5000 Software
5. Digital control system of PLC
6. Logic functions, traffic control system using PLC
7. Motor Starter using PLC
8. Analog control system of PLC
9. Communication system of PLC
10. PID temperature control system
11. PLC maintenance and troubleshooting
12. PLC in SCADA system

Every year Islamic University of Technology (IUT) arranges intensive short courses to support the social and economic elevation of OIC member states. The aim of these short courses is to develop human resources in different branches of science, engineering and technical educations. Expert resource persons from renowned institutions of OIC member states as well as from different parts of the world share their valuable knowledge in the short courses. With the above aim, the Electrical and Electronic Engineering (EEE) Department of IUT is going to organize a short course in 2018. The title of the course is

“PLC Applications : Present State-of-the-Art”