

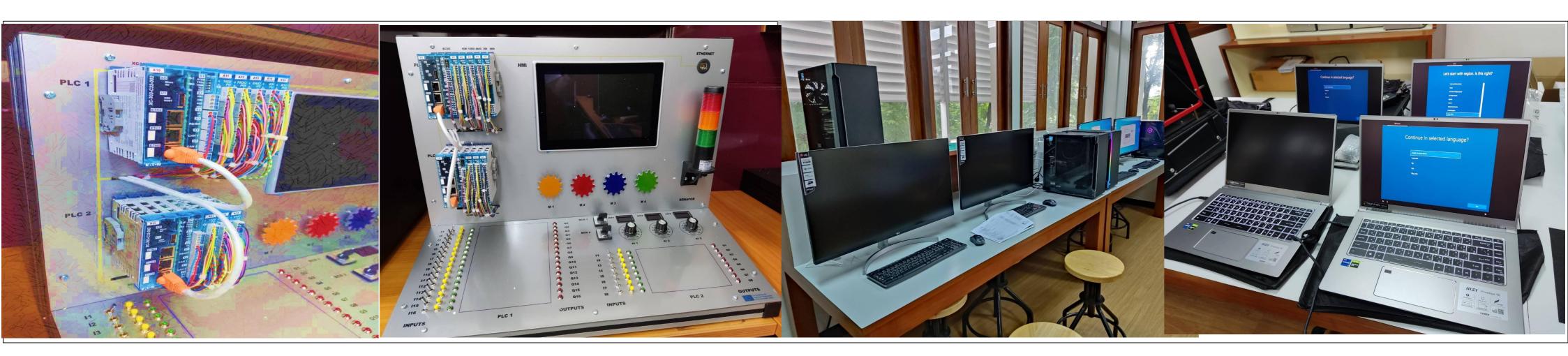
CENTER OF EXCELLENCE



IN INTELLIGENT CONTROL AUTOMATION OF PROCESS SYSTEMS

AS CENTER OF PROGRAMMABLE LOGIC CONTROLLER TRAINING

UNDER ERASMUS+ ASEAN FACTORI 4.0 PROJECT



The Erasmus+ Program for ASEAN FACTORI 4.0 Project enables a cooperation between Chulalongkorn University and University of Ruse "Angel Kanchev", Bulgaria. The coordination of the training activities, technical support, and the knowledge enhancement towards Programmable Logic Controller (PLC) makes a significant impact on the students to be familiarized with an understanding of PLC. Objective: To develop basic knowledge of PLC and implementation through the modification of existing three courses:

- 1. Industrial Automation (Electrical Engineering Undergraduate Program),
- 2. Process Dynamics and Control (Chemical Engineering Undergraduate Program)
- 3. Instrumentation in Chemical Process (Chemical Engineering Graduate Program).

Students shall be trained to gain sufficient practice on PLC languages and human-machine interface.

Address: Room 402, Boonrod Binson Bldg.

Department of Electrical Engineering

Faculty of Engineering, Chulalongkorn University

254 Phayathai Road, Wangmai, Pathumwan,

Bangkok 10330 Thailand

PLC hand-on laboratory contains workstations equipped with 4 computers and 4 notebooks, PLC unit and networking devices. A PLC training aims to familiarize vocational staff and students on how signals from input devices interface with PLC to invoke certain actions.

PLC hand-on laboratory aims to enhance the students' learning of methods to measure and analyze control variables. The PLC training course emphasizes the role of programmable logic controllers, integrating the concepts of transfer functions, system response, stability, offset error, and controller design into common practice.

ASEAN FACTORI 4.0

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Instructors

Prof. David Banjerdpongchai, Ph.D. (Head of Project)

Department of Electrical Engineering

Email: David.B@chula.ac.th

Prof. Paisan Kittisupakorn, Ph.D.

Department of Chemical Engineering

Email: Paisan.K@chula.ac.th

Sirikanya Singcuna, M.S.

Department of Chemical Engineering

Email: Sirikanya.S@chula.ac.th







