

Abstract

DEVELOPING CONTROL SYSTEM LABORATORY MANUAL FOR THE EXISTING COM3LAB and Scilab EQUIPMENT

By

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This thesis presents the development of laboratory manual based on the experimental on the board for COM3LAB and the simulation learning of Scilab as the supplementary learning in control system. This thesis would discuss about the procedure on making manual laboratory manual from the very beginning. It would cover about the theoretical aspect as well to support the understanding in control system, and there are many simulation cases and experiments for students who are curious in the control system from the basic until the real-life applications Block diagram and mathematical modelling is essential for the manual to analyze the system characteristics. COM3LAB would lead students into the practical work inside the laboratory, while Scilab bring the students to simulate many system cases. By the laboratory manual, students are having more interest to learn more about control system and grab more understanding about control system.

Keywords: Experiments, Simulation, Modelling