THE EFFECTIVENESS OF ACTIVE LEARNING IN THE REAL TIME SYSTEM COURSE ON THE TECHNICAL SKILLS OF COMPUTER ENGINEERING STUDENTS

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Active learning is one of the strategies that develop the technical skills of the students. This study focused on the application of Robotics in Real-time System (RTS) course. The researcher used the mobile robot as an instructional tool to train the Computer Engineering students in Arduino programming and to teach them how to control the input-output (I/O) device such as sensors and actuators.

This study proved that active learning approach is more effective than the typical method in teaching Real-Time System when it comes to technical aspects. There is a need of mastery and experience in demonstrating the Arduino in order to properly deliver the Arduino programming and hardware interfacing to the Arduino or Gizduino board.