

ABSTRACT

“Develop Module KL-100 About AC Power Measurement, Wheatstone Bridge Resistance, AC Current and Power in LED Light at Universitas Internasional Batam”

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Universitas Internasional Batam is one of largest universities in the city of Batam, where there is an industrial engineering faculty specializing in electrical engineering. In electrical engineering, students are taught in several materials, one of which is the Pengukuran Besaran Listrik. In materials of Pengukuran Besaran Listrik, a module will be developed for the strengthening of further teachings.

Module KL-100 is a module contained in the electrical engineering laboratory which is used as one of the practicums in Pengukuran Besaran Listrik. Module KL-100 also has a submodule who consisting of 11 module, and only 3 submodule are used in this experiments. Of the 3 submodule, which is KL-13001 Basic Electricity Experiments Module which is used for analysis of measurements of AC power and AC currents, then KL-13009 Basic Electronic Circuit Experiments (2) which is used for analysis of wheatstone bridge resistance and KL-13010 Special Electronic Components Experiments Module which is used for analysis of voltage generated by the LED light, and after that the results of the voltage are processed in power calculations. Then there is also a module KL-21001 that function as a power supply.

At the end of the experiment can be concluded, that develop on the module KL-100, indicate the final results for each subject of the experiments, where the results of the output about the experiments that have been tested will be used as a reference in the guidebook, so can be forwarded further to students in learning Pengukuran Besaran Listrik material.

Keywords : Module KL-100, AC Source, Power AC, Wheatstone Bridge, LED