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# DESIGN CATEGORY

# **DEVELOPMENT OF AN ELECTRONIC EDUCATIONAL KIT FOR LEARNING CONTROL PRINCIPLE SUBJECT; BLOCK DIAGRAM**

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Control principle is one of the subjects by Universiti Teknikal Malaysia Melaka (UTeM) and for FTKEE course BEET and BEEE are listed to enroll this subject. This subject is one of the hardest subject to be scored by the student. by referring to result from the survey which three respondents agree with it. The main objective of the project are to design and built a portable, unsupervise, and cost effective electronic educational kit that test student knowledge on closed loop block diagram. This kit used Arduino Mega as the heart of the kit, mobile phone with installed BDSL application and Bluetooth Module as medium of communication between Arduino Mega and mobile phones. The functionality of the kit will be verified by performing scenario test on the kit. A survey with 23 question was conducted in order to measure the effectiveness of the kit.



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