Design of Learning Management Information Systems at Basic Electronics Laboratory in Automotive Engineering Education UNY

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ABSTRACT

Educational learning management has an important function in order to achieve the objectives of the learning process. Therefore, this study aims to identify and develop a learning management information system in detail identifying learning needs in the laboratory, analyzing the needs of a learning management information system in the laboratory, and designing a learning management information system at the Basic Electronics (Eldas) Laboratory Department of Automotive Engineering, Faculty of Engineering UNY. The method used is research and development research. The data collection process was carried out through a literature review and Focus Group Discussion to obtain a basic approach to the design of the information system design to be developed. The results showed that the management of tools and materials in Eldas Lab. FT UNY Automotive consists of department heads, laboratory coordinators, and lab technicians and then student who jointly carry out the management process starting from procurement, circulation, and destruction of inventory and supplies. The required information system is expected to be able to increase the effectiveness and efficiency of the Eldas lab learning management in the form of an information system that can a) be easy to use to support independent learning services for students who practice in the New Normal era. b) Design of learning management information system at Eldas Lab PT. Automotive FT UNY is web-based and uses an input method with RFID and Barcode so as to facilitate interaction with Student Identity Card as well as providing a history of information on usage time, tools and materials used, recap of the value of practice questions, c) functions to recapitulation the storage location, length of time used, number of current, and students who borrow.

Kata Kunci: *Learning, Laboratory, management, information system.*