DEVELOPMENT, IMPLEMENTATION, AND MEASUREMENT OF LEARNING MANAGEMENT SYSTEM (LMS) IN INDONESIAN Universities DURING COVID-19: LARGE SCALE SURVEY WITH MULTI GROUP ANALYSIS APPROACH TO STRUCTURAL EQUATION MODELING

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ABSTRACT

With more than three billion people in quarantine, the status of digital spaces is shifting from convenience to necessity, as they become not only the main way to access information and services, but also the only remaining vector for economic, educational and recreational activities. and social interaction. Researchers analyzed the phenomena that occurred during Covid-19 which showed a tendency to use the LMS system that was not yet effective in education around the world, especially in developing countries. The integration of technology as an important factor for the development of teaching and learning that triggers responsible governments to introduce policies and initiatives as well as investments to build and maintain tools and infrastructure that supports the use of LMS in distance learning, especially during the Covid-19 pandemic. Not many studies have been reported in the context of developing countries. Moreover, very few people discuss the use of LMS in the world of higher education. The research was carried out at 12 accredited B universities in 6 islands (Sumatra, Java, Bali, Kalimantan, Sulawesi, Papua). This research will be carried out for a period of 3 years in the first year of research. The population of this research is lecturers and students throughout Indonesia who have implemented distance learning using LMS. Simple Random Sampling and the application of G* Power are the sampling methods of this study, through the G* power method the use of minimal sampling for PLS-SEM which involves 9 predictor variables is 278 respondents. However, we plan to distribute printed research questionnaires to 400 students at each university with a total of 4800 questionnaires distributed. The results of the study show that: 1) during the Covid-2019 pandemic, the current study seeks to create and validate a model for the success of the D&M Model in measuring LMS use, 2) the final scale consists of 19 items divided into six constructs (system quality, information quality). , service quality, system usage, user satisfaction, and LMS benefits)., 3) The scale measured has adequate psychometric characteristics and can be used in further research. The reliability and validity of the scale were only tested.

Kata Kunci: *Learning Management System, Covid-19: Survey, Multi Group Analysis, SEM.*