DEVELOPMENT OF LEARNING MEDIA SPATIAL DATA ANALYSIS BASED ON GOOGLE EARTH IN THE ENGINEERING FACULTY OF UNY

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ABSTRACT

Backgrounded by the lack of study reference sources and still insufficient average student scores, this study aims to develop a Route Analysis Based on Road Classification learning module with Google Earth in the Geomatics Course.

This study applys the Research and Development (R&D) method with the 4D model by Thiagarajan. The 4D development model consists of define, design, develop, and disseminate stages. The data were collected using questionnaires which will later be used as expert validation questionnaires and user feasibility tests.

The results of the research include: (1) the define stage, learning media are needed which are arranged based on the competencies of the Geomatics course, especially in the operation of the Google Earth application; (2) the design stage, the design of the module into four learning activities arranged with A4 paper size and 12pt arial font; (3) the develop stage, obtaining validation results by material experts produces a score of 122 with an average of 4.07 and obtains a proper predicate, validation results by media experts obtains a value of 201 with an average of 4.28, obtains a very feasible predicate, as well as the results of the due diligence by the user get a score of 3666 with an average of 4.52 and get the title of very decent; (4) disseminate stage, distributing learning modules to lecturers in the geomatics course and uploading them to Google Drive as learning media.

Kata Kunci: *Route analysis, Google earth, Learning module*