# Learning Spatial Information Based on Google Earth at the Faculty of Engineering UNY

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ABSTRACT

This study aims to develop a learning module for making digital polyline maps of local roads in Santren, Caturtunggal, Depok, Sleman as spatial data for Geographic Information Systems. The research method used is Research and Development (R&D) with a 4D model by Thiagarajan. This development model consists of define, design, develop, and disseminate stages. The researcher used observation and questionnaire data collection techniques. Observations were made to search for module content, while questionnaires were used for expert validation and user feasibility testing. The results of the research are (1) define stage, it is necessary to develop learning media based on competence; (2) the design stage, the module design is divided into four learning activities arranged in B5 size; (3) the develop stage, getting the validation results by material experts produces a score of 137 with an average of 4.57 so that it gets a very decent predicate, the validation results by media experts get a value of 128.1 with an average of 4.96 so that it gets a very decent predicate, and the results of the feasibility test by users get a score of 3739 with an average of 4.61 so that they get a very decent predicate; (4) the disseminate stage, the distribution of learning modules to lecturers who are in charge of courses and uploading them to Google Drive as a learning medium.

Kata Kunci: *learning modules, road polyline digital maps, spatial data, Geographic Information Systems*