

Efforts to Develop TPACK for High School Mathematics Teachers through Activities Oriented to Literacy and Numeracy Abilities

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ABSTRACT

Requiring the implementation of the Anticipated Curriculum at all levels of Indonesian education, asking teachers to play an active role in implementing learning innovations. However, due to the limitations of government programs in providing assistance, the knowledge held regarding this new curriculum is very limited. This is shown by the fact that there are no driving schools that have become models for implementing the Anticipated Curriculum. Community service activities (PPM) are carried out with the aim of facilitating teachers in improving TPACK (Technological, Pedagogical, and Content Knowledge) through discussions and digital media practices oriented towards literacy and numeracy skills. Understanding TPACK helps teachers to adapt to changes in the curriculum and mathematics learning needs in this technological era. There are five steps in PPM: (1) Dissemination of information from the implementation of PPM to school partners in Sleman. (2) Topic planning and assistance needed by partners. (3) Implementation of activities. (4) Evaluation by interview and filling out a self-efficacy questionnaire. (5) Follow-up takes the form of collecting digital media for literacy and numeracy learning as a reference for future mathematics learning. This activity was carried out offline for two weeks, and was attended by 60 teachers, 10 students, 5 lecturers and 2 assistants in this activity. Strengthening the required material consists of: (1) the concept of developing TPACK by teachers; (2) the urgency of literacy and numeracy skills; (3) current national education assessment policies, (4) the basics of preparing learning media according to certain basic competencies, and (5) the practice of developing learning media in the form of digital media in open platforms such as Quizziz and Liveworksheets. The evaluation results concluded that teachers became more confident in their knowledge of digital media oriented towards student literacy and numeracy, so they were more confident in implementing it in the classroom.

Kata Kunci: *Anticipated curriculum, TPACK, Literacy, Numeracy, Media digital*