

Development of book of R & D research methodology in mathematics educations

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ABSTRACT

Scientific research is a main part of academic education. In the last 25 years or so, the final assignment of academic education (from almost all mathematics education curricula in Indonesia, including the Merdeka Curriculum) has become one of the main parts of students' Graduate Learning Outcomes/CPL, although currently they are still given the opportunity to take non- study. The results of the initial analysis show that development research is a type of research that is also of great interest to students, both at undergraduate, postgraduate and doctoral levels. However, there are still problems: deficiencies, weaknesses, imperfections in existing products. Apart from that, products in the form of research and development methodology teaching materials that will be developed are not yet available or are still rare, even though they are really needed. The aim of this research is to develop and test/evaluate products in the form of teaching materials for development research methodologies in better mathematics education and learning and not with the aim of testing theories. The development procedures refer to developments from Borg & Gall: research and information gathering, product development, preliminary testing, operational testing, deployment and implementation. This mixed-method research is based on development procedures, obtaining two types of data, namely quantitative data and qualitative data. Data collection techniques are through documentation, interviews, observations and questionnaires. Data analysis techniques were carried out descriptively qualitatively and quantitatively. The main output of this research is a draft teaching material for research methodology for developing mathematics education. The results of this research will be published in the Mathematics Education Research Journal (JRPM), a national journal accredited by Sinta 2.

Kata Kunci: *book of reseach methodology, R & D*