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# Moodle-based Harmonization Learning Materials Development: Improving Learning Outcomes Office Management Automation Skills

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## ABSTRACT

The qualification of the teaching material coordination developed using Moodle media and the effectiveness of the materials developed to improve student learning outcomes. This research is developmental research. The development model used in this research is the ADDIE model. The data in this study are data on the validity of teaching materials that have been validated by material experts, media experts, and learning designers. The data collected are further analyzed descriptively to find out the effectiveness of the educational materials developed and to know the efficacy of the teaching materials tested. The results of the research show that Moodle-based coordination materials are worthy of being used to improve the learning outcomes of alignment subjects among students in the X class of OTKP Vocational Education at Swasta Bina Satria Medan. On the results of the post-test, there was an increase in the student's learning outcome by 0.033 ( $0.3 < g \leq 0.7$ ) with a moderate criterion. Furthermore, Moodle-based coordination teaching materials are effective in improving the learning outcomes of student coordination subjects. Based on the t test, the magnitude of the t value is 2,187, while the t table value is 0,396. This means that the value of t value  $>$  t table ( $2,187 > 0,396$ ), so the teaching material is declared effective.

## KEYWORDS

## INTRODUCTION

Teaching materials, in their role as providers of information, are really needed by educators and students as references and main sources of information in learning. In this case, educators are not just teachers; educators are also instructors from companies or IDUKA school partners who are invited to be guest teachers at schools. Therefore, harmonizing teaching materials requires the participation of both parties, namely teachers from the school and instructors from IDUKA, in the preparation process.

Bina Satria Medan Private Vocational School is one of the vocational schools selected as a Vocational School Center of Excellence in 2020. The determination of the vocational school as a vocational school center of excellence is inseparable from the school's success in establishing good and intense collaboration with its IDUKA partners.

Bina Satria Medan Private Vocational School has four skill competencies, including Light Vehicle Engineering (TKR), Motorcycle Engineering and Business (TBSM), Computer and Network Engineering (TKJ), and Office Management Automation (OTKP). One of the skill competencies that is prioritized as a proposal for the 2021 Center for Excellence Vocational School is the OTKP skill competency with its accompanying IDUKA partner, namely PT Alfa Scoropii. Through draft MoU Number: 115/YPBS-SMK/MOU/X/2020 concerning Collaboration in Curriculum Development Activities,

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