

DEVELOPMENT OF INTERACTIVE LEARNING MEDIA IN AUTOMATIC TRANSMISSION SYSTEM/CONTINUOUSLY VARIABLE TRANSMISSION (CVT) ON AUTOMATIC MOTORCYCLES BASED ON ADOBE FLASH CS3 FOR MOTORCYCLE ENGINEERING SKILL IN SMK AUTO MATSUDA KUNINGAN

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ABSTRACT

The purposes of this research are : (1) to create an interactive instructional media in automatic transmission system on automatic motorcycles based on Adobe Flash CS3 for motorcycle engineering skill in SMK Auto Matsuda Kuningan (2) to discover an advisability of interactive instructional media in automatic transmission system on automatic motorcycles based on adobe flash CS3 in SMK Auto Matsuda Kuningan.

The method of research is using Research and Development method (R&D) based on Luther research model (1994), which is quoted by Ariesto Hadi Sutopo (2003:32), and there are six steps development method, (1) concept, (2) design, (3) material collecting, (4) assembly, (5) testing, and (6) distribution. Adobe Flash CS3 is used to develop the product. The product data is in the form of qualitative data obtained from criticism and suggestions from a media expert, a material expert, a teacher and students, and also in the form of quantitative data from the assessment of a media expert, a material expert, a teacher and students. The data is analyzed as descriptive statistic.

The results of this study are : (1) interactive instructional media package of automatic transmission system in the form of 2 flash video files (.swf) published by Adobe Flash CS3, 1 windows projector file (.exe) to operate the instructional media without the adobe flash CS3 installed, 4 flash video files (.flv) in the instructional media, 3 MPEG layer-4 audio files (.MP4) as the combination of sound and picture/video in the instructional media and 1 PDF file that contains answers from evaluation of the instructional media. The size of file is 150 MB (mega bytes). This learning media is compatible with various Operating System (OS) such as Windows (XP,7,8 and 10). (2) the advisability results of instructional media in automatic transmission system by using Adobe Flash CS3 are : score from the material expert obtained an average value 3,30 or feasible, score from the media professional obtained an average value 3,18 or feasible, score from teachers obtained an average value 3,57 or very feasible, score from the small-scale trial test obtained an average value 3,41 or very feasible, and score from the large-scale trial test obtained an average value 3,47 or very feasible. Based on these results, the interactive learning media in automatic transmission system by using adobe flash CS3 for the competence of motorcycle engineering expertise in SMK Auto Matsuda is very feasible as instructional media.

Key words: media development, automatic transmission system