

ABSTRACT

DEVELOPMENT OF INTERACTIVE TUTORIAL MULTIMEDIA TEACHING MATERIAL THROUGH SCIENTIFIC APPROACH IN AUDIO DIGITAL MANIPULATION MATERIAL AT STUDENT OF SMK

BY

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The aims of research are (1) to describe potency and condition of audio digital manipulation teaching material in SMK, (2) to produce interactive tutorial multimedia teaching material in audio digital manipulation product, (3) to explain the effectiveness, (4) efficiency, and (5) interesting of interactive tutorial multimedia teaching material to audio digital manipulation teaching material.

The type of research is research and development. This research was done at SMK Negeri 1 Kotaagung Barat, SMK Negeri 1 Gading Rejo, SMK Karya Bhakti Pringsewu, and SMK PGRI Pringsewu. To collecting the data was done by test and questionnaire. The result data of research was analyzed by quantitative and qualitative.

The conclusion of research are (1) interactive tutorial multimedia has potency which is developed as in additional teaching materials to audio digital manipulation material to SMK student, (2) successfully designed product begins by finding teaching materials needs in audio digital manipulation and it is integrated in pre product design by making GBIPM, flow chat, storyboard, and it was validated by expert (media expert, matter expert, designs expert), (3) product of interactive tutorial multimedia is effective by student's result study average score $75,02 > 34,10$, (4) interactive tutorial multimedia usage is efficient by score 1, 71 (more than 1), and (5) interesting of interactive tutorial multimedia has average score 3,34 (very interesting).

Key word: audio digital manipulation material, interactive tutorial multimedia, teaching materials