

ABSTRAK

Depiani, M. R. (2021), Pengembangan Modul Pembelajaran IPA SMP Kelas VIII Berbasis *Mind Map* untuk Meningkatkan Hasil Belajar Peserta Didik. Tesis, Program Studi S2 Pendidikan IPA, Universitas Pendidikan Ganesha.

Tesis ini sudah disetujui dan diperiksa oleh Pembimbing I: Dr. A.A. Istri Rai Sudiatmika, M.Pd dan Pembimbing II: Dr. I Ketut Suidiana, M.Kes.

Kata-kata kunci: modul, *mind map*, hasil belajar.

Penelitian ini bertujuan menghasilkan modul pembelajaran IPA berbasis *mind map* yang valid, praktis dan efektif. Penelitian ini menggunakan metode *Research and Development* (R&D) dengan model 4D meliputi tahap *define*, *design*, *develop*, dan *disseminate*. Penelitian ini dilakukan sampai tahap *develop* yaitu uji efektivitas. Tahap *develop* dilakukan melalui tiga tahap yaitu uji validitas, uji kepraktisan dan uji efektivitas. Uji validasi dilakukan dengan pengisian angket validasi oleh dua ahli isi dan satu ahli bahasa. Uji kepraktisan dilakukan dengan pengisian angket kepraktisan oleh tiga guru IPA kelas VIII dan 20 peserta didik. Pelaksanaan uji kepraktisan dan efektivitas dilaksanakan di SMP Negeri 4 Singaraja Tahun Ajaran 2020/2021. Uji efektivitas dilakukan dengan memberikan *pretest* dan *posttest* kepada 20 peserta didik. Keefektifan modul dilihat dari N-gain score memenuhi $\geq 0,3$ dengan kriteria sedang dan hasil tes belajar peserta didik mencapai KKM $\geq 75\%$. Hasil penelitian menunjukkan bahwa: 1) modul dinyatakan sangat valid berdasarkan skor rata-rata ahli isi dan bahasa secara berurutan sebesar 0,97 berdasarkan uji Gregory dan 3,78 berdasarkan perhitungan rata-rata. 2) Modul dinyatakan sangat praktis dengan skor rata-rata oleh guru sebesar 3,85 dan kepraktisan oleh peserta didik sebesar 3,13 dengan kualifikasi praktis. 3) Berdasarkan hasil uji efektivitas N-gain score sebesar 0,54 dengan kriteria sedang dan hasil belajar peserta didik mencapai KKM $\geq 75\%$. Berdasarkan hasil penelitian dapat disimpulkan bahwa modul pembelajaran IPA berbasis *mind map* valid, praktis dan efektif digunakan dalam pembelajaran.

ABSTRACT

Depiani, M. R. (2021), Development of Mind Map-Based Science Learning Modules for SMP Class VIII to Improve Student Learning Outcomes. Thesis, Master's Degree Program in Science Education, Ganesha University of Education.

This Thesis has been approved by Advisor I: Dr. A.A. Istri Rai Sudiatmika, M.Pd and Advisor II: Dr. I Ketut Sudiana, M.Kes.

Key words: module, mind map, learning outcomes.

This study aims to produce a mind map-based science learning module that is valid, practical and effective. This study uses the Research and Development (R&D) method with a 4D model covering the define, design, develop, and disseminate stages. This research was carried out until the develop stage, namely the effectiveness test. The develop stage is carried out through three stages, namely validity test, practicality test and effectiveness test. The validation test was carried out by filling out a validation questionnaire by two content experts and one linguist. The practicality test was carried out by filling out a practicality questionnaire by three science teachers in class VIII and 20 students. The implementation of the practicality and effectiveness test was carried out at SMP Negeri 4 Singaraja for the 2020/2021 Academic Year. The effectiveness test was conducted by giving pretest and posttest to 20 students. The effectiveness of the module is seen from the N-gain score that meets 0.3 with moderate criteria and student learning test results reach KKM 75%. The results showed that: 1) the module was declared very valid based on the average score of content and language experts respectively 0.97 based on the Gregory test and 3.78 based on the average calculation. 2) The module is stated to be very practical with an average score by the teacher of 3.85 and practicality by the students of 3.13 with practical qualifications. 3) Based on the results of the effectiveness test, the N-gain score is 0.54 with moderate criteria and student learning outcomes reach KKM 75%. Based on the results of the study, it can be concluded that the mind map-based science learning module is valid, practical and effectively used in learning.