

## ABSTRAK

M. Abdurrazzaq Haya, 2022. Pengembangan Mobile learning Materi Suhu dan Perubahannya Pada Pembelajaran Fisika di Sekolah Menengah Pertama. Bapak Dr. Saprudin, S.Pd., M.Pd dan ibu Suryani Taib, S.Pd., M.Sc

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Penelitian ini bertujuan untuk 1) mengetahui cara mengembangkan *mobile learning* materi suhu dan perubahannya pada pembelajaran fisika di SMP, 2) Mengetahui kelayakkan dari produk pengembangan *mobile learning* suhu dan perubahannya pada pembelajaran fisika di SMP, 3) mengetahui tanggapan guru terhadap produk pengembangan *mobile learning* suhu dan perubahannya pada pembelajaran fisika di SMP, 4) mengetahui tanggapan siswa terhadap produk pengembangan *mobile learning* suhu dan perubahannya pada pembelajaran fisika di SMP.

Jenis penelitian ini adalah penelitian pengembangan atau sering disebut *Research and Development* (R&D) dan metode yang digunakan dalam penelitian ini adalah metode ADDIE. subjek penelitian ini berjumlah 3 validator ahli, 3 guru fisika, dan 22 siswa. Teknik pengumpulan data pada penelitian ini digunakan lembar penilaian yang berupa angket dan soal *prertest* dan *posttest*. Setelah data diperoleh dianalisis menggunakan uji skala likert.

Hasil analisis data menunjukkan bahwa secara umum pengembangan *mobile learning* materi suhu dan perubahannya pada pembelajaran fisika di sekolah menengah pertama dinyatakan sangat layak digunakan hal ini ditunjukan dengan hasil validasi ahli media, ahli materi, ahli tanggapan guru mata pelajaran fisika. Hasil belajar siswa serta hasil tanggapan siswa yang menunjukkan hasil untuk ahli materi sebesar 81% dengan kriteria sangat layak, ahli media 93% dengan kriteria sangat layak, ahli bahasa 89% dengan kriteria sangat layak. Tanggapan guru sebesar 88% dengan kriteria sangat baik dan hasil tanggapan siswa 70% sehingga hasil belajar siswa meningkat dan dikategorikan baik.

**Kata kunci :** pengembangan, *mobile learning*, suhu dan perubahannya.

## ABSTRACT

M. Abdurrazzaq Haya, 2022. Development of Mobile learning of Temperature Materials and Its Changes in Physics Learning in Junior High School. Mr. Dr. Saprudin, S.Pd., M.Pd and Mrs. Suryani Taib, S.Pd., M.Sc

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This study aims to 1) know how to develop mobile learning of temperature material and its changes in physics learning in junior high schools, 2) Knowing the efficacy of temperature mobile learning development products and their changes in physics learning in junior high schools, physics learning in junior high schools. 3) knowing the teacher's response to the temperature mobile learning development product and its changes in physics learning in junior high school, 4) knowing the student's response to the temperature mobile learning development product and its changes to physics learning in junior high school.

This type of research is development research or often called Research and Development (R&D) and the method used in this study is the ADDIE method. The subjects of this study amounted to 3 expert validators, 3 physics teachers, and 22 students. The data collection technique in this study used assessment sheets in the form of questionnaires and pretest and posttest questions. After the data were obtained, it was analyzed using a likert scale test.

The results of data analysis show that in general the development of mobile learning of temperature materials and their changes in physics learning in junior high schools are declared very feasible to use, this is aimed at the validation results of media experts, material experts, response experts for teachers of physics subjects. Student learning outcomes as well as student response results showing results for material experts were 81% with very decent criteria, media experts 93% with very decent criteria, linguists 89% with very decent criteria. Teacher responses were 88% with excellent criteria and 70% student response results so that student learning outcomes improved and categorized as good.

**Keywords :** development, mobile learning, temperature and its changes.