

Kholidatin Ni'mah. 2016. *Pengembangan Bahan Ajar Berbasis Augmented Reality pada Pembelajaran IPA Kelas VI MINU Salafiyah Gresik Tahun Ajaran 2015-2016*. Skripsi, Program Studi Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: (1) Badrud Tamam, S.Si., M.Pd., (2) Mohammad Edy Nurtamam, S.Pd., M.Si.

ABSTRAK

Tujuan penelitian ini adalah untuk mengembangkan bahan ajar berbasis *Augmented Reality* pada mata pelajaran IPA materi sistem tata surya dan mengetahui kelayakan bahan ajar berbasis *Augmented Reality* pada mata pelajaran IPA materi sistem tata surya. Bahan ajar berbasis *Augmented Reality* dibuat dengan menggunakan bantuan Autodesk 3ds Max 2009 dan *software library* ARToolKit. Pengembangan bahan ajar berbasis *Augmented Reality* dilakukan menggunakan model pengembangan 4D yang terdiri dari *Define* (pendefinisian), *Design* (perancangan), *Development* (pengembangan), *Disseminate* (penyebarluasan) dengan subjek uji coba siswa kelas VI MINU Salafiyah Gresik.

Hasil yang diperoleh dari validasi ahli materi sebesar 96,42%, validasi ahli media pembelajaran 89,77%, validasi ahli bahasa 98,43%, angket respon uji coba perorangan 96,66%, angket respon uji coba kelompok kecil 97,14%, dan angket respon uji coba kelompok besar 99,04%. Sedangkan pada tahap desiminasi diperoleh hasil angket respon guru sebesar 90,62% dan hasil angket respon siswa 96,55%. Sehingga berdasarkan tabel kriteria pencapaian nilai (keefektifan), diperoleh ketercapaian yang sangat tinggi. Berdasarkan hasil tersebut, dapat disimpulkan bahwa bahan ajar berbasis *Augmented Reality* layak digunakan untuk siswa SD kelas VI.

Kata Kunci : *pengembangan, bahan ajar, Augmented Reality, pembelajaran IPA*

Kholidatin Ni'mah. 2016. *The Development of Teaching Material Based on Augmented Reality on Science Learning at Class VI MINU Salafiyah Gresik Academic Year 2015-2016*. Thesis, Elementary School Teacher Education Study Program, Faculty of Education, University of Trunojoyo Madura. Advisors: (1) Badrud Tamam, S.Si., M.Pd., (2) Mohammad Edy Nurtamam, S.Pd., M.Si.

ABSTRACT

The aims of this study are to develop the teaching material based on *Augmented Reality* on solar system material Science subject and to know the feasibility of teaching material based on *Augmented Reality* on solar system material of Science subject. Teaching material based on *Augmented Reality* is made by the help of Autodesk 3ds Max 2009 and ARToolKit *software library*. The development of teaching material based on *Augmented Reality* is done by using 4D development model which consists of *Define, Design, Development, and Disseminate* with the students of class VI MINU Salafiyah Gresik as trial subject.

The result that obtained from matter expert validation is 96,42%, learning media expert validation is 89,77%, linguist validation is 98,43%, questionnaire responses of individual trial is 96,66%, questionnaire responses of small group trial is 97,14%, and questionnaire responses of large group trial is 99,04%. While in dissemination phase, it is obtained the result of teachers questionnaire responses is 90,62% and the result of students questionnaire responses is 96,55%. Therefore, based on the table of attainment criteria (effectiveness), it is obtained the great achievement. Based on the results, it can be concluded that the teaching material based on *Augmented Reality* is suitable to be used for elementary school students in class VI.

Keywords : *development, teaching material, Augmented Reality, Science learning.*