

**PENGEMBANGAN MODEL *OUTDOOR LEARNING* BERBASIS
FIELDWORK UNTUK PENCAPAIAN KOMPETENSI INTI MATA
PELAJARAN FISIKA**

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ABSTRAK

Penelitian ini bertujuan untuk: (1) Menghasilkan buku pedoman pengelolaan pelaksanaan model *outdoor learning* berbasis *fieldwork* yang layak pada materi fluida dinamis di SMA N 1 Banguntapan. (2) Mengetahui kelayakan perangkat pembelajaran model *outdoor learning* berbasis *fieldwork* pada materi fluida dinamis untuk pencapaian kompetensi inti. (3) Mengetahui ketercapaian kompetensi inti pada materi fluida dinamis melalui penerapan model *outdoor learning* berbasis *fieldwork* di SMA N 1 Banguntapan.

Penelitian ini merupakan penelitian *Research and Development* (R&D) yang menggunakan model 4-D (*Four D Models*), yang terdiri dari tahap *define*, *design*, *develop*, dan *disseminate*. Tahap *define* dilakukan melalui observasi di sekolah untuk mengidentifikasi masalah dalam pembelajaran fisika. Selanjutnya, dilakukan perancangan terhadap perangkat pembelajaran dan instrumen pengumpulan data. Pada tahap *develop* dilakukan validasi perangkat pembelajaran dan instrumen oleh dosen ahli dan guru fisika, selanjutnya instrumen penelitian direvisi dan hasilnya diujicobakan pada peserta didik kelas XI MIA 1 SMA N 1 Banguntapan, sehingga menghasilkan produk akhir dari penelitian. Penelitian ini hanya sampai pada tahap pengembangan karena keterbatasan waktu. Instrumen perangkat pembelajaran dan pengambilan data terdiri dari Silabus, RPP, LKPD, lembar validasi instrumen, lembar penilaian diri sikap spiritual, lembar observasi sikap sosial dan keterampilan, soal *pre-test* dan *post-test*, serta angket respon peserta didik.

Hasil penelitian ini yaitu: (1) Dihasilkan buku pedoman pengelolaan pelaksanaan model *outdoor learning* berbasis *fieldwork* yang layak pada materi fluida dinamis di SMA N 1 Banguntapan. (2) Perangkat pembelajaran model *outdoor learning* berbasis *fieldwork* pada materi fluida dinamis berdasarkan penilaian dari validator, telah layak digunakan untuk pencapaian kompetensi inti. (3) Model *outdoor learning* berbasis *fieldwork* dapat diterapkan untuk mencapai kompetensi inti pada materi fluida dinamis dengan persentase ketercapaian setiap kompetensi yaitu, kompetensi inti sikap spiritual (KI-1) 98%, kompetensi inti sikap sosial (KI-2) 92%, kompetensi inti pengetahuan (KI-3) 78%, dan kompetensi inti keterampilan (KI-4) 92,5%.

Kata Kunci : Model *outdoor learning*, *fieldwork*, dan kompetensi inti

**DEVELOPING FIELDWORK-BASED OUTDOOR LEARNING MODEL TO
ACHIEVE THE CORE COMPETENCE ON PHYSICS SUBJECT**

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ABSTRACT

This study aims to: (1) obtain management guidebook to implement fieldwork-based outdoor learning model which is decent in dynamic fluid material at SMA N 1 Banguntapan, (2) know learning devices of fieldwork-based outdoor learning model which is decent in dynamic fluid material to achieve core competencies, (3) know the achievement of core competencies in dynamic fluid material through the implementation of the fieldwork-based outdoor learning model.

This study is a Research and Development (R & D) that uses 4-D models (Four D Models), consisting of four stages: define, design, develop, and disseminate. First, the define stage was done through observation at school to identify physics learning problems. Then, at the design stage, learning tools and data collection instruments were designed. After that, at the develop stage, the learning tools and instruments were validated by expert lecturers and teachers of physics. After the learning tools and instruments were revised completely, they were used to test and take data on students of class XI MIA 1 SMA N 1 Banguntapan, resulting in a final product of research. This study is limited to the develop stage because of time constraints. Learning instrument devices and data collection consist of a syllabus, lesson plans (RPP), student worksheet (LKPD), instrument validation sheet, self-assessment spiritual attitude sheet, observation sheets on social attitudes and skills, pre-test and post-test questions, and questionnaire responses of learners.

The results of this study are: (1) management guidebook to implement fieldwork-based outdoor learning model which is decent in dynamic fluid material at SMA N 1 Banguntapan, (2) learning devices of fieldwork-based outdoor learning model in dynamic fluid material which is decent to achieve core competencies, (3) fieldwork-based outdoor learning model can be applied to achieve core competencies in dynamic fluid material with the percentage achievement of each competency as follows: core competence spiritual attitude (KI-1) 98%, core competence of social attitudes (KI-2) 92%, core competence of knowledge (KI-3) 78%, and core competence skills (KI-4) 92.5%.

Keywords: Outdoor learning, fieldwork, and core competencies.