

**PENGEMBANGAN MAJALAH FISIKA SEBAGAI ALTERNATIF SUMBER
BELAJAR MANDIRI BERKARAKTER ISLAMI MELALUI MATERI FLUIDA
DINAMIS UNTUK MENUMBUHKAN SIKAP SPIRITUAL DAN MOTIVASI
BELAJAR PADA SISWA KELAS XI SMA NEGERI 1 BANTUL**

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ABSTRAK

Penelitian ini bertujuan untuk : 1) menghasilkan Majalah Fisika Islami yang layak sebagai alternatif sumber belajar mandiri dalam materi fluida dinamis; 2) mengetahui pencapaian pertumbuhan sikap spiritual siswa SMA; dan 3) mengetahui pencapaian pertumbuhan motivasi belajar siswa SMA menggunakan Majalah Fisika Islami.

Penelitian ini menggunakan metode penelitian pengembangan (*developmental research*) dengan menggunakan model 4D (*Define, Design, Development, Dissemination*). Tahap *define* merupakan tahap awal pengembangan sumber belajar Majalah Fisika Islami berdasarkan kurikulum dan kebutuhan pembelajaran melalui observasi di sekolah subyek. Tahap *design* adalah tahap perancangan Majalah Fisika Islami dan perancangan instrumen pengumpul data. Pada tahap *develop*, dilakukan validasi produk oleh validator ahli dan validator praktisi, uji coba 1, revisi uji coba 1, uji coba 2 dan revisi uji coba 2. Uji coba produk dilakukan di SMA Negeri 1 Bantul. Subyek penelitian merupakan siswa kelas XI MIA 5 dan XI MIA 7 SMA Negeri 1 Bantul yang masing-masing kelas terdiri dari 26 siswa. Semua data dalam penelitian ini dijaring menggunakan angket. Jenis data yang dijaring berupa data kualitatif berupa saran/komentar validator dan respon siswa terhadap media, serta data kuantitatif berupa penilaian (skor) dari validator, respon siswa, pencapaian sikap spiritual, dan pencapaian motivasi belajar siswa.

Hasil penelitian pengembangan ini menunjukkan bahwa produk berupa Majalah Fisika Islami yang dikembangkan layak untuk digunakan sebagai alternatif sumber belajar mandiri. Kelayakan diperoleh dari hasil validasi oleh dua validator dengan kategori “sangat baik” untuk semua komponen. Selain hasil validasi, kelayakan juga diperoleh dari respon siswa yang berada pada kategori “baik”. Hasil pencapaian sikap spiritual mencapai skor 4,35 pada uji coba 1 dan 4,57 pada uji coba 2 yang keduanya termasuk dalam kategori “sangat baik”. Pertumbuhan motivasi belajar mencapai skor 3,85 yang termasuk dalam kategori “baik” pada uji coba ke-1 dan 4,27 pada uji coba ke-2 dengan kategori “sangat baik”. Tahap diseminasi dilakukan terbatas di sekolah subyek melalui guru Fisika dan pemberian produk ke perpustakaan sekolah.

Kata kunci : Majalah Fisika Islami, Fluida Dinamis, Sikap Spiritual, Motivasi Belajar

DEVELOPMENT OF PHYSIC MAGAZINE AS AN ALTERNATIVE ISLAMIC CHARACTER SELF-LEARNING RESOURCE FOR GROWING SPIRITUAL ATTITUDE AND LEARNING MOTIVATION FOR STUDENTS GRADE XI SMA NEGERI 1 BANTUL

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ABSTRACT

The research was aimed to : 1) producting Islamic Physics Magazine which was worthy to be an alternative self-learning resource in chapter dinamic fluid; 2) knowing the achievements of spiritual attitude growth for Senior High School students; and 3) knowing the achievements of learning motivation growth for Senior High School students via Islamic Physics Magazine.

The research used developmental research methode which was used 4D models (Define, Design, Development, Dissemination). Define phase was the first phase of developmental Islamic Physics Magazine learning resource based on the curriculum and learning needs via observation in school subject. Design phase was phase that designed Islamic Physics Magazine and data collecting instruments. In develope phase was done a validation product by expert validator and practition validator, first trial, revision of first trial, second trial, and revision of second trial. The trial was done at SMA Negeri 1 Bantul. The research subject were students of XI MIA 5 and students of XI MIA 7 SMA Negeri 1 Bantul that each of the class consist of 26 students. All of data research were collected using questionnaires. The kind of the data collected were qualitative data which was suggestions/comments from validator and student's responses about media, and the quantitative data which was validator's score, students' responses score, achievement of spiritual attitude score, and achievement of learning motivation score.

The result of the developmental research showed that the product, the Islamic Phisics Magazine, was worthy to develope for alternative of self-learning resource. The worthness was get from the valdation result by two validator that assessed "very good" category to all component. Beside of the result validation, the worthness was also get from students' respon that assessed "good" category. The result of achievements of spiritual attitude was 4,35 score on the first trial and 4,57 score on the second trial that both of it were in "very good" categories. The learning motivation growth was 3,85 skor that was in "good" at the 1st trial and was 4,27 skor a the second trial that was in "very good" category. Dissemination phase was just done at school subject by the Physics teachers and giving product to the school library.

Keywords : *Islamic Physics Magazine, Dinamic Fluid, Spiriuual Attitude, Learning Motivation*