# ABSTRAK

## Pengembangan E-Modul Dengan Metode *Problem Based Learning* Pada Materi Dinamika Gerak Kelas XI SMA Strada St. Thomas Aquino

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Pengembangan e-modul dengan metode *problem based learning* pada materi dinamika gerak telah dilakukan di kelas XI SMA Strada St. Thomas Aquino. Penelitian ini merupakan jenis penelitian *Research and Development* / R&D (Penelitian dan Pengembangan) dengan menggunakan model pengembangan 4D oleh Thiagarajan. Langkah-langkah 4D model, yaitu 1) Tahap pendefinisian (*Define*), 2)Tahap perencanaan (*Design*), 3) Tahap pengembangan (*Development*), dan 4) Tahap penyebaran (*Dissemination*).

Hasil penelitian menunjukkan bahwa produk e-modul dengan metode *problem based learning* layak digunakan untuk pembelajaran fisika SMA kelas XI. Hal ini ditunjukkan dengan hasil validasi oleh dua ahli materi dengan kriteria "sangat baik". Hasil validasi oleh dua ahli media dengan kriteria "sangat baik". Hasil uji praktikalitas oleh pendidik dengan kriteria "sangat baik" dan hasil uji respon peserta didik dengan kriteria "sangat baik".

**Kata Kunci** : Penelitian Pengembangan, E-modul, *Problem Based Learning*, Dinamika Gerak

# ABSTRACT

## Development of E-Module Using Problem Based Learning Method on Dynamics of Motion Lesson for Grade XI Students at Strada Saint Thomas Aquino Senior High School

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The development of an e-module using the problem-based learning method on dynamics of motion lesson has been conducted in Grade XI at Strada Saint Thomas Aquino Senior High School. This research falls under the Research and Development (R&D), utilizing the 4D development model by Thiagarajan. The 4D model involves the following steps: 1) Definition phase, 2) Design phase, 3) Development phase, and 4) Dissemination phase.

The research results indicate that the e-module product using the problem-based learning method is suitable for Grade XI physics learning in high school. This is shown by the validation results from two content experts, rated as "very good." The validation results from two media experts were also rated as "very good." The practicality test results by educators were rated as "very good," and the student response test results were rated as "very good."

**Keywords** : Development Research, E-module, Problem-Based Learning, Dynamics of Motion