

**PENGEMBANGAN BAHAN AJAR DIGITAL INTERAKTIF DENGAN
PENDEKATAN MULTI REPRESENTASI PADA MATERI BILANGAN
BULAT UNTUK SISWA SMPLB TUNARUNGU KELAS VII**

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ABSTRAK

Penelitian ini memiliki tujuan untuk: (1) membuat rancang bangun bahan ajar digital interaktif dengan pendekatan multi representasi pada materi bilangan bulat untuk siswa SMPLB tunarungu kelas VII; (2) mendeskripsikan hasil dari *prototype* bahan ajar digital interaktif dengan pendekatan multi representasi pada materi bilangan bulat untuk siswa SMPLB tunarungu kelas VII; dan (3) mengetahui keterpakaian dari bahan ajar digital interaktif dengan pendekatan multi representasi pada materi bilangan bulat untuk siswa SMPLB tunarungu kelas VII. Model yang dipergunakan dalam penelitian ini adalah model ADDIE (*Analysis, Design, Development, Implementation and Evaluation*). Tempat dilaksanakannya penelitian di SLB N 1 Buleleng. Rancang bangun bahan ajar digital interaktif terdiri dari halaman sampul depan, materi, video pembelajaran, media pembelajaran eksplorasi, latihan soal, daftar pustaka dan profil pengembang. Uji coba produk dilaksanakan secara terbatas sampai dengan layak, efisien dan efektif. *Prototype final* berupa bahan ajar digital interaktif yang sudah memiliki kriteria layak, efisien dan efektif. Format bahan ajar digital interaktif berupa *Single site, Website dan Epub3* yang dikemas dalam bentuk *Compact Disk*. Bahan ajar digital interaktif sudah memiliki kriteria layak dari segi kelayakan bahan ajar, sangat baik dari segi efisiensi dan efektif dari segi efektifitas. Ketuntasan klasikal yang diperoleh setelah melaksanakan uji coba sebesar 87,5%. dengan nilai tertinggi yang diperoleh sebesar 90 dan nilai terendah sebesar 70.

Kata-kata kunci: model ADDIE, bahan ajar digital interaktif, bilangan bulat, multi representasi, tunarungu.

**DEVELOPMENT OF INTERACTIVE DIGITAL TEACHING MATERIALS
WITH A MULTI-REPRESENTATION APPROACH TO INTEGER
MATERIAL FOR THE SEVENTH GRADE DEAF STUDENTS OF SMPLB**

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ABSTRACT

This research is purposed to: (1) created interactive digital teaching materials design with a multi-representation approach to integer material for the seventh grade deaf students of SMPLB; (2) described the results of the prototype of interactive digital teaching materials with a multi-representation approach to integer material for the seventh grade deaf students of SMPLB; (3) Knew the usability of interactive digital teaching materials with a multi-representation approach to integer material for the seventh grade deaf students of SMPLB. This research used the ADDIE model (Analysis, Design, Development, Implementation, and Evaluation). This research was conducted at SLB Negeri 1 Buleleng. The design of interactive digital teaching materials consists of front cover pages, materials, learning videos, instructional learning media, practice exercises, bibliography and developer profiles. Product trial test is carried out limited to feasible, efficient, and effective. Final prototype in the form of interactive digital teaching materials that already have decent, efficient and effective criteria. Format of interactive digital teaching materials in the form of Single site, Website and Epub3 which is packaged on CD. Interactive digital teaching materials already have feasible criteria in terms of the feasibility of teaching materials, very good in terms of efficiency and effectiveness in terms of effectiveness. Classical completeness obtained after conducting trials amounted to 87.5%. with the highest value obtained at 90 and the lowest value of 70.

Keywords: *ADDIE model, interactive digital teaching materials, integers, multi representations, deaf.*