

**PENGEMBANGAN BUKU TUTORIAL BELAJAR BAHASA ISYARAT
KATA KOLOK DIGITAL UNTUK TERMINOLOGI IPA SD TOPIK
PERTUMBUHAN DAN PERKEMBANGAN MANUSIA
(BUTOIJO)**

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ABSTRAK

Penelitian ini merupakan penelitian dan pengembangan (*Research and Development*) yang bertujuan untuk menghasilkan produk berupa Buku Tutorial Belajar Bahasa Isyarat *Kata kolok* Digital (BUTOIJO) untuk terminologi IPA SD pada topik pertumbuhan dan perkembangan manusia. Pengembangan ini dilatarbelakangi oleh kebutuhan sumber belajar yang mampu menjembatani komunikasi antara guru, siswa tuna rungu, dan siswa non-tunarungu di SD Negeri 2 Bengkulu, khususnya dalam memahami terminologi IPA yang sulit dijelaskan melalui bahasa isyarat konvensional. Subjek penelitian ini adalah buku tutorial belajar bahasa isyarat *Kata kolok* digital yang dikembangkan. Metode dan instrumen yang digunakan meliputi lembar validasi isi produk serta angket/kuesioner, sedangkan teknik analisis data menggunakan analisis deskriptif kuantitatif. Model pengembangan yang digunakan adalah ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Tahapan penelitian meliputi analisis kebutuhan, perancangan produk, pengembangan buku tutorial digital melalui aplikasi Canva, validasi oleh ahli media, ahli materi, dan ahli bahasa, serta uji kepraktisan melalui angket respon guru dan siswa. Hasil penelitian menunjukkan bahwa produk yang dikembangkan memiliki tingkat validitas sangat tinggi, dengan skor validasi ahli media sebesar 1,00, ahli materi sebesar 1,00, dan ahli bahasa sebesar 1,00. Uji kepraktisan menunjukkan kategori sangat praktis, dengan rata-rata respon guru sebesar 93,89% dan respon siswa sebesar 95,28%. Hasil tersebut membuktikan bahwa BUTOIJO valid, praktis, dan layak digunakan sebagai sumber belajar IPA di sekolah dasar. Selain itu, produk ini berkontribusi dalam mendukung pembelajaran inklusif sekaligus melestarikan bahasa isyarat lokal *Kata kolok* sebagai identitas budaya masyarakat Desa Bengkulu.

Kata Kunci: buku tutorial digital, belajar bahasa isyarat, bahasa isyarat *Kata kolok*, terminologi IPA SD, pertumbuhan dan perkembangan manusia.

**DEVELOPMENT OF A DIGITAL SIGN LANGUAGE LEARNING
TUTORIAL BOOK FOR ELEMENTARY SCHOOL SCIENCE
TERMINOLOGY ON THE TOPIC OF HUMAN GROWTH AND
DEVELOPMENT
(BUTOIJO)**

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ABSTRACT

This research is a research and development (R&D) project aimed at producing a digital Kata kolok sign language learning tutorial book (BUTOIJO) for elementary school science terminology on the topic of human growth and development. This development was motivated by the need for learning resources capable of bridging communication between teachers, deaf students, and non-deaf students at Bengkulu 2 Elementary School, particularly in understanding science terminology that is difficult to explain through conventional sign language. The subject of this research is the digital Kata kolok sign language learning tutorial book that was developed. The methods and instruments used include a product content validation sheet and a questionnaire, while the data analysis technique used quantitative descriptive analysis. The development model used is ADDIE (Analysis, Design, Development, Implementation, Evaluation). The research stages include needs analysis, product design, development of the digital tutorial book using the Canva application, validation by media experts, material experts, and language experts, and practicality testing through teacher and student response questionnaires. The results of the study indicate that the developed product has a very high level of validity, with validation scores of 1.00 from media experts, 1.00 from material experts, and 1.00 from language experts. The practicality test showed a very practical category, with an average teacher response of 93.89% and a student response of 95.28%. These results prove that BUTOIJO is valid, practical, and suitable for use as a science learning resource in elementary schools. Furthermore, this product contributes to supporting inclusive learning while preserving the local sign language, Kata kolok, as a cultural identity for the people of Bengkulu Village.

Keywords: *digital tutorial book, learning sign language, Kata kolok sign language, elementary science terminology, human growth and development.*