

**PENGEMBANGAN TEKNOLOGI ASISTIF NDEURS WATCH LAYAR  
OLED UNTUK MENINGKATKAN KEMAMPUAN ANAK DALAM  
MENGELOLA WAKTU**

TESIS

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# **Pengembangan Teknologi Asistif Ndeurs *Watch* Layar *OLED* untuk Meningkatkan Kemampuan Anak dalam Mengelola Waktu**

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**PENGEMBANGAN TEKNOLOGI ASISTIF NDEURS WATCH LAYAR *OLED*  
UNTUK MENINGKATKAN KEMAMPUAN ANAK**

## DALAM MENGELOLA WAKTU

### Abstrak

*Annisaa Pertiwi, 1602692 Prodi Pendidikan Khusus, Universitas Pendidikan Indonesia*

Tujuan yang ingin dicapai dalam pelaksanaan penelitian dan pengembangan ini untuk mendeskripsikan; (1) rumusan rancangan desain pengembangan teknologi asistif Ndeurs *Watch* layar *OLED* untuk meningkatkan kemampuan anak dalam mengelola waktu. (2) proses produksi pembuatan teknologi asistif Ndeurs *Watch* Layar *OLED*, (3) hasil analisis validasi ahli untuk kelayakan produk yang telah dikembangkan, dan (4) hasil validasi alat serta uji efektivitas alat untuk melihat pengaruh dari penggunaan alat terhadap kemampuan anak dalam mengelola waktu. Penelitian ini adalah penelitian dan pengembangan. Model pengembangan yang digunakan dalam pengembangan teknologi asistif berupa Ndeurs *Watch* Layar *OLED* mengadaptasi Model ADDIE. Hasil rancangan desain dan *prototype* alat sudah melalui validasi ahli dengan menggunakan *Expert Judgment* dan dinyatakan layak sebagai model operasional dan dapat dipakai dalam penelitian dengan hasil rerata penilaian lima ahli teknologi asistif berkualifikasi sangat baik. Hasil Uji Efektifitas alat menggunakan penelitian subjek tunggal dengan desain A-B-A dilakukan di sekolah dan dirumah. hasil pengamatan di Sekolah pada fase baseline (A-1) mendapatkan jumlah rerata persentase sebesar 7,6% hasil tersebut dikategorikan kurang dan menurun, fase Intervensi (B) sebesar 58% dengan kategori meningkat dengan hasil perilaku sasaran yang diperoleh baik, kemudian fase baseline-2 (A') sebesar 65% kemampuan subjek dinyatakan semakin meningkat. Maka dapat disimpulkan bahwa teknologi asistif Ndeurs *Watch* Layar *OLED* memberikan pengaruh pada kemampuan mengelola waktu yang dilakukan pada subjek penelitian.

**Kata Kunci : Ndeurs *Watch* Layar *OLED*, Mengelola Waktu, Model ADDIE**

**ASSISTIVE TECHNOLOGY DEVELOPMENT ON NDEURS OLED SCREEN WATCH IN IMPROVING CHILDREN'S ABILITY IN TIME MANAGEMENT**

## **Abstract**

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The aims of this research and development are to describe; (1) formulation of assistive technology development design on Ndeurs OLED screen Watch to improve children's ability in time management. (2) the production process of making assistive technology Ndeurs OLED screen Watch, (3) the results of expert validation analysis on the feasibility of the products that have been developed, and (4) the results of the tool validation and affectivity test to observe the effect of the tool toward children's ability in time management . This research is research and development. The development model used in assistive technology development was Ndeurs OLED Screen Watch adapting ADDIE Model. The results of the design and prototype of the tool have been through expert validation using Expert Judgment and declared as an operational model and can be used in research with the average results of the assessment of five highly qualified assistive technology experts. The result of tool's effectiveness test using a single subject research design A-B-A was conducted at school and at home. observations at the school in the baseline phase (A-1) got an average percentage of 7.6% the results are categorized as less and decreasing, Intervention phase (B) by 58% with the category of increasing with the results of the target behavior obtained well, then the baseline phase -2 (A ') by 65% the subject's ability is stated to be increasing. It can be concluded that the development of assistive technology using Ndeurs OLED screen Watch can improve ability to manage time on research subjects.

**Key Words: Ndeurs Watch OLED Screen, Time Management, ADDIE Model**

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