

## ABSTRAK

**Natalia Tampubolon. NIM: 5173151027. “Pengembangan Media Pembelajaran Berbasis Web Pada Mata Pelajaran Sistem Komputer Kelas X TKJ 1 SMK N 1 Lintongnihuta”. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2022.**

Penelitian ini bertujuan untuk mengetahui: (1) proses pengembangan media pembelajaran berbasis *web* pada materi memori dan CPU, (2) informasi tentang nilai kelayakan dan keefektifan media pembelajaran berbasis *web* di Kelas X TKJ 1 SMK N 1 Lintongnihuta.

Metode penelitian ini adalah *Research and Development* (R&D) dengan model pengembangan *Waterfall* (*Requirement analysis and Definition, System and Software Design, Implementation and Unit Testing, Integration and System Testing* dan *Operation and Maintenance*). Instrumen pengumpulan data diadaptasi dari Sriadi (2018) yang terdiri dari ahli materi, ahli media dan akseptansi peserta didik. Analisis data hasil kelayakan dilakukan melalui hitungan statistik deskriptif.

Hasil penelitian menunjukkan bahwa: (1) media pembelajaran berbasis *web* telah dikembangkan dengan alamat <http://sistemkomputer.epizy.com> (2) uji kelayakan media yang didapatkan dari validasi ahli materi memperoleh nilai sebesar 4,55 dan dapat dinyatakan “Sangat Layak”, hasil validasi ahli media memperoleh nilai sebesar 4,54 dan dapat dinyatakan “Sangat Layak”, dan hasil dari akseptansi siswa memperoleh nilai sebesar 4,77 dan dapat dikategorikan “Sangat Tinggi”. Untuk uji keefektifan pada hasil belajar peserta didik menggunakan media pembelajaran berbasis *web* mendapatkan perolehan rata-rata sebesar 90,75 lebih tinggi dibandingkan pembelajaran sebelum menggunakan media dengan nilai rata-rata 62,42.

**Kata Kunci:** Penelitian dan Pengembangan, Media Pembelajaran Berbasis *Web*, Sistem Komputer.

## ABSTRACT

**Natalia Tampubolon. NIM: 5173151027. "Pengembangan Media Pembelajaran Berbasis Web Pada Mata Pelajaran Sistem Komputer Kelas X TKJ 1 SMK N 1 Lintongnihuta". Skripsi. Fakultas Teknik Universitas Negeri Medan. 2022.**

*This research is intended to find: (1) the process of web based learning media in Memory and CPU materials, (2) information about the eligibility and efectivity of web based learning media in grade X TKJ 1 SMK Negeri 1 Lintongnihuta.*

*The method of this research is Research and Development (R & D) using waterfall (Requirement analysis and Definition, System and Software Design, Implementation and unit Testing, Integration and System Testing and Operation and Maintenance) as development models. Instrument for data collecting is adapted from Sriadi(2018) consist of material expert, media expert and student's acceptance. Data analyses for eligibility is done by descriptive statistic sum.*

*The research result shows that: (1) web based learning media is developped with internet access to the adress <http://sistemkomputer.epizy.com> (2) media eligibility test got from material expert is 4.55 and can be defined as "Very Eligble" and the result from media expert is 4.54 and can be defined as "Very Eligble" and the value of student's acceptance is 4.77 and can be cathegorized as "Very High". For the efectivity test on student's learning result of using web based learning media obtains mean as many as 90,75 higher than before using the media that obtain mean value as many as 62,42.*

**Keyword: Research and Development, Web Based Learning Media, Computer System.**