

## ABSTRAK

**Khairani Islamiyah.** Pengembangan Buku Ajar Elektronik Kimia Berbasis Kontekstual untuk Kelas X SMA/MA Semester II. Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2023.

Pembelajaran di masa pandemi Covid-19 mengakibatkan hasil belajar dan motivasi belajar siswa menurun. Penelitian ini bertujuan mengetahui: (1) kebutuhan pendidik dan kelayakan materi buku ajar kimia SMA/MA yang digunakan murid di sekolah berdasarkan kelayakan BSNP; (2) mengembangkan dan memperoleh buku ajar elektronik kimia SMA/MA berbasis kontekstual; (3) hasil belajar murid pada proses belajar mengajar dengan menggunakan buku ajar elektronik kimia SMA/MA berbasis kontekstual.; (4) peningkatan hasil belajar murid pada proses belajar mengajar dengan menggunakan buku ajar elektronik kimia SMA/MA berbasis kontekstual; (5) tingkat motivasi belajar murid pada proses belajar mengajar dengan menggunakan buku ajar elektronik kimia SMA/MA berbasis kontekstual; dan (6) respon murid terhadap penggunaan buku ajar elektronik kimia SMA/MA berbasis kontekstual. Sampel penelitian sebanyak satu kelas yang ditentukan dengan teknik *purposive sampling*. Kelas eksperimen yaitu kelas X MIPA 2 sebanyak 24 orang. Berdasarkan hasil penelitian diperoleh: (1) pendidik membutuhkan inovasi pada buku ajar kimia dan buku kimia yang digunakan di sekolah sebelum dikembangkan sudah memenuhi kriteria BSNP dan kontekstual akan tetapi masih terdapat kekurangan sehingga perlu dilakukan pengembangan buku ajar; (2) buku elektronik kimia berbasis kontekstual yang dikembangkan telah memenuhi kriteria BSNP dan kontekstual; (3) hasil belajar kimia murid lebih tinggi dari nilai KKM ( $t_{hitung} > t_{tabel}$  ( $8,087 > 1,714$ ); (4) peningkatan hasil belajar murid (*n-gain*) sebesar 0,74 termasuk kategori tinggi (5) tingkat motivasi belajar murid sangat tinggi untuk belajar kimia saat menggunakan buku elektronik kimia berbasis kontekstual; (6) respon murid sangat baik terhadap buku ajar elektronik kimia berbasis kontekstual, sehingga buku elektronik kimia berbasis kontekstual bisa digunakan dalam pembelajaran kimia di sekolah.

**Kata Kunci:** Buku Elektronik, Pembelajaran Kontekstual, Hasil Belajar Murid

## ABSTRACT

**Khairani Islamiyah.** Development Contextual-Based Chemistry Electronic Textbook for Class X Senior High School Semester II. Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2023.

Learning during the Covid-19 pandemic resulted in decreased learning outcomes and student motivation. This study aims to determine: (1) the needs of educators and the feasibility of high school/MA chemistry textbook materials used by students at school based on the eligibility of the BSNP; (2) developing and obtaining contextually based high school/MA chemistry electronic textbooks; (3) student learning outcomes in the teaching and learning process using contextual based high school/MA chemistry electronic textbooks; (4) improving student learning outcomes in the teaching and learning process by using contextual-based chemistry electronic textbooks for SMA/MA; (5) the level of student learning motivation in the teaching and learning process using contextual-based chemistry electronic textbooks for SMA/MA; and (6) students' responses to the use of contextually based high school/MA chemistry electronic textbooks. The research sample is one class determined by purposive sampling technique. The experimental class is class X MIPA 2 as many as 24 people. Based on the results of the research, it was obtained: (1) educators needed innovation in chemistry textbooks and chemistry books used in schools before they were developed, they met the BSNP criteria and were contextual, but there were still deficiencies so it needed textbook development; (2) the developed contextual-based chemistry e-book meets the BSNP and contextual criteria; (3) students' chemistry learning outcomes are higher than KKM scores ( $t_{count} > t_{table}$  ( $8.087 > 1.714$ )); (4) student learning outcomes increase (n-gain) of 0.74 is included in the high category (5) the level of student learning motivation is very high for learning chemistry when using contextually-based chemistry e-books; (6) the student response was very good towards contextually-based chemistry e-books, so that contextually-based e-books could be used in chemistry learning at school.

**Kata Kunci:** *E-book, Contextual Teaching Learning, Outcome Learning Student*