

PENGEMBANGAN *E-MODUL* BERBASIS *SEARCH, SOLVE, CREATE, SHARE, AND EVALUATE* PADA MATERI IKATAN KIMIA

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ABSTRAK

Ketersediaan bahan ajar di sekolah yang masih sangat konvensional menjadi salah satu kendala pada saat proses pembelajaran. Adanya kendala tersebut menyebabkan diperlukannya inovasi baru dalam proses pembelajaran agar siswa dapat memperoleh dan menggunakan bahan ajar yang efektif dan efisien dalam proses pembelajaran. Upaya yang dapat dilakukan adalah dengan mengembangkan bahan ajar berupa *e-modul* berbasis *search, solve, create, share, and evaluate* pada materi ikatan kimia. Tujuan dari penelitian ini adalah mendeskripsikan dan menjelaskan karakteristik, validitas, keterbacaan, kepraktisan, dan keefektifan *e-modul* berbasis *search, solve, create, share, and evaluate* pada materi ikatan kimia. Jenis penelitian ini adalah penelitian dan pengembangan dengan menggunakan model 4D Thiagarajan. Hasil penelitian menunjukkan bahwa *e-modul* yang dihasilkan memiliki beberapa karakteristik yaitu berupa *e-modul* yang mudah diakses dan mudah digunakan, topik pembelajaran yang dibahas adalah materi ikatan kimia serta dilengkapi dengan *link* video pembelajaran dan latihan soal-soal. Hasil uji validitas *e-modul* dinyatakan sangat valid dari segi isi dengan skor 3,625, sangat valid dari segi bahasa dengan skor 3,625, sangat valid dari segi media dengan skor 3,91. Hasil uji keterbacaan dinyatakan terbaca jelas dengan skor 3,28. Hasil uji kepraktisan *e-modul* yang dikembangkan memenuhi kriteria praktis dan hasil uji keefektifan menunjukkan nilai N-gain mengalami peningkatan hasil belajar siswa pada ranah kognitif dan uji proporsi satu sampel menghasilkan proporsi ketecapaian kriteria ketuntasan klasikal pada ranah kognitif lebih dari 85%.

Kata kunci : *e-modul*, ikatan kimia, SSCSE

**THE DEVELOPMENT OF E-MODUL BASED ON SEARCH, SOLVE,
CREATE, SHARE, AND EVALUATE ON CHEMICAL BONDING
MATERIALS**

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ABSTRACT

The availability of teaching materials in schools that are still very conventional is one of the obstacles during the learning process. The existence of these obstacles causes the need for new innovations in the learning process so that students can obtain and use teaching materials that are effective and efficient in the learning process. Efforts that can be made is to develop teaching materials in the form of e-modules based on search, solve, create, share, and evaluate on chemical bond material. The purpose of this study is to describe and explain the characteristics, validity, readability, practicality, and effectiveness of search, solve, create, share, and evaluate e-modules based on chemical bonding material. This type of research is research and development using the 4D Thiagarajan model. The results showed that the e-modules produced had several characteristics, namely in the form of e-modules that were easy to access and easy to use, the learning topics discussed were chemical bonding material and were equipped with learning video links and practice questions. The results of the e-module validity test were stated to be very valid in terms of content with a score of 3.625, very valid in terms of language with a score of 3.625, very valid in terms of media with a score of 3.91. The results of the readability test were stated to be clearly legible with a score of 3.28. The results of the practicality test of the developed e-module met practical criteria and the results of the effectiveness test showed that the N-gain value increased student learning outcomes in the cognitive domain and the one-sample proportion test resulted in a proportion of classical completeness criteria in the cognitive domain of more than 85%.

Keywords : e-modul, chemical bonding, SSCSE