ABSTRAK

PENGEMBANGAN E-MODUL BERBASIS INKUIRI TERBIMBING PADA MATERI ASAM BASA

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Materi asam basa merupakan salah satu materi yang sulit karena mengandung konsep yang kompleks. Sebagian peserta didik mengalami kesulitan dalam proses pembelajaran akibat kurangnya e-modul yang sesuai dengan karakteristik peserta didik. Oleh karena itu, pada proses pembelajaran memerlukan e-modul yang dapat membantu peserta didik dalam memahami konsep asam basa. Penelitian ini bertujuan untuk: (1) mengetahui proses pengembangan produk berupa e-modul berbasis inkuiri terbimbing pada materi asam basa dan (2) mengetahui kelayakan produk berupa e-modul berbasis inkuiri terbimbing pada materi asam basa. Penelitian ini merupakan penelitian *Research and Development (R & D)* dengan model pengembangan ADDIE yang terdiri atas tahap *Analysis*, *Design*, *Development*, *Implementation*, dan *Evaluation*. Instrumen yang digunakan meliputi lembar wawancara, lembar validasi, soal latihan dalam produk, soal *pretest posttest*, dan angket respon peserta didik terhadap produk. Sampel penelitian ini adalah 12 peserta didik kelas XI MIPA SMA Stella Duce 2 Yogyakarta yang dipilih melalui teknik *purposive sampling*. Hasil penelitian menunjukkan bahwa e-modul yang dikembangkan sangat valid, dengan rata-rata 90,63% pada aspek media dan 90,00% pada aspek materi. Selain itu, modul ini memenuhi kriteria kepraktisan sangat praktis dengan rata-rata 82,70%, serta cukup efektif dengan rata-rata efektivitas 70%. Produk ini dinilai mampu meningkatkan hasil belajar peserta didik terhadap konsep asam basa.

Kata kunci: E-Modul, Inkuiri Terbimbing, Asam Basa

ABSTRACT

DEVELOPMENT OF E-MODULES BASED ON GUIDED INQUIRY ON ACID-BASE MATERIAL

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Acid-base material is one of the difficult materials because it contains complex concepts. Some students experience difficulties in the learning process due to the lack of e-modules that are in accordance with the characteristics of students. Therefore, the learning process requires e-modules that can help students understand the concept of acid-base. This research aims to: (1) to know the product development process in the form of guided inquiry-based e-modules on acid-base materials and (2) to know the feasibility of products in the form of guided inquiry- based e-modules on acid-base materials. This research is a Research and Development (R & D) study with the ADDIE development model which consists of the Analysis, Design, Development, Implementation, and Evaluation stages. The instruments used include interview sheets, validation sheets, exercise questions in the product, pretest posttest questions, and a questionnaire for students' responses to the product. The sample of this study was 12 students of class XI MIPA SMA Stella Duce 2 Yogyakarta who were selected through purposive sampling technique. The results showed that the e-module developed was very valid, with an average of 90.63% in the media aspect and 90.00% in the material aspect. In addition, this module meets the criteria of practicality very practical with an average of 82.70%, and quite effective with an average effectiveness of 70%. This product is considered capable of improving students' learning outcomes on the concept of acid-base.

Keywords: E-Module, Guided Inquiry, Acid-Base