

Lia Nur Oktafia. 2022. *Pengembangan E-modul pada Materi Sistem Pernapasan Manusia Konteks COVID-19 Berbantuan Sigil Software*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Nur Qomaria, S.Pd., M.Pd.

ABSTRAK

Penelitian ini bertujuan untuk mengembangkan e-modul sebagai bahan ajar pada materi sistem pernapasan manusia konteks *COVID-19* kelas VIII SMP/MTs dengan berbantuan *sigil software*. Desain pengembangan yang digunakan yaitu *ASSURE* (*Analyze learner, State objective, Select technology, media and materials, Utilize technology, media and materials, Require learned participation, Evaluate and revise*). Subjek penelitian pada penelitian ini berjumlah 20 siswa UPT SMP Negeri 14 Gresik. Instrumen uji coba yang digunakan terdiri atas angket studi pendahuluan, lembar validasi media, lembar validasi materi, angket keterbacaan, dan angket respons siswa. Berdasarkan hasil penelitian dapat disimpulkan bahwa: (1) rata-rata validitas ahli media sebesar 85,42% dengan kriteria sangat valid dan reliabilitas 88,09% dengan kategori reliabel. Rata-rata validitas ahli materi sebesar 90,97% dengan kategori sangat valid dan reliabilitas 91,27% dengan kategori sangat reliabel. Dengan demikian, e-modul layak digunakan sebagai bahan ajar dalam pembelajaran. (2) rata-rata persentase keterbacaan siswa terhadap bahan ajar e-modul berbantuan *sigil software* sebesar 88,33% dengan kategori keterbacaan yang tinggi. (3) rata-rata persentase respons siswa sebesar 86% dengan kategori sangat baik.

Kata kunci: e-modul, sistem pernapasan manusia, *COVID-19*, *sigil software*.

Lia Nur Oktafia. 2022. *Development of E-modules on the Human Respiratory System in the Context of COVID-19 Assisted by Sigil Software*. Thesis, Science Education Study Program, Faculty of Education, Trunojoyo University Madura. Advisor: Nur Qomaria, S.Pd., M.Pd.

ABSTRACT

This study aims to develop e-modules as teaching materials for the human respiratory system in the context of COVID-19 for class VIII SMP/MTs with the help of sigil software. The development design used is ASSURE (Analyze learner, State objective, Select technology, media and materials, Utilize technology, media and materials, Require learned participation, Evaluate and revise). The research subjects in this study amounted to 20 students of UPT SMP Negeri 14 Gresik. The test instrument used consisted of a preliminary study questionnaire, media validation sheet, material validation sheet, readability questionnaire, and student response questionnaire. Based on the results of the study, it can be concluded that: (1) the average validity of media experts is 85.42% with very valid criteria and 88.09% reliability with reliable category. The average validity of material experts is 90.97% with a very valid category and 91.27% reliability with a very reliable category. Thus, e-modules are appropriate to be used as teaching materials in learning. (2) the average percentage of student readability of e-module teaching materials assisted by sigil software is 88.33% with a high readability category. (3) the average percentage of student responses is 86% with a very good category.

Keywords: *e-module, human respiratory system, COVID-19, sigil software.*