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SUMMARY REVIEW EDITING

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Authors	Leni Marlina*, Gelby Pradina Paramitha, Ida Sriyanti
Title	Development of Electronic Modules Based on Critical Thinking Skills on Vibration, Waves, and Sound Materials for Junior High School Students
Original file	23844-76202-1-SM.DOCX 2021-12-14
Supp. files	23844-76203-1-SP.DOCX 2021-12-14 23844-76783-1-SP.PDF 2021-12-23
Submitter	Unsri Leni Marlina
Date submitted	December 14, 2021 - 09:08 AM
Section	Jurnal Pendidikan Sains Indonesia (Indonesian Journal of Science Education)
Editor	Aris Doyan
Author comments	Dear Editor, Berikut paper yang kami kirim. topik paper ini sesuai dengan scope paper Bapak/Ibu, harapan kami bisa publis di jurnal Bapak. Salam Dr. Leni Marlina
Abstract Views	0

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NOTIFICATIONS

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Title and Abstract

Title: Development of Electronic Modules Based on Critical Thinking Skills on Vibration, Waves, and Sound Materials for Junior High School Students

Abstract: Electronic learning resources are needed in accordance with the demands of basic competencies in learning and can be used by teachers and students as a means of independent learning at home or at school. This study aims to develop an electronic module on the material of vibration, waves and sound that is valid and practical. The Rowntree development model used consists of three stages, namely planning, development and evaluation stages. At the evaluation stage, the researcher used the Tessmer evaluation stage, which consisted of the self-evaluation, expert review, one-to-one evaluation, and small group evaluation stages. The research subjects were students of class VIII.2 SMP N 1 Prabumulih. The research instrument used was observation, student needs questionnaire, expert validation questionnaire and student perception questionnaire. The data analysis technique used walkthrough and questionnaire methods. The resulting product is an electronic module of vibration, wave and sound material

Dimensions

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ID 252,839 US 7,761 PH 1,986 MY 1,692 TR 689 IN 416 SG 334 TH 319 CA 278 CN 254 GB 249 BR 215 JP 199 VN 155 PK 140 NL 139 ZA 130 TW 124 DE 122 HK 112 AU 111 IR 98
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Abstract Electronic learning resources are needed in accordance with the demands of basic competencies in learning and can be used by teachers and students as a means of independent learning at home or at school. This study aims to develop an electronic module on the material of vibration, waves and sound that is valid and practical. The Rowntree development model used consists of three stages, namely planning, development and evaluation stages. At the evaluation stage, the researcher used the Tessmer evaluation stage, which consisted of the self-evaluation, expert review, one-to-one evaluation, and small group evaluation stages. The research subjects were students of class VIII.2 SMP N 1 Prabumulih. The research instrument used was observation, student needs questionnaire, expert validation questionnaire and student perception questionnaire. The data analysis technique used walkthrough and questionnaire methods. The resulting product is an electronic module of vibration, wave and sound material using the Flip PDF Professional program. The results of the research show: 1) the development of an electronic module based on critical thinking skills has been carried out through a development procedure that includes 3 stages. 2) the acquisition of the research results obtained content validation of 4.50 (strong valid), content validation of critical thinking skills of 4.61 (strong valid), design validation of 4.72 (strong valid), and language validation of 4 .50 (strong valid). So, the total average of the results of the content validation assessment, the content of critical thinking skills, design, and language is 4.60 including the "strong valid" category. 3) To produce a practical electronic module with research results, the average results of the assessment of student responses in the one-to-one evaluation stage is 4.55 with the "Extremely useful" category and the average results of the assessment of student responses in the questionnaire are the small group evaluation stage is 4.60 with the "Extremely useful" category. The electronic module based on critical thinking on vibration, waves and sound material that has been developed is suitable for use as teaching material for class VIII junior high school students.

Indexing

Academic discipline and sub-disciplines physich education

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Keywords Teachers, Students, Valid, Practical