

# **E-Book Development Of The Basic Concepts Of Elementary Citizenship Education Based On Google Sites Using The Citizen Project Model To Improve Civic Knowledge And Civic Skills Of PGSD Students Of Medan State University**

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**Abstract.** The objectives of this research are: 1). Producing Google site-based e-book teaching materials using the citizen project model in the Basic Concepts of Citizenship Education in Elementary Schools course, 2). Knowing the validation, practicality and effectiveness of e-books 3). Producing scientific publications in international seminar proceedings, and 4). Register the final copyright research report that has a certificate. The study adopts a 4-D development model (Four-D Models), indicating that it falls under the category of research and development (R&D). Assessment of the suitability aspect of the material content with a percentage of 86.05% (Valid/ Suitable for use), the feasibility aspect of design and technology appearance with a percentage of 83.05% (Valid/ Suitable for use). The results of the validation of the e-book draft carried out by 2 validators consisting of lecturers, showed that the e-book was included in the good category. Based on the results of data analysis on the practicality test questionnaire, an average percentage of 91.88% was obtained.

**Keywords:** E-book, Google Sites, Project Citizen. Civic Knowledge, Civic Skill

## **1 Introduction**

Civic knowledge refers to the understanding and awareness of the content or information that citizens should know about their government, legal systems, societal structures, and civic responsibilities. Civic knowledge concerns what citizens need to know and understand properly. National Center for Learning and Citizenship (NCLC). Winarno stated that civic knowledge contains statement items related to history and contemporary knowledge, such as an understanding of the structure and mechanisms of constitutional government and the principles underlying it. Winataputra's statement emphasizes that Citizenship Education is strategically crafted as a learning subject with the overarching goal of nurturing individual

potential to become Indonesian citizens of noble character. The theoretical framework of this education encompasses cognitive, affective, and psychomotor dimensions, seamlessly integrating concepts, ideas, values, and morals rooted in Pancasila. Programatically, it aims to instill values and provide learning experiences that students can apply in their everyday lives. In essence, Citizenship Education serves as a holistic approach to developing well-rounded individuals who embody the principles of Pancasila and contribute positively to society.

The era of the industrial revolution or the 21st century requires renewal or innovation in increasing student competency which is supported by technological knowledge, so that there is an increase in the quality of education. The development of science and technology can of course be utilized to develop conventional learning materials into electronic learning materials that will help students' learning process. Suryanto stated that the development of the electronic book was in the form of a Google Site website, which is a wiki service that allows individuals or groups to create an online website. Absolutely, utilizing the Google Sites online service enables the convenient creation of Android-based learning materials. This is particularly advantageous given that many students use Android smartphones and tablets. The electronic teaching materials developed through Google Sites are highly suitable for the learning process, especially when integrated with other learning methods or models. The flexibility and accessibility of Android devices make it convenient for students to access educational content, fostering a more dynamic and interactive learning experience. This integration aligns with the evolving landscape of education, acknowledging the prevalence of digital devices in the hands of learners.

The Project Citizen learning model proves effective in enhancing students' knowledge and skills in the Basic Concepts of Elementary Citizenship Education course. Google Sites-based e-books, serving as IT-based media, are employed by educators to deliver instructional material aligned with the Project Citizen learning model. Project Citizen represents a problem-based instructional approach aimed at cultivating knowledge, skills, and democratic citizenship traits that empower and motivate participation in government and civil society. This program actively encourages students to engage in problem-solving within campus and societal contexts, fostering both social and intellectual intelligence.

Teaching materials are thoughtfully designed to cater to the needs of PGSD FIP Unimed students, ensuring that the content is both appealing and easily comprehensible. The goal is to increase students' civic knowledge and skills by presenting the material in an engaging and accessible manner.

## **2 Methods**

The study adopts a 4-D development model (Four-D Models), indicating that it falls under the category of research and development (R&D). Research and development methods are employed to create specific products and evaluate their effectiveness. According to Thiagarajan, the research design is structured around the 4-D development model, consisting of four stages: define, design, develop, and disseminate. The 4-D model can also be adapted into a 4-d framework, encompassing stages such as definition, design, development, and implementation. This approach is commonly used in R&D settings to regularly guide the process from conception to implementation of a particular product or intervention.

## **3 Result and Discussion**

Developmental research is research that has sequential procedures carried out by a researcher with the design and development itself through learning which is realized in the form of graphics or diagrams or can also be narrative.

### 3.1 Validity data analysis

The validation results from all validators for the aspects assessed are presented in table form. Next, find the average score using the formula:

$$R = \frac{\sum_{i=1}^n V_i}{n} \quad (\text{Mulyardi, in Eza, 2014})$$

Information:

R = average of assessment results from validators

Vi = score from the i-th validator's assessment

n = many validators

These criteria may have been established beforehand and can vary depending on the context of the assessment.. The way to obtain these criteria is as follows.

- Score range starts from 1 (Low Score/LS) to 5 (High Score/HS)
- The criteria are divided into five levels, namely very valid, valid, quite valid, less valid and invalid.
- The average range is divided into five interval classes in the following way:

$$\text{Interval (I)} = (\text{LS}-\text{HS})/5$$

$$\text{Interval (I)} = (\text{LS}-\text{HS})/5$$

LS - I	Very valid
LS - 2.I sampai HS - I	Valid
LS - 3.I sampai HS - 2.I	Fairly valid
LS - 3.I sampai SH - 2.I	Not valid

In this case, the textbook continues with a practicality test if the category is valid or very valid.

The E-book on Basic Concepts of Elementary Citizenship Education based on the Google site with the project citizen model in Learning Basic Concepts of Elementary Civics is declared suitable for use, because the E-book developed has been validated by an expert in teaching materials design and technology, namely Mrs. Natalia Silalahi, S.Kom. , M. Kom. and obtained a final percentage of 83.05% or included in the "very feasible" category. Then validation by material expert Mr. Feriyansyah, S.Pd., M.Pd obtained validation results with a final percentage of 86.05% or included in the "very feasible" category. Based on the validation results, the E-book on Basic Concepts of Elementary Civics Education based on the Google site with the project citizen model on Learning Basic Concepts of Elementary Civics was declared suitable for use by students and lecturers in learning.

### 3.1 Analysis of practicality data

Analyzing the level of practicality of e-books is based on a questionnaire given to students, then the questionnaire is arranged on a Likert scale with positive statement categories. Positive statements receive high weight with the following details :

**Table** Likert Scale Statement Weight Gain

No	Practicality Level		Score
1	SA	Strongly agree	5
2	A	Agree	4
3	NA	Neither agree nor disagree	3
4	D	Disagree	2
5	SD	Strongly disagree	1

Practicality test results on Basic Concepts of Elementary Citizenship Education teaching materials taught by lecturers. Based on the results of data analysis on the practicality test questionnaire, an average percentage of 91.88% was obtained. This percentage shows that the E-book on Basic Concepts of Elementary Civics Education based on the Google site with a project citizen model on Learning Basic Concepts of Elementary Civics is "practical" for use by PGSD students.

### 3.1 Analysis of effectiveness data

Effectiveness is observed from the analysis of student learning outcomes, namely learning outcomes in the realm of knowledge. According to the Ministry of National Education, a student is said to have completed learning if the proportion of correct answers is  $\geq 65\%$  and a class is said to have completed learning if in that class there are  $\geq 85\%$  of students who have passed.

**Table** Activity Statement Weight Gain

No	Achievement Level (%)	Category
1	81 – 100	very active
2	61 – 80	active
3	41 – 60	quite active
4	21 – 40	less active
5	0 – 20	very less active

E-books can be said to be effective if students meet the criteria 41 – 100%. Based on the explanation above, the method used in this development research has been explained in terms of stages and levels of validity and practicality of the results achieved in this research.

## 4 Conclusion

The material content was assessed for suitability, and it received a percentage score of 86.05%. (Valid/ Suitable for use), the feasibility aspect of design and technology appearance with a percentage of 83.05% (Valid/ Suitable for use). Validation of this e-book draft was carried out by two validators of lecturers, showed that the Google Sites-based e-book Basic Concepts of Elementary Citizenship Education using the project citizen model was included in the good category.

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