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# Student Assessment of the E-Module for the Development of Guidance and Counseling Programs Based on Higher Order Thinking Skills in the Hybrid Learning Era

Miswanto <sup>1</sup>)\*, Zuraida Lubis <sup>1</sup>), Nur Arjani <sup>1</sup>), Mirza Irawan <sup>1</sup>)

<sup>1</sup>Department of Guidance and Counseling, Universitas Negeri Medan. Medan, Indonesia.

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#### Abstract

In this era of Hybrid Learning, students need electronic modules to help understand learning materials in the course of the development of guidance and counseling programs in schools. This research aims to find out the quality of high-order thinking skills (HOTs) based electronic modules in the course of guidance and counseling program development. It is a research and development (R&D). The test subjects of this study are 20 students of the guidance and counseling study program of the Faculty of Education of Medan State University . The results of this study showed that the overall field test student assessment received an score of 81.81% with an excellent category, followed by a perceptual analysis of HOTs-based material presentation, an score of 83.30% with an excellent category, and graphicity aspect of 82.39% with excellent category, utilization aspect of 79.72% with good category, and graphicity aspect of 80.31% with good category. From the results of this study, the developed e-modules can already be utilized by students, especially those majoring in guidance and counseling. It is also recommended to guidance and counseling teachers/counselors to use e-modules as guidance in the development of guidance and counseling programs in schools.

Keywords: e-module; guidance and counseling program; hots; hybrid learning.

# **INTRODUCTION**

When this, level College learning process Still held in a way mixture (*hybrid learning*), this in accordance with the Chancellor's Letter Unimed Number: 0017/UN33/KP/2023 concerning maintenance learning in the environment Unimed which refers to the Circular Letter Directorate General of Higher Education Number 3 of 2022 concerning maintenance learning in Higher Education during the Coronavirus Disease (Covid-19) Pandemic in the 2022/2023 Academic Year which refers to the Joint Decree of the Minister of Education, Culture, Research and Technology, Religion, the Minister of Health and the Minister of Home Affairs of the Republic of Indonesia Number: 01/KB/2022, that learning at college tall held in a way mixed (*hybrid learning*), namely stare advance directly (offline) and inside network (online). Hybrid learning can be done used as alternative model for increase motivation and results Study student in learning stare advance limited and teachers need it intertwine communication with parents students, for accompany learn and deliver pick up child appropriate time so the learning process can walk fluent (Wahyuni, 2021).

Online learning, teacher in giving material learning for studied by students in a way independent at home can use something application education. Next, at the moment learning stare face that takes place in school, teachers function as facilitator and guide for student for deepen again understanding draft will something existing material student learn At home in a way independently, with do exercise question (Ramdhani, 2020). Learn to be independent as

\* Author Correspondence. E-mail: miswanto@unimed.ac.id

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something actions carried out by individuals which grows from in self form growing awareness will importance Study (Winatha et al., 2018)

Availability module learning based hots that can support understanding student to material development of guidance and counseling programs very important. Based on phenomenon or condition class in the course development of guidance and counseling programs, students still classified as c1 to c3 deep ability think for analyze results of needs assessment/materials in courses frequent development of guidance and counseling programs called Lower Order Thinking Skills (LOTs). Should student ability he thought already C4 to C6 which are called High Order Thinking Skills (HOTs), p This based on six level in Bloom's Taxonomy. Medan State University also still hold learning mode *hybrid learning* with provision of 70% offline and 30% online. From phenomena or condition class that, then researcher interested developing e-modules based on HOTs in courses development of the BK program.

Modules / Textbooks can increase ability literacy student. Payload literacy is a must it's in the textbook, namely in category science as stem body knowledge, way investigate, way thinking, and interaction science, technology, and society (Maturradiyah F, 2015). Physics flipbook learning media that can be used increase results Study participant educate (Hayati et al., 2015). Interactive teaching materials almost similar with interactive multimedia Where various conventional media like board text, audio, and video are integrated to in One types of interactive media. Use of interactive multimedia influential to mastery concept to students (Husein et al., 2015)

Modules are media or means content learning materials, methods, limitations material learning, instructions activity learning, practice, and methods evaluate what is designed in a way systematic and interesting For reach expected and used competencies in a way independent (Hamdani, 2011). The main purpose from module is reader Can absorb material in a way independent (Daryanto, 2013). So that participants educate No bored learn conventional module shaped book, then need exists modification with electronic media, which is frequent called *electronic module* (Florentina & Karyono, 2021). E-module learning chemistry blog based on the material tested hydrocarbons feasible and practical as source Study independent at school (Novita & Septryanesti, 2019). Without exists teaching materials, students will also experience difficulty in learn it (Rahmi et al., 2014).

On learning in the *Hybrid* era educator must have ability literacy maximum technology for supports the learning process Good offline or online. However in fact the teacher hasn't maximum, limited time, less exists awareness from participant educate and some parents for maximizing accompaniment learn it (Makhin, 2021). The research results also show that during the learning process student not enough focus and lack motivated when participate, this caused use of learning media Still conventional and not interactive, though majority student have a smartphone. This matter is base important in innovate (Rejekiningsih et al., 2023).

Based on the problems above, researchers are interested in developing HOTs-based emodules. The HOTs approach that has been developed so far only focuses on preparing questions. These questions are usually developed in the form of school exam questions. To support the learning process in the classroom, HOTs-based e-modules are needed which can help complete and perfect learning tools to achieve better quality education. The solution to this problem is to develop a HOTS-based e-module in guidance and counseling program development courses in schools.

#### METHODS

Analysis, Design, Development, Implementation, Evaluation, development model (Sugiyono, 2020). This research develops a product in the form of a HOTs-based Guidance

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and Counseling Program E-Module. The development of this product involved respondents as validation, one of which was testing 20 students using this e-module product in the learning process. as well as conduct focus group discussions (FGD). The data collection technique used for students is a *Likert scale*. Data assessment and analysis is carried out using percentages with predetermined conditions. Formula percentage used is as following (Sudijono, 2004)

With, P = Percentage rate answer, f = Frequency answer, n = Number sample

After the product analysis has been declared feasible and received a positive response, the e-module product can be disseminated and socialized to be produced so that it can be used in the learning process, especially in guidance and counseling program development courses in schools.

### **RESULTS AND DISCUSSION**

On results study this, presentation data displayed with guided on pattern development model ADDIE, that is (1) Analyze, (2) Design, (3) Development (4) Implementation, and (5) Evaluation. Further more after results product So done test appropriateness as one of form from study development.

### \* Analyze Stage

Stage Analyze aim for gather various information which related with product which will developed and identify problem in underlying learning importance development e-module development of guidance and counseling programs based higher order thinking skills for Student Guidance and Counseling Faculty Medan State University of Educational Sciences.

Analyze done as analysis need (need assessment) based on Plan Learning Semester (RPS) courses development of guidance and counseling programs and what they are needed in the field about materials development of guidance and counseling programs. Analysis results the used as input for obtain design e-module development of guidance and counseling programs based higher order thinking skills.

#### Design Stage

The purpose of stage This existing module There is developed become *E*-module development of guidance and counseling programs based higher order thinking skills more effective and efficient. Following design existing module There is.



Figure 1. Design the existing module There is

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Existing module There is developed with notice data Which obtained on stage analysis. As for in a way line big stage design This obtain Where e-module developed with simple language, design and picture colored to be interesting as well as based higher order thinking skills, book consists top 5 (seven chapters). Required steps done in stages design This is as following; (1) preparation references (title, layout and number codes, topics and activities learning, evaluation), (2) media selection, and (3) format selection. The module has been designed so furthermore module designed based higher order thinking skills. Following design module based higher order thinking skills.



Figure 2. Layout module HOTs based

Existing module There is developed based HOTs with notice data Which obtained on stage analysis furthermore designed to electronic module with iSpring Suite 11 software. As for in a way line big stage design This obtain Where e-module developed with simple language, design graphics, and material based higher order thinking skills, book consists of five CHAPTERS.

#### Development Stage

Stage development this is purposeful stages for produce e-module development of guidance and counseling programs based higher order thinking skills after through a process of validation, revision, and testing in field. In stages development. There are 3 stages validation, that is validation by experts design graphics, and validation by experts material, then tried out on respondents student in the direction guidance and counseling faculty knowledge education university country medan for get input from candidate user in a way direct.

Following this served test results product study to expert regarding with evaluation to emodule development of guidance and counseling programs based higher order thinking skills in subject development of guidance and counseling programs being developed.

Based on the results validation module to media experts produce the overall average score was 84.25% category worthy, as well results validation to expert material produce average score whole amounting to 86.02% with category worthy which it means e-module development of guidance and counseling programs based higher order thinking skills worthy in media and material for used by students guidance and counseling at the moment follow subject development of guidance and counseling programs. Based on description of the result data research above, then discussion about findings study as following.

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#### ✤ Implementation Stage

Study this aim for know quality module electronic based higher order thinking skills (Next HOTs) in courses development of guidance and counseling programs. In the learning process Good lecturer nor for student. For know device This can made reference in the learning process, product design will tested try it to student with total of 20 people. Desired data in questionnaire to use product will ask How presentation material, language, usefulness and graphics products by students. Following results evaluation student towards HOTs-Based E-Modules which are described in table 1.

No	Aspect	Mean	%	Category
1	HOTs- Based Material	56.64	83.30	Very good
	Presentation			
2	Language	19.77	82.39	Very good
3	Utilization	25.51	79.72	Good
4	Graphics	25,70	80,31	Good
	Overall	127,62	81,81	Very good

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Based on table 1 above results evaluation student that the e-module is very good used in the learning process development of guidance and counseling programs in schools.

#### Evaluation Stage

At stage this products that have been pass the due diligence process to expert as well as usability test is carried out to BK students will evaluated. Stages evaluation is purposeful stages evaluate in a way whole aspect usability developed products. At stage This activity evaluation done with holding FGDs.

Selection of FGD informants, researchers took members who met the requirements based on predetermined criteria, namely 2 guidance counselors and guidance counselors/ counselors. as many as 2 people. In the FGD activity that was held, each participant was asked to provide an opinion on the overall research product.

Based on the results of the FGD, it was found that e-modules in courses the development of a HOTs-based guidance and counseling program shows positive things to be used by guidance and counseling students when taking guidance and counseling program development courses. Following are some conclusions obtained from the FGD results that is; (1) t the opinion of guidance and counseling lecturers and guidance and counseling teachers or counselors is in principle important and enthusiastically welcomed the e- modules offered as material for developing guidance and counseling programs in schools, and (2) the presence of e-modules based on these HOTs adds capability think student levels C4 to C6 as well become handle lecturers and guidance counselors or counselors to develop guidance and counseling programs.

Based on results validation expert graphic and expert material with category worthy, next evaluation student that the e-module is very good used in the learning process development of guidance and counseling programs in schools as well as results FGD assessment stated positive. In line with results study (Nufus et al., 2020) which shows enhancement understanding participant educate to draft from previously using e-module based koftoft flipbook maker. Kvisoft Flipbook e-module based can become source Study possible alternatives help student Study anytime and anywhere.

Apart from that, the e-module is also designed to help lecturers in the learning process which can change the learning pattern from Teacher Centered to Student Centered. Distance

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learning requires students to be more independent in learning while also requiring students to be more critical in understanding a problem. The use of interactive e-modules can increase students' learning motivation, literacy skills, learning outcomes, independence and critical thinking abilities and this e-module can be a choice of learning media that can be used by educators in distance learning (Wulandari et al., 2021). The use of electronic modules is very effective in increasing student learning motivation (Nurmitasari et al., 2023), besides that it is also effective in improving student learning outcomes and critical thinking abilities (Puspitasari, 2019). Then it can be said that the use of electronic modules is very effective in increasing student learning motivation. Students don't get bored learning about developing guidance and counseling programs at school because students can explore each material using just their cellphones. Even when traveling, students can still open the electronic module to study. Because students are motivated to learn, student learning outcomes will increase. Research result (Asprivani & Suzana, 2020) show that Learning using this interactive e-module provides better learning results. E-module can be used to educators as teaching materials in the learning process for students (Florentina & Karyono, 2021). Lectures become more effective and meaningful with using e-module (Septiati et al., 2022). PjBL-based e-modules in terms of 21st Century creative thinking skills are very valid and practical for learning (Mustika, 2022; Musaad & Suparman, 2023).

#### CONCLUSION

Based on the data obtained from the results and discussion, it can be concluded that the HOTs-based e-module for developing guidance and counseling programs in schools is rated by students on an overall average as being in the very good category for use as a learning module in guidance and counseling program development courses in schools. With this e-module, students are expected to be able to study independently and can become an alternative learning source that can help students study anytime and anywhere.

The suggestion is that the material prepared in the book be developed from low to high levels of difficulty with a semester learning plan and available infrastructure so that it can be planned well and run optimally, and e-module development of guidance and counseling programs based on higher order thinking skills that that has been produced in this development should be properly maintained so that it is not easily damaged so that it can be used again in the next academic year as long as it is still in accordance with the curriculum implemented in the Faculty.

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