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Development of Hots-Based Communication and Business Negotiation Teaching Materials

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Abstract	Article History
This study aims to test the feasibility level of HOTS-Based Communication and Business Negotiation	Received: 05 Jan 2023
teaching materials in learning. The method used in this research is the R&D method using a 4D model	Accepted: 02 Sept 2023
with 4 stages, namely <i>define</i> , <i>design</i> , <i>develop</i> and <i>disseminate</i> . The population in this study was the	Published: 05 Sept 2023
fourth semester students of the Unimed FE Business Education Study Program. Data collection techniques used observations and questionnaires with research instruments in the form of validation	Scan QR code to view
sheets for expert assessments and student response questionnaires. This research activity begins with a preliminary study by conducting interviews with the Head of the Study Program and the course lecturers. Then the design and development is carried out by analyzing the RPS and learning outcomes of graduates, collecting reference sources and compiling drafts of teaching materials. The next stage is to evaluate the product by conducting a limited trial, revising the product and then carrying out data processing and evaluation. Based on the practicality test, it can be seen that the HOTS-Based Communication and Business Negotiation Textbook is very practical to use, it can be seen from 92% of respondents stating that the HOTS-Based Communication and Business Negotiation Textbook is	
very practical to use, 8% said it was practical and there were no respondents who say that the book is	
impractical or impractical. There is an effect of using HOTS-Based Communication and Business Negotiation teaching materials on student learning outcomes in the Business Education study program, Faculty of Economics, State University of Medan. Increasing and the correlation value between pretest and post-test was 0.947 at a significance level of 0.000<0.005.	License: CC BY 4.0*
Keywords: Teaching Materials, High Order Thinking Skill, HOTS,	Open Access article.

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Introduction

Learning development oriented to high-order thinking skills or *High Order Thinking Skill* (HOTS) is a program developed as an effort of the Ministry of Education and Culture through the Directorate General of Teachers and Education Personnel in an effort to improve the quality of learning and improve the quality of graduates. Lecturers as facilitators are also expected to be able to present learning that can direct students' critical thinking skills. Lecturers must be able to produce innovative and creative media and teaching materials. Learning is not only focused on theory, but must also be followed by the use of cases, *problem base learning and also project base learning* in learning.

The challenge faced today is that lecturers are required to be ready with changes in learning methods after the implementation of the new normal in the teaching and learning process. Changes in teaching materials must be adjusted

according to student needs. The main problem that occurs at the research location is that the available teaching materials are not based on HOTS, so learning focuses on theoretical understanding only, while in the HOTS method, students are required not only to understand theory but also to be able to implement the knowledge gained in critiquing cases that occur in the community and must be able to create projects as learning outcomes.

The Communication and Business Negotiation course is a very interesting subject to develop. As prospective educators and prospective entrepreneurs, students are required to be able to practice good communication and negotiation. Have good presentation skills, have good public speaking skills and be able to negotiate well. This knowledge is very much needed in the career development of students, especially as prospective teachers and prospective entrepreneurs. The phenomenon that occurs in the Unimed FE Business Education study program, the available teaching materials are not in accordance with

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HOTS learning. Facts in the field based on observations while validation sheets for expert assessments and student response the author is known that communication skills and student questionnaires. The next stage is to evaluate the product by percentages are still low, so the development of teaching conducting a limited trial, revising the product and then materials is expected to be a solution in achieving the desired carrying out data processing and evaluation. graduate competencies.

systematically arranged and arranged as attractive as possible this stage, an analysis of user needs is carried out which begins in order to achieve the expected competencies as stated in the curriculum (Prastowo, 2013). The teaching materials used must be in accordance with the curriculum and learning objectives in order to be able to facilitate educators and students in the learning process. The criteria for good teaching lecturers. From the interview results, it is known that teaching materials according to (Daryanto 2013) are having a subject materials and RPS for the HOTS-based Communication and that includes competencies and sub-competencies that must be Business Negotiation Course are not yet available so that there achieved after learning is over, the suitability of the language is a need for the development of learning materials according used must be easy for students to understand, made systematically, clear and easy to understand.

According to Dharma (2011), good teaching materials are self-instructional, self-contained, stand-alone, adaptive and user friendly. This means that the teaching materials used must design and development is carried out by analyzing the RPS be able to make students learn independently and do not have and graduate learning outcomes, collecting reference sources to depend on educators. In addition, teaching materials must and compiling drafts of teaching materials and selecting the also contain and present complete, intact and structured material so that students can learn thoroughly, because teaching materials. In this stage, the selection of learning learning materials and competencies are already in one package. The teaching materials used must be able to be used independently and in groups by students even without the help of other media. Another thing that should not be forgotten is making teaching materials by developing existing drafts and that the teaching materials used must follow technological developments that can be used within a certain period of time in accordance with the applicable curriculum and teaching carried out using 2 designs, namely product validation trials materials must be easily understood by students. Through the HOTS learning method, it is expected to be able to create productive, creative and innovative humans by using and utilizing critical and creative thinking skills in learning. In the Data analysis technique High Order Thinking Skill method, students are not only trained to remember but also must have the ability to think The teaching materials that have been developed are then creatively and critically on every problem presented.

Methodology

The method used in this research is the Research and Development (R&D) method using the 4D model proposed by Thiagarajan, Semmel and Smeel (1974). This model uses 4 stages, namely define, design, develop and disseminate. The R&D research method is a research model that aims to produce an effective product and also aims to test the effectiveness of a product (Sumarnri, 2019). So this research is not to produce a theory but to produce a product and test the effectiveness of the product. Data collection techniques used observations and questionnaires with research instruments in the form of

At the define stage, the determination or definition of the Teaching materials are all materials in the form of development requirements to be carried out is carried out. At with analyzing the basic problems in the learning process so that the development of teaching materials is needed. This process begins with a preliminary study, namely conducting interviews with the head of the study program and the course to needs. Together with the course lecturers, they select materials that are in accordance with the curriculum and CPL of the study program.

> The second stage is the design stage. At this stage, the format of teaching materials and materials to be included in outcomes projects and types of case studies are also carried out in each meeting.

> The third stage is *Development*. At this stage, it begins with then conducting trials.

> The next stage is to conduct a limited trial. The trial was conducted by a team of experts and product trials conducted on 20 students.

a. Feasibility test

validated by 3 expert validators. The expert validators chosen by the author are senior lecturers at the Unimed Faculty of Economics who have long experience in book-making. The aspects that are assessed in the validation by the expert validator team are the aspects of the feasibility of the book content, presentation aspects and language aspects. In this study, the answers to the instrument items were classified into five options (Table 1).

The validator assessment instrument on the feasibility of this research product can be seen in the Table 2:

	Table 1	l : Answers	to Likert Scale	Instrument Items
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Information	Scale
very good/ very appropriate/ very decent/ very clear	5
good / appropriate / appropriate / clear	4
not good / not suitable / not appropriate / not clear	3
not good/ not appropriate/ inappropriate/ not clear	2
very bad / very inappropriate / very inappropriate / very unclear	1

No	Aspect	Indicator	Item Number
1	Feasibility	Conformity of the contents of the book with the RPS,	1, 2, 3
	Aspects of	Material Accuracy,	4, 5, 6, 7
	Book Content	KKNI task,	8, 9, 10
		Project Based Learning, Problem Based Learning Case	11, 12, 13, 14
		Studies and Exercises,	
		material support,	15, 16, 17
		Material updates	18, 19, 20
2	Presentation	presentation technique,	1, 2, 3
	feasibility	presentation support,	4, 5, 6, 7, 8, 9, 10
	aspect	Presentation of learning	11, 12
		Learning equipment	13, 14, 15
3	Aspects of	straightforward,	1, 2, 3
	language	Communicative,	4, 5
	eligibility	Dialogic and interactive,	6, 7
		Suitability with the level of development of students,	8, 9
		Coherence and coherence,	10, 11
		Use of terms, symbols and icons	12, 13

Table 2: Feasibility Assessment Instruments for HOTS.-Based Business Communication and Negotiation Books

After the unital is occur formula Ismail (2018): $\mathbf{Result} = \frac{Rata-Rata \, Skor}{Nilai \, Maksimal} X \, 100\%$ After the data is obtained, then to see the weight of each validator's response by calculating the average score with the following

	Table 3: Eligibility Criteria Category	
Percentage	Eligibility Criteria	Score
21	Very Inappropriate	1
21-40	Not feasible	2
41-60	Decent enough	3
61-80	Worthy	4
81-100	Very Worthy	5

Source: Arikunto 2009.

b. Practicality Test

To test the practicality, it was assessed by students to test the book readability assessment on a limited sample of textbooks that had been made using a Likert scale. This practicality test examines the readability of teaching materials in terms of ease for users (Learnability), effectiveness (Efficiency) and effectiveness of time (Effectiveness of Time). The total range of values from the resulting Likert scale will be converted to the value criteria determined by the level of practicality of using the textbook. The population in this study was the fourth semester students of the Unimed FE Business Education Study Program, totaling 64 students, the sample for the limited trial

was 26 students, namely students who were in class B of the Unimed Business Education Study Program as well as users of the teaching materials (books). The formula used in the practicality test in this study is:

$$\mathbf{Vp} = \frac{TSEp}{S-max} X \ 100\%$$

Information:
$$Vp = Practicality \ Validity$$
$$TSEp = Total \ Practicality \ Empirical \ Score$$
$$S-max = Maximum \ expected \ score$$

After knowing the value of practicality, to describe the results of practicality can be seen from the following criteria:

Table 4: Practical Criteria				
Information Category Information				
75.01% - 100%	Very Practical	Can be used without revision		
50.01% - 75.00%	Practical	Can be used with minor revisions		
25.01% - 50.00%	Less Practical	Recommended not to use		
00.00% - 25.00%	Not Practical	Cannot be used		

Source: Akbar 2011

To analyze the impact of using HOTS-Based Communication Results and Discussion and Business Negotiation Teaching Materials, a test was The product design produced in this study has passed various conducted by piloting three materials accompanied by a pre- trials in accordance with product planning. The trial plays a test and a post-test. The results of the pretest and posttest were role in improving the quality of the book's contents. The tests then tested using a Paired Sample T-Test using SPSS 22

that have been carried out include the first time the book has

been tested by an expert validator. The expert validators who Chapter 6 Listening and reading skills, test are senior lecturers who have experience in their respective Chapter 7 Small group communication, fields. Three expert validators gave an assessment and input Chapter 8 Negotiations and negotiation strategies. on the book that had been made. Each score given by the validator is then tabulated and calculated using descriptive analysis. Based on the validation results from a team of three experts, the next step is to revise the book based on input and suggestions from the validator. This activity is carried out by accumulating input and suggestions from all validators and then carrying out revisions. This revision aims to enrich the contents of the book and provide new innovations in the book. The results of the revised book were then tested on students to measure the practicality of the book.

The product design is in the form of this HOTS-Based Communication and Business Negotiation book. This book is organized into eight chapters. The materials discussed are:

Chapter 1 Basics of business communication,

Chapter 2 Intercultural communication,

Chapter 3 Communication technology,

Chapter 4 Writing skills,

Chapter 5 Employment communication,

Apart from the material, this book also contains case studies selected from the latest cases and according to the topic. The tasks given in this book are KKNI tasks that encourage students to think critically and apply High Order Thinking Skills. The approaches include routine tasks, critical journal reviews, critical book reviews, project based learning, problem based learning, idea engineering and mini research. In addition, this book also presents practices that help students become more confident in communicating, especially communication in public. The outputs produced by students during the learning process that are expected in this book are in the form of mini-research results, project outputs in the form of learning videos that are attractively designed by students and shared on YouTube media.

The results of the validation test of each indicator on the aspects of the assessment carried out by the expert validators in this book can be seen in Table 5.

Table 5: Feasibility Aspects of Book Content					
Indicator	Average	Percentage	Criteria		
Compatibility of book content with RPS	4.22	84.44	Very Worthy		
Material Accuracy	4.50	90.00	Very Worthy		
KKNI's Tasks	4.33	86.67	Very Worthy		
Project Based Learning, Problem Based Learning, Case Study and Exercise	4.6	92.00	Very Worthy		
Material Support	5	100	Very Worthy		
Material Update	4.44	88.89	Very Worthy		
Overall Rating	4.53	90.33	Very Worthy		

average score of 4.50, with a percentage value of 90% entering is included in the very feasible criteria. the very feasible criteria. The KKNI Task Indicator got a score

Based on table 5 above, it can be explained that there are percentage of 100% entering the very feasible criteria and the indicators that have been assessed by the validator. The material updating indicator obtaining an average score of 4.44 indicator of the suitability of the contents of the book with the with a percentage value of 88.89 entering the very feasible RPS with 3 statement items gets an average score of 4.22 with criteria. From the explanation above, it can be seen that the a percentage value of 84.44% which is included in the very overall assessment of the content feasibility aspect is at an feasible criteria. The material accuracy indicator gets an average score of 4.53 with a percentage value of 90.33% which

Based on the data in Table 6, it can be seen that there are of 4.33 with a percentage value of 86.67% which was included four indicators in the aspect of feasibility of presentation where in the very feasible criteria. Indicators of Project Based the value of all indicators is in the very feasible criteria. The Learning, Problem Based Learning, Case Study and Exercise presentation technique indicator obtained an average score of obtained an average score of 4.6 with a percentage value of 4.56 with a score percentage of 91.11% which was included in 92% included in the very feasible criteria. The Material the very feasible criteria. The supporting indicators for Supporting Indicators obtained an average score of 5 with a presentation have an average value of 4.81 with a percentage

presentation obtained an average score of 5 with a score very feasible category.

value of 96.19% which is included in the very feasible criteria. percentage of 100% included in the very feasible criteria. From The learning presentation indicator obtained an average score table 6, it can be concluded that the overall expert validation of 4.83 with a score percentage of 96.67 included in the very assessment on the presentation feasibility aspect obtained an feasible criteria and the completeness indicator for average score of 4.80 with a percentage value of 95.99% in the

No	Indicator	Average	Percentage	Criteria
1	Presentation Technique	4.56	91.11	Very Worthy
2	Presentation Support	4.81	96.19	Very Worthy
3	Learning Presentation	4.83	96.67	Very Worthy
4	Presentation Equipment	5	100	Very Worthy
	Overall Rating	4.80	95.99	Very Worthy

Based on Table 7, it can be explained that there are 6 indicators obtained an average score of 4.33 with a score percentage of on the aspect of language feasibility. The straightforward 86.67% which was included in the very feasible criteria. The indicator obtained a score of 4.67 with a score percentage of indicators of coherence and cohesiveness obtained an average 93.33% which was included in the very feasible criteria. The score of 4.83 with a score percentage of 96.67% belonging to communicative indicator obtained an average afternoon of 5 the very feasible criteria. The indicator of the use of terms, with a score percentage of 100% which was included in the symbols and icons obtained a score of 4.50 with a percentage very feasible criteria. The Dialogical and Interactive Indicators value of 90% which was included in the very feasible criteria. obtained an average score of 4.50 with a score percentage of Overall, the language feasibility aspect obtained a score 90% being included in the very feasible criteria. The indicator percentage of 92.78% which was included in the very feasible of conformity with the level of development of students criteria.

Table 7: Aspects of Language Feasibility

No	Indicator	Average	Percentage	Criteria
1	straightforward	4.67	93.33	Very Worthy
2	Communicative	5.00	100	Very Worthy
3	Dialogic and Interactive	4.50	90	Very Worthy
4	Conformity with the level of development of students	4.33	86.67	Very Worthy
5	Coherence and cohesiveness	4.83	96.67	Very Worthy
6	Use of terms, symbols and icons	4.50	90	Very Worthy
	Overall Rating	4.64	92.78	Very Worthy

From Table 8, it can be concluded that this HOTS-based language feasibility aspect has an average value of 4.64 with a presentation feasibility aspect is 4.80 with a percentage value expert validators are as follows (Table 9) of 95.99% which is included in the very feasible criteria. The

Communication and Business Negotiation book is very score percentage of 92.78% which is included in the very feasible to use. This can be seen from the percentage of values feasible criteria. So it can be explained that this HOTS-Based obtained in all aspects in the range of 81%-100%. The Communication and Business Negotiation book is very Feasibility Aspect of the contents of the book got an average feasible to use. As previously explained, in addition to the of 4.53 with a score percentage of 90.33% which was included assessment of the expert validators, they also provided inputs in the very feasible criteria. The average value of the in improving this book. Some of the inputs received from

No	Rated aspect	Average	Percentage	Criteria
1	Feasibility Aspects of Book Content	4.53	90.33	Very Worthy
	Aspects of Feasibility of Presentation (Design and			
2	Layout)	4.80	95.99	Very Worthy
3	Language Eligibility Aspect	4.64	92.78	Very Worthy

Table 8: Expert Validation Results

Table 9: Contents of Input for Teaching Materials from Expert Validators

No	Feedback	Input Content	
1	Validator 1	1. Some indicators of the study material need to be considered again, so	me are
	(Material	not in accordance with HOTS	
	Expert) for	2. Writing the author's title on the cover so that it is better designed, no) more
	Feasibility of	than one line	
	book content	3. Case studies should occur within the last 5 years	
		4. Project based learning should be one and integrated	
		5. References used to include the whole including the source of the image	ge and
		the case raised.	
2	Validator 2	1. It is better to make illustrations in each chapter to make it easier to under	erstand
	(Media	2. Laying out assignments and exercises will be better at the end of the c	hapter
	Expert) for	after the summary	
	presentation	3. It is recommended that each sub-chapter be numbered for clarity	
	eligibility	4. Raised cases to be given a softer and more attractive color	
		5. The cover of the book is made clearer and brighter, including the unimed	d logo,
		the freedom to learn and the ministry logo	
3	Validator 3	1. Practice questions are made in the form of story questions so that the	ey can
	(Technology)	help students apply HOTS learning	
	for Language	2. In the introduction, the description of each chapter of the book is expla	ained
	Feasibility	3. Typing correction so as not to make a typo	
	Aspect	 The book is designed to be attractive and not stiff so that students do bored in learning 	on't get

In addition to input from expert validators, the author also summarizes input from student responses after the practicality test of the book was carried out. The inputs given by students regarding the improvement of the book are as follows.

No

Fill in Student Input

- This textbook is already good, but because the student workload is very heavy in each course, the 1 number of assignments should be considered again.
- 2 Adding examples in the material, for example in writing letters so that students understand more easily
- 3 Practice questions to be considered again in terms of numbers so that they can be done optimally
- 4 Include pictures in each practice illustration, so it's easier to do

also from students, the author then makes revisions to the of the book on a predetermined sample. The practicality test textbook by considering input and suggestions from expert examines in terms of ease for users (learnability), usability validators and also from students.

a practicality test from the HOTS-Based Communication and the student responses as in Table 10. Business Negotiation Book. The practicality test of this book

After taking an inventory of all inputs from the validator and was assessed by students with the aim of testing the readability (efficiency) and effectiveness of time (effectiveness of time). After conducting a validation test, the next step is to carry out After the questionnaire was distributed, the data obtained from

No	Indikator Penilaian	Total Score (TSEp)	Score Maksimal (S-Maks)	$\mathbf{V}\mathbf{p} = \frac{TSEp}{S-max} \ge 100\%$	Kategori
1	Efficiensi	597	130	91,85	Sangat Praktis
2	Learnability	360	130	92,31	Sangat Praktis
3	Effectiveness of Time	467	130	89,81	Sangat Praktis

Table 10: Practicality Validity Test Results

validity (efficiency) of 91.85, it is included in the very practical this book is very practical to use. category. In terms of convenience for users (learnability), the practicality validity value of 92.31 is included in the very learnability and effectiveness of time, the author also analyzes it is known that the value of practicality validity obtained is questionnaire, the following data was obtained (Table 11).

Based on the data in table 10, it can be seen that when viewed 89.1 in the very practical category. Based on the results of the from the aspect of power to obtain a value of practicality analysis above, it can be concluded that from the three aspects,

In addition to testing practicality in terms of efficiency, practical category. Meanwhile, in terms of time effectiveness, the presentation of each respondent's response. From the

Table 11: Practicality Test Results							
Score	Category	Frequency	Percentage				
75.01-100	Very Practical	24	92%				
50.01-75.00	Practical	2	8%				
25.01-50.00	Less Practical	0	0%				
0-25.00	Not Practical	0	0%				
Total		26	100%				
	75.01-100 50.01-75.00 25.01-50.00 0-25.00	Score Category 75.01-100 Very Practical 50.01-75.00 Practical 25.01-50.00 Less Practical 0-25.00 Not Practical	ScoreCategoryFrequency75.01-100Very Practical2450.01-75.00Practical225.01-50.00Less Practical00-25.00Not Practical0				

Table 11. Drasticality Test Decults

From Table 11 above, it can be explained that of the 26 total that there is a difference in the value obtained by students, respondents, it is known that 92% of respondents stated that namely the increase in grades after the use of teaching the HOTS-Based Communication and Business Negotiation materials. book was very practical to use, 8% said it was practical and no respondents said that the book was less practical and correlation value between pre-test and post-test is 0.947 and impractical.

To analyze the impact of using HOTS-Based Communication and Business Negotiation Teaching Materials on student learning outcomes, a comparison test was conducted between the pre-test and post-test scores of students. Data collection was carried out three times. The impact of using teaching materials is calculated by conducting a paired sample T-test using SPSS.

seen that there is an increase in the average score of students Economics, State University of Medan. from the pre test of 84.50 to 87.81 in the post test. This means

Based on the values in table 13, it can be seen that the the significance value obtained is 0.000. This shows that there is a very significant relationship between the pre-test scores and the students' post-test scores as a result of the use of teaching materials.

Based on the data in table 14, it can be seen that the value of Sig (2-tailed) in this data is 0.000 < 0.005, meaning that there is an effect of using HOTS-Based Business Communication and Negotiation teaching materials on student learning Based on the results of the analysis (Table 12), it can be outcomes in the Business Education study program, Faculty of

Table 12: Paired Samples Statistics								
	mean	Ν	Std. Deviation	Std. Error Mean				
Pair Pre-Test	84.50	26	5.210	1.022				
s 1 Post Test	87.81	26	4.050	.794				

Table 13: Paired Samples Correlations								
	Ν	Correlation	Sig.					
Pairs 1 Pre-Test & Post-Test	26	.947	.000					

Table 14:	Paired	Samples	Test
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1									
			Paired Dif	ferences		t	df	Sig. (2-tailed)	
	mean	Std. Deviatio	Std. Error		fidence Interval Difference				
n Mear		Mean	Lower	Upper					
Pairs 1 Preetest - Posttest	- 3.30 8	1,892	.371	-4.072	-2.543	-8,912	25	.000	

Conclusion

The product produced in this research is a HOTS-Based responsively and innovatively. The results of the validation Communication and Procurement of HOTS-based textbooks is motivated by Communication and Business Negotiation Textbook is very

curriculum demands that encourage students to think critically, Business Negotiation textbook test from the validator show that this HOTS-Based feasible to use. This can be seen from the values obtained in Arikunto, S & Safruddin AJ, C. 2009. Evaluation of all aspects in the range of 81%-100%. The Feasibility Aspect of the contents of the book got an average score of 4.53 with a Ariyana, Oky.dkk .2018. Learning Handbook Oriented to percentage value of 90.33% included in the very feasible criteria, the presentation feasibility aspect was 4.80 with a percentage value of 95.99% included in the very feasible criteria and the language feasibility aspect was 4 .64 with a percentage value of 92.78 is included in the very feasible criteria. From the Practicality Test, it can be seen that the HOTS-Based Communication and Business Negotiation DEPDIKNAS, Guide to the Development of Teaching Textbook is very practical to use, it can be seen from a total of 26 respondents, it is known that 92% of respondents stated that the HOTS-Based Communication and Business Negotiation Book was very practical to use, 8% said it was practical and none of the respondents said that the book was less practical Fazri Ismail, 2018. Statistics for Research in Education and and impractical. To analyze the impact of using HOTS-Based Communication and Business Negotiation Teaching Materials Nabilah, Atika, Insi.2020. Development of Digital-Based on student learning outcomes, a comparison test was conducted between the pre-test and post-test scores of students. Based on the comparison test of pre-test and post-test scores, there is an effect of using HOTS-Based Sudjati, Melati. 2009. The Nature of Teaching Materials. Communication and Business Negotiation teaching materials on student learning outcomes in the Business Education study program, Faculty of Economics, State University of Medan, this is evidenced by the increasing average value and the Syamsul.2017. correlation value between the pre-test and post test of 0.947 at a significance level of 0.000 < 0.005.

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