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THE INFLUENCE OF PEER-ASSISTED LEARNING & STRESS COPING TOWARD CADETS' LEARNING ENGAGEMENT

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Abstract. This research aimed to see the influence of peer-assisted learning and coping stress toward cadets' learning engagement. This is a quantitative study with ex-post facto method. The research instrument was a questionnaire given to 334 samples. The data analysis technique used multiple linear analysis with the SPSS application. The results of the study showed that there was a positive influence of peer-assisted learning and stress coping towards cadets' learning engagement. So, it can be recommended to organize a learning method with a peer assistance program, so that it can increase cadets' learning engagement. Furthermore, universities can organize stress management training to help cadets cope with academic pressure effectively, so that cadets can be more proactive in learning activities. Although this study has been carried out optimally, there are several limitations to the study that can be used as recommendations for future research. This study used a quantitative approach, then researchers are advised to use a qualitative approach to explore the relationship between these three variables or assessed other variables. In addition, further research needs to consider other factors that influence student learning engagement, such as intrinsic motivation, teaching quality, and family support.

Keyword: Learning Engagement; Peer-Assisted Learning; Stress Coping.

Abstrak. Tujuan penelitian ini adalah untuk melihat pengaruh asistensi teman sebaya dan koping stres terhadap keterlibatan belajar. Penelitian ini adalah penelitian kuantitatif dengan metode ex-post facto. Instrumen penelitian adalah kuisioner yang diberikan kepada 334 sampel. Teknik analisis data menggunakan analisis linear berganda dengan bantuan aplikasi SPSS. Hasil penelitian menunjukkan bahwa terdapat pengaruh positif asistensi teman sebaya dan koping stres terhadap keterlibatan belajar mahasiswa. Dari hasil penelitian ini maka dapat direkomendasikan penyelenggaraan metode pembelajaran dengan program asistensi teman sebaya sehingga dapat membantu meningkatkan keterlibatan belajar mahasiswa. Selanjutnya, perguruan tinggi dapat menyelenggarakan pelatihan manajemen stres untuk membantu mahasiswa mengatasi tekanan akademik secara efektif, sehingga mahasiswa dapat lebih proaktif dalam kegiatan pembelajaran. Walaupun penelitian ini telah dilaksanakan secara maksimal, namun terdapat beberapa keterbatasan penelitian yang dapat dijadikan sebagai rekomendasi penelitian pada masa yang akan datang. Penelitian ini menggunakan pendekatan kuantitatif saja, peneliti selanjutnya disarankan untuk menggunakan pendekatan kualitatif untuk menggali lebih dalam keterkaitan ketiga variabel ini atau mengkaji variabel lainnya. Selain itu, penelitian selanjutnya perlu mempertimbangkan faktor-faktor lain yang mempengaruhi keterlibatan belajar mahasiswa, seperti motivasi instrinsik, kualitas pengajaran, dan dukungan keluarga.

Kata Kunci: Keterlibatan Belajar; Asistensi Teman Sebaya; Koping Stres.



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INTRODUCTION

Learning engagement is one of the important factors that determine academic success and Graduate Learning Outcomes. Meanwhile, Graduate Learning Outcomes is a Key Performance Indicator (KPI) of Higher Education in accordance with the National Standards of Higher Education. Benlahcene et al., (2024) proved that students' learning motivation and academic achievement are largely determined by students' involvement and active participation in learning activities. Making students actively involved in learning is the main goal of choosing teaching methods today because it will give positive impact on the achievement of the learning curriculum expected by higher education institutions (Wahlström & Schmidt, 2024).

The importance of learning engagement in 21st century learning is due to the development of globalization and changes in the education system that require students to be the center (students-centered learning), no longer the lecturers (teacher-centered learning) (Zhong et al., 2023). Learning engagement provides students with an educational experience that is very useful for connecting subject matter with learning process skills (Bayoumy & Alsayed, 2021). This authentic learning experience is useful for students to get bona fide jobs in the future. Students who are accustomed to being actively involved in learning also have good communication skills which are very useful in the world of work (Hu et al., 2024).

However, learning engagement is still a major problem for the cadets of Merchant Marine Polytechnic of West Sumatera. Based on the results of discussions in the "sharing knowledge" activities of lecturers from the Ministry of Transportation, data was obtained in the field that many maritime cadets do not have adequate knowledge and skills. The officers on the ship must teach them everything, both theory and practice. This ignorance of cadets is caused by their lack of involvement in learning activities. The cadets in this era, who are called generation Z tend to be passive in learning because in their daily lives they prioritize individualization and are less involved in learning activities (Pham et al., 2024). Second, cadets tend to less active and do not dare to perform or present voluntarily because of the atmosphere of the maritime school which is always taught "according to directions" and daily regulations that are fixed (Irwan et al., 2024). Therefore, cadets do not dare to advance and develop themselves because they are afraid of being wrong and being punished.

The following data on student involvement in learning is filled in by all lecturers at the Merchant Marine Polytechnic of West Sumatera.

Figure 1. The Data of Cadets'



Source: Initial Research Data

The conclusion from the chart above is out of 553 total cadets in batch VI, VII, and VIII, their learning engagement in each aspect is still below average. It is hoped that each cadet has a learning engagement in each aspect of more than 70%, so that learning outcomes are achieved optimally. The most prominent aspect of emotional learning engagement is the engagement, namely the cadets' positive reactions and attitudes in learning activities which have only reached 36%. Furthermore, it is followed by behavioral engagement, which is cadets' active participation in learning activities, namely 27%.

Then, cognitive engagement, that is the level of cadets thinking about the material and tasks given, namely 22%, and agentic engagement, which is the involvement of cadets as contributive and constructive agents in learning, namely 15%. Thus, cadets' learning engagement is still low, therefore it is necessary to pay attention to the factors that influence learning engagement, so that it can be a solution and anticipatory step for lecturers and cadets for the future.

Cadets' learning engagement is very dependent on the cadets themselves, because it is a psychological aspect that cannot be forced. Factors that influence cadets' learning engagement can be divided into internal and external factors. Internal factors that can activate cadets' learning engagement include motivation and self-efficacy (H. Wu et al., 2020), character and personality (Sörman et al., 2024), attention (Huang, 2024), emotional intelligence and stress coping strategies (Gosrani & Hang, 2023). The external factors influence cadets' learning engagement include peer assistance (Hu et al., 2023), social media (Assefa et al., 2023), lecturer's enthusiasm and lecturer's commitment in teaching (Yan et al., 2023), learning media and learning strategies (R. Wu, 2024). From these factors, this study will only discuss two factors that are assumed to be the most dominant in influencing cadets' learning engagement, namely peer-assisted learning (external factor) and stress coping (internal factor).

Previous research related to learning engagement, peer-assisted learning, and stress coping has been widely conducted. First, research from Primahendra et al., (2020) with a research focus on the influence of peer learning on students' learning process. Second, research from Wardiah (2018) with a research focus on peer tutoring assistance in improving student's learning outcomes. Third, research from Syamsiah et al., (2022) with a research focus on the relationship between adolescent coping styles and resilience during the COVID-19 pandemic. Fourth, research from Yusuf et al., (2020) with a research focus on the influence of peer environment on students' learning outcomes. Fifth, research from Parwatiningsih et al., (2020) with a research focus on the influence of the peer-teaching practicum learning method on practical learning. Sixth, research from Tetiwar & Appulembang (2018) with a research focus on the peer-tutoring method to improve students' understanding.

From the previous research, it can be concluded that peer-assisted learning has an effect on learning outcomes, and stress coping also has an effect on learning outcomes. Thus, the novelty of this study is to see the influence of these two variables; peer-assisted learning and stress coping on learning engagement. This research was conducted on the recommendation of previous research which suggested looking at the relationship between learning engagement with learning factors and various other educational contexts (Du et al., 2020). Therefore, this research is a roadmap for previous research and to bridge further research related to peerassisted learning, stress coping, and learning engagement.

LITERATURE REVIEW

Learning engagement is a measure of the extent to which cadets take part in learning activities enthusiastically, participative, actively and interactively (Mensah et al., 2024). Cadets are said to be significantly involved in learning if they are able to construct the four main components that exist in themselves, namely behavior, emotions, cognition and attitudes as agents of change for themselves and for the environment (Pettersen et al., 2024). Cadets' involvement in learning can be seen from the willingness and desire of students to build selfawareness to actively participate in academic activities, starting from coming to class on time, paying close attention to lecturers, doing assignments honestly, and sharing their learning experiences with colleagues (Afzali & Izadpanah, 2021). Cadets' learning engagement bond with each other shown through communication, trust, and a sense of security in each student (Munaa & Firdaus, 2023).

Peer assistance in learning activities is also known by various terms, such as peer learning, peer-assisted learning, and peer tutoring. Peer-Assisted Learning (PAL) can be defined as a learning activity where the cadets who have more abilities provide tutoring to their friends who need help, so that cadets at the same level of study help each other with learning problems and personal problems related to academics (Bengesai et al., 2023). Peer-assisted learning refers to the acquisition of knowledge and skills from peers who come from the same social group and the same language level so that it is easily transmitted to other peers (Balilah et al., 2020). The definition of peer tutoring in terms of tutors is "learning twice", which means that the more a cadet shares his knowledge, the more solid the knowledge he has (Tanveer et al., 2023). PAL is a process of students support students and this is commonly happen in the academic situation and academic activities (Tibingana-Ahimbisibwe et al., 2022).

Coping is a person's conscious effort to continuously change behavior in order to manage problems and emotions caused by internal and external demands that exceed the person's resources (Stubbs et al., 2023). Stress coping can also be defined as a resilience strategy possessed by the cadets to ignore the negative impacts of academic stress experienced during college (El-Awaisi et al., 2024). Stress coping is the process of cadets managing stressful situations related to academics and using coping strategies to deal with these problems, such as problem solving in college assignments, concentration during learning activities and avoiding negative or unimportant things (Białczyk et al., 2020). Coping strategies from academic stress carried out by a student can be seen from how her/his self-concept, this is because self-concept will grow from a student's interaction with other people who influence her/his life (Suryana, 2022).

The purposes of this study are to answer the following hypotheses:

- H1 = There is a positive influence of peerassisted learning on learning engagement.
- H2 = There is a positive influence of stress coping on learning engagement.
- H3 = There is a simultaneous positive influence of peer-assisted learning and stress coping toward learning engagement.

METHOD

This research is quantitative research with an ex-post facto method. The research location is at Merchant Marine Polytechnic of West Sumatera. This research was conducted for 6 months, starting from April 2024 to November 2024. The population of this research was the cadets of batch VI and VIII with a total of 334 cadets. This research used total sampling technique, in order to make the research results can be generalized and are more valid. The research instrument used a questionnaire which can be seen in table 1.

Table 1. Questionnaire Layout

No.	Variable	Indicator	Questionnaire Statement	Code
1	Peer-Assisted	Social	I have trust on my friend's assistance in	PAL1
	Learning, adapted from: (Aliahany et al.	Congruence	learning I feel relax when my friend assist me in learning	PAL2
	2021; Johnson & LaGasse,		Peer-Assisted Learning creates sharing experiences	PAL3
	2022; Loda et al., 2020)		My friend's assistance creates emphatic and supportive learning	PAL4
			I can solve my learning difficulties with friend's assistance	PAL5
			I enjoy my friend's tutorial	PAL6
			I can create my own learning techniques by friend's assistance	PAL7

	-	Cognitive	Peer-Assisted Learning creates more	AL8
		Congruence	knowledge experience	
			my common knowledge base develop by F my friend's assistance in learning	AL9
			My friend is my role model P.	AL10
			I enjoy Peer-Assisted Learning because I P	AL11
			have the same language as my friend	
			I understand technical terms when my P. friend assist me in learning	AL12
			Peer-Assisted Learning gives effective P.	AL13
	-	Behavior	Peer-Assisted Learning creates verbal P	AL14
		Congruence	interaction Peer-Assisted Learning makes a good P	AL15
			verbal response in learning I can pay very attention to the materials P.	AL16
	-	01-11	when my friend assist me in learning	
		Congruence	performance in learning	ALI/
			I can develop my critical thinking and P.	AL18
			assist me in learning	
			I am interested when my friend assist me P	AL19
			In learning Peer-Assisted Learning is a better way to P.	AL20
· —	Strage Coning	Ctuatogr	develop my skills in learning	801
2	adapted from	Surategy- Focused	my stress coping is by doing regular exercise	301
	(Giray et al.,	Coping	I play game as my stress coping strategy	SC2
	2024; Younas		I watch movie as stress coping strategy	SC3
	et al., 2023;	Problem-	I organize my learning schedule	SC4
	Abdulghani et	Focused	I seek for additional resources to solve	SC5
	ai., 2020j	Coping	learning problems	\$66
			learning	000
		Behavior-	I get used to build my physical health to	SC7
		Focused	support learning	000
		Coping	I create my psychological health to	SC8
			I make sure I have overall wellbeing in	SC9
			learning	
			I do physical activity to support learning	SC10
		Emotion-	I seek emotional support from my friend	s SC11
		Focused	I view situations from a positive	SC12
		Coping	perspective Llike engaging in bobbios and males	\$612
			relaxation techniques	3613
			I manage my emotional distress in	SC14
			learning	
3	Learning	Cognitive	I usually can find a solution for any	LE1
	Engagement, adapted from	Engageme	I am an active learner and responsible in	LE2
	(Tesfaw et al.		my own learning	
	2024; Xu et al	.,	I know my own competence and can	LE3
	2023; Emiru 8	\$	increase it in everyday learning	
	Gedefaw, 202	4)	I admit that learning is important to pass	s LE4
		Bahavior	acauenne assessment I always participate in learning activity	1 2 4
		Engageme	ent I always improve my learning	LE6
		0.0.0	performance	-
			I am doing academic presentation well	LE7
			I can build good team work in	LE8
		Emotion	Lam interested in my learning activity	1 50
		Engageme	ent I am passionate in everyday learning	LE10
			activity	
			I always feel happy in learning, because	LE11
			get new and different experiences	
			everyday I foel oniou when learning new things	1 5 1 2
		Agentic	I am hopeful for my future education	LE12
		Engageme	ent I plan to achieve better learning goals	LE14
			I believe that better learning management	nt LE15
			create job opportunities in the future	
			I have been involved in peer learning	LE16
			activity I have engaged in neer assessment	LE17
			Source: Trial Ouestionnaire	101/

The research questionnaire was tested on 59 cadets outside the sample, namely cadets on batch VII. This aim is to ensure the validity and reliability of the questionnaire before given to the research sample. The research questionnaire was given directly to cadets outside of lecture hours. The data analysis technique used multiple linear by the SPSS application.

RESULT AND DISCUSSION

Result of Validity and Reliability Test

Before given to the research sample, validity and reliability tests were conducted on

59 cadets of batch VII. The r-table value with a sample size of 59 people was 0.2564 (df (N-2) = 57, α = 0.05). The questionnaire item is valid if r-calculated is greater than r-table. The questionnaire item is reliable if Cronbach's Alpha value is greater than 0.06. The results of validity and reliability tests of the questionnaire using SPSS can be seen in table 2.

	Validity	Validity Test Result		Reliability	Test Result
Variable	Indicator	Pearson	Description	Cronbach's	Descriptio
	PAI 1	0.490	v	лірпа	
	PAL2	0.791	v		
	PAL2	0.201	NV		
	DAL4	0.201	v		
	PALS	0.823	v		
	PALS	0.210	NV		
	DAL 7	0.510	v		
	PAL/ DATO	0.669	v		
	DALO	0.030	v		
reer-	PAL 10	0.560	v	0.000	Delishis
Assisted	PALIU	0.453	v.	0.892	Kellable
Learning	PAL11	0.429	v v		
(X1)	PAL12	0.479	v		
	PAL13	0.583	V		
	PAL14	0.555	v		
	PAL15	0.171	NV		
	PAL16	0.837	v		
	PAL17	0.878	v		
	PAL18	0.765	v		
	PAL19	0.195	NV		
	PAL20	0.845	v		
	SC1	0.812	v		
	SC2	0.790	v		
	SC3	0.882	v		
	SC4	0.869	v		
	SC5	0.759	v		
Stress	SC6	0.894	v	0.951	Reliable
Coping (X2)	SC7	0.605	v		
	SC8	0.679	v		
	SC9	0.485	v		
	SC10	0.545	v		
	SC11	0.827	v		
	SC12	0.897	v		
	SC13	0.567	v		
	SC14	0.307	v		
	1 F1	0.440	v		
	152	0.422	v		
	1 53	0.422	v		
	1 F4	0.821	v		
	100	0.021	v		
	LES	0.000	, v		
T	LEG	0.842	v v	0.020	D-li-bl-
Learning	LE/	0.790	V	0.930	Kenable
angagement	LES	0.000	NV		
(1)	LE9	0.411	V		
	LE10	0.752	V		
	LE11	0.858	V		
	LE12	0.535	v		
	LE13	0.802	v		
	LE14	0.762	v		
	LE15	0.711	v		
	LE16	0.643	v		
	LE17	0.000	NV		
		Course Doors	-h D. to 2024		

Table 2. Validity and Reliability

Furthermore, the number of questionnaire items used for the research sample can be seen in Table 3.

Table 3. The Research Instrument

No.	Variable	Trial Questionnaire	Research Questionnaire
1	Peer-Assisted Learning (X1)	20	16
2	Stress Coping (X2)	14	14
3	Learning Engagement (Y)	17	15

Result of Prerequisite Test

Before conducting multiple linear analysis, prerequisite tests were conducted, namely normality test, multicollinearity test, and heteroscedasticity test. The results of the normality test can be seen in Figure 2 and Figure 3.



Figure 2. Normality Plot

The normality test result from peerassisted learning, stress coping, and learning engagement variables can be seen from the plot that follows the diagonal line. Thus, the data of the three research variables are normally distributed. In addition, the normality of the data can also be seen from the histogram in Figure 3.



Figure 3. Histogram of Normality

The histogram above shows a curved line which means that all research variable data is normally distributed. Furthermore, the results of the multicollinearity test can be seen in table 4. Ta

ble 4.	Multic	ollinearity	v Test Result
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No.	Independent Variable	VIF	Tolerance	Result
1	Peer-Assisted	1.174	0.852	No
	Learning (X1)			multicollinearity
2	Stress Coping	1.174	0.852	No
	(X2)			multicollinearity

Source: Research Data 2024

The results of multicollinearity test are determined by the VIF value and tolerance value in the SPSS data processing results. If the VIF value is less than 10 and the tolerance value is greater than 0.1, then there is no multicollinearity. The prerequisite for multiple analysis is that there linear is no multicollinearity. Thus, the prerequisite test can be continued with the heteroscedasticity test. The results of the heteroscedasticity test can be seen in Figure 4.



Figure 4. Heteroscedasticity Test Results

From figure 4, it can be described that the dots are spread randomly and do not form any pattern or chart. It means that there is no heteroscedasticity in the research variable data. The prerequisite for the multiple linear analysis test is that there is no heteroscedasticity in the research data. Because the prerequisite test has been met, the multiple linear analysis test can be carried out.

Result of Hypothesis 1 and Hypothesis 2

Hypothesis 1 of the study is to see whether there is a positive influence of peer-assisted learning toward learning engagement. Hypothesis 2 is to see whether there is a positive influence of stress coping towards learning engagement. The research hypothesis is accepted if the t-calculated value is greater than the t-table value. The t-table value for the research sample of 334 cadets is 1.98. The results of Hypothesis 1 (H1) and Hypothesis 2 (H2) tests can be seen in table 5.

No.	Independent Variable	t-count	t-table	Result
1	Peer-Assisted	2.62	1.98	Accepted H1
	Learning (X1)			
2	Stress Coping (X2)	4.17	1.98	Accepted H2
	Source: R	Research Da	ıta 2024	

Table 5. T-Test Result

Table 5 explains that Hypothesis 1 (H1) is accepted, it means that there is a positive influence of peer-assisted learning toward learning engagement. Then, Hypothesis 2 (H2) is also accepted, it means that there is a positive influence of stress coping on learning engagement.

Result of Hypothesis 3

Hypothesis 3 of the study is to see whether there is a simultaneous positive influence of peer-assisted learning and stress coping on learning engagement. Hypothesis 3 (H3) is determined by the F test. The research hypothesis can be accepted if the F-count value is greater than the F-table value. The F-table value for sample of 334 cadets is 3.0. The results of the F test can be seen in table 6.

Table 6. F-Test Result

F-count	F-table	Result	
19.2	3.0	Accepted H3	
Source: Research Data 2024			

Table 6 explains that Hypothesis 3 (H3) is accepted, it means that there is a simultaneous positive influence of peer-assisted learning and stress coping on learning engagement.

Discussion

From the result of Hypothesis 1, it can be concluded that peer-assisted learning has a positive effect toward cadets' learning engagement. This is in line with the opinion of Orsal & Ergun (2021) which states that peers will direct cadets in choosing decisions and changing their learning behavior properly, so that students will try to commit to these changes because they are influenced by the positive attitudes of their peers. Peers can also influence students in terms of behavioral involvement in learning such as fostering an entrepreneurial spirit (Utama & Syaiful, 2020). In addition, peer learning also plays an important role in shaping students' inferential skills, such as the ability to communicate in class presentations and the ability to interpret data (Rahmasari et al., 2024). Thus, it can be concluded that learning from peers has a significant impact on making students actively involved in learning activities. PAL makes the learning activities become more fun and decrease students' academic stress (Manolopoulos et al., 2022).

Furthermore. from the results of Hypothesis 2, it can be concluded that students' stress coping also has a very positive effect on their involvement in learning. According to Smart et al. (2024), the ability to manage academic stress is an effective way to make students actively involved in learning activities, as well as bring success to the university. Student coping styles will make students independent and have a positive attitude in learning, thus it will make the students have enthusiasm to participate in every learning activity (Amai, 2020). Students' stress coping strategies will build optimism, good mood, motivation, and satisfaction in learning, thereby increasing their willingness to participate in learning activities (Gibbons, 2023). Thus, it can be concluded that stress coping strategies have a significant positive impact on student engagement in learning.

Then, from the results of Hypothesis 3, it can be concluded that peer-assisted learning and stress coping have a simultaneous positive influence towards cadets' learning engagement. Chen (2023) assumes that learning engagement is influenced by the social environment such as peer support and motivation from within students to always persist in all situations. The intensity of relationships with peers and the courage or agility to learn in the fatigue of academic burdens will make students more involved in activities at university (Jeon et al., 2022). Learning engagement is generally supported by the presence of peers and lecturers, as well as internal motivation from each student (Chi, 2023). Students' learning performance has been proven affected by peer-teaching and students' self-reflection as one of the strategies of students' stress coping (Di Benedetti et al., 2023). In addition (Jawhari et al., 2021).

CONCLUSION

The results of the study indicate that both peer-assisted learning and stress coping have a significant influence toward cadets' learning engagement. From the results of this study, it can be recommended to organize a learning method with a peer assistance program, so that it can help increase cadets' learning engagement. Furthermore, universities can organize stress management training to help cadets cope with academic pressure effectively, so that cadets can be more proactive in learning activities. Although this study has been carried out optimally, there are several limitations of the study that can be used as recommendations for future research. This study uses a quantitative approach only, further researchers are advised to use a qualitative approach to explore the relationship between these three variables or examine other variables. In addition, further research needs to consider other factors that influence cadets' learning engagement, such as intrinsic motivation, teaching quality, and family support.

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