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# Comparative Study of Entrepreneurship Intentions Before and During the Covid-19 Pandemic Students of The Faculty of Economics and Business, University of Muhammadiyah Prof. DR. Hamka

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#### **Abstract**

Entrepreneurial intentions play a central role in the entrepreneurial process as it is the initial stage of entrepreneurial activity that encourages individuals to start new businesses in a variety of industries. This research aims to find out the entrepreneurship intentions of students of the Faculty of Economics and Business, University of Muhammadiyah Prof. Dr. Hamka before and during the Covid-19 pandemic. The object of the research is a student of the Faculty of Economics and Business UHAMKA. This research uses quantitative methods with comparative analysis, as this type of method is most widely used in entrepreneurial studies and makes it possible to support sample data collection, validation of theories and relationships between collected variables, generalizing the results of the research obtained, and replication of different samples. Two samples were collected through questionnaires taken from students who actively attended lectures before and during the COVID-19 pandemic. The first sample (sample 1) corresponds to the period before COVID-19, with 96 students having been collected between June 2019 and December 2019, while the second sample (sample 2), with 96 students, was collected during the pandemic period between August 2020 and February 2021. Data analysis methods include descriptive statistical tests, normality tests and Wilcoxon sign rank tests. The results showed that the overall indicators of behavioral planning theory, namely attitudes, subjective norms, behavioral control before and during the covid-19 pandemic were different, meaning attitudes, subjective norms and control of student behavior were higher than before the pandemic. Student entrepreneurship intentions are higher during covid-19 than before covid-19.

Keywords: Theory of Planned Behaviour, Entrepreneurship Intentions

#### 1. Introduction

Before completing formal education students must dare to start an entrepreneur, and must change the mindset from jobseeker (job seeker) after completing higher education to job creator (job maker), the earlier starting an entrepreneur will be better. It should motivate that Higher Education does not guarantee a person will get a decent job, as the number of formal jobs is limited. Therefore, students must prepare their future early on, in order to be able to compete and not add to the ranks of educated unemployed in the country.

The emergence of the Covid-19 pandemic since the end of 2019, the world has faced health problems. This quickly brings socio-economic impact on a world scale, creating an unprecedented environment and conditions of very high uncertainty (Hernandez, 2020). With this new crisis, many companies are closing down and substantially changing their business models. In this context, entrepreneurship and innovation have great

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potential to mitigate the negative impacts of pandemics. Entrepreneurship is the determining factor for improving, developing socioeconomic and welfare of the country, as well as creating value and wealth (Hernandez, 2020, Fayolle, 2016). Thus, individual talent, and entrepreneur experience should be a resource and part of the solution in overcoming crises and turning weaknesses into a source of competitive advantage of a country (Ruiz-Rossa, 2020; Fernandez, 2019). Entrepreneurship is widely accepted by the international and academic community as an important catalyst in regional and state development (Farinha, 2020; Lopes, 2018); Nonetheless, the results of studies on the importance of entrepreneurship in situations of uncertainty are very limited (Hernandez, 2020; Branzei, 2010). Covid-19, currently originating in China's Wuhan, in December 2019 spread rapidly throughout the world, and has infected at least 104,963,559 people and caused the deaths of 2,286,850 people as of February 5, 2021. In the same period in Europe infected with the virus as many as 32,047,663 people, resulting in 845,847 deaths. In Indonesia for the same period registered 755,774 cases, causing 13,740 deaths (https://coronavirus.rr.sapo.pt/, December 2020). On March 11, 2020, the World Health Organization (WHO) officially announced a global pandemic identified in 114 countries (Mahase, 2020). Based on data from the Ministry of Health, the number of Covid-19 cases in Indonesia until July 19, 2021 exceeded China. From June 2020 to August 2021 infected as many as 4,167,511 people, the death rate was 138,889 people (Source: Ministry of Health, September 13, 2021).

Student entrepreneurship interest in higher education has motivated the interest of researchers and policymakers. But a deeper understanding of the factors driving students' interest in participating in entrepreneurial activities is essential (O'Kane, 2020; Edwards, 2009). Many students want to become entrepreneurs because they realize that entrepreneurship will bring higher benefits such as increased pay, satisfaction, and a better reputation (Lam, 2010; Praag, 1995). Entrepreneurship interest in education is much more developed through the foundation of spin-offs, which aim to transfer the knowledge generated at the College and turn it into a marketable service (Lopes, 2018; Siegel, 2018). The current Covid-19 pandemic will have an impact on the development of businesses and potential entrepreneurs in creating future businesses, and there is still a lack of relevant study results on students' entrepreneurial interests in colleges. Several scientific publications discuss entrepreneurship intentions related to the intention to start a business (Start-up), and the profitable business processes of entrepreneurial activities (Wang, 2021; Lopes, 2020; Esfandiar, 2019). From a number of existing scientific publications about entrepreneurship interest in college in situations of disaster, uncertainty, or pandemic are still very limited (Hernandez, 2020; Baum, 2004; Miller, 2015). This study aims to find out the intentions of entrepreneurship students before and during the Covid-19 pandemic. This research was conducted at the Faculty of Economics and Business, University of Muhammadiyah Prof. Dr. Hamka, exclusively students who actively participated in learning before and during the COVID-19 pandemic. We hope that this study will contribute to clarifying about entrepreneurship interest in pandemic situations. From the results of this study we will recommend to universities in particular and policymakers in general, to maintain or increase entrepreneurship interest in the face of pandemic crises.

# 2. Literature Review

Entrepreneurship applies to businesses large and small, both economic and non-economic activities (Toma, 2019; Schumpeter, J.A. 1911, 1973). Different entrepreneurs may have similar traits, but they will all have unique differences. Entrepreneurship plays an important role in the economic growth and development of the country, the creation of new products and technological changes in the production process and economy. Traditional neoclassical theory states that a country's economic growth is determined by the supply of labor and capital that a country has and the level of technology it has in that country. The level of technology of a particular society depends heavily on the level of knowledge in that society. An entrepreneur is a person who starts a business, looking for change and is able to respond to business opportunities. Entrepreneurship involves a blend of capital, technology and human talent. (Toma, 2019; Schumpeter, J.A. 1911, 1973). Entrepreneurship has a positive impact on economic development as it prepares for capital formation, generates jobs, improves living

standards and decentralizes the distribution of economic resources, increases Gross National Product per capita income, promotes export trade and facilitates overall nation-building (Grimsley, S. 2016; Chandler, A.D.1962).

In the midst of pandemic conditions that occur and changes in the socio-economic and political environment that produce few job opportunities, preparing college graduates to have an interest in entrepreneurship as a livelihood option when they graduate and are not absorbed by the industrial world is part of the solution, This is because entrepreneurship can be their vehicle in a career without limits and flexible (Gelderen, 2008). The availability of graduates who are ready to work in various industries must be able to create college graduates who have entrepreneurship intentions embedded in their respective personalities (Kurnia, 2018). In the current situation of uncertainty one of the right solutions is to prepare students in college, in order to have strong creativity and innovation to create talented young entrepreneurs and have adequate skills.

# **Entrepreneurial Intentions**

Intention of directing behavior and making a person adopt a plan in the future becomes possible (Concerned et al., 2016). According to Suryana (2013) in Anggraeni & Harmanik (2015), indicators of an entrepreneur's interest include confidence, task and results-oriented, risk-taking, leadership, originality, and future-oriented. Entrepreneurship is a process of creativity and innovation where there is potential to add value to products, create jobs, increase productivity, revitalize and diversify markets, improve social welfare, and economic development (Guerrero et al., 2008; Urbano et al., 2017; Esfandiar et al., 2019). Self-employment is changing mindsets and empowering oneself to promote economic development with job creation and integrating the global economy (Hisrich and Peters, 2012). Entrepreneurship often leads to innovation and development (Drucker, 1999). Entrepreneurship is very important for developing countries because it is able to promote economic growth and innovative capacities of various industries (Ribeiro – Soriano, 2017). Job creation, economic development, and poverty reduction are the main benefits of entrepreneurship (Willis, 2011; Ribeiro Soriano, 2017). Thus, to ensure a new entrepreneur's sustainable source of economic growth, scholars and policymakers must be aware of potential entrepreneurial intentions as well as the factors that drive entrepreneurship.

To encourage the spirit of entrepreneurship, it is necessary to understand the potential of human decisionmaking (Autio et al., 2001). Therefore, many studies have been conducted focusing on the concept of entrepreneurship intentions. Entrepreneurship intentions are the first step in the process of business formation /creation (Engle et al., 2010), because entrepreneurship is a predictable activity (Krueger and Carsrud, 1993). Thus, entrepreneurship intentions are used to predict future entrepreneurial behavior (Krueger et al., 2000a, b; Linan and Chen, 2009). Some experts emphasize that the stronger the intention of entrepreneurship, the higher the opportunity to create / form new business activities (Botsaris and Vamvaka, 2016; Kautonen et al., 2015). A number of studies on entrepreneurship focus on the concept of entrepreneurial intention assuming that, first, entrepreneurial intentions are an important step in building the foundation of a business organization; Second, entrepreneurship was largely created with strong intentions (Engle et al., 2010) because business is what people plan for (Krueger and Carsrud, 1993). Thus, entrepreneurial intentions have proven to be a major factor for predicting future entrepreneurial behavior (Krueger et al., 2000a, b; Botasris and Vamvaka, 2016). Entrepreneurial intentions play a central role in the entrepreneurial process because it is the initial stage of entrepreneurial activity that encourages individuals to start their new business (Krueger and Carsrud, 1993). Recent research has recognized the importance of the entrepreneurship intention model because it includes a theoretical perspective to explain the determinants of entrepreneurial intentions (Autio et al., 2001; Krueger et al., 2000a,b; Linan and Chen, 2009; Maresch et al., 2016; Guerrero et al., 2008; Esfandiar et al., 2019; Nguyen et al., 2019).

The important role of entrepreneurship intentions is affirmed in the statement Krueger et al. (2000a, b) that entrepreneurship intentions signified how intensely a person prepares and how much effort is planned to commit to carrying out entrepreneurial behavior. Because of the importance of this topic, research on entrepreneurial intentions has often been conducted (Esfandiar et al., 2019; Fayolle and Linan, 2014). But there have been no

specific studies reconciling alternative models of entrepreneurship. Some authors point to the compatibility of intention-based models (Boyd and Vozikis, 1994; Krueger et al., 2000a, b; Fayolle and Linan 2014). Planned behavior theory (Ajzen, 1991) is seen as one of the most common approaches, relevant and provides key specifications (Fayolle and Linan 2014).

## Theory of Planned Behavior (TPB)

The Theory of Planned Behavior (TPB), derived from the Theory of Reasoned Action (TRA), was developed (Ajzen, 1985). In this model, the individual performance of a particular behavior is predicted by three variables, namely; Individual attitudes toward behavior, subjective norms and perceived behavioral control. Collectively, these three elements lead to the formation of an intention to behave that ultimately affects a person's behavior (Ajzen, 2002). TPB explains that attitudes are assumed to influence intentions that turn into behavior directly. So, in other words, attitudes are widely used to predict behavior. There are several studies that attitudes are a learned tendency to respond consistently to good or bad attitudes toward certain objects (Fishbein &Ajzen, 2005). (Heyl, M., Díaz, E.M., &Cifuentes, 2013) describes attitudes as a tendency to respond in consistently favorable or unfavorable ways regarding environmental issues. Attitude as a learned tendency to respond consistently to good attitudes or not about entrepreneurship problems, in this case the intention of behaving becomes very important, to encourage each individual student to become an entrepreneur. Subjective norms are defined as perceived social pressure to perform or not perform a behavior (Ajzen, 1985).

Subjective norms are individual actions suggested by close friends to influence an individual's behavior. It can also be the consent or disapproval of someone to commit a behavior (Ajzen, 1991). In other words, subjective norms concern whether recommendations or suggestions for behavior are approved or not. If the recommendation advises a person to become an entrepreneur, then the individual will have more intention to realize his intentions (Han &Kim, 2010). Perceived behavior control (PBC) refers to how easy or difficult a person feels to perform a behavior (Ajzen, 1991). Perceived behavioral control relates to an individual's assessment of a person's ability to engage in certain behaviors (Ajzen, 1991). Behavioral intent is defined as the possibility of a subject or a person performing some behavior (Fishbein, M., &Ajzen, 1975). Intention of behaving is positively influenced by a person's confidence in the ability to perform a behavior (Cheng, S., Lam T., Hsu, 2006). According to Ajzen (1985), behavioral intentions are a motivating factor that captures how much effort a person is willing to make. The intention of entrepreneurship is the possibility that someone will create an entrepreneur. When the intention arises, it will positively build the entrepreneur. Student entrepreneurship intentions during the covid-19 pandemic are higher than before the covid-19 pandemic (Lopes, 2021).

Employee performance according to Hasibuan (2012: 94) can be interpreted as a result of work achieved by a person in carrying out the tasks assigned to him based on skills, experience, and seriousness and time. Meanwhile, Abdullah (2014: 3) states that employee performance is the result of work or employee performance. According to Mangkunegara (2008) Performance is the result of work in quality and quantity achieved by an employee in carrying out his duties in accordance with the responsibilities assigned to him. As we know there are many factors that influence a person's performance both from within the person and factors from outside.

## 3. Research Hypothesis

The entrepreneurship intentions of FEB-UHAMKA students during the pandemic were higher than before the COVID-19 pandemic.

#### 4. Research Methodology

This research uses quantitative methods with comparative analysis, as this type of method is most widely used in entrepreneurial studies (Rispal-Hlady, 2014) because it makes it possible to support the collection of sample data, validation of theories and relationships between collected variables, generalizing the results of the research obtained, and replication of different samples (Maulada, 2020; Anderson 2014). Two samples were collected through questionnaires taken from students who actively attended lectures before and during the COVID-19 pandemic. The first sample (sample 1) corresponds to the period before COVID-19, with 96 students having been collected between June 2019 and December 2019, while the second sample (sample 2), with 96 students, was collected during the pandemic period between August 2020 and February 2021. The questionnaire, which was submitted to respondents to collect their responses about entrepreneurship intentions, was posted through the social network of class groups in a Google form according to a predetermined time. The questionnaire is based on the models applied by Liñán, et al (Linan, 2007) and (Lopes, 2020, 2021).

This questionnaire includes five groups of questions: (1) sociodemographic characteristics; (2) question group B assesses the tendency of the respondent's personal attitude; (3) question group C assesses Subjective Norms, (4) question group D related to perception measurement Of respondents' behavioral control towards entrepreneurship; and (5) question group E assesses the respondent's entrepreneurship intentions. All answers to questions in groups B, C, and D were measured using a five-point Likert scale. Questions from groups B through E use the consent scale, where 1—strongly disagree and 5—strongly agree. The same data collection procedure was applied to both student samples before and during the covid-19 pandemic. Results of research and discussion. The results of the study at students of the Faculty of Economics and Business, University of Muhammadiyah Prof. Dr. Hamka, described based on demographic data of respondents, data from questionnaires on behavioral planning theory and entrepreneurship intention data, as follows:

#### a.) Characteristics of Respondent

**Table 1. Characteristics of Respondents** 

No	Sociodemographic	Sample	Sample
		1	2
1	Age:		
	Minimum	18	18
	Maximum	22	22
2	Gender:		
	Male	34	43
	Female	62	53
3	Residence:		
	Jabodetabek	59	72
	Outside of	37	24
	Jabodetabek		
4	Education Level:		
	Diploma III	25	11
	Bachelor Degree	71	85
	(S1)		
	Study Program:		
	S1 Accounting	30	26
	S1 Management	49	50
	S1 Islamic	8	9
	Economics	6	8
	D3 Taxation	3	3
	D3 Accounting		

No	Sociodemographic	Sample	Sample
		1	2
	Total of	96	96
	Respondent		

Source: Data Processing Result

The characteristics of study respondents based on age, before the pandemic the minimum age of respondents 18 years and a maximum of 22 years, and respondents during the pandemic were the same. The gender of respondents before the pandemic was 34 men and women 62 people, then the gender of respondents during the pandemic as many as 43 men and 53 women. The origin of the respondents' residence before the pandemic came from jabodetabek as many as 59 people and from outside jabodetabek 37 people. Then the respondents who came from jabodetabek during the pandemic as many as 72 people and came from outside jabodetabek as many as 24 people. For the level of education of respondents before the pandemic diploma level as many as 25 people and the level of strata one 71 people, while the level of education of the hospital during the pandemic as many as 19 diplomas and 85 people strata one. The study program of respondents before the pandemic were the most management study program as many as 50 people and the Diploma 3 accounting program as many as 3 people.

# b.) Normality tests

Normality tests use the Kolmogorov Smirnov and Saphiro-Wilk methods. How to test normality is to compare the probability (p) obtained with a significant level ( $\alpha$ ) 0.05. If the value  $p > \alpha$  then distributed normally or vice versa.

**Table 2. Normality Test results** 

Tests of Normality						
	Kolmogorov-					
	Sm	irnov	<sub>7</sub> a	Shapii	ro-W	ilk
	Statisti		Statisti			
	c	df	Sig.	c	df	Sig.
SS	.116	96	.003	.979	96	.129
SM	.192	96	.000	.887	96	.000
NS	.225	96	.000	.883	96	.000
NM	.178	96	.000	.892	96	.000
MBS	.136	96	.000	.946	96	.001
MBM	.152	96	.000	.922	96	.000
NBS	.137	96	.000	.974	96	.053
NBM	.139	96	.000	.929	96	.000

a. Lilliefors Significance Correction

Source: Data Processing Results

The normality test results of each variable show a probability value of <0.05, this indicates that the data is abnormally distributed (p <0.05).

# c.) Descriptive Analysis of Research Questionnaire

Description of research results is a comparison between mean values, standard deviations, minimum values, and maximum values of attitude indicators, subjective norms, behavioral control and entrepreneurship intentions. This descriptive analysis aims to provide an overview of the actual condition of the research object.

Table 3. Descriptive of Respondents' Answer Statistics

Stausucs					
<b>Descriptive Statistics</b>					
			Std.		
		Mini	Maxi		Deviatio
	N	mum	mum	Mean	n
SS	0.6	18.0	30.0	23.541	2 22227
	96	0	0	7	2.22387
SM	06	19.0	28.0	23.687	1 50151
	96	0	0	5	1.59151
NS	0.0	10.0	15.0	11.989	1 10010
	96	0	0	6	1.10019
NM	96	10.0	15.0	12.885	1 64710
		0	0	4	1.64713
MBS	96	22.0	30.0	26.760	2.02001
		0	0	4	2.03001
MBM	96	19.0	30.0	23.843	2.45000
		0	0	7	2.45090
NBS	0.4	18.0	29.0	23.479	0.16177
	96	0	0	2	2.16177
NBM		21.0	29.0	26.541	101120
	96	0	0	7	1.84629
Valid N					
(listwise	96				
)					

Source: Data Processing Results

The table above shows that the average value of respondents' attitudes before the pandemic was 23 and during the pandemic by 24 means that respondents' attitude to entrepreneurship during the pandemic was higher than before the pandemic. The subjective norms of respondents before the pandemic averaged 12 and during the pandemic by 13, the subjective norms of respondents during the pandemic were greater than before the pandemic. Behavioral control of respondents' average scores before pandemics by 26 and during pandemics by 23, then for subjective norms before pandemics greater than the average value during a pandemic. Then the average value of entrepreneurship intentions before the pandemic was 23 and during the pandemic by 26, the respondent's entrepreneurship intentions during the pandemic were greater than before the pandemic.

# d.) Hypothesis Test

Table 4. Test Results Different Attitude Variables, Subjective Norms, Behavioral Control and Entrepreneurship Intentions

Entrepreneursing intentions							
Test Statistics <sup>a</sup>							
			K				
			Behavi				
	Attitud		or	Intenti			
	es		during	on			
	During	Norms	_	During			
	_	During	K	_			
	Attitud	_	Behavi	Intenti			
	es	Norms	or	on			
	Before	Before	before	Before			
Z	-5.942 <sup>b</sup>	- 4.680 <sup>b</sup>	-7.402°	- 7.760 <sup>b</sup>			
Acymp		1.000		7.700			
Asymp.	000	000	000	000			
Sig. (2-	.000	.000	.000	.000			
tailed)							
a. Wilcoxon Signed Ranks Test							
b. Based on negative ranks.							
c. Based on positive ranks.							

Based on the results of different tests conducted with the Wilcoxon Signed Rank Test, the attitude variable obtained a value of Z of -5,942 with p value (Asymp. Sig 2 tailed) of 0.000 is less than the critical research limit of 0.05 and the Z value calculates < -1.96 so the hypothetical decision is to accept H1 means and reject H0. This means that there is a significant difference between the attitudes of students before and during COVID-19. The subjective norm variable obtained Z by -4,680 with p value (Asymp. Sig 2 tailed) of 0.000 with a critical research limit of 0.05 and a Z grade of < -1.96 so that the hypothetical decision is to accept H1 meaning there is a significant difference between the subjective norms of students before and during COVID-19. Based on the results of research on the theory of behavior and entrepreneurship intentions of students of the Faculty of Economics and Business HAMKA during the Covid-19 period is higher than before Covid-19. Meaning that the entrepreneurship intentions of students during the COVID-19 pandemic are higher than before the pandemic period, it supports the results of Lopes' research, 2021

#### 5. Conclusion

Based on the results of analysis and discussion of research on differences in entrepreneurship intentions of students of the Faculty of Economics and Business UHAMKA before and during the pandemic, it can be concluded that:

- a. There is a significant difference between the attitudes of students before and during COVID-19
- b. There are differences in ENTREPRENEURSHIP.
- c. There is a significant difference between the subjective norms of students before and during COVID-
- d. There is a significant difference between the control of student behavior before and during COVID-19
- e. There is a significant difference between the intentions of student entrepreneurs before and during COVID-19

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