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#### The Status and Challenges of Entrepreneurship Education in Vocational Higher Education Institutions in Indonesia

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#### Abstract

Vocational higher education is one of the types of Indonesian higher education. In practice, entrepreneurship has been considered the most important subject that should be taught in vocational higher institutions. Numerous studies have been conducted by discussing the topic of vocational education and entrepreneurship in Indonesia. However, limited studies have been conducted on implementing entrepreneurship education at the Indonesian vocational higher education level. This study aims to explain the status and challenges of entrepreneurship education in Indonesian vocational higher education institutions. The method used in the study was based on a descriptive qualitative method focusing on a contextual review of the literature. The review is enhanced by collecting data from articles, books, reports, and vocational higher education intuitions' websites. This study found that entrepreneurship education has been implemented in vocational higher education institutions, although some aspects still need improvements. Further, the development of entrepreneurship education in vocational higher education institutions in Indonesia is confronted by internal and external challenges. Lastly, the study's findings have significant implications for researchers, policymakers, and entrepreneurship educators.

**Keywords:** challenges; entrepreneurship education; institutions; status; vocational higher education

#### INTRODUCTION

Education is a basic need for individuals. It is defined as training given to individuals to meet professional criteria in a particular field (Sewell & Newman, 2014). According to Kumar & Ahmad (2008), education is a purposive, continuous, conscious, and unconscious process carried out by individuals to meet individual and society expectations. It is often related to the success of the sustainable economic development of a country. Education also becomes one of the determinant factors in competing with other countrieshuman resources. With the development of competitive human resources, many countries have designed their education system, including Indonesia.

The Indonesian education system has four levels of education. The first level is primary education (grades 1-6). The second and third levels are junior education (grades 7-9) and senior education (grades 10-12). The highest level is higher education. Specifically, Indonesian higher education comprises academic and vocational higher education. Academic higher education aims to understand theory in more detail. This form of higher education includes both self-governing public and private universities. However, vocational higher education focuses more on practices rather than theories in the learning process so that students master particular applied skills to work. In short, vocational higher education prepares young people and adults for working life (Clarke & Winch, 2012). This form of higher education is well known as state and private polytechnics.

The challenge of the education system in Indonesia is how the outcomes of higher and vocational education contribute to economic development. Particularly, graduates of higher education must be job creators rather than job seekers (Hartono, 2021). In the industrial era 4.0, entrepreneurship is a relevant course that can prepare young people and adults to contribute to Indonesian economic development. Much literature has shown а strong relationship between economic development and entrepreneurship.

Regarding this linkage, entrepreneurship courses must be implemented into the curriculum of both academic higher education and vocational education shape to students' entrepreneurial spirit and attitude. As such, they will be motivated to establish their venture in the future, which will help the Indonesian government grow the local economy by providing iob vacancies to graduates of higher education institutions.

In Indonesia, many universities offered entrepreneurship have education programs in their institutions for senior graduates. For universities instance, those are **Business** School, Prasetiya Bina Nusantara University, Surva University, Amikom University, and Ciputra University (Aswan & Usman, 2020), Bandung Institute of Technology, Bengkulu University, State University of Malang, and The Institute of Technology and Business Nobel Makassar (Amalia & von Korflesch, 2021). These universities have the brand image as entrepreneurial universities to attract senior graduates' intention to pursue their higher education. However, none of the Indonesian vocational colleges has offered entrepreneurship education programs. Generally, entrepreneurship education at vocational colleges in Indonesia is given as an entrepreneurship course. This course is embedded within accounting and business administration.

Nevertheless, entrepreneurship education in vocational higher education has not significantly decreased Indonesian unemployment. Based on the data of Central Bureau Statistics, the total of opened unemployment in Indonesia was approximately 8.75 million people in February 2021. In more detail, it was vocational dominated by school and graduates senior school graduates at 11,45 percent and 8.55 percent, respectively, followed by university graduates at 6,97 percent. Meanwhile, vocational and secondary schools appointed out about 6,61 percent and 5,87 percent, respectively, followed by primary school graduates at 3,13 percent. This indicates that entrepreneurship education has not been maximally implemented in vocational schools and colleges to students' entrepreneurial shape mindset. Studies by Ghina et al. (2017), and Walter & Block (2016) entrepreneurship found that vocational education increased students' intention to be entrepreneurs.

Apart from the phenomena above, numerous studies have been conducted in Indonesia discussing education vocational and entrepreneurship. However, empirical research on entrepreneurship education in the context of vocational higher education institutions has been quite limited. Very few studies focused entrepreneurship on education's current circumstances and challenges in Indonesian vocational higher institutions. For instance, the study by Aswan & Usman (2020) focused entrepreneurship on education in Indonesian higher education institutions. However, this did comprehensively study not discuss issues of current states and entrepreneurship challenges of

education vocational higher in education institutions. In addition, a study was carried out by Sunyoto & Setiyawan (2021), who focused on entrepreneurship in vocational schools. Yet, this study did not explain entrepreneurship education in vocational higher institutions. Hence, the purpose of this study is to discuss status and challenges the of entrepreneurship education in Indonesian vocational education institutions.

### METHOD

This research adopts the philosophy of positivism with a deductive approach to operationalize entrepreneurship education in vocational higher education institutions. The research uses a qualitative research method, especially content analysis. Content analysis was conducted to collect secondary data from Indonesian or articles/literature, English books, reports, and vocational college websites. The objective of content analysis is to summarize information and organize it into meaningful components that suit the discussed topic (Bengtsson, The 2016). advantage of content analysis is as it can identify meanings, themes, and biases under a systematic examination and detailed interpretation of general concepts (Matlay et al., 2015). Berg (2004), stated that the elements of content analysis that can be considered, such as terms, semantic, characters, concepts, themes, items, paragraphs. In this and study, education entrepreneurship in vocational higher education

institutions is the theme. Vocational colleges are the unit analysis. The unit of observation consists of elements such as entrepreneurship course, entrepreneurship program, business incubators, entrepreneurship curriculum, apprenticeship activity, entrepreneurship educators, and entrepreneurial culture.

## **RESULT AND DISCUSSION**

The findings are classified into the current situation of entrepreneurship education and challenges of entrepreneurship education vocational higher in education institutions in Indonesia

#### The Currents Situation of Entrepreneurship Education in Vocational Higher Education in Indonesia

Entrepreneurship Educator

Entrepreneurship educators are key actors in the learning process of entrepreneurship education who transfer entrepreneurial knowledge (Langston, 2020). Individuals must possess some criteria to be categorized as ideal and competent entrepreneurship educators. In his book, "Teaching Entrepreneurship at University: from the wrong building to the right philosophy," Hindle (2007) argued that entrepreneurship educators must have an experience as serial entrepreneurs. In addition, they must have a formal education in entrepreneurship, such as graduates either in the level master's or Ph.D. program.

However, the criteria suggested by Hindle (2007) do not fit the requirements of entrepreneurship educators in Indonesian vocational colleges. Most educational backgrounds entrepreneurship of educators in vocational colleges comprise business administration, financial management, and marketing management (Aswan & Usman, 2020). None of the entrepreneurship educators who teach Indonesian entrepreneurship in vocational colleges has studied entrepreneurship with а master's degree at a reputable university. Moreover, entrepreneurship educators teach who vocational entrepreneurship in colleges do not have real business experience. Ironically, the recruitment of entrepreneurship educators was never conducted by vocational colleges because this is not fit with the departments need for two in colleges, vocational namely the department business of administration and accounting.

# Entrepreneurship Curriculum

Vocational curricula are generally designed by involving stakeholders. Thus, entrepreneurship curriculum in vocational higher education institutions be must specifically designed based on the inputs of entrepreneurs. It must differ from the business curriculum. To date, vocational colleges in Indonesia have adopted an entrepreneurship curriculum based on "Through" Entrepreneurship. Teaching "Through" entrepreneurship is the learning process by acting as a real entrepreneur (Kyro, 2008). Moreover, current entrepreneurship course in Indonesian vocational colleges has discussed the characteristics of real

entrepreneurs, business opportunity identification, business plan, marketing, finance, and human resource. However, these contents contrast with those suggested by Blass (2018), who stated that the ideal contents of entrepreneurship courses comprise emotional intelligence, risk insights, survival strategies, competitive strategies, and resilience. Similarly, Noya & Setivati (2015) argued that effective content of entrepreneurship courses must include idea identification, business function, legal plan, business plan, and business growth.

Apart from some suggested entrepreneurship courses from previous paragraphs, there is а suggestion that the entrepreneurship curriculum must be relevant to entrepreneurial learning in the industrial 4.0 era. Hidavat & Yunus (2019),stated that an entrepreneurship curriculum must be designed by embedding data literacy, technology literacy, and human literacy components in academic and vocational higher education.

Entrepreneurship as a Compulsory Subject

Entrepreneurship is а compulsory course with two or three credits (Triharyanto et al., 2019). It must be taught to vocational students Indonesia. This means that in vocational students must pass this subject as a requirement to obtain a degree in vocational education. After evaluating the social sciences curriculum on the Polytechnic's websites, entrepreneurship subject is

given in the third or the fourth semester for a 3-year diploma or 4year diploma program.

### Entrepreneurship Program

The entrepreneurship program is a department that focuses on entrepreneurship courses. None of the state or private Polytechnics offers an program. entrepreneurship This condition is confirmed as the author did not find the department of entrepreneurship on 43 states and 156 **Polytechnics** private websites. According to Aswan & Usman (2020), the majority of the program of entrepreneurship education in Indonesia is only offered by private and state universities. This data can be accessed on the website of PDDIKTI by typing entrepreneurship in Bahasa, namely https://pddikti.kemdikbud.go.id/sea rch/Kewirausahaan. Additionally, most vocational higher education generally institutions offer management and business study, accounting, and business administration to senior graduates.

Entrepreneurship Competition Program for Students of Vocational Colleges

The Ministry of Education and Culture of the Republic of Indonesia always holds an entrepreneurship competition program for students of higher education institutions every year. This program is part of the student entrepreneurship program. In 2021, the Ministry of Education of Culture divided this program into two groups. The first group is targeted at students of academic higher education institutions, while the second is for students of higher vocational education institutions. By dividing two groups of competition, students of vocational colleges can fairly compete in the entrepreneurship competition program. According to Wikan Sakarinto, the General Director of Vocational Education and Profession for 2020-2024, the objective of the entrepreneurship competition program is to encourage students to establish their businesses and help them to grow their businesses by providing mentorship program as well as facilitating them to acquire funding and legal document. In participating in the program of entrepreneurship completion, students of vocational colleges must write a business proposal based on a particular template. After the students send their business proposals, eligible business proposals will be published by the Directorate of Vocational Education and Profession. In turn, the business proposal will be fully funded.

### Apprenticeship Implementation

In vocational colleges, students must conduct an apprenticeship program to obtain work experience. One of the apprenticeship programs that students can conduct is an entrepreneurship-based apprenticeship (Mulyadi et al., 2018). Unlike usual apprenticeships in medium and large industries, the place of entrepreneurship-based apprenticeship is in small industries. The advantage having of an apprenticeship in small industries is students that can learn entrepreneurship from the entrepreneur in the early stage of business. During the period of entrepreneurship-based apprenticeship, students are expected acquire knowledge to or competencies, skills in the technical aspect of business and management, communication skills. and The duration of 3 months is a standard time for conduct students to entrepreneurship-based apprenticeships. Since the Merdeka Belajar policy, known as the freedom to learn, was formulated by the Ministry of Education and Culture of the Republic of Indonesia, the new duration of the entrepreneurshipbased apprenticeship is 6 months. At end of the apprenticeship the program, the vocational students will be given a certificate that can be used to enroll in a job. This certificate equals 20 credits.

#### **Business Incubator**

Fukugawa (2013) defined а business incubator as an organization that provides facilities and business development, such as technology and management, for budding entrepreneurs within specific а period. It was first initiated and established bv the cooperation ministry and universities in 1992. Based on the official data released by the ministry of education, culture, research, and technology, there are 9 business incubators owned bv vocational colleges in Indonesia as stated by Aswan and Usman (2021) which can be seen in Table 1. Table 1 shows that the majority of Polytechnic, which has a business incubator, takes place on Java Island. Other polytechnics with business

incubators take place on Sumatra Island, Kalimantan Island, and Sulawesi Island.

Table 1. List of business incubatorsownedbyvocationalcolleges in Indenseis

| colleges in Indonesia |                           |
|-----------------------|---------------------------|
| Polytechnic           | Incubator Name            |
| Surabaya              | PENS SKY Venture          |
| Electronic            |                           |
| Polytechnic           |                           |
| State Polytechnic     | The Technology Business   |
| of Pontianak          | Incubator of State        |
|                       | Polytechnic of Pontianak  |
| Polytechnic of        | The Industry Technology   |
| ATI Makassar          | of Business Incubator     |
| State Polytechnic     | Incubie Tech              |
| of Bengkalis          |                           |
| State Polytechnic     | The Business Incubator of |
| of Kupang             | Polytechnic of Kupang     |
| Polytechnic of        | Inbizz                    |
| APP Jakarta           |                           |
| State of              | The Center of             |
| Polytechnic of        | Entrepreneurship and      |
| Jember                | Business Incubator        |
| State of              | The Business Incubator of |
| Polytechnic of        | State of Polytechnic of   |
| Bandung               | Bandung                   |
| Manufacture           | The Incubator Business of |
| Polytechnic of        | Polytechnic of Bandung    |
| Bandung               |                           |

Source: Aswan and Usman (2021)

#### The Challenges of Entrepreneurship Education in Vocational Higher Education in Indonesia

According to the Dictionary of Meriam-Webster, challenges are as "stimulating task or problem". In this challenge refers to research, the problem the that causes late development entrepreneurship of education vocational in higher education. Internal external and challenges identified are by Indonesian vocational higher education institutions.

Internal Challenges

Internal challenges are obstacles found in the internal environment of vocational higher education institutions against the progress of entrepreneurship learning. Several factors are categorized as internal challenges, as explained as follows.

### Inadequate Modern Facilities

Ideally, vocational higher institutions have modern must facilities to face the Industrial era 4.0. However, this expectation is not suitable for the actual condition in Indonesian vocational higher institutions. Many of them might not entrepreneurship have modern laboratories or workshop spaces to support the entrepreneurial learning process. Even some vocational higher education institutions do not have business incubators. Such conditions hinder the entrepreneurial can atmosphere experience for students entrepreneurship and educators. Prianto et al. (2019), argued that vocational higher institutions must own modern facilities to reach the learning goal.

### Inadequate Modern Equipment

Modern equipment is highly needed to support entrepreneurial teaching and learning in vocational higher education. However, many vocational higher education institutions have obsolete equipment that supports entrepreneurial teaching and learning. Also, some do not have modern equipment to support entrepreneurial activity in the classroom. As a result, students are only taught theoretical aspects of entrepreneurship.

Lack of Training for Entrepreneurship Educators

In vocational education, training for educators is a primary need. One of the educators who must acquire training continuous is entrepreneurship educators. is It because the training for entrepreneurship educators cannot be conducted in a short period (Ha & Yeo, 2016). To date, there is no specific entrepreneurship educators' training facilitated by the General Directorate of Vocational Education, specifically regarding how to teach entrepreneurship to students of vocational higher education in Indonesia. The only basic training that entrepreneurship educators joined was the training of basic instructional technique or applied approach, known as PEKERTI or AA training in Bahasa. Even training information about certification in entrepreneurship has never been exposed by the General Directorate of Vocational Education. Therefore, this factor might be one of the reasons why entrepreneurship education is not well implemented in vocational higher education.

### Students' Mindset

Graduates of vocational education have different occupation aspirations after finishing their studies. Most of them will say that they want to work as staff in a reputable company, while others say they want to be civil servants in government institutions (Syam & Sudarmi, 2019). As such, vocational graduates' occupation mindset still focuses on job seekers. Meanwhile, few graduates want to be job creators. Such a situation contradicts the argument of Blesia et al. (2021), who stated entrepreneurship that education could change vocational students' mindset from job seekers to job creators. Low job creation graduates will be a big challenge for the Ministry of Education and Culture change vocational graduates' to mindsets.

### External Challenges

External challenges are obstacles found in the external environment of higher vocational education institutions against the progress of entrepreneurship development. It is usually hard to be controlled by vocational higher education institutions regarding the entrepreneurship development of education. Two external challenges are identified as external challenges as explained as follows.

Inadequate Financial Aid from The Government

Every the General vear Directorate of Vocational Education gives competitive financial aid to vocational colleges. This financial aid is known as a matching fund. The amount of this fund is limited for several institutions eligible to earn this fund through a competition scheme. The fund does not aim to improve the entrepreneurship atmosphere in vocational colleges, but is strengthen it used to the collaboration between vocational higher institutions and industries. Therefore, the absence of

entrepreneurial financial aid in vocational higher institutions highly hinders entrepreneurship education best practices.

### Entrepreneurship Culture

Indonesia is an archipelago country that has many islands. That means that it has lots of cultures. As such, entrepreneurship culture for individuals will differ from each other. Aswan & Usman (2020) argued that the degree to which individuals have entrepreneurial behaviors, such as risk-taking, independence, and thoughts, will innovative be determined by their cultural values. This condition might happen to students of vocational colleges. In particular, their culture will influence whether vocational students want to establish their businesses. If they come from tribes holding strong entrepreneurial mindsets, individuals will be motivated to be job creators after being vocational graduates.

### CONCLUSION

In conclusion, to date, the implementation of entrepreneurship education in vocational higher education institutions in Indonesia has been conducted, although some aspects of entrepreneurship education need to be improved. Inevitably, the development of current in entrepreneurship education higher vocational education institutions in Indonesia has internal and external challenges. This study has implications for all kinds of practitioners. It inform can researchers regarding the general overview of the existing condition of entrepreneurship education and its higher challenges in vocational institutions. education Also, the findings of the research can be considered by the policy makers at all levels to further improve the policies of entrepreneurship education vocational higher education institutions. Finally, entrepreneurship educators can teach their students with the knowledge provided in this study.

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