Effectiveness of Entrepreneur Education for Entrepreneurial Intention through Creativity and Entrepreneurial Self Efficacy

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ABSTRACT
Entrepreneurship course is one of the compulsory subjects at Universitas Andalas. However, its effectiveness has not been measured to foster entrepreneurial intention, especially for psychology students. The purpose of this classroom action research is to find out whether entrepreneurial intention can be assessed from differences in creativity and entrepreneurial self-efficacy in students during the period of taking entrepreneurship courses. This study used a one-group pre-test-post-test design. Lectures are given using case discussions and analysing entrepreneurs to be innovated by students as project learning. It was found that there were differences in the Mean value of entrepreneurial self-efficacy and impact of creativity toward entrepreneurship intention after eighth lesson or mid semester, after implementation case based method and project based learning. Thus, the methods can increase student entrepreneurial self-efficacy.

Keywords: Entrepreneurial Self-Efficacy, Creativity, Entrepreneurial Intention, Action Research, Entrepreneurship Course

1. INTRODUCTION
Efforts to increase students intention in entrepreneurship have been carried out by universities through entrepreneurship education. The existence of support from the university environment can encourage positive student attitudes to entrepreneurship [1] and increase career choices to become entrepreneurs [2]. One form of entrepreneurship education that has been carried out by Universitas Andalas is through entrepreneurship course.

In entrepreneurship course, educational assessment perspective and typical set learning outcomes within accreditation and total quality management (TQM) framework have integrated with entrepreneurship cognition theories, social cognitive theory, and goal-setting theory. Using entrepreneurial self-efficacy assessment, it means not only measuring students’ demonstrated past performance but also understanding how students’ receive this feedback to alter their self-efficacy beliefs which have a powerful influence on future effort, motivation, and performance [3]. By giving a survey to students at the beginning of the semester, lecturers can identify specific subdomains in which students have the lowest self-efficacy. This will allow lecturers to focus on a specific set of learning outcomes, thereby enabling lecturers to adjust their lesson to each different class, based on the results of the preliminary study [4].

The pedagogical approach to entrepreneurship education supports entrepreneurial learning through experiential activities that simulate the environment that entrepreneurs face [5]. Universitas Andalas has adopted a learning model called project-based learning since 2020, by designing objective-based education (OBE) in the semester learning plan and assessment. However, using direct measures has its own problems given it does not specify what assessment should be used; faculty members may be pressured to improve the scores obtained from direct measures. Researchers and educators need to better understand the relationship between assignments and pedagogy on the one hand and students' beliefs about themselves on the other [4].

Project Based Learning (PjBL) is a learning model that uses projects/activities as a learning process to
achieve attitude, knowledge, and skill competencies. The use of the PjBL model is very appropriate, because it makes students take an active role in learning and succeed in solving complex problems. Learning is more emphasized on the activities of students to produce products by applying their skills to research, analyse, create, and present their learning products based on experience in the real world [6]. The results of the study show that the application of the PjBL model can increase the activeness and learning outcomes of students’ creative and entrepreneurial products [7], as well as increase interest and learning achievement in entrepreneurship likes creativity and entrepreneurial intention [8].

The role of creativity as an antecedent to entrepreneurship intention, but teaching approaches of entrepreneurship education courses and programs, with an emphasis on identifying pedagogical methods are important [9]. So, education that begins with a case-based method (CBM) is an exploration of the impact of different programs on entrepreneurship and innovation in both the short and long term [10].

**Hypothesis 1.** There is an impact of creativity on entrepreneurial intention after the application of the CBM and PjBL methods which are applied as an outcome based assessment (OBA) in entrepreneurship courses. That means, entrepreneurship education is effective for increasing entrepreneurial intention in students through creativity.

Self-efficacy provides a valid construct that can be used to evaluate the impact of entrepreneurship education [11]. This is because self-efficacy affects motivation and ability to engage in certain activities and is a strong condition, required for creative productivity, and in discovering new knowledge [12]. Creative activities in entrepreneurship for innovation are a student project that focuses primarily on identifying the impact of different types of learning activities on participants’ innovation potential. Students will find it difficult to start a business if they do not socialize with their community, especially in the business environment [13].

The tool focuses on entrepreneurial self-efficacy (ESE) in particular and thus measuring creativity and innovation with the context of entrepreneurship [11]. Within the context of entrepreneurial education, ESE is strongly correlated to new venture creation. The entrepreneurship educational support does not impact the entrepreneurial intentions directly, but has an indirect positive effect mediated by ESE [14].

**Hypothesis 2.** There is a Mean difference on ESE after taking entrepreneurship courses. This means that ESE is higher after students take entrepreneurship courses with CBM and PjBL method.

### 1.1 Entrepreneurial Intention

Entrepreneurial intention defines as individual beliefs in starting entrepreneurship. The entrepreneurial intention consists of three antecedents, namely attitude toward start-up (personal attitude), subjective norm, and perceived behavioural control [15]. Intention itself according to Ajzen (2005) is a belief about doing something behavior. Based on the factors that influence entrepreneurial intentions, creativity is one of the most important characteristics for entrepreneurs [16].

### 1.2. Creativity

Getting a business idea is a major challenge for someone who will start an entrepreneur, so it takes creativity to see opportunities and turn them into business idea [17]. In other words, creativity is related to the strategy of looking for opportunities to generate business ideas [18]. According to Amabile (1983), the definition of creativity is the ability to generate new and useful ideas. The main components of creativity are domain-relevant skills, creativity-relevant skills, and task motivation. Creativity for students concerns the thought processes involved in the creation of new ideas or products [19] that are needed in an entrepreneur.

### 1.3. Entrepreneurial Self Efficacy

Bandura defines self-efficacy as an individual's belief in his ability to exercise some form of control over motivation, cognition, affection in the person's own social environment and is the belief that he is able to carry out tasks, achieve goals and overcome obstacles. This self-efficacy measurement can determine the achievement of learning objectives [3]. The initial theory was on social cognitive, explaining that students who have completed entrepreneurship courses/education have more confidence that they will succeed in that career field [4]. Self-efficacy can improve career decision making over time, also by providing career course interventions [20].

Entrepreneurial self-efficacy (ESE) is the development of adaptation of self-confidence and skills such as technological readiness, at the time of awareness of academic success and entrepreneurial careers [21]. Self-efficacy plays an important role in individual career decision making. Taylor and Betz published an article on the application of self-efficacy in career psychology [22]. The concept of ESE is not about the content or style of individual decision-making but refers to the individual's confidence in his ability to make career
decisions in the field of entrepreneurship appropriately. These ESE measurement [3], [23] in relation to entrepreneurial activity in a more mainstream organizational context (outside of new venture settings), and in the context of entrepreneurial career management (i.e., whether one feels confident managing their careers in an uncertain and risky environment).

2. METHOD

This action research with pre-test and post-test design was delivered online questionnaire consists of EI scale, Creativity scale, and ESE scale. The three of scales was constructed refer to past studies [11], [12], [15]. This study was divided into a preliminary study as confirmatory test for constructs validation and the second study as a follow-up hypothesis test.

3. RESULT AND DISCUSSION

Our respondents are students of entrepreneurship course at psychology department in Universitas Andalas which consist of three classroom amount of 95 students, with 85% female and 15% male. Using the approach of structural equation modeling adopting PLS-SEM software, as represented by Figure 1, we test the measurement model with its original factors.

Figure 1 Path Diagram Measurement

The convergent validity was performed to confirm the dimensionality of the measurement model as represented by Table 1. Those statistics will help test how good the measurement model fits to collected data.
Table 1 Confirmatory Factor Analyzes

<table>
<thead>
<tr>
<th>Path</th>
<th>Std.Beta</th>
<th>Std. Error</th>
<th>t- value</th>
<th>p- value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creativity → EI</td>
<td>0.247</td>
<td>0.064</td>
<td>9.840</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

Table 2 SEM

Note: P< 0.005 (1 tailed) ; t > 1.645

\[ R^2 = 0.488 \rightarrow 48.8 \% \text{ of variance in EI determine by exogenous variables like Creativity}. \]

\[ F^2 \text{ value of 0.953 means high categorization of that impact.} \]

Author's Contributions

Author as lecturer did action research in entrepreneurship course at Universitas Andalas since three years. The experiences of author in research and community service has produced a lot of publication about SME Enterprise and web application in entrepreneurial career planning for students.

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