Entrepreneurship Interest Measurement Model For Degree Candidates As Evaluation Basis For Entrepreneurship-Oriented Learning System

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**Abstract:** This study aims at finding out degree candidates’ level of interest in entrepreneurship, what major factors lead to the emersion of such interest, and which entrepreneurship model contributes the most in the emersion of such interest. Entrepreneurship interest variable factors is measured from preferential, intrinsic and extrinsic factors on the emersion of Interest in Entrepreneurship. This study uses the survey and questioner method, with factor and descriptive analysis technique as basis for model design. This study analyses and identifies dominant factors influencing the building of interest in entrepreneurship of degree candidates. Data of 143 students acquiring the course in entrepreneurship were processed using SEM software. The results of the study shows that the level of interest of degree candidates is very high (87.4%) with intrinsic as the major and dominant factor and extrinsic factor having significant influence toward the emersion of interest in entrepreneurship for degree candidates. The entrepreneurship model with the largest contribution for the emersion of interest is the intrinsic factor.

**Keywords:** Learning System, Entrepreneurship, Degree Candidates

1. Introduction

As a system, education cannot be separated from the larger extend outside education itself. Education has a functional link with other sectors in life outside the education system. Realizing that education possesses intrinsic function, education system cannot be separated from the current and future challenges including education within the university. Based on the aforementioned, challenges faced by universities are not solely internal factors but also from outside the education system. Thus external challenges are the major aspirations in undergoing internal changes or reforms, including reforms in the content of curriculum offered.

The discussion on job opportunities for degree graduates cannot be separated from the situation of existing economic and manpower issues. The extent of layoffs and unemployment is a serious challenge for degree candidates. Furthermore, data on manpower issues in Indonesia again bring out a significant problem, the large number of edifed unemployment. (Republika.co.id, 2012).

The government’s effort to employ civil servants is certainly not sufficient. Providing job opportunities for university graduates is not a simple task. On the other hand, the level of interest in entrepreneurship in part of university graduates is very low. In general, they are prepared to be job seekers instead of job creators. Based on the data from Directorate General Youth and Non-Formal Education of the National Education Department, from 75.3 million Indonesian youth, only 6.6% are graduates. From the latter number 82% work in government or private offices, while only 18% are self-employed or working as entrepreneurs, whereas the greater the number of graduates working as entrepreneurs the faster the economic recovery.

Entrepreneurship governs the economic progress of a nation. Singapore, for instance, became a developed country through entrepreneurship principles. Their government urges university graduates to become creative entrepreneurs and build formidable small medium scale businesses. This has led to the establishment of a world-class IT industry initially initiated by young entrepreneurs. The same token was also applied by the United States, Taiwan, South Korea, countries sensitive to the establishment of entrepreneurs (Longenecker, 2000).

Zimmerer, 2002 under Suharti (2011:125), the growth factor of entrepreneurship in a country depends on the role of universities through the application of curriculum content on entrepreneurship. The role of universities in this endeavor is to educate and develop entrepreneurship capabilities to degree candidates and the encouragement to the students to path entrepreneurship as their career. Universities prepare students not only to be interested, but also to become capable and quality young entrepreneurs eager to compete so that there would be more graduates able to restrain the rate of unemployment and to augment job opportunities. Yohnson, 2003, Wu & Wu, 2008 said that universities need to apply concrete entrepreneurship learning pattern based on empirical feedbacks to equip degree graduates with sufficient knowledge to drive their courage to be self-employed. The question now is whether universities can give birth to or generate young entrepreneurs. Observing the students’ entrepreneurship career selection can give an initial picture of degree candidates’
interest toward becoming young entrepreneurs. They are interested because they are capable. This is expected to be the basis of evaluation in the role of preparing and motivating universities on entrepreneurship discipline toward their students in the future in respect to the government’s program, DEPDIKNAS (National Education Department) in this matter. It is with the above reasons that the Measurement of Entrepreneurship Interest for Degree Candidates as Basis for Evaluation in Entrepreneurship-Oriented Learning study is conducted, considering that the impact of this study can be used to evaluate the role of lecturers/universities to prepare and motivate the option for entrepreneurship career, to create quality, independent individuals, capable of adapting to existing opportunities, mitigate edified unemployment and declining trust toward education, and to escalate economic growth to a more promising direction.

The purpose of the study: (1). to identify the extent of interest level of degree candidates in Malang City to be entrepreneurs, (2). to identify the main factors leading to the emersion of such interest in entrepreneurship, (3). to identify the most contributing entrepreneurship model for the building of interest in entrepreneurship.

II. Critical Review

1. Entrepreneurship Concepts

Entrepreneurship originates from entrepreneur (France), or wiraswasta/wirausaha (Indonesia). In terminological terms, it means between takers or go between. Etimologically, the understanding of entrepreneur develops over time. Entrepreneurship can also be identified as the ability to see and assess business opportunities, collect resources required to profit and to take appropriate actions to ensure success (Meredith, 2000). According to Hasun (2004), entrepreneurship is a creative course of action adding value to something that is non-existence. While Kao (2005) mentioned entrepreneurship as a process of creating something new and make something distinguished from what is already in existence (innovation), in order to accomplish individual welfare and add value to the community. Entrepreneurship is also identified as somebody capable of turning ideas into reality (Hirsch, 1992). In general it is said that entrepreneurs have the potential to achieve something. They have great motivation to progress and achieve something, capable of helping themselves and overcome problems in life no matter the condition. Quality entrepreneurs must have the strength as their asset, and to earn such they have to study in order to become quality human resources.

2. Factors Influencing Interest in Entrepreneurship

According to Suryana (2000) entrepreneurship is the capability to take the liberty in meeting and solving life necessities and problems, advancing or creating new business using own resources or strength. Entrepreneurship is a physical sympthmom to focus and commit oneself to entrepreneurship contentedly as it brings benefit for him or her. Interest is closely associated with consideration, and as such, the factors involved are disposition, mood or feeling, environment, stimulus and will (Suryana, 2000). According to Owen (2004) environmental factors influencing interest include family, school and the community. From the two assessments above it can be concluded in general that factors influencing interest can be categorized into intrinsic and extrinsic factors. (Suharti dan Hani, 2011) concluded in their study that parent’s work/job, socio-demographic factor as entrepreneurs bear significant influence toward the student’s intention/motive in entrepreneurship, while gender and study program do not. On the other hand, behavioral factors, namely authority, economic challenge, self realization, security and workload, along with academic and social support contextual factors have evidently been positively and significantly proven as influential toward the students’ interest in entrepreneurship. Meanwhile, Lestari and Trisnadi’s (2012) study concluded that education in entrepreneurship bears significant influence toward students’ interest in entrepreneurship. Education in entrepreneurship is executed through learning process to change the students’ behavior and thinking pattern in selecting entrepreneurship as their career.

III. Methods

1. Population and Sample

The population in this study were students already passing entrepreneurship course at the S1 level. Samples in this study were designated using guidelines provided by Arikanto. In view of the number of population that could reach thousands of graduates, samples were taken 10-15% or 143 respondents, using the proportional random sampling method.

2. Study Variables, Operational Definitions of Variable and Measurement

This study uses two variables namely interest in entrepreneurship and entrepreneurship-oriented learning system. Interest in entrepreneurship is defined as the interest, consideration and readiness of degree candidates to become entrepreneurs. Meanwhile, indicators and items of variables are as shown on Table 1. For X1
measurement uses Graphic Rating Scales, while X2 uses Likert modified scale with 4 scales: Strongly Agree, Agree, Disagree, Strongly Disagree.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Indicator</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Y) Interest in Entrepreneurship Owen (2004)</td>
<td>Preference of interest toward entrepreneurship</td>
<td>Level of interest in entrepreneurship</td>
</tr>
<tr>
<td>Intrinsic factors leading to interest in entrepreneurship</td>
<td>Entitlement</td>
<td>Self esteem</td>
</tr>
<tr>
<td></td>
<td>Talent in subject</td>
<td>Income potential</td>
</tr>
<tr>
<td>Extrinsic factors leading to interest in entrepreneurship</td>
<td>Parents' influence</td>
<td>Social Status</td>
</tr>
<tr>
<td></td>
<td>Availability of job opportunity</td>
<td>Availability of local opportunity</td>
</tr>
<tr>
<td></td>
<td>Influence of entrepreneurship lecturer</td>
<td>Influence of entrepreneurship activity programmed by universities</td>
</tr>
<tr>
<td></td>
<td>Peer influence</td>
<td></td>
</tr>
</tbody>
</table>

Meanwhile, variables for entrepreneurship-oriented learning system is defined as lecturing activities, apprenticeship, work/field practice, mentoring or training in programmed entrepreneurship activities which course had been attended by degree candidates.

3. Data Analaysis Technique

To assess and describe the interest in entrepreneurship of degree candidates in Malang, this study uses the descriptive analysis and structural equation modeling (SEM) data analysis technique.

IV. Results

Data Normality Evaluation

The data normality results proved that respective critical ratio skewness and critical ratio multivariate values are still within the -2.58 and 2.58 range meaning that there is no problem in terms of data normality meaning that observed data is normally distributed.

Evaluation on Outlier

Study results show that there is not a single Mahalanobis distance squared value of the respective observation data exceeding the Chie square table (40.79) value. As such, observation data collected is freed from outlier issues.

Multicollinearity Evaluation

The results of correlation matrix output from scalable/measured variables shows that there is not one single value exceeding 0.9. Such results show that there is no multicollinearity issues.

Equation Model Feasibility Test

The overall model feasibility test uses Structural Equation Modelling (SEM) analysis, which simultaneously is used to analyse the hypothesis proposed. Based on the AMOS 18 statistic computerized calculation program, the overall model suit is as presented on the illustration below:
Entrepreneurship Interest Measurement Model For Degree Candidates As Evaluation Basis...

Illustration 1
Structural Equation Model (SEM) Analysis Results

Remarks:
X₁ : Preference of interest toward entrepreneurship
X₂ : Intrinsic factors leading to interest toward entrepreneurship
X₃ : Extrinsic factor leading to interest toward entrepreneurship
Y : Interest toward entrepreneurship

The following table is the summary of the results of structural equation modelling analysis:

<table>
<thead>
<tr>
<th>Goodness of fit indices</th>
<th>Cut-off value</th>
<th>Result</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chi-square (df=113)</td>
<td>124.34</td>
<td>105.042</td>
<td>Good</td>
</tr>
<tr>
<td>Probability Chi-Square</td>
<td>≥ 0.05</td>
<td>0.691</td>
<td>Good</td>
</tr>
<tr>
<td>CMIN/DF</td>
<td>≤ 2.00</td>
<td>0.930</td>
<td>Good</td>
</tr>
<tr>
<td>RMSEA</td>
<td>≤ 0.08</td>
<td>0.000</td>
<td>Good</td>
</tr>
<tr>
<td>GFI</td>
<td>≥ 0.90</td>
<td>0.921</td>
<td>Good</td>
</tr>
<tr>
<td>AGFI</td>
<td>≥ 0.90</td>
<td>0.903</td>
<td>Good</td>
</tr>
<tr>
<td>TLI</td>
<td>≥ 0.95</td>
<td>1.006</td>
<td>Good</td>
</tr>
<tr>
<td>CFI</td>
<td>≥ 0.95</td>
<td>1.000</td>
<td>Good</td>
</tr>
</tbody>
</table>

Source: processed primary data, 2016.

The analysis of processed data shows that all construct/hypotheses used to establish the study in the SEM full model analysis meet the designated goodness of fit criteria. The goodness of fit indicator showing fit condition is bring about by the 105.042 chi-square number which suffices the probability value of 0.691 or above 0.05. The said value/number shows that there is no difference between the estimated sample covarian matrix and population covarian matrix. Other goodness fit indicators also show good condition. Therefore, the study model can be used as study analysis tool.
Influence of Preference, Intrinsic and Extrinsic Factors against Interest toward Entrepreneurship

Results of SEM analysis as outlined on the table below:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Standardized Regression Weight</th>
<th>Estimate</th>
<th>S.E.</th>
<th>C.R.</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>X1 → Y</td>
<td>0.129</td>
<td>0.167</td>
<td>0.200</td>
<td>0.838</td>
<td>0.402</td>
</tr>
<tr>
<td>X2 → Y</td>
<td>0.513</td>
<td>0.570</td>
<td>0.204</td>
<td>2.801</td>
<td>0.005</td>
</tr>
<tr>
<td>X3 → Y</td>
<td>0.452</td>
<td>0.477</td>
<td>0.217</td>
<td>2.195</td>
<td>0.028</td>
</tr>
</tbody>
</table>

Source: Processed primary data, 2016.

Test results indicate that interest preference toward entrepreneurship (X1) does not influence the emersion of interest toward entrepreneurship with a probability of 0.402 (higher than 0.05). The direction and extent of standardized direct effect coefficient is 0.129 and to test its significance the value p > 0.05 is applied. Intrinsic factor leading to entrepreneurship interest has a significant influence against entrepreneurship interest with a probability value of 0.005 (less than 0.05). The direction and extent of standardized direct effect coefficient is 0.005 (less than (0.05) and to test its significance the value of p < 0.05 is applied. Extrinsic factor leading to interest in entrepreneurship influences entrepreneurship interest significantly with a probability of 0.028 (less than 0.05). The direction and extent of standardized direct effect coefficient is 0.452 and to test its significance the value of p < 0.05 is applied.

V. Discussion

Results of analysis show that preference does not influence interest toward entrepreneurship. This indicates that high interest preference without managerial capabilities, insufficient experience in operations and production, weakness in financial control, inadequate location, reluctance in business, incapabilities in entrepreneurship transitions serve as the culprits of entrepreneurship failures.

Intrinsic factor influences interest toward entrepreneurship. This is underlined by the responses inclining to agree with income and self esteem potential indicators. However, contentment and talent toward subject are factors mostly perceived by respondents. One who believes in capability and business concepts can accomplish what has been initiated. One of the entrepreneurs success factor is imagination and supplementary plans. They have the ability to see opportunities others can’t. Entrepreneurs must know what consumers demand, even before they realize that they want them, and as soon as possible. Although many believe that entrepreneurs are motivated by income, there are other more important factors, such as the need to accomplish maximum achievement as shown above. The desire to be independent is more important compared to the motivation for income itself. In the outset, entrepreneurs initiate their businesses because they do not want to work for someone else (boss). Their rationales are: 1) to use their own skills and capabilities, 2) control upon their own lives, 3) the desire to endow something to the family, 4) the will to face challenges, 4) to have the freedom to live their own lives.

As phrased by Kuncara (2008:1) that entrepreneurship is driven by internal factors, namely personal prowess on how to manage oneself. Personal prowess consists of 5 important elements: 1) self consciousness. This refers to the capability to know and control own emotions and effects, own strengths and limitations, and conviction on self esteem or confidence. (2) self control. This refers to the control of detrimental emotions and compulsions, maintaining honesty and integrity norms, accountability of own performance, flexibility in facing changes, and receptive or openness for suggestions. (3) motivation. This relates to the drive to succeed or to become better, commitment, initiative to use opportunities, and optimism in facing obstacles and failures.

Extrinsic factor influences interest toward entrepreneurship. This is underlined by responses tending to agree with indicators of parents’ influence, social status, availability of local opportunities, peer influence and entrepreneurship activities programmed by universities. However, indicator on the availability of job opportunity is the one most perceived by respondents. Therefore, to become an entrepreneur requires the support of others related to the business being managed. An entrepreneur must be able to weather existing challenges and risks. Risk is used as trigger to progress, as through risks, an entrepreneur will make progress. According to Murphy and Peek which book was translated by Bukhari Alam, there are eight steps that cover the success of an entrepreneur in developing its business, namely: a) hard work, a requisite for an entrepreneur to succeed. Every successful entrepreneur works really hard in his or her business, b) cooperation with others. This can be accomplished in social environment as the first step in developing business. An entrepreneur must be generous, sociable, cordial and well-liked by the community and avoid actions that may disadvantage others, c) good appearance, emphasized well-dressed by the community, d) confidence, an entrepreneur must have self confidence, confidence to progress based on perseverance and patience. e) decisive, an entrepreneur must be able to make decision. When faced with complicated alternatives, use sound judgement, not hesitant in making
good decision based on confidence. f). willingness to learn. By generating knowledge, especially in business, an entrepreneur is expected to be able to support his or her capability and progress in business. g). ambition to progress. Without strong ambition, an entrepreneur cannot achieve success. Strong ambition must be balanced with hard work and good self discipline, h). good communication skill. An entrepreneur must be able to attract others through good words, politeness, and self confidence. This will impress others and bring trust to what is being said.

Successful entrepreneurs are also successful leaders. Referred to as leaders, because they have to find opportunities, through projects, gathering resources (materials, technology, human and capital) required to execute projects, designate goals, either for themselves or for others, lead and guide others to achieve goals. Effective leaders will always find better ways or methods. Effective leaders believe in sustainable growth, increasing efficiency and continuous success from his or her business.

According to Kuncara (2008:1), external factor is the driver of entrepreneurship. External factor is a social skill on how to manage relationships. Social skill consists of two important elements, namely: 1) empathy. This relates to the ability to understand others, others’ perspectives, and concern toward others’ interests. It is also the ability to anticipate, identify, and the effort to meet consumers’ demand. Overcoming diversity in building social relations, developing others, and the ability to read emotional flows of a group and its association with power/regime involved therein. (2) Social skills. Included herein are tactics to convince others (persuasion), communicating clearly and convincingly, generating inspiration and guide groups, initiating and managing changes, negotiating and solving disagreements, cooperating for common goals, and creating group synergy in striving for common goals.

The finding of this study is that interest in entrepreneurship for degree candidates is influenced by intrinsic and extrinsic factors as presented on Illustration 2.

Illustration 2 indicates that intrinsic factor is more dominant as compared to extrinsic factor. Intrinsic factor is build from contentment, talent toward subject, self esteem and potential. Intrinsic factor with the highest influence toward interest in entrepreneurship is talent toward subject. While extrinsic factor is build from influence of parents, social status, and availability of job opportunity, availability of local opportunity, entrepreneurship activities programmed by university and peer influence. Extrinsic factor with the highest influence is entrepreneurship activities programmed by university.
VI. Conclusion

Result of analysis shows that the level of interest of degree candidates in Malang to become entrepreneurs and preference of interest toward entrepreneurship are not influential toward the interest in entrepreneurship. Intrinsic factor trigerring the interest toward entrepreneurship has significant influence against the interest in entrepreneurship. Extrisnic factor triggering the interest toward entrepreneurship has significant influence toward the interest in entrepreneurship. This suggests that the factor influencing the interest of students toward entrepreneurship – internal factor- starts from contentment, talent toward subject, self esteem and income potential, while external factor starts from parents’ influence, social status, availability of job opportunities, influence of lecturers in enterpreneurship course, entrepreneurship activities programmed by the university, and peer influence.

VII. Suggestions

To conduct not yearly but three times yearly routine activities in equipping students attending entrepreneurship classes with entrepreneurship activities for the students to have deeper insights on the business world and to be able to share their experience with their seniors as mentors/presenters in their entrepreneurship activities program. Collaboration with successful external business players to create a sharing and mentoring forum for students attending entrepreneurship program to enhance their interest and to share their experiences in doing business.

References