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## **Teaching and Learning Innovation in Entrepreneurship Education: A Systematic Review of the Evidence**

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### **INTRODUCTION**

Innovation in education and entrepreneurship training has been introduced. It was first introduced by Myles Mace at Harvard University through entrepreneurial subjects (Katz, 2003). Until now there are several types of entrepreneurship training conducted in universities and colleges in the United States. These statements are based on the existence of 200 subjects who had been taught in more than 1,600 pieces of these institutions. It includes 277 institutions that provide a venue for entrepreneurial activity, 44 institutions are related to academic research on entrepreneurship and more than 100 hundred founders and financiers for the development of entrepreneurship (Kuratko, 2005).

#### **Definition of Innovation Entrepreneurship Education**

Education and Training agenda of innovation depend on the success of Malaysia who flatter value openness, critical thought and dared to attempt and take risks. Entrepreneurship education can be incorporated as an education that develops individual characteristics and abilities of entrepreneurship, creation of awareness about the creative, entrepreneurial teaching knowledge and skills to generate business whether or not (Muhammad Harun and Khairul Anuar Ahmad Husaini, 2008; Mwasalwiba, 2010; Othman, 2002). In addition, entrepreneurship education is the process providing individuals with the ability and capacity to seek and evaluate commercial opportunities, increase self-esteem, their knowledge and skills to start a business (Mwasalwiba, 2010; Othman, Othman, Tin, & Ismail, 2012).

Innovation in Entrepreneurship education has been considered as being one of the key instruments to enhance the entrepreneurial attitudes of both potential and nascent entrepreneurs (Ahmad, 2013). Entrepreneurship education is not only about the transfer of knowledge, but also about facilitation of knowledge creation processes; and it is not only about cognitive knowledge about a scientific field, but also about the ability to discover new opportunities and master venture creation processes (Balan and Metcalfe, 2012; Mwasalwiba, 2012).

(Matlay, 2008) appear to be attentively entrepreneurship education as the equipped formal delivery of entrepreneurial knowledge. Entrepreneurial knowledge refers to the impression, skills and mentality individual owners' use during the course of starting up and developing their businesses. According (C. Jones & English, 2004) entrepreneurial education is the process of providing individuals with the ability to recognise commercial opportunities and the insight, self-esteem, knowledge and skills to act on them.

It be acknowledged in the literature that innovation in entrepreneurship knowledge and skills can be taught and developed provided the appropriate environment is provided (Gibb & Hannon, 2006) and that education plays an important role in the process of building entrepreneurial capacity(Gibb & Hannon, 2006). (Gibb, 2002) suggest that there are three main objectives for introducing entrepreneurship education: develop a wide understanding of entrepreneurship (Pihie and Salleh, 2009) obtain an entrepreneurial mindset (Hytti and O’Gorman, 2004), as well as how to start and drive an enterprise effectively (Solomon, 2008)

According Li, (2011 ) in the writings of the view that entrepreneurship education is a key instrument for improving the entrepreneurial attitude of individuals that have the potential to be involved in entrepreneurship. This view is consistent with the opinion of (Kemat and Yusof, 2011) stated that the entrepreneurial attitude among students can be nurtured through entrepreneurship education.

Based on table 1 show the key element definition entrepreneurship education. Based on the explanations mentioned above, the researchers agree with (Pihie, Bagheri, & Sani, 2013) which states that the definition of entrepreneurship education are varied depending on the perception and evaluation of a person who termed it.

**Table 1: Key Definition Entrepreneurship Education**

References	Definition
Gibb, (2005),  Solomon, (2002), Jones, 2007) Hytti and O’Gorman (2004), Pihie and Salleh, (2009) Mwasalwiba, (2010)	Developing Knowledge, awareness Start and drive enterprise  Changing entrepreneurial mindset  Developing entrepreneurial attitudes

Sources: Illustrate author

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### **Teaching and Learning Entrepreneurship Education**

Determining the teaching technique depends first on the objectives of the course (Arasti, Kiani Falavarjani, and Imanipour, 2012). Jones, (2010)suggest three purposes for entrepreneurship education: education about (giving students an understanding of the nature of entrepreneurship and the entrepreneurial process), education for (preparing students to start their own business) and education in enterprise (as hands-on training for entrepreneurs in their ownbusiness).

This is supported by Jones and Iredale (2010) suggest that entrepreneurship education requires experiential learning styles, creative problem solving and learning by doing in order to engage students. Learning by doing could provide a basis for selecting suitable teaching methods. For example (Linan, 2008) have argued that “entrepreneurial skills are learned in a variety of ways and methods.

Jamieson (1984) has divided entrepreneurial education into three classes, i.e. education about for and in enterprise. Herrmann et al. (2008) have quarrel that in entrepreneurial education there be supposed to be

“a shift from transmission models of teaching (learning ‘about’) to experiential learning (learning ‘for’)” in order to “offer students techniques that can be applied in the real world”. Politis (2008) has affirmed that entrepreneurial teaching, i.e. “attempts to stimulate entrepreneurial activities through formal training and education” are “not likely to have a strong and direct impact on the development of entrepreneurial knowledge.

In order to achieve this deep learning, some educators suggest that entrepreneurship education should be connected to practice and be seen by students to be practical so that they are encouraged to develop skills essential for success as an entrepreneur (Arvanites et al, 2006)

Nevertheless entrepreneurship education teaching needs to be learner-centred, and help students to understand elements of entrepreneurial activity (Gibb, 2002; Jones and Iredale, 2010; Linan, 2008). Teaching methods that might best engage a particular group of students in order to convey the desired body of entrepreneurship knowledge, and stimulate future learning (Balan & Metcalfe, 2012). However in order to enhance entrepreneur knowledge teaching method be important to educator rising entrepreneurial attitude engage nescent entrepreneur.

According the argument several researcher classify the teaching methods into following categories: case Study, group discussion, individual presentation, individual written report, group project, formal lectures, guest speakers, action learning, seminar, web-based learning, video recorded (Maritz & Brown, 2013).

The study by Solomon (2002) highlighted that the most popular teaching methods in entrepreneurship education are creation of business plans, case studies and lectures. However, (Hytti & O’Gorman, 2004) advocate different outlook as they argued that there are many ways to offer entrepreneurship education, depending on the objectives of such education.

It seems that commonly author categorize teaching methods into two groups, which are termed “traditional methods” (comprising normal lectures) and “innovative methods” (which are more action-based), also known as “passive methods” and “active methods”, respectively (Mwasalwiba, 2010).

The selection teaching and learning methods should be appropriate to the style of the students and the learning objectives (Reece and Walker, 1997). Selection of appropriate teaching methods need to be made because the aspects that have a positive relationship to student achievement (Othman, 2000). This opinion was in line with studies carried out by (Kolb, 1976) and (Fry, 1978) indicating that the method of teaching and learning is an important indicator of student achievement. Thus the choice of teaching methods be corresponding to topics to be studied by students be able to enhance understanding and performance of student (Mohamed, Rezai, Shamsudin, and Mahmud, 2012).

Nevertheless, methods a traditional approach to teaching and learning that are often used by lecturers in delivering information to students (Lourenco and Jones, 2006). However, criticism of Sexton and Upton (1987) argues that the traditional teaching style of the is not appropriate for teaching and learning entrepreneurship. Learning and teaching entrepreneurship should be active and passive open it requires action to implement innovative ideas in line with the entrepreneurial function (Sharif, Hazri, Mohamd and Jusoff, 2010).

**Table 2: Entrepreneurship Education Teaching Methodology**

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Michaelsen and Sweet, (2008), Arasti et al., (2012)	Team based learning
Arvanites et al., (2006), Dominguihos and Carvalho, (2009)	Poster Plan
Al-Atabi and DeBoer, (2014), Millman., (2010) Jones & Iredale, (2010), Chang & Rieple, (2013) (Pittaway, Hannon, Gibb, & Thompson, 2009) (Crookall, 2011)	Entrepreneur presentation
Arasti et al., (2012)	E-Learning, Massive Open Online Course New Venture Creation
	Games Simulation Business Plan

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Sources: Illustrate author

## CONCLUSION AND RECOMMENDATION

This article explores the specific teaching methods and makes it possible to identify which ones make the greatest contribution to overall student engagement. Teaching methods have an important role in entrepreneurship education (Ahmad, 2013; Balan & Metcalfe, 2012; Mwasalwiba, 2010; Othman, 2002; Pittaway et al., 2009). Previous studies mentioned the importance of entrepreneurship education and its effect on development of countries. Although researchers have been investigated in the field of entrepreneurship education, a few studies have been conducted on the subfield of teaching methods.

Effectiveness of entrepreneurship education is largely related to the teacher's skills and his (or her) knowledge of using different teaching method, specifically the methods of teaching entrepreneurship (Cheng, Chan, & Mahmood, 2009). This study tried to review the teaching methods in entrepreneurship education and provide a list of these teaching methods.

It is recommended that the entire set of education and training activities within the educational system which provides ample knowledge and inspiration for entrepreneurship develop in the students' intention to execute entrepreneurial behaviours and prospect of choosing an entrepreneurial career may increase among young people. This had supported Shapero's (1982) findings where it was argued that attitudes toward entrepreneurship should partly derive from prior exposure to entrepreneurial activity and shape intentions through changing attitudes. It is noticeable that this result confirms the key role of educational support in the development of entrepreneurial intention.

## REFERENCE

- Ahmad, S. Z. (2013). The need for inclusion of entrepreneurship education in Malaysia lower and higher learning institutions. *Education + Training*, 55(2), 191–203.
- Al-Atabi, M., & DeBoer, J. (2014). Teaching entrepreneurship using Massive Open Online Course (MOOC). *Technovation*, 34(4), 261–264.
- Arasti, Z., Kiani Falavarjani, M., & Imanipour, N. (2012). A Study of Teaching Methods in Entrepreneurship Education for Graduate Students. *Canadian Centre of Science and Education*.
- Baharu Kemat, Mohammed Zain Yusof, N. E. (2011). Entrepreneurial Intention : An Empirical Study of Community College Students in Malaysia . *Jurnal Personalia Pelajar*, 14, 45–58.

- Balan, P., & Metcalfe, M. (2012). Identifying teaching method that engage entrepreneurship students. *Education + Training, 54*(5), 368–384.
- Chang, J., & Rieple, A. (2013). Assessing students entrepreneurial skills development in live project. *Journal of Small Business and Enterprise Development, 20*(1), 225–241.
- Cheng, M. Y., Chan, W. S., & Mahmood, A. (2009). The effectiveness of entrepreneurship education in Malaysia. *Education + Training, 51*(7), 555–566.
- Crookall, D. (2011). Serious Games, Debriefing, and Simulation/Gaming as a Discipline. *Simulation & Gaming, 41*(6), 898–920.
- Gibb, A. (2002). In pursuit of a new “enterprise” and “entrepreneurship” paradigm for learning: creative destruction, new values, new ways of doing things and new combinations of knowledge. *International Journal of Management Reviews, 4*, 233.
- Gibb, A., & Hannon, P. (2006). Towards the Entrepreneurial University? *International Journal of Entrepreneurship Education, 4*(4), 73–110.
- Hytti, U., & O’Gorman, C. (2004). What is “enterprise education”? An analysis of the objectives and methods of enterprise education programmes in four European countries. *Education+Training, 46*(1), 11–23.
- Jones, B., & Iredale, N. (2010). Enterprise education as pedagogy. *Education + Training, 52*(1), 7–19.
- Jones, C. (2007). Enterprise education: the frustration of a pure contest. *Education + Training.*
- Jones, C. (2010). Entrepreneurship education: revisiting our role and its purpose. *Journal of Small Business and Enterprise Development.*
- Jones, C., & English, J. (2004). A contemporary approach to entrepreneurship education. *Education + Training, 46*(8/9), 416–423.
- Katz, J. a. (2003). The chronology and intellectual trajectory of American entrepreneurship education. *Journal of Business Venturing, 18*(2), 283–300.
- Kuratko, D. F. (2005). The emergence of entrepreneurship education; Development, Trends and challenges. *Entrepreneurship Theory & Practice, 29*, 577–598.
- Li, J. (2011). An Introduction of Teaching Model for Entrepreneurship Education. In *2011 International Conference on Management and Service Science* (pp. 1–4). IEEE.
- Liñán, F. (2008). Skill and value perceptions: how do they affect entrepreneurial intentions? *International Entrepreneurship And Management Journal, 4*, 257–272.
- Maritz, A., & Brown, C. R. (2013). Illuminating the black box of entrepreneurship education programs. *Education + Training, 55*(3), 234–252.
- Matlay, H. (2008). The impact of entrepreneurship education on entrepreneurial outcomes. *Journal of Small Business and Enterprise Development.*
- Millman, C., Li, Z., Matlay, H., Millman, C., Li, Z., Matlay, H., ... Selcuk, S. S. (2010). Entrepreneurship education and student’s internet entrepreneurship intentions: Evidence from chinese HEIs. *Journal of Small Business and Enterprise Development, 17*(4), 569–590.
- Mwasalwiba, E. S. (2010). Entrepreneurship education: a review of its objectives, teaching methods, and impact indicators. *Education + Training, 52*(1), 20–47.
- Othman, N. (2012). Readiness towards entrepreneurship education: Students and Malaysian universities. *Education + Training, 54*(8), 697–708.
- Othman, N., Othman, N. H., Tin, P. B., & Ismail, R. (2012). Impak Globalisasi dan Tingkah Laku Pemilihan Kerjaya Keusahawanan dalam Kalangan Pelajar Universiti. Impact of Globalization and Entrepreneurship Career Selection Behavior among, *1*, 435–445.
- Pihie, Z. A. L., Bagheri, A., & Sani, Z. H. A. (2013). Knowledge of Cognition and Entrepreneurial Intentions: Implications for Learning Entrepreneurship in Public and Private Universities. *Procedia - Social and Behavioral Sciences, 97*, 174–181.
- Pittaway, L., Hannon, P., Gibb, A., & Thompson, J. (2009). Assessment practice in enterprise education. *International Journal of Entrepreneurial Behaviour & Research.*

- Zaidatol Akmaliah Lope Pihie and Abdullah Sani Abdullah Salleh. (2009). Exploring the entrepreneurial mind set of Students: Implication for improvement of entrepreneurial learning at university. *The Journal of International Social Research*, 2(8),340–345.
- Herrmann, K., Hannon, P., Cox, J., Ternouth, P. and Crowley, T. (2008), “Developing entrepreneurial graduates: putting entrepreneurship at the centre of higher education”, Council for Industry and Higher Education (CIHE), National Council for Graduate Entrepreneurship (NCGE) and National Endowment for Science, Technology and the Arts (NESTA), London.
- Jamieson, I. (1984), “Education for enterprise”, in Watts, A.G. and Moran, P. (Eds), CRAC, Ballinger, Cambridge, MA, pp. 19-27.