





Cawangan Perak

PROGRAM PROCEEDINGS ABSTRACTS BOOK The 9th International Innovation, Invention & Design Competition INDES2O2O

17th May - 10th October 2020

ENTREPRENEURSHIP EXPERIENTIAL LEARNING THROUGH SIMULATION GAME

Nurul Hayani Binti Abd Rahman¹, Roseamilda Binti Mansor¹, Nani Ilyana Binti Shafie², Azli Bin Umar², Balqis Binti Mohd Shariff² and Nurul Fazila Binti Abd Rahman³

¹Faculty of Business and Management, Universiti Teknologi MARA Cawangan Kedah, MALAYSIA

E-mail: nurulhayani@uitm.edu.my

²Faculty of Business and Management, Universiti Teknologi MARA Cawangan Pulau Pinang, MALAYSIA

³Kolej Komuniti Sungai Petani, Kedah, MALAYSIA

ABSTRACT

In the current gaming landscape, simulated skills and competencies vary according to the challenges present in a game. Offering different level of challenges, The Young Entrepreneur Network (YENT) is a simulation game for entrepreneurship experiential learning. This creative simulation game aims to introduce participants to various components such as entrepreneurship decision-making, venture management, financial management, and personal development. YENT's first phase was designed to provide information related to the services sector available in Malaysia. As the largest contributor to the country's economy, the services sector consists of wholesale and retail trade, information and communication, and finance and insurance. In the first phase of entrepreneurial decision-making, knowledge of a sector's capacity is useful as it helps an entrepreneur moves on to the next phase.

Keywords: entrepreneurship, experiential learning, decision making, simulation game

1. INTRODUCTION

Entrepreneurial conceptualisation may vary across context and field. The introduction of entrepreneurship simulation game entitled Young Entrepreneur Network (YENT) is aligned with previous research by [1], which had proven the perceived effectiveness of serious games on the players, specifically entrepreneurship simulation games in learning environments. As serious games differ from entertainment games, the participants focus on problem-solving tasks and incorporate the imperfect nature of interactions with the real world and specifically useful concept in approaching entrepreneurial opportunities [2]. In addition, the participants are also indirectly involved in experiential learning when they move through the game.

1.1. Theory of Experiential Learning

According to [3], the theory of experiential learning is built on the following six propositions:

Learning is better understood as a process and not in terms of results. The primary emphasis should be on engaging participants in a process that provides feedback on their learning effort's effectiveness.

- (i) All learning is re-learning. Learning is better encouraged through a process that extracts the views and ideas about a subject from the participants so that they can be discussed, evaluated, and incorporated into fresh and well-developed ideas;
- (ii) Learning aims for the resolution of conflicts between dialectically opposed modes of world adaptation. Throughout the learning process, one is called upon to switch back and forth between opposing modes of learning, namely action / reflection, and feeling / thinking;
- (iii) Learning is a holistic process of adaptation to the world. Not just the product of thought, learning includes the whole person's integrated functioning-thinking, sensing, perceiving, and acting;
- (iv) Learning results from person-environment synergy transactions. Learning occurs by integrating the dialectical processes of assimilating new experiences into established concepts and adapting existing concepts to new experiences;
- (v) Learning is the process of knowledge development. Social knowledge is created and recreated within the learner's personal knowledge.

1.2. Serious Games Criteria

The simulation and gaming literature suggests that serious games are often evaluated using three criteria: fidelity, verification, and validity. These criteria are explained as follows:

- (i) Fidelity refers to the amount of realism in a simulation [4];
- (ii) Verification focuses on ensuring whether the simulation is working, and modeling the scenario and variables as intended. Prior research in entrepreneurship education has found technical reliability to be essential for effective student engagement within the classroom setting [5];
- (iii) Validity aims to ensure that the simulation is designed to correctly model the processes that exist in reality [6].

As conclusion, games place participants in interactive virtual environments that can be immersive, and the consequential serious play that allows participants to take part in entrepreneurial decision-making and build entrepreneurial preparedness in a safe and risk-free environment. The gaming landscape also continues to progress with many more products on the market covering different entrepreneurial contexts and technological advancements, such as virtual reality and artificial intelligence offering many opportunities for improvements in technological and learning sophistication. In most cases, the games simulate decision, choice, and action frameworks well, and have a good level of fidelity for the chosen audience. Participants gain access to appropriate processes and have an opportunity to have fun and play when they are the founder of a business.

REFERENCES

- 1. Kriz, W. C., & Auchter, E. (2016). 10 Years of evaluation research into gaming simulation for German entrepreneurship and a new study on its long-term effects. Simulation & Gaming, 47(2), 179-205.
- 2. Susi, T., Johannesson, M., & Backlund, P. (2007). Serious Games–An Overview.
- 3. Kolb, A. Y., & Kolb, D. A. (2005). Learning styles and learning spaces: Enhancing experiential learning in higher education. Academy of management learning & education, 4(2), 193-212.
- 4. Pellegrino, J., & Scott, A. (2004, December). The transition from simulation to game-based learning. In The Interservice/Industry Training, Simulation & Education Conference (I/ITSEC), NTSA.
- 5. Hindle, K. (2002). A grounded theory for teaching entrepreneurship using simulation games. Simulation & Gaming, 33(2), 236-241.

6. Pegden, C. D., Sadowski, R. P., & Shannon, R. E. (1995). Introduction to simulation using SIMAN. McGraw-Hill, Inc.

Universiti Teknologi MARA Cawangan Perak Kampus Seri Iskandar 32610 Bandar Baru Seri Iskandar, Perak Darul Ridzuan, MALAYSIA Tel: (+605) 374 2093/2453 Faks: (+605) 374 2299



Surat kami Tarikh 700-KPK (PRP.UP.1/20/1)

30 Ogos 2022

YBhg. Profesor Ts Sr Dr Md Yusof Hamid, PMP, AMP Rektor Universiti Teknologi MARA Cawangan Perak

YBhg. Profesor



PERMOHONAN KELULUSAN MEMUAT NAIK PENERBITAN UITM CAWANGAN PERAK MELALUI REPOSITORI INSTITUSI UITM (IR)

Perkara di atas adalah dirujuk.

- 2. Pihak Perpustakaan ingin memohon kelulusan YBhg. Profesor untuk membuat imbasan (digitize) dan memuat naik semua jenis penerbitan di bawah UiTM Cawangan Perak melalui Repositori Institusi UiTM, PTAR.
- 3. Tujuan permohonan ini adalah bagi membolehkan akses yang lebih meluas oleh pengguna Perpustakaan terhadap semua bahan penerbitan UiTM melalui laman Web PTAR UiTM Cawangan Perak.

Kelulusan daripada pihak YBhg. Profesor dalam perkara ini amat dihargai.

Sekian, terima kasih.

"WAWASAN KEMAKMURAN BERSAMA 2030"

"BERKHIDMAT UNTUK NEGARA"

Yang benar