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This certificate is proudly awarded to
Dr. RATNA CANDRA SARI, M.Si., CA.

for the achievement of
SILVER AWARD
**(A NEW WAY OF TEACHING BUSINESS ETHICS USING BEHAVIOR
SIMULATION BASED ON VIRTUAL REALITY)**

in
INTERNATIONAL INNOVATION ARSVOT MALAYSIA (IAM 2021)
via Zoom Online Application
on 10th April 2021

Ts. Dr. ZULKIFLI BIN MOHD SIDI A.M.N
Chairman
Association for Researcher of Skills
and Vocational Training (ARSVOT)
Malaysia



Tn. Ts. Hj. ZAIHAN BIN SHUKRI P. K. T; B. C. N;
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**INTERNATIONAL
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PREFACE

Bismillahirrahmanirrahim

Assalamualaikum w.b.t.,

All praise to Allah SWT for His permission, Department of Skills Development, Ministry of Human Resources, Malaysia and the Association for Researcher of Skills and Vocational Training (ARSVOT) Malaysia in collaboration with ANP Resources Malaysia, Universitas Ahmad Dahlan (UAD), Indonesia, Universitas PGRI Yogyakarta, Indonesia, The Institute of Metallurgy and Ore Beneficiation, Kazakhstan, Satbayev University, Kazakhstan, Malaysia Association of Creativity and Innovation (MACRI), STEM 4 All Makerspace, AFA Future Publishing, PIBG Kuala Lumpur dan PIBG Selangor have successfully organised the first International Innovation ARSVOT Malaysia (IAM2021). The success in organising this event is very significant to our future researchers and knowledge seekers to share their research findings and improve education quality.

I would like to congratulate all participants and presenters who took the opportunity to enhance their results and findings with the latest research at this international ceremony. I wish the researchers will apply the knowledge as reference material and utilise it to develop national education.

Besides, IAM2021 allows us to get online exposure during the pandemic of COVID-19. It also assists us in finding another initiative to exchange great ideas and knowledge with each other virtually. It is very significant as it is an initial step of preparation towards the Industrial Revolution 4.0.

Finally, I hope the innovative products and presented papers in this IAM2021 contribute to the academic reference materials from various fields and indirectly expand the knowledge itself.

May our great effort in producing this book of proceedings remain continuous and beneficial towards Malaysia's education quality.

Thank you.

Ts. Hj. ANUAR BIN SHAARI
Head of Programme
International Innovation Arsvot Malaysia (IAM 2021)

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MESSAGE & WELCOME ADDRESS



Ts. Dr. ZULKIFLI BIN MOHD SIDI, A. M. N.

Bismillahirrahmanirrahim,
Assalamualaikum w.b.t,

Dear all participants and colleagues!

I pray for our safety and good health.

On behalf of the Association for Researcher of Skills & Vocational Training (ARSVOT) committee members, I would like to express our deepest gratitude to all honoured participants and distinguished delegates to IAM2021. Besides, I would like to extend my sincere appreciation to all keynote speakers Tn. Ts. Hj. Zaihan Bin Shukri P. K. T.; B. C. N.; D. J. N. (P.PINANG) (Director General, Department of Skills Development, Ministry of Human Resources Malaysia), Dr. Ir. Paiman, M. P. (Rector of Universitas PGRI, Yogyakarta, Indonesia), Assistant Prof. Dr. Zulkefle Bin Ismail (Program Leader Architecture, Universiti Teknologi Brunei), Prof. Dr. Dwi Sulisworo, M. T. (Head of Bureau of University Strategic Planning, Universitas Ahmad Dahlan, Indonesia) and Assoc. Prof. Dr. Mohd Zahuri Bin Khairani (Dean of Faculty of Art, Computing & Creative Industry, UPSI, Malaysia) for the support in this great event.

The inaugural collaboration between ARSVOT and DSD in this event highlighted the Accredited Centre (AC), skills, and vocational innovation of the TVET sector in developing the AC's sustainability at the international level. Through IAM2021, it provides an opportunity for trainees, students, researchers, and academicians to share their experiences in different schools of thought, especially in the TVET sector. The conference provides us with an opportunity to exchange ideas through a virtual environment by establishing networking in conjunction with Industrial Revolution 4.0 (IR4.0).

We do not want to be left out in strengthening the quality of skills training and higher education activities. Hence, we also made a joint strategic industry partnership in vocational training and education to become more creative and innovative in this sector. We also welcome collaboration between foreign countries, especially the TVET sector, in strategic partnerships to enhance knowledge, vocational skills. This will improve the Accredited Centre and educational institution image in the world-class stage.

Thank you very much.

Ts. Dr. ZULKIFLI BIN MOHD SIDI A. M. N.

Chairman

Association for Researcher of Skills and Vocational Training (ARSVOT), Malaysia

IAM 1067: A New Way of Teaching Business Ethics using Behavior Simulation Based on Virtual Reality



- Ratna Candra Sari
- Mahfud Sholihin
- Nurhening Yuniarti
- Adhy Kurnia Triatmaja

Commercialisation

The final phase of the new-product development process focuses on commercializing the new product. This phase includes: (1) test product, (2) launch, (3) evaluation

Novelty of Product

In accounting field, the development of VR-based learning media is still very limited. This research contributes to the learning of business ethics by developing VR-based learning media to improve students' abilities in dealing with ethical dilemmas.

Acknowledgement

- Research and Development Institute of the Yogyakarta State University
- Our respondent

Product

Table 1 show that descriptive statistics of participant characteristics. While student's experience and perceptions of learning effectiveness using VR can be seen in Table 2.

The results of this study indicate that using VR makes the learning process motivating, interesting, and increases perceived learning effectiveness.

Applying virtual reality-based learning media increases the individual's level of ethical efficacy by improving their self-efficacy (table 3). This provides empirical evidence that VR enhances ethical efficacy in the field of ethics education. Ethical efficacy can be used to measure the effectiveness of business ethics education. Someone with high ethical efficacy will be firm in holding ethical principles, which will ultimately affect ethical behavior. Indonesia is a country with a high level of corruption, so hopefully, VR-based ethical learning could be used as an option to reduce the level of corruption by increasing the ethical efficacy of students.

A NEW WAY OF TEACHING BUSINESS ETHICS USING BEHAVIOR SIMULATION BASED ON VIRTUAL REALITY

Introduction

Education currently faces the challenge of adapting to very rapidly changing environments due to technological developments. The efforts of business schools to instill ethical values in students are replete with challenges.

This study is particularly relevant to respond to recent situation caused by the COVID-19 pandemic. This is because virtual technology is able to introduce practical knowledge to the class without leaving it.

Virtual Reality (VR), as one type of virtual technologies, can help students understand abstract topics and increase student motivation and improving learning outcomes achievement.

Problem Statement

- How to develop virtual reality-based learning media in business ethics subject matter?
- How the effectiveness of virtual reality-based learning media usage

Research Objectives

The purpose of this research is to develop virtual reality-based learning media and to evaluate the effectiveness of its usage.

Tabel 1

Descriptive statistics of participants' characteristics.

Training Format	Gender		Age		Work Experience		GPA	
	Male (%)	Female (%)	Mean	SD	Mean (year)	SD	Mean (out of 4)	SD
Virtual Reality (A)	11.11	88.89	20.50	0.86	3.06	0.65	3.67	0.49
No-Virtual Reality (B)	17.65	82.35	20.70	0.69	2.83	0.32	3.59	0.62

Tabel 2

Students' experience and perceptions of learning effectiveness using VR.

	Students' Assessments	
	Mean	Standard Deviation
User experience of VR	6.50	0.5
Learning effectiveness VR	6.37	0.4

Tabel 3

Result of MANOVA

Effect	F-value	p-value
Overall Ethical Efficacy	3.33	0.07
Self-efficacy	5.95	0.02
Involvement	0.02	0.87
Principle-based ethics	0.21	0.65