The 1st International Conference on Vocational Education and Technology

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"Establishing Entrepreneurial Skills in Vocational Education and Technology (VET) towards Industry 4.0"

Grand Inna Kuta, Bali November 3rd, 2018

Faculty of Engineering and Vocational
Universitas Pendidikan Ganesha
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“Establishing Entrepreneurial Skills in Vocational Education and Technology (VET) towards Industry 4.0”

Grand Inna Kuta, Bali – Indonesia
November 3rd, 2018
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THE CHAIR’S SPEECH
ON THE 1st INTERNATIONAL CONFERENCE ON
VOCATIONAL AND TECHNOLOGY
Kuta – Bali, November 3rd 2018

Om Swastyastu,
Assalamualaikum Warahmatullahi Wabarakatuh,
Namo Buddhaya,
Praised be Lord Almighty, Ida Sang Hyang Widhi Wasa, the Lord Almighty, for the graces bestowed upon us today, that we all are here together in great health, in one of the most beautiful landmarks in Bali. It is an utmost honor for me to be standing here today and to welcome you to Bali and to the 1st International Conference on Vocational and Technology, themed “Establishing Entrepreneurial Skills in Vocational Education and Technology (VET) towards Industry 4.0.”

Ladies and Gentlemen,
Even though this is only our first, the International Conference on Vocational and Technology is attended by 47 participants from five different countries, namely Indonesia, Pakistan, Malaysia, Thailand, Australia, and Germany. We received 68 submissions of manuscripts, which consisted of 28 abstracts and 40 full papers. After a rigorous review process, the conference finally selected 47 papers, from students, teachers, researchers, and practitioners. Therefore, on behalf of the committee let us extend our greatest appreciation to all of you who have supported us and contributed your manuscripts to our conference, as well as to the panel of reviewers who have helped us in the selection process.

Ladies and Gentlemen,
I would also like to proudly announce our keynote speakers for this 1st International Conference on Vocational and Technology. Our first keynote is the honorable Mr. Sven Urban, a Manager of Electrical Engineering Renewable Automation & Control Engineering of ELABO Training System, Germany. The second one is the honorable Prof. Kongkiti Phusavat, Ph.D. from Kasetsart University, Thailand. The third one is the honorable Mr. Made Windu Antara Kesiman, Ph.D, a researcher in Applied Informatics and a lecturer at Engineering and Vocational Faculty, Universitas Pendidikan Ganesha. It is such a rare occasion to have esteemed experts in to be speaking together in one room, and thus allow me to express my heart-felt appreciation for all of our keynote speakers and also for all the panelists..

Ladies and Gentlemen,
This conference is only made possible by endless support would not be possible if there were no encouragement and support in its various forms from many parties. Therefore in this fine occasion, on the behalf of the committee, allow me to acknowledge for the supports granted to our university through its research funding. We would like also to acknowledge the Rector of Universitas Pendidikan Ganesha for his endless commitment and support that allows this event to be organized. And then we would like to express our gratitude to the Dean of the Faculty of Engineering and Vocational for the guidance and for the financial supports that makes this conference possible. With all these supports, I would also like to extend my heart-felt
appreciations for all the committee of this 1st International Conference on Vocational and Technology for the vigorous commitment during the long preparation of the conference until we come to today’s main event. Finally, in the name of the organizing committee, we thank all the participants and presenters for your contribution and your presence today, for only with your participations that this 1st International Conference on Vocational and Technology is possible today.

Ladies and Gentlemen,

It is our sincerest hope that this conference will bring forward significant contributions to the development of technology, its possible applications in education and its education in vocational schools. Thus, allow me to wish you all a fruitful conference and may God bless you.

Om Shanti, Shanti, Shanti, Om.

Singaraja, November 3rd 2018
Chair,

I Made Putrama, S.T., M.Tech.
WELCOME NOTE
ON THE 1st INTERNATIONAL CONFERENCE ON VOCATIONAL AND TECHNOLOGY
Kuta – Bali, November 3rd 2018

Om Swastiastu,
Assalamualaikum Warahmatullahi Wabarakanuh,
Namo Buddhaya,
Shalom.
May peace be with all of us.
Praised be the Almighty God, Hyang Parama Wisesa, for only with his blessings we can gather today here in the beautiful island of Bali for having this 1st International Conference on Vocational Education and Technology, hosted by the Faculty of Engineering and Vocational, Universitas Pendidikan Ganesha. Let me also extend my warmest welcome to the Keynote Speakers for this 1st International Conference on Vocational and Technology, it is a great pleasure to having esteemed scholars like you to speak in our conferences.

Ladies and Gentlemen,
It is an honor for me to stand here and welcome you today as we seek to embrace scholars, researches, and practitioners in technology and vocational education into an academic discussion that is expected to bring forward the advances in technology and its application in vocational schools to help our nation facing Industry 4.0.

I congratulate the committee for choosing a very state of the art theme and for organizing this event from its most initial preparation, until today, and also all the post-conference activities in order to get the articles published by esteemed publisher, through which our discussions today can create ripple effects that reach the intended audience across the world.

Valued Scholars,
Allow me to extend my congratulations for all participants and presenters in this 1st International Conference on Vocational and Technology, for taking the forerunner positions in Industrial Revolution 4.0. Thank you for your contributions for this conference and for the development of education, technology and vocational education.

And last but not least, I wish you a very productive conference and God Bless you.

Singaraja, November 3rd, 2018

Dr. I Nyoman Jampel, M.Pd.
LIST OF PARTICIPANTS

Heartbeats measurement prototype development based on internet of things
    I M A Wirawan, G A Pradnyana, I K R Arthana, G S Santyadiputra, I M A Pradnyana and G A J Saskara

Transliteration Balinese Script using Finite State Automata (FSA) Algorithm
    I B T T Murti, C Janis and I G A Sudhana

Mapping to predict and prioritize branches affected by natural disasters based on web applications and Google Maps geocoding methods in the group audit and risk advisory. (case study: PT. Astra International, tbk.)
    S B Utomo

Augmented Reality (AR)-Based Application to Introduce Nagasepaha North Bali Puppet Style Character
    L J E Dewi, A A J Permana, I K Purnamawan and I K Sudadana

A Smart System for Managing Solar Panels Installed on Grid
    I W Sutaya and K U Ariawan

Electricity Savings Using Passive Filters
    I G Ratnaya, N Santiyadnya and I P Suka Arsa

Recommendation Systems for internship place using artificial intelligence based on competence
    A A J Permana and G A Pradnyana

YouTube and the Permeability of the Public/Domestic Space Dichotomy
    N K A Suwastini, K L Swaryani and G R Dantes

Fundamental Architectures of Datacenter ECR System Prototype by Applying Principle of Messaging Services
    K Y E Aryanto, K T Dermawan and I M Putrama

The Use of Steganography Least Significant Bit (LSB) in Medical Images of Health Services
    A P Ratnasari, M Ashar and H W Herwanto

Development of tourism object recommendation system in Gianyar regency using dempster-shafer theory
    I M A Wirawan, I G M Darmawiguna and N K Dwiyanti

PAON usability testing using system usability scale
    K Setemen, L J E Dewi, and I K Purnamawan
Development of Mastuli Ikat Weaving in Kalianget Village Buleleng District
M D Angendari, N K Widiartini, I D A M Budhyani and I G Sudirtha

The Development of Integrated Bali Tourism Information Portal using Web Scraping and Clustering Methods
I G M Darmawiguna, G A Pradnyana and G S Santyadiputra

Design of Hexapod Robot Movement Based on Arduino Mega 2560
K U Ariawan, G S Santyadiputra and I W Sutaya

Modified Cassava Flour Utilizing As A Wheat Flour Substitution In Chochochip Cookies
R P Ariani, L Masdarini and G A Pradnyana

Developing and preserving Balinese traditional culinary through website hidangan khas bali
C I R Marsiti and N M Suriani

Usability testing on website wadaya based on ISO 9241-11
I K R Arthana, I M A Pradnyana and G R Dantes

Design-Pattern-Driven IT Services Management Based on Cloud Applications: Case Study e-Business for Small and Medium Enterprises
N M S Iswari, P O A Sunarya and Z A Hasibuan

Balinese fusion food, as local culinary tourism products
N M Suriani, R P Ariani, Damiati and N D M Adnyawati

System Design Teaching Model in Informatics Engineering Study Program
C E Supriana

Development of Industrial Electrical Installation Trainer Nuanced To Training within Industry for Students of Electrical Industrial Engineering Universitas Negeri Padang
Elfizon, M Muskhir and Asnil

Development of Miniature Secondary Network of Electric Power Distribution System as a Learning Media for Electrical Engineering Students
O Candra, A B Pulungan, F Eliza, Elfizon, and Syamsuarnis

Using the Environment as a Workshop for Vocational Education
N M S Mertasari, M Yudana, N Gita, and R Hapsari

Development of blended learning based on Google Classroom with using culture theme in mathematics learning
R P Murtikusuma, Hobri, A Fatahillah, S Hussen, R R Prasetyo and M A Alfarisi
Tool to monitor students’ contribution in a wiki-based group work assignment
I H Putro, P Santoso, H Khoswanto, and H Wicaksono

An Evaluation of Inclusion Education Implementation at SD Negeri 1 Bengkala
N Sugihartini, D G H Divayana, I G M Darmawiguna, M Putrama and L P E Damayanti

Supporting E-Learning Materials Development Cycle Through Office Application Add-in
A A G Y Paramartha and I G P Sindu

The Design of Digital Book Content for Assessment and Evaluation Courses by Adopting Superitem Concept Based on Kvisoft Flipbook Maker in era of Industry 4.0
D G H Divayana, P W A Suyasa, I P W Ariawan, I W E Mahendra, and G A D Sugiharni

The Effect of Interactive Mathematics Learning Media toward Mathematical Conceptual Understanding on Probability of Hearing-impaired Students
I M Suarsana, G A Mahayukti, I K Sudarma and A A G S Pujawan

Disseminating Postfeminist Ideology through Film
N K A Suwastini, I A I Utami and E W Galla

Ten Minutes Watching: Short Film as Media for Learning
N K A Suwastini and J V Hutapea

Hots-Based Critical Reading Test for Tourism Vocational School: Test Construct Validity Based on Rasch Measurement Model
A A G Y Paramartha and A A I N Marhaeni

Cooperation in implementing industrial classes to prepare students for global competition
Yoto, Marsono, W Irdianto and Basuki

Learning Style Tendency Analysis for Vocational Students
K Agustini and I M Tegeh

The Effect of KWL (Know-Want-Learn) Learning Methods and Self-Assessment toward the Independent Learning of Vocational School
NK Widiartini and I P W Astika

Contextualization of learning models in subak system for vocational education
I M. Candiasa, N. Santiyadnya, N. Sukajaya, and G. K. A. Sunu

Students’ Need Analysis in the Content of English for Hotel accommodation of Vocational High School
K L Kurniawati, I G Budasi, and D P Ramendra
Improving human resources by applying specialization tests to face the industrial revolution 4.0
A A J Permana, N W Marti, and K Suranata

Managing and Improving the Quality of Vocational High School: Towards Global Competition
R Agustina, NK Kertiasih, Subari, Imran, L Hartiningtyas, JF Palandi, KR Nasir and NA Wigraha

Study of Implementation of Project Based Learning in Mechanical Engineering Study Program of Vocational High School
D A Sudjimat, Nopriadi and Yoto

Building Generation of Entrepreneurship to Compete in Facing the ASEAN Economic Communities
L Hartiningtyas, JF Palandi, NA Wigraha, KR Nasir, R Agustina, NK Kertiasih, Subari and Imran

A Project-based Entrepreneurship Learning Innovation Based on the Concept of Tri Kaya Parisudha in the Culinary Study Area for the Students of Senior Vocational School
N W Sukerti, A Mukhadis, T M Kiranawati and H Suswanto