



Book of Abstract **4th** **ICTASE**

**International Conference on
Teaching and Science Education**

Virtual Conference: March 8, 2022

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Book of Abstract
International Conference on Teaching and
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Virtual Conference
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FOREWORD

**Book of Abstract
Conference Proceeding**

**4th
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Research Synergy Foundation is a digital social enterprise platform that focuses on developing Research Ecosystem towards outstanding global scholars. We built collaborative networks among researchers, lecturers, scholars, and practitioners globally for the realization of knowledge acceleration. We promote scientific journals among countries as an equitable distribution tool of knowledge. We open research collaboration opportunities among countries, educational institutions, organizations and among researchers as an effort to increase capabilities.

Known as a catalyst and media collaborator among researchers around the world is the achievement that we seek through this organization. By using the media of International Conference which reaches all researcher around the world we are committed to spread our vision to create opportunities for promotion, collaboration and diffusion of knowledge that is evenly distributed around the world

Our Vision:

As global social enterprise that will make wider impact and encourage acceleration quality of knowledge among scholars.

Our Mission:

First, developing a research ecosystem towards outstanding global scholars. Second, Promoting scientific journals among countries as an equitable distribution tool of knowledge. Third, opening research collaboration opportunities among countries, educational institutions, organizations and among researchers as an effort to increase capabilities. Fourth, creating global scientific forum of disciplinary forums to encourage strong diffusion and dissemination for innovation.

<https://www.researchsynergy.org/>

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ORGANIZING COMMITTEE

PROGRAM COMMITTEE

Conference Chair:

Dr. Hendrati Dwi Mulyaningsih
Research Synergy Foundation

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KVD Edirisooriya – Sabaragamuwa
University of Sri Lanka, Sri Lanka

CONFERENCE CHAIR MESSAGE

We are delighted to welcome you to **4th International Conference on Teaching and Science Education (4th ICTASE)** by Research Synergy Foundation (RSF) that held virtually on March 8, 2022.

This conference not only give you global forum to share and exchange idea, research, and work. But also, provide wider network and research ecosystem for further collaboration and projects. We are glad to share these good opportunities in the scientific community, that will be offered only for all participants who participate in the conference.

It has been our privilege to convene this conference. Our sincere thanks, to the conference organizing committee; to the Program Chairs for their wise advice and brilliant suggestion on organizing the technical program and to the Program Committee for their through and timely reviewing of the papers. Recognition should go to the Local Organizing Committee members who have all worked extremely hard for the details of important aspects of the conference programs and social activities.

We welcome you to this conference and hope that this year's conference will challenge and inspire you, and result in new knowledge, collaborations, and friendships.

Best regards,

Dr. Hendrati Dwi Mulyaningsih
Conference Chair of 4th ICTASE 2022

CONFERENCE CHAIR



Dr. Hendrati Dwi Mulyaningsih

Founder & Chairperson of Research Synergy Foundation

Dr. Hendrati Dwi Mulyaningsih is the chairperson and founder of Research Synergy Foundation that has shown great commitment on creating Global Network and Research Ecosystem. This GNR ecosystem has been developing since 2017 up to the present and having increasing numbers of the member up to more than 15.000 from all around the globe. Her passion in how to create impact and co creation value among all the stake holder of RSF has made her focus on upholding integrity in the scientific process through enhancement of RSF's support-support system as like Reviewer track, Scholarvein, Research Synergy Institute and RSFPRESS. Thus, her work in this area has made her as the Nominee of Impactful Leadership Awards from Tallberg Foundation Sweden 2019.

As lecturer, she has been working in the University since 2008 – at present in Indonesia as assistant professor and she hold her Doctoral Science of Management graduated from School of Business and Management Institute of Technology Bandung (SBM-ITB) and she has strong interest to her research project as well as her research field in Social Entrepreneurship, Social Innovation and Knowledge Management.

As researcher, her work studies and research on this research field made her being invited as reviewer in many reputable Scopus and WOS indexed journals and also as keynote speaker in many International Conferences in Philippines, Thailand, Malaysia, Indonesia, Australia, Japan and US . She also has shown her great passion on writing her research study into some books chapter, papers and contemporary scientific articles that has already been published in Springer, Emerald, Taylor and Francis and in many reputable international journals. The terrific association between her professional experiences as researcher, lecturer, the certified Trainer & Coach combined with her wider horizon on networking in the research area made her establish the strong commitment on having global learning platform to accelerate knowledge through many workshops and research coaching in Research Synergy Institute as one of RSF's support system.

SESSION CHAIRS



Mr. Vahid Norouzi Larsari

Charles University, Prague, Czech Republic

Vahid Norouzi larsari, as Ph.D Candidate, is studying at the University of Charles University, Prague since 2019. He also presented many academic papers in many various Conferences, and Seminars.

CONFERENCE PROGRAM

Tuesday, March 8th, 2022

<i>Time (UTC+7)</i>	<i>Activity</i>
08.50- 09.00	Participant Login and Join Virtual Conference by ZOOM
09.00 - 09.05	Welcome Address
09.05 - 09.25	Global Research Ecosystem Introduction Mrs. Ani Wahyu Rachmawati, S.Psi., MSM. Founder & Director of Publication Research Synergy Foundation
09.25 - 09.30	Group Photo Session
09.30 - 09.35	Preparation for Online Presentation
09.35 - 10.35	Online Presentation Session Session Chair : Mr. Vahid Norouzi Larsari Charles University, Prague, Czech Republic
10.35 - 10.45	Open Research Discussion Session & Participant Testimonial
10.45 - 10.55	Closing and Post-conference information announcement

List of Presenters

Track Early Child Development

Paper ID	Author	Media	Paper Title
ASE08106	Henry Solekhah	Virtual Presentation	Integrative Holistic Early Childhood Education (hi Ece) In Indonesia Amidst the Covid 19 Pandemic

Track Mathematics Education

Paper ID	Author	Media	Paper Title
ASE08107	Mary Judelle Montillano Arbis	Virtual Presentation	Contextualized and Localized Guided Notes as Supplemental Material in Mathematics Learning

Track Management Education and Development

Paper ID	Author	Media	Paper Title
ASE08105	Ethel Reyes Chua	Virtual Presentation	Accessible, Comprehensive, Continuous, Experiential, and Reflective (ACCER) Student Learning Framework of Paranaque City College

Track Engineering Education

Paper ID	Author	Media	Paper Title
ASE08108	Marilyn Fernandez Isip	Virtual Presentation	Challenges of Motorcycle Parts, Accessories, and Repair Services Business Amidst Pandemic

Track: Early Child Development

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Integrative Holistic Early Childhood Education (HI ECE) in Indonesia Amidst the COVID 19 Pandemic

Henry Solekhah¹

¹Himpaudi Kab. Kendal

Abstract

Background - *Integrative holistic services towards children in Indonesia has become a major priority in Early Childhood Education (ECE). However, the COVID 19 pandemic had hindered its implementation, especially in how the teachers ought to accommodate the services of health and nutrition, parenting, and protection. The shifting school delivery from direct teaching to virtual classrooms was not anticipated. In order to maintain and increase the teachers' competence in implementing integrative holistic services, around 60 teachers in Kendal Regency, Indonesia, had received six online workshops and seminars.*

Purpose - *The purpose of the research is to investigate the implementation of holistic integrative early childhood education by the teachers has been enhanced after receiving the online workshops and seminars, as well as to find its barriers during the pandemic.*

Design/methodology/approach - *The descriptive qualitative research was employed by having three online focus groups discussions (FGD) with 17 teachers from 17 different subdistricts. The additional individual interviews were also conducted. The secondary data was also collected from the literature the strengthen the findings.*

Findings - *The research found that the ability to the competence of ICT had the largest impact on online teaching practices, especially in encouraging parents' involvement in teaching and playing with the children at home. They also committed to building a safer school environment and evidence-based first aid treatment for children. The recent limited face-to-face learning also had enabled them to teach children's protection and disaster mitigation through songs and role-plays. However, the parenting and health programs could not be optimum due to the physical distancing policy.*

Research limitations - *The finding could not be generalized to all teachers due to the data collection methods.*

Originality/value - *The research suggested that the implementation of HI ECE amidst requires not only the collaboration between schools and health workers but also the participation of the communities and government institutions in promoting the rights of children.*

Keywords : Integrative Holistic ECE, Indonesian Early Childhood Education, Parenting, Covid-19 Pandemic

Track: Mathematics Education

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Contextualized and Localized Guided Notes as Supplemental Material in Mathematics Learning

Mary Judelle Montillano Arbis¹, Kimberly A. Atractivo², Mikaella G. Hernandez³, Trixia Ann P. Hernandez⁴, Ireneo Tolentino⁵

^{1,2,3,4,5}Polytechnic University of the Philippines-Santa Maria Bulacan Campus

Abstract

Background - *The Covid-19 pandemic spread worldwide, including in the Philippines, and changed the way people live, work, communicate and learn. In the academic year 2020-2021, the Department of Education is offering schools an alternative learning method that includes Modular Learning. The learners are using self-learning modules (SLMs) in printed or digital/electronic copy. These modules are given in a limited period and need to be brought back to school. Therefore, there is no notes that left to the students.*

Purpose - *This study aims to develop contextualized and localized guided notes as supplemental material in Mathematics learning and determine the students' perception of the developed material in terms of attitude towards the use of guided notes, usefulness, and effectiveness.*

Design/methodology/approach - *This study made use of a descriptive developmental research design. A descriptive research design was used to describe the respondents' perception of contextualized and localized guided notes as supplemental material. It will be done along with the developmental research design where the researchers used ADDIE Model to develop the material. To collect the data, the developed material was given to the students ahead of time with the students' self learning modules. At the end of the quarter, survey questionnaires were given to determine the students perception.*

Findings - *Findings of the study showed that the developed contextualized and localized guided notes in Mathematics is very acceptable with a weighted mean of 4.51 based on the following criteria: objectives, content, usefulness, and presentation as evaluated by the selective specialists. Furthermore, students had a highly positive attitude towards guided notes with a weighted mean of 4.54. The students perceived the developed material as very useful with a weighted mean of 4.52 and very effective with a weighted mean of 4.56 as supplemental material in Mathematics.*

Research limitations - *The developed material was for the Third Quarter of Mathematics 8 in Academic Year 2020-2021. Due to inadequate time, it was limited to the four topics in Mathematics 8: Mathematical System, Axiomatic Structure of Mathematical Systems, Illustrating Triangle Congruence and Illustrating the SAS, ASA, and SSS Congruence Postulate.*

Originality/value - *The developed guided notes in this study is contextualized and localized. It differs from other guided notes since it was created by the teacher itself and given by the students as their reviewer and notes. In addition, this developed material includes activities that the students can answer. The contextualized and localized guided notes can enhance the students' knowledge and can be use as a reference to refer back to if they have confusion in the past lessons.*

Keywords : Contextualized, Localized, Guided Notes

Track: Management Education and Development

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Accessible, Comprehensive, Continuous, Experiential, and Reflective (ACCER) Student Learning Framework of Paranaque City College

Alejandro D. Magnaye¹, Ethel Reyes-Chua²

^{1,2}Paranaque City College

Abstract

Background - Paranaque City College (PCC) in the Philippines has no existing Student Learning Framework that will enhance the teaching and learning process and the quality of student learning. This study discusses about the significance of the Student Learning Framework called ACCER or Accessible, Comprehensive, Continuous, Experiential and Reflective.

Purpose - ACCER is an acronym for Accessible, Comprehensive, Continuous, Experiential and Reflective Student Learning Framework. This study was conducted to determine the current status of the quality of teaching and learning at Paranaque City College. Specifically, it aimed to: (1) determine the demographic profiles of both educators and students in terms of age, gender, employment status/year level, length of service/student status; (2) find out the level of assessment in the current learning framework in PCC as perceived both by educators and students in terms of the following descriptions: a. accessible b. comprehensive c. continuous d. experiential e. reflective.

Design/methodology/approach - This study utilized the quantitative method of research. Researchers use mathematical frameworks and ideas that relate to the amount under consideration in this technique of inquiry. Objective, detailed, and in many cases investigative, quantitative research frameworks are characteristics of the discipline. This style of investigation yields logical, statistical, and unbiased results. Structured data collection was carried out utilizing samples that represent the 10% of the population. There were 187 student participants and 30 faculty members in this quantitative investigation.

Findings - The ACCER Student Learning Framework's criteria, such as level of agreeableness, were found to be helpful in determining the current status of educators and students. Educators may find that students' self-reflection is at its maximum point when using a holistic approach. Faculty members, on the other hand, must work together to improve their methods of teaching. According to the findings of the study, educators must update their teaching materials to make resources more readily available. ACCER Student Learning Framework, developed by PCC's current President/College Administrator, has crucial indicators that can help all of PCC's faculty members think more deeply on their teaching methods.

Research limitations - This study is limited only to the student learning framework to improve the teaching and learning process at Paranaque City College.

Originality/value - The Student Learning Framework was originally developed by the main author and its uniqueness will improve the teaching and learning process and student performance of Paranaque City College students.

Keywords : CHED, ACCER, Paranaque City College

Track: Engineering Education

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Challenges of Motorcycle Parts, Accessories, and Repair Services Business Amidst Pandemic

Eduardo SP. Francisco¹, Marilyn F. Isip²

^{1,2}Polytechnic University of the Philippines, Santa Maria Bulacan Campus

Abstract

Background - *The motorcycle industry has a global impact in the Philippine economy. Motorcycle parts, accessories, and repair services becomes in demand also. The pandemic crisis affected all economic sectors including the motorcycle industry, many problems have been facing and coping up and with these are still a big challenge on how to survive.*

Purpose - *This study aims to know the problems of the motorcycle parts, accessories, and repair services business in the municipality of Santa Maria, province of Bulacan, Philippines and how they cope up with the challenges leading them to be still in the business.*

Design/methodology/approach - *The study used a phenomenological qualitative research method. Phenomenology is an approach to qualitative research that focuses on the commonality of a lived experience within a particular group. Interviews, observation, and documentation are the techniques used in gathering data. The researcher used guided questionnaires to analyse the motorcycle parts, accessories, and services business. The respondents are the owners of the business.*

Findings - *The motorcycle shop business is now facing a great challenge especially in terms of financial stability. The pandemic Covid-19 has caused a lot of troubles in their operation, inventories, workforce and customer retention. All participants suffered a decrease in sales due to loss of jobs of their customers. Prioritizing on the primary needs of the families rather than expending their savings in motorcycle expenditures. The motorcycle industry as a whole is growing even the time of pandemic, more industries have innovated and continue developing technological advancement in motorcycle technology. We recommend that business owners should continue in their business operation, focusing more on customer satisfaction and retention, prioritize the inventories which are primary needs of the motorcycle. Develop new concept in marketing strategies and practices, make use of social media as a medium of promotion and advertising, introduce an on call system or home service. Continue to train workforce, be friendly with the customers and develop a positive outlook on the business.*

Research limitations - *The informants of the study is limited only to five due to restrictions in the business operations during pandemic. Future researchers can add more informants.*

Originality/value - *This study is a very rare study conducted in the municipality of Santa Maria even pre-pandemic and during pandemic.*

Keywords : Challenges, motorcycle industry, repair services business, Bulacan, pandemic

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FUTURE EVENT

6th ESBEM

International Conference on Entrepreneurship Studies, Business, Economy, and Management Science

<http://esbem.com/index.php/6th-esbem/>

Virtual Conference, April 14, 2022

ICISSETIM

International Conference on Industrial and Systems Engineering, Technology, Innovation, and Management

<https://icisetim.com/>

Virtual Conference

April 22-23, 2022

7th MASOS

International Conference on Management Studies and Social Science

http://www.masosconference.com/index.php/7th_masos/

Virtual Conference, May 5, 2022

8th JIBUMS

Japan International Conference on Business, Management Studies and Social Science

<https://www.jibums.com/8th-jibums/>

Virtual Conference, May 31, 2022

4th ICISS

International Conference on Islamic Education Studies and Social Science

<http://www.icissconference.com/index.php/4th-iciss/>

Virtual Conference, July 14, 2022

3rd MESS

International Conference on Management, Education, and Social Science

<https://messconference.com/3rd-mess/>

Virtual Conference, July 28, 2022

ICHBS

International Conference on Health and Biomedical Science

<https://ichbs.com/>

Virtual Conference, August 11, 2022

6th IBEMS

International Conference on Interdisciplinary in Business, Economy, Management, and Social Studies

<http://www.ibemsconference.com/index.php/6th-ibems/>

Istanbul, Turkey, September 22-23, 2022

8th BEMSS

International Conference on Business, Economy, Management and Social Studies Towards Sustainable Economy

<http://www.bemssconference.com/index.php/8th-bemss/>

Virtual Conference, August 30, 2022

2nd ICLET

International Conference on Language, Education and Teaching Research

<http://www.icletconference.com/index.php/2nd-iclet/>

Virtual Conference, June 15, 2022

8th SIMBES

Singapore International Conference on Management, Business, Economic and Social Science

<http://simbesconference.com/8th-simbес/>

Virtual Conference, October 4, 2022

7th RESBUS

International Conference on Interdisciplinary Research on Education, Economic Studies, Business and Social Science

<http://resbusconference.com/7th-resbus/>

Virtual Conference, November 8, 2022

8th JIBM

Japan International Business and Management Research Conference

<https://jibmconference.com/8th-jibm/>

Virtual Conference, December 6, 2022

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