



SHBIE FEATURES IN 8TH SEA-DR AND 2ND STEACH CONFERENCE



SHBIE faculty members took leading roles in the recent 8th Southeast Asia Design/ Development Research (SEA-DR) and the 2nd Science, Technology, Education, Arts, Culture, and Humanity (STEAACH) international conference hosted by Postgraduate School, Universitas Negeri Surabaya, Indonesia, 21-22 Oct. 2021. The theme of the conference was *Empowering creative education for freedom teaching and learning*.

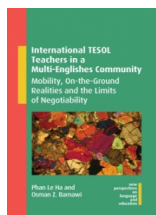
SHBIE's Dean, **AP Dr Masitah Shahrill** was one of the keynote speakers, with a paper entitled "*Supervisory reflections on developing mathematics graduate teacher educators*". In her paper, she drew upon her own reflections and experiences, and examined the research reports and publications that emanated from her past decade as a supervisor to over 40 graduate teacher candidates in the area of mathematics.

SHBIE lecturers also contributed to a further 12 papers at the conference, demonstrating the strength and vitality of research work in the faculty. Papers presented included: **Dr Nor Zaiham Midawati Abdullah & Nur Aqilah Bakar** - *The role of girls' talk programme in providing support and empowerment for female students*; **Mohamad Bahzi Al Barakat Shahrum & AP Dr Masitah Shahrill** - *A review of the Geogebra software in teaching coordinate geometry*; **Dk Nurul Najiah @ Najibah Pg Abu Bakar & AP Dr Masitah Shahrill** - *Reviewing digital escape game in the teaching and learning of mathematics*; **Afiqah Bari'ah Haji Emran & AP Dr Masitah Shahrill** - *Mnemonic devices in solving mathematical story problems: a review of the literature*; **Nur Fatin Haji Ismail & AP Dr Masitah Shahrill** - *A review on the use*

of gizmos in the teaching and learning of integers; **Mohamad Akmal Fauzan Abu Bakar & Dr Desmond Chia Chun Tan** - *A review on the use of Content and Language Integrated Learning (CLIL) in the teaching and learning of secondary geography*; **Mohd Khairul Azam Hj Ali Mashod, Dayangku Nurul 'Izzati Pengiran Omar, Nadiyah Maimunah Khanafiah, Nurul Hafizah Haji Alias, Sil Yin Tan, Ani Afifah Haji Mosli, Dr Nor Azura Abdullah & AP Dr Masitah Shahrill** - *What are the ideal traits of a secondary school mathematics leader?*; **Dalilah Syazwi @ Dalilah Farzana Haji Laidin, Nur Fatin Haji Ismail, Dk Nurul Najiah @ Najibah Pg Abu Bakar, Mohamad Bahzi Al Barakat Shahrum, Afiqah Bari'ah Haji Emran, Nur Basmirah Haji Abas, Dr Nor Azura Abdullah & AP Dr Masitah Shahrill** - *Exemplary leadership characteristics of a secondary school mathematics teacher*; **Amirah Nur Naseekah Samahani & Dr Siti Norhedayah Abdul Latif** - *Assessing students' conceptual understanding through self-explaining concept maps*; **Siti Najibah Lailatul Nazirah Sheikh Hassan & Dr Siti Norhedayah Abdul Latif** - *Writing-to-learn: exploring students' cognitive-affective-behaviour learning domains in secondary biology*; **Amyzee Roberd (SHBIE MTeach graduate)** - *Using Tiktok application in teaching "light energy" in year 5 science classroom*; **Dr Marlizayati Johari, Dr Juraidah Musa, Dr Nordiniana Zakir, Dr Aliamat Omar Ali & AP Dr Masitah Shahrill** - *Conventional to online education during Covid19 pandemic: Impact of the transition from the perspectives of educators in higher education institution*.

For conference videos visit: <https://seadr-steach.unesa.ac.id/page/conference-recorded-videos>

SHBIE BOOK NEWS



SHBIE Professor publishes new book on international TESOL teachers

SHBIE'S Senior Prof. Phan Le Ha has recently published a co-authored book with Associate Professor Osman Z Barnawi from the Royal Commission Colleges and Institutes (Education Sector), Yanbu, Saudi Arabia. The book, entitled *International TESOL Teachers in a Multi-Englishes Community: Mobility, On-the-Ground Realities and the Limits of Negotiability*, is published by Multilingual Matters in the series New Perspectives on Language and Education, of which Snr Prof Le Ha is also a series co-editor.

The book examines the ways in which international English language teachers in Saudi Arabia's higher education system position themselves, negotiate, interact, adjust, and make sense of their classroom dynamics in their day-to-day (dis)engagement with their institutions and encounters at work. Informed by rich empirical data, the book reveals on-the-ground complexities involving speaker status, language, ethnicity, nationality, race, religion, sociocultural factors, emotion labour, work dynamic and professionalism. It promotes thinking beyond normative ideologies whilst also offering new material for original theorisation in multi-Englishes multilingualism, local-trusting-local and the limits of negotiability. Further details are available at

<https://www.multilingual-matters.com/page/detail/International-TESOL-Teachers-in-a-MultiEnglishes-Community/?k=9781800415461>

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SHBIE Professor joins series editorial board

SHBIE's Senior Prof. Phan Le Ha has recently been invited to join the editorial board for Cambridge University Press' *Elements in Intercultural Communication*, a new strand in CUP's popular *Elements series*. The series aims to present innovative perspectives and cutting-edge empirical research on key theoretical constructs, domains and functions, and issues of applied relevance in the field of intercultural communication. The series will cover both current core issues in intercultural communication and newly arising areas of research to challenge conventional understandings. It aims to highlight newly emerging research on the

relationship between language and culture, notions such as 'culture' and 'community', and the communicative processes that contribute to understanding, conflict and meaning making.

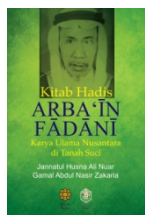
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SHBIE academic contributes country and institution case studies to new handbook

SHBIE's Dean, AP Dr Masitah Shahrill, together with other staff from UBD, recently contributed to an important new publication from the Commonwealth Educational Media Centre for Asia (CEMCA). The *Handbook on Online Education in Commonwealth Asia* (2022) examines country and institutional policies for online education and assesses online education strategies in the various Asian commonwealth countries, and includes case studies, including of Brunei and UBD. AP Dr Masitah Shahrill led the country and institutional case study reports along with other key members from UBD, including Senior Professor Dr Glenn Hardaker, Mrs Hj Joana Hj Yacob (Deputy Registrar (Academic)) and Pg Dr Mohamad Iskandar Pg Hj Petra (Assistant Vice Chancellor for Academic Affairs and Senior Assistant Professor at FIT). See:


<https://www.cemca.org/ckfinder/userfiles/files/HandbookonOnlineEducationinCommonwealthAsiaByDrPanigrahiandDrPhalachandra.pdf>



New book on the scholar Sheikh Fadani by SHBIE academic

SHBIE's AP Dr Hj Gamal Abdul Nasir Hj Zakaria, with coauthor Dr Jannatul Husna Ali Nuar, has published a new book about the scholar of Hadith, Sheikh Fadani and his disciples in the Middle East, India, Pakistan and the Archipelago. The book, entitled *Kitab Hadith Arba'in Fadani: Karya Ulama Nusantara di Tanah Suci* is published by International Islamic University Malaysia (IIUM) Press & Universiti Sultan Syarif Ali (UNISSA), Brunei, and highlights a great ulama' of the Archipelago in the Holy Land. It discusses a phenomenal work of Fadani in the field of Hadith, namely *Kitab al-Arbaun Al Buldaniyyah* which contains 40 selected hadiths, which is the uniqueness of the book compared to other Arba'in hadith books.

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WALS 2021 Conference 29 Nov - 3 Dec 2021

Revisiting Lesson and Learning Studies:
Accessibility, Quality, and Sustainability

SHBIE Researchers feature at WALS Conference and Symposium 2021

SHBIE researchers engaged in a large-scale, multidiscipline funded research project on lesson/learning study, presented three papers at the recent international *World Association of Lesson Studies* online conference symposium, Nov/Dec, 2021, hosted by Hong Kong and Macau Universities.

The symposium chair was SHBIE's **Prof Keith Wood**, and included members of the SHBIE research team and international consultant, Professor Airi Rovio-Johansson, from Gothenburg University, Sweden. Three papers provided details of the findings of the Brunei research project which aims to test the effectiveness of learning/lesson study as a professional development model.

Dr. Hardimah Said presented a paper entitled *In-service science teachers' development through engagement with learning study*, which reported on teachers' action research projects in science and how the learning study programme had provided opportunities for them to explore what their students needed to learn to be successful, and how these could be taught successfully.

Dr. Siti Norhedayah Latif presented a paper entitled *Necessary conditions for primary mathematics teachers' professional development through learning study*. The paper reported on lesson study with two groups of primary mathematics teachers, focussing on the concept of angle, and word problems including 'how much/more than' and 'how much less/less than'. Learning study emerged as a valuable asset in the reflection and discussion around the object of learning for both groups of teachers, which led to a critical understanding and awareness of their students' common difficulties and raised different conceptions of the object of learning for them as teachers.

Dr. Juraidah Musa presented a paper entitled *Community of practice of ICT/computer science teachers through participation in learning study*. The paper reported on a learning study project with

secondary school ICT/computer science teachers in which they explored students' different understandings of the relationship between input and output devices, and identified critical aspects of what the students needed to learn. The paper showed how a learning study with a group of ICT/computer science teachers can be an effective approach to teachers' professional development.

In addition to the symposium, the WALS conference also featured parallel sessions. **Dr Nor Azura binti Hj Abdullah** presented a paper entitled *Process of valuing in lesson study*, which explored the values of primary school mathematics teachers during a lesson study professional development process. The paper reported an observable shift in values from teachers' planning to implementation stages. Teachers' lesson planning showed that they valued conceptual skills, process-oriented work and students' discovery. In practice, however, their classroom teaching actually emphasized procedural skills, product orientation, teacher's exposition and control. With the focus on values shift, the paper hopes to provide an insight for the adoption of lesson study in different cultural contexts. Dr Azura also presented a paper with Dr Haji Ade Shahren Haji Suhaili from the Brunei Darussalam Leadership and Teacher Academy, entitled *Lesson study adoption journey: Reflections from knowledgeable other and facilitator*, which presented an analysis using Boud's (1985) model of reflection to articulate their shared experiences and outcomes from lesson study implementation.

A PhD and Early Career Researchers Day was held before the conference start for researchers to share experiences in a group activity setting. **Dr Nor Azura binti Hj Abdullah** shared her experience of doing lesson and learning study for her PhD thesis while **Dr Hardimah Said** shared her experience in researching science teachers professional development through learning study.

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Collaboration on well-being research

Two members of SHBIE have completed the first phase of a collaborative research project with Brunei's Ministry of Education. Led by **Dr Siti Norhedayah Hj Abdul Latif** as Principal Investigator, and with **Fifi Faulina**, this project is funded by the Ministry of Education. The project aims to investigate the prevalence of mental well-being of adolescents in Brunei and establish a recognition of the needs in promoting healthy psychological functioning relevant to adolescent populations. The next phase of qualitative interviewing will give insights into exploring the support systems available for students in schools. The results will be published early 2023.

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The significance of mentors

Dr Adeline Goh and **Dr Desmond Tan** presented a co-authored paper at the annual *British Educational Research Association (BERA)* virtual conference, held 13th -16th September 2021. BERA is the leading authority on educational research in the UK, supporting everyone engaged in educational research both nationally and internationally. Their paper was entitled *The significance of mentors in creating an expansive learning environment in becoming a teacher* and was the outcome of funded research on improving workplace learning in teacher education. The paper discussed the role of mentors in supporting student teachers in an initial teacher training programme in Brunei, and has important implications for school partnerships in teacher education.

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SHBIE specialist as guest lecturer

SHBIE researcher and academic **Dr Siti Norhedayah Haji Abdul Latif** was invited as a guest lecturer at Universitas Sebelas Maret, Indonesia, to present on *Using Rstudio for data analysis*, in a series of sessions in November 2021. *RStudio* is an integrated development environment for *R*, a programming language for statistical computing. This was Dr Norhedayah's second series of presentations at USM.

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Best practices in peer counselling

Dr Hjh Salwa Dato Seri Setia Hj Mahalle presented a paper entitled *Peer counselling: Sharing best practices in Brunei Darussalam* at a webinar held on 7 April 2021, jointly organised by the Unit of Psychology and



Professor Carol Ann Tomlinson, keynote speaker at the TDW '21

SHBIE once again acted as co-organizer for the Teachers' Day Webinar (TDW), together with the Brunei Darussalam Leadership and Teacher Academy (BDLTA) and the Ministry of Education. The event was held virtually on 30th October 2021 with the theme *Empowering education excellence through innovation*. The keynote address was provided by Professor Carol Ann Tomlinson, William Clay Parrish Jr. Professor Emeritus at the University of Virginia's Curry School of Education. The title of her address was *An introduction to differentiating instruction: Why, what, and how*.

More than 600 teachers attended the webinar, which was followed by an online workshop in assessment for mentoring students, led by Professor Tomlinson for a selected group of educators. In addition to the one-day event, 18 pre-recorded paper presentations, scheduled during November 2021 as a mini-webinar series, formed part of 31st Teachers' Day events. The papers reported on research involving innovative practices in pedagogy, curriculum, and teachers' well-being.

Further details at <https://bdta.tech/tdc/>

Vocational Career College, Universiti Pendidikan Sultan Idris (UPSI), Malaysia and PERKAMA International Malaysia. The webinar, under the theme *Pembimbing Rakan Sebaya-Satu Perkongsian Amalan* focused on sharing best practices in peer counselling in Malaysia, Brunei and Indonesia.

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Conference on Islamophobia and the Muslim world

Dr Dyg Shamsinar binti Haji Hussain was invited as one of the international guest speakers for *The International conference on global consequences of Islamophobia and the Muslim world*, held 8-9 December, 2021. Her paper was entitled, *Islamophobia: The role of education in promoting tolerance and understanding and the impact of Islamic education on Muslims and Non-Muslims in Brunei Darussalam*. The conference was organized by Islamic Thought and Civilization (ITC), University of Management and Technology-UMT, Lahore, Pakistan in collaboration with the International Institute of

Islamic Thought and Civilization, International Islamic University Malaysia (ISTAC-IIUM).

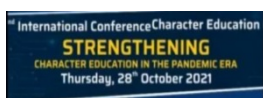
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Keynote speaker at SAKI 2021

Dr Hjh Salwa Dato Seri Setia Hj Mahalle was the keynote speaker at the international Seminar of Islamic Counselling (SAKI 2021), held on 15 September 2021, which focused on challenges in counselling arising from the Covid19 pandemic. Dr Salwa's keynote was entitled *Menangani isu-isu psikologi dalam kalangan pengasuh bagi pesakit strok semasa pandemik Covid-19: dari lensa psikospiritual* which addressed psychological issues among carers of stroke patients during the Covid19 pandemic, from a psychospiritual perspective.

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Character development during the pandemic

AP Dr Hj Gamal Abdul Nasir Hj Zakaria was the keynote speaker at the 2nd International Conference Character Education (ICCE), held on 28 October 2021 and organized by Universitas Sebelas Maret, Solo, Indonesia. The theme of the conference was *Strengthening character education in the pandemic era* and Dr Gamal's keynote address was entitled *The challenges of character education in Brunei Darussalam during the Covid-19 pandemic*.

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But mathematics is so hard!

Dr Nor Azura binti Hj Abdullah was invited by the central executive of the mathematics student association Indonesia, IKAHIMATIKA, to speak at their international seminar held online on 11 November 2021. The theme of the seminar was the *Role of mathematics as a queen and servant of science towards a golden Indonesia 2045*. Dr Azura's presentation had the provocative title "*But mathematics is so hard!*" and discussed the importance of mathematics in our everyday lives, the value of mathematics and the implementation of school mathematics in the Brunei context.

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Resource speaker PAFTE 21

Dr Roslinawati Mohd Roslan, Deputy Dean (Academic), was honoured to be asked to represent Brunei and SHBIE as one of the resource speakers for

the Philippines Association for Teachers and Educators (PAFTE Inc.) 50th National & 11th International Online Convention, 14-15 October 2021. Her presentation was on *Forming a PLC of educators, teachers & researchers for reflective teaching - The Brunei experience*. The convention was attended by about 16,000 teachers and educators from all over the Philippines, and also included resource speakers from Philippines, Singapore as well as Brunei over the 2 day event.

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APCCSID Conference chairing

Dr Hajah Sallimah Hj Mohd Salleh was invited to chair a parallel paper session at the *Asia Pacific Conference on Curriculum Studies and Instructional Designing* (APCCSID 2021), 3 October 2021. The conference was jointly organised by SEGi University, University of Malaya, IBE-UNESCO, APRACSI (Asia Pacific Research Association on Curriculum Studies), and APROCEI (Association of Professional in Curriculum and Educational Instruction), with the theme *Curriculum and instructional design for sustainable development*. The parallel session Dr Sallimah chaired focused on *Sustainability in provision of quality education*.

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SHBIE academic invited to give keynote at Oman conference

SHBIE's Deputy Dean (Research) **AP Dr Andrew Littlejohn** has been invited to give a keynote address at the conference *Current and Future Trends in ELT*, hosted by the Language Centre at the University of Technology and Applied Sciences in the Sultanate of Oman, on 17 March 2022. Dr Littlejohn will talk on shifts in classroom pedagogy which emphasise participatory classroom decision-making, and the findings from school research undertaken by SHBIE students in their MTeach Research Exercise module.

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SHBIE speaker at UNP symposium

Dr Hjh Salwa Dato Seri Setia Hj Mahalle was one of four invited speakers for the *3rd Progress in Social Science, Humanities and Education Research Symposium*, held online from 2-3 November 2021 and hosted by Universitas Negeri Padang, West Sumatra, Indonesia. Dr Salwa's presentation was entitled *Memanusiakan hubungan melalui jiwa sihat* (Humanizing relationships through a healthy soul).

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Islamic Malay studies in secondary schools

AP Dr Dr Hj Gamal Abdul Nasir Hj Zakaria was the keynote speaker at the 3rd *International Seminar on Adab and Humanities* organized by Universitas Islam Negeri Raden Fattah, Palembang, Indonesia from 20-21 October 2021. The theme of the seminar was *Islamic Malay studies: Challenges and opportunities*. Dr Gamal's address was entitled *Zikir Nation: Its implementation in secondary schools in Brunei Darussalam*.

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SELECTED RECENT SHBIE PAPERS

The full SHBIE recent publications list is now available online. Please visit

<https://shbie.ubd.edu.bn/research/>

Angraini, P., Prahmana, R. C. I., & **Shahrill, M.** (2021). The innovative learning of square and rectangle employing Macanan traditional Indonesian game. *Southeast Asian Mathematics Education Journal*, 11(2), 119-140.

<https://doi.org/10.46517/seamej.v11i2.129>

- Reports on an experiment to design learning activities utilizing the traditional Indonesian game, Macanan, to help 4th grade students understand the geometry concepts of perimeter and area of squares and rectangles. The results demonstrate that Macanan can be a context for learning which is enjoyable and easy to understand. This may be particularly useful for teachers in remote areas.

Goh, A.Y.S. and Lim, A.D. (2021). Reconceptualising dentist learning – A commentary. *European Journal of Dental Education*. 00, 1–4.

<https://doi.org/10.1111/eje.1274>

- Discusses the assumptions inscribed in contemporary models for continuing professional development (CPD), and aims to stimulate a discussion on widening perspectives for dentists' professional learning and the implications for CPD.

Hardini, R. M., Prahmana, R. C., Akib, I., & **Shahrill, M.** (2021). Learning social arithmetic of low ability students through the context of snacks and money. *Indonesian Journal on Learning and Advanced Education*, 4(1), 21-33.

<https://journals.ums.ac.id/index.php/ijolae/article/view/14308>

- Aims to determine the role of Indonesian Realistic Mathematics Education (IRME) in improving students' mathematical cognitive abilities in social arithmetic. Data was collected from a 7th grade junior high school student. The results showed that the IRME approach,

with snacks and money as contexts, improved the student's mathematical understanding, and can make learning an easier and more pleasurable experience.

Littlejohn, A. (2022). The analysis and evaluation of language teaching materials. In Norton, J. and H. Buchanan. *The Routledge Handbook of Materials Development for Language Teaching*. Routledge.

- A state of the art review of approaches to the analysis of language teaching materials and their evaluation for a particular context of use. The chapter raises concerns about the subjective nature of some approaches to analysis and problems associated with materials evaluation procedures, and provides recommendations. The chapter concludes with some possible future directions for analysis and evaluation.

Littlejohn, A. (Forthcoming, 2022). Dialogue and Neoliberalism: Alternative conceptions for the second language classroom. *Critical Inquiry in Language Studies: Special Issue on Alternatives to Neoliberalism*.

- Reviews how conventional uses of dialogue in language teaching can facilitate a neoliberalist agenda, and discusses alternative conceptualizations. The paper argues that neither 'Dialogue as an opportunity for natural language acquisition/Task-based learning' nor 'Dialogue as exploratory talk/dialogic teaching' can offer effective alternatives to the pressure to replicate neoliberalist thinking in language teaching. The paper argues for a third alternative, 'Dialogue as emancipatory pedagogy/negotiated classroom work' with examples of how this can be implemented.

Rahman, I. & **Johari, M.** (2022) Students' understanding and skills on voltage and current measurements using hands-on laboratory and simulation software. *Education and Information Technologies*. <https://doi.org/10.1007/s10639-022-10890-3>

- Mixed methods research to determine the effectiveness of hands-on and simulation laboratories in developing prospective technicians' conceptual knowledge and skills in using an electrical measuring device.

Shahrill, M., & Hardaker, G. (2022). Chapter 2 Commonwealth Asia: Country Case Study Reports – Brunei Darussalam. In M. R. Panigrahi, & P. Bhandigadi (Eds.), *Handbook on Online Education in Commonwealth Asia* (pp. 31-48). Commonwealth Educational Media Centre for Asia (CEMCA). <https://www.cemca.org/ckfinder/userfiles/files/HandbookonOnlineEducationinCommonwealthAsiaByDrPanigrahiandDrPhalachandra.pdf>

- See news story for details.

Shahrill, M., Hardaker, G., Yacob, J., & Petra, M. I. (2022). Chapter 3 Commonwealth Asia: Institution Case Study Reports – Universiti Brunei Darussalam. In M. R. Panigrahi, & P. Bhandigadi (Eds.), *Handbook on Online Education in Commonwealth Asia* (pp. 177-194). Commonwealth Educational Media Centre for Asia (CEMCA).

<https://www.cemca.org/ckfinder/userfiles/files/HandbookOnlineEducationinCommonwealthAsiaByDrPanigrahiandDrPhalachandra.pdf>

- See news story for details

Tsng, Shu Yun, **Masitah Shahrill & Siti Norhedayah Abdul Latif.** (2021). Exploring the effects and students' views on the use of a tic-tac-toe game to teach mathematics in Brunei Darussalam. *The International Journal of Science, Mathematics and Technology Learning* 29 (1), 49-65.
<https://doi.org/10.18848/2327-7971/CGP/v29i01/49-65>

- Investigates the effects of game-based learning on year 9 students' mathematics performance on the topic of ratios, rates, and proportions. The study suggests that tic-tac-toe encourages critical thinking, promotes communication skills, and constructs an interactive learning environment for students.

Wood, K. & Andrew, V. (forthcoming, 2022). The Development of Teachers' Pedagogical Content Knowledge through Learning Study. *Asia Pacific Journal of Education: Special issue: Research-Practice Partnership through Lesson Study in Asia.*

- Reports on a learning study focused on the teaching and learning of the economic concept of price, undertaken by a group of secondary school teachers over a period of nine weeks. For a majority of the

teachers, the experience of the study provided them with an opportunity to gain insights into the ways their students became able to experience price in a more powerful way as a result of the patterns of variation incorporated in the research lesson designs.

Yussop, M. A. H., **Shahrill, M., & Abdul Latif, S. N.** (2021). Self-reliant learning strategy in vocational and technical education: Insights from group collaboration. *International Journal of Social Learning (IJSL)*, 1(3), 283-303.

<https://doi.org/10.47134/ijsl.v1i3.73>

- Investigates the effectiveness of a self-reliant learning strategy in improving students' performance in descriptive statistics. Findings show that the self-reliant learning strategy had a positive impact on the students' performance in their learning of descriptive statistics and that group work activities improved students' learning skills, especially in planning, monitoring, and evaluating their course of learning on their own.

Yusof, N. A., & **Shahrill, M.** (2021). The effects of non-digital game-based learning on students' mathematical perspectives and achievements. *Southeast Asian Mathematics Education Journal*, 11(1), 25-39.

<https://doi.org/10.46517/seamej.v11i1.113>

- Investigates the effectiveness of a non-digital game-based learning approach with secondary school students of mathematics, and their perspectives on this. The results show that the integration of non-digital game-based learning did have a positive effect on the students' achievement scores and that more than half of the students believed that the game had helped them to improve their skills.

Missing out on previous issues of SHBIE Research News?

No problem! All previous issues are available on the SHBIE website:

<http://shbie.ubd.edu.bn/research-news/>

For enquiries about SHBIE Research News, or to join our mailing list, please contact the editor, AP Dr Andrew Littlejohn
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Proof readers for this issue were Dr Juliana Shak and AP Dr Masitah Shahrill.

