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# IVCESTI 2022

The International Virtual Conference on Education,  
Science, Technology and Innovation



**21 June 2022**

# BOOK OF ABSTRACTS

# WORKSHOP AND CONFERENCE SCHEDULE 20-21 June 2022

<b>20 JUNE 2022</b> Zoom Meeting ID: 585 277 4323 Passcode : 123456	<b>Workshop Manuscript and Publication for Presenter</b>
<b>09.00 - 10.00AM (IND)</b> <b>10.00 - 11.00 AM (MAS)</b>  <b>10.00 - 11.00AM (IND)</b> <b>11.00 AM - 12.00 PM (MAS)</b>  <b>11.00 AM - 12.00PM (IND)</b> <b>12.00 - 13.00 PM (MAS)</b>	<b>Workshop Manuscript</b> - Academic Writing Rima Pratiwi Fadli, M.Pd  <b>Publication Tools</b> - Citation Manager & Journal Template Dr Sharifah Nurulhuda Tuan Mohd Yasin,  <b>Practice</b>
<b>21 JUNE 2022</b> Zoom Meeting ID: 851 1465 9885 Passcode : 123456	<b>Conference</b>
<b>08.00 - 08.30 AM (IND)</b> <b>09.00 - 09.30 AM (MAS)</b>	Opening Ceremony <b>Mc. Nur Shazwani binti Shuhami</b> Doa Indonesia Raya Negara Ku
<b>08.30-09.00 AM (IND)</b> <b>09.30-10.00 AM (MAS)</b>	Opening Speech Directress of Research and Innovation IICET <b>Yola Eka Putri, S.Pd, M.Pd, CM, NNLP</b>
<b>09.00.-10.00 AM (IND)</b> <b>10.00- 11.00 AM (MAS)</b>	<b>Keynote Speaker - Dr Hj Mohd Daud bin Isa</b> Moderator: Efni Cerya, S.Pd, M.Pd.E
<b>10.00-11.00 AM (IND)</b> <b>11.00 AM- 12.00 PM (MAS)</b>	<b>Invited I: Dr. Zadrian Ardi, M.Pd, Kons</b> Moderator: Ts Dr Sharifah Nadiyah binti Razali
<b>11.00AM -12.00PM (IND)</b> <b>12.00 PM - 01.00 PM (MAS)</b>	<b>Invited II: Assoc Prof Dr Harwati Hashim</b> Moderator : Phyu Sin Yadanar Thein
<b>BREAKOUT SESSION I</b> <b>12.00AM -14.00PM (IND)</b> <b>13.00 PM - 03.00 PM (MAS)</b>	

**02.00 - 03.00 PM (IND)**  
**03.00 – 04.00 PM (MAS)**

**Invited Dr Ilyasu Hassaini**  
Moderator : Syafawati Noorhafizah binti Adnan  
Adil

**03.00 – 04.30 PM (IND)**  
**04.00 – 05.30 PM (MAS)**

**Parallel Session I**  
**Room 1 | Moderator:** Dr Aspalilla binti Main  
Zoom Meeting ID: 851 1465 9885  
Passcode : 123456  
  
**Room 2 | Moderator:** Ts Ilya binti Ismail  
Zoom Meeting ID: 851 1465 9885  
Passcode : 123456  
  
**Room 3 | Moderator:** Berru Amalianita, M.Pd  
Zoom Meeting ID: 851 1465 9885  
Passcode : 123456  
  
**Room 4 | Moderator:** Rima Pratiwi Fadli, M.Pd  
Zoom Meeting ID: 862 5217 1778  
Passcode : 123456

**04.30-05.00 PM (IND)**  
**05.40-06.00 PM (MAS)**

Closing - MC

# PARALLEL SESSION

Please Join to Zoom and Name Format → **Room\_X\_Your\_Name**

## Parallel Session I

21 June 2022

**03.00 – 04.30 pm (IND)**

**04.00 – 05.30 pm (MAS)**

### Room 1 |

**Moderator:**

Dr Aspalilla binti Main

#### **Breakout Room 1**

Zoom Meeting ID: 851 1465 9885

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### Room 2 |

**Moderator:**

Ts Ilya binti Ismail

#### **Breakout Room 2**

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### Room 3 |

**Moderator:** Berru Amalianita, M.Pd

#### **Breakout Room 3**

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Passcode : 123456

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### Room 4 |

**Moderator:**

Rima Pratiwi Fadli, M.Pd

#### **Room 4**

Zoom Meeting ID: 862 5217 1778

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**A Study On Temperature Effect Of Abs Filament Extrusion Process For Fused Filament Fabrication.**

*Kamarudin, Raman.I*

Universiti Tun Hussein Onn Malaysia, Pagoh Higher Education Hub, Panchor, 84600, Muar, Johor, MALAYSIA, Politeknik Merlimau Melaka, Melimau, Melaka, MALAYSIA

**Abstract**

Abstract: The study highlighted the effect of temperature on the processing of ABS filaments for Fused Filament Fabrication (FFF) by using an extruder machine. ABS from SONGHAN Plastic Technology (China) pellets were selected to produce filament Desktop Filament Extruder machine. The range temperature of 220°C to 270°C was selected to produce the filament. The ABS specimens have been produced according to ASTM standards (D638 and D256) for the tensile and Izod impact test. The 3D printers can print filaments at 220°C, 230°C, or 240°C. The material's mechanical properties were also studied, including Ultimate Tensile Strength (UTS), Young's Modulus, Impact Strength, and Impact Energy. As a result, the filament extrusion temperature at 220°C showed the best in the mechanical properties test.

Keyword : Rapid Prototyping, extrusion temperature, filament fabrication, mechanical properties  
Topic : Technology

**Student Challenges in online learning in English courses during the covid 19 pandemic**

*Ketut Susiani, Ida Bagus Putu Arnyana, Nyoman Dantes*

Universitas Pendidikan Ganesha, Universitas Pendidikan Ganesha, Universitas Pendidikan Ganesha

**Abstract**

Learning that is becoming a trend during the COVID-19 pandemic is online learning. Online learning is carried out using the help of hardware in the form of a laptop or computer, and software in the form of applications such as zoom, as well as a stable internet network. This study aims to determine the challenges faced by students in learning English for students majoring in non-English languages online. The subject of this study involved Universitas Pendidikan Ganesha students using the questionnaire method for as many as 412 students and interviewing 15 students with a total of 17 questions. The results of this study indicate that there are several challenges faced by students during online learning; (1) Less familiarity with online learning as shown by 31% of students agreeing that online learning is a new learning method, (2) psychologically 30% of students choose strongly agree that they have limited opportunities to interact directly and freely with lecturers as well as with students, (3) Limited facilities and infrastructure as much as 28% agree that the budget is limited to get quota or internet credit, (4) Limited internet access as many as 35% of students do not have good internet coverage to take online lectures. The findings of this study should be a reference for English lecturers to continue learning to innovate in providing online English learning by considering the existing challenges.

Keyword : English, online learning, student challenges  
Topic : Education

## The Development of Intelligent Solid Waste Trap Machine Using Arduino UNO

*Zubaidah Abdul Rahman*

Politeknik Kuala Terengganu

### **Abstract**

Poor drainage system in Malaysia is not a newly phenomenon among our society. The unethical activities of dumping rubbish into the drain, literally causing the flash flood due to clogged drains, in particular within the urban areas. The Intelligent Solid Waste Trap Machine Using Arduino is designed to collect rubbish in the domestic drain and capable in collecting rubbish up to capacity of 10kg. This automated machine is 50% mechanics and 50% electronics, functioning based on two microcontrollers. This waste trap machine is the most reliable and effective for promoting the sustainable drainage management in Malaysia at a lower cost. By adding IoT to this machine in future, some manual process can be carried out remotely. Thus, it helps local authorities to collect data on the trend of dumping into drains in certain areas.

Keyword : Waste trap, Rubbish, Drainage, Solid waste management  
Topic : Innovation

**Application of RFID Attendance System**

*Norlia Embong*

Politeknik Kuala Terengganu

**Abstract**

This project was developed to obtain student attendance through student cards using the Radio Frequency Identification (RFID) system. Before this lecturer needs to use paper to get the student attendance. There was a lot of problems which is students can cheat by attending lectures when using the paper. This project can help lecturer to reduce such problems by automatic designing attendance using RFID and student card. The design has four main parts: input section (RFID tag and RFID reader), control section, power section and display unit. All simulations were performed using the MPLAB X IDE and PROTEUS software. The results obtained show that the lecturer can take the presence of students in the classroom. When students entering the classroom need to swipe the student card (RFID tag) near the externally connected reader to the microcontroller based on the embedded system, the system gives access to registered students and stores attendance information on the PC database and can print it. In conclusion, RFID technology can be used in student attendance applications.

Keyword : Attendance, Radio Frequency Identification (RFID), RFID Tag, RFID Reader.

Topic : Technology

## Development and Use of Collaboration Database Management System

*Zubaidah Abdul Rahman, Siti Sarah Malini Mohd Hanifa, Rasmaliza Rashid*

Politeknik Kuala Terengganu, Politeknik Kuala Terengganu, Politeknik Kuala Terengganu

### **Abstract**

e-Collab8 is a centralized system that helps manage collaboration information at Politeknik Kuala Terengganu (PKT). The system allows responsible users to perform information management online. The problem faced by the management is that the data of the companies conducting the collaboration is not stored centrally in one database and is difficult to access at any time. The objective of this project is to collect records of the number of industries working with PKT and can be accessed by any officer in charge. In addition, collaboration activities can be updated at the departmental and unit level, subsequently reports can be generated for top management needs. The display of company activity status can also be viewed in real time by all users. The research method used is prototype methodology. In conclusion, the e-Collab8 system can help responsible officers and other users to access information related to collaboration easily and quickly.

Keyword : Database, Database Management System, Prototype Methodology  
Topic : Technology

## **The Effect of Tri Hita Karana's Habituation on Academic Honesty and Social Honesty in Students**

*I Gusti Agung Ayu Wulandari, I Wayan Lasmawan, Ni Ketut suarni, I Gede Margunayasa*

Universitas Pendidikan Ganesha, Universitas Pendidikan Ganesha, Universitas Pendidikan Ganesha, Universitas Pendidikan Ganesha

### **Abstract**

The aims of this study were: (1) to describe the effectiveness of THK habituation on students' academic honesty, (2) to describe the effectiveness of THK habituation to the effect of student social interactions, (3) to describe the joint THK habituation towards academic honesty and honesty. student social. The population in this study found 296 students, with a randomly selected sample of 56 students who were divided into two classes. The data collection method used non-test, with a questionnaire instrument. The data obtained were analyzed using Manova, and the results of hypothesis testing showed that: (1) F was 18.234,  $df = 1$ , and  $Sig = 0.000$ . This means that the significance is smaller than 0.05, so  $H_0$  is rejected and  $H_a$  is accepted, which means that there is an influence in the academic environment between students who take THK habituation and students who follow regular habituation, (2) F of 21,421,  $df = 1$ , and  $Sig = 0.000$ . This means that the significance is smaller than 0.05 so that  $H_0$  is rejected and  $H_a$  is accepted which includes differences in social differences between students who follow the THK habituation and students who follow the usual habituation; (3) p is less than 0.05

Keyword : THK habituation, Academic Honesty, Social Honesty  
Topic : Education

## **The Effect of Mind Mapping Technique on Critical Thinking Skills and Creativity of Elementary School Students**

*Ni Putu Candra Prastya Dewi*

Universitas Pendidikan Ganesha

### **Abstract**

This study aims to 1) determine the effect of mind mapping on critical Thinking Skills and creativity of elementary school students, 2) determine the effect of mind mapping technique on critical Thinking Skills of elementary school students, 3) determine the effect of mind mapping technique on the creativity of elementary school students. Type of this research is a quasi-experimental research. The population of this study was the fifth grade elementary school students in Sukasada sub-district is 164 students for total amount, consisting of 7 elementary schools. The sampling technique was carried out by random sampling technique. The sample in this study amounted to 52 students, namely fifth grade students at SDN 3 Panji and SDN 4 Panji. The design of this study used posttest-only control group design. The research was conducted by giving treatment in the form of mind mapping application to the experimental group, while there was no treatment in the control group. Data collection techniques used critical Thinking Skills tests and creativity rubric to make mind map. Data analysis was carried out with multivariate analysis of variance. The results of this study indicate that 1) the mind mapping technique affects the critical Thinking Skills and creativity of elementary school students, 2) the mind mapping technique affects the critical Thinking Skills of elementary school students, 3) the mind mapping technique affects the creativity of elementary school students.

Keyword : mind mapping technique, critical thinking, creativity  
Topic : Education



## **Sun Tracking Solar Panel**

*Nur Syamilaini Binti Mohd Hasni, Zubaidah Binti Abdul Rahman, Mohd Hafizuddin Bin Ibrahim*

Politeknik Kuala Terengganu

### **Abstract**

Solar panels have been widely used in recent years in converting solar energy to electrical energy. To maximize the conversion of solar energy to electrical energy, the solar panel should always be in a position perpendicular to the sun. The main goal of this project is to design a solar tracking system that can detect the position of the sun in turn converting and storing solar energy to electrical energy to the maximum. In this project, the solar tracker moves 60 degrees from east to west and vice versa. The project involves the development of hardware and software for simulation testing. The system consists of Arduino Uno, servo motor, Light Dependent Resistor (LDR) as sensor and solar panel. The impact of this project can reduce operating costs for the production of electricity using fuel.

Keyword : Solar panel

Topic : Innovation

**Development and Use Frame of Programme Management System for Organisation**

*Siti Sarah Malini Bt Mohd Hanifa, Zubaidah Bt Abdul Rahman, Rasmaliza Bt Rashid*

Politeknik Kuala Terengganu, Politeknik Kuala Terengganu, Politeknik Kuala Terengganu

**Abstract**

The frame of Programme Management System for organisation is an online system which has basic functions to manage information about certain program. These include courses, workshop or event, participant's information such as attendance, as well as generating document, for example certification of attendance and report for organisation. In fulfilling problem statement for attendance, it is not available since it cannot be administered face to face due to pandemic Covid'19. Next, it is costly to print certificate for participants and it also involved postage cost. Lastly, difficulty in getting the updated list of participants. The objectives of this project are to design, develop and implement an online system in real situation. Methodology used is Prototype, whereby the developing of system is simultaneously administered with the implementation. In conclusion, this project helps organisation to run programmes smoothly.

Keyword : system framework, management system, manage information, programme management system  
Topic : Technology

**Development and Use of My Balas Bag Online System (MBB)**

*Rasmaliza Bt Rashid, Siti Sarah Malini Bt Mohd Hanifa*

Politeknik Kuala Terengganu, Politeknik Kuala Terengganu

**Abstract**

The My Balas Bag Online System (MBB) is an online platform for recording the accumulation of reward points received by customers who buy in small shops without using plastic bags. The problem statement is that customers are less aware of the dangers of using disposable plastic bags. The second problem is because there is no encouragement from retailer grocery to customers not to use plastic bags and retailer grocery do not have an affordable platform or tools as an initiative to record the accumulation of reward points given to customers who buy without plastic bags. The objectives of this project are to design, develop and implement an online system in real situation. Methodology used is Prototype, whereby the developing of system is simultaneously administered with the implementation. In conclusion, this project helps to reduce using of plastic bag while buying goods.

Keyword : token management system, database management system, prototype  
Topic : Technology

**Development of Board Game as Teaching Aids for Basic Electronic Courses**

*Zubaidah Abdul Rahman, Rasmaliza Rashid, Siti Sarah Malini Mohd Hanifa*

Politeknik Kuala Terengganu, Politeknik Kuala Terengganu, Politeknik Kuala Terengganu

**Abstract**

A variety of teaching methods can help increase students' interest and focus on a subject. A game -based learning approach is suitable to be used by students for them to enhance their problem solving skills directly or indirectly during the game session. The students have difficulty remembering and understanding the symbols, structures and functions of electronic components causing them failed to answer assessment questions well. This teaching aids are specifically designed to enhance students' understanding of basic electronics courses that have a variety of name, symbols, structure and functions to remember. Also suitable use during learning sessions because it can increase students' understanding through rapid learning and revision while playing. Due to limited electronic-based board games in the market, The Components was suggested as one of the learning tools, especially in the field of electrical engineering.

Keyword : Board game, Teaching aids, Gamification  
Topic : Education

**The Implementation Of Character Education Based On Diagnostic Assessment In The Formation Of Social Attitudes Of Elementary School Students In Grade IV**

*I Komang Muliantara*

Universitas Pendidikan Ganesha

**Abstract**

This study began with the low social attitudes of students in grade IV of elementary school. This study aims at investigating the process of implementing character education based on diagnostic assessment in the formation of social attitudes of elementary school students in grade IV, what social attitudes were instilled, and how the character education was assessed. This research is qualitative descriptive research. The methods of collecting data included observation, interviews, and documentation. The results of this study showed that: (1) the process of implementing character education based on diagnostic assessment in the formation of social attitudes of elementary school students in grade IV was conducted by integrating character education and instilling character values in every learning that took place so that students' social attitudes could be formed, (2) the social attitudes formed included: honesty, responsibility, tolerance, mutual cooperation, politeness, and self-confidence, (3) the assessment conducted by the teacher used attitude observation sheets, which included self-assessment, peer assessment, observations, and journals.

Keyword : Character Education, Diagnostic Assessment, and Social Attitude  
Topic : Education

**Assessing School Readiness: Study of Early Childhood Educator and First Grade Elementary School Teachers**

*Putu Rahayu Ujianti*

Universitas Pendidikan Ganesha

**Abstract**

Increasing children's school readiness is important for later achievement. Transition phase from kindergarten to elementary school is influenced by several factors. only parameter formally used in Indonesia according to government regulation to assess school readiness is basic age, which is 7 years old, while in fact the development of each child is different. This study aimed at investigating aspects which affect children readiness to attend elementary school. The subjects were kindergarten educator and primary teacher. The data were collected through interview and analysed using qualitative techniques. The results of the study show there are some aspects of child development affecting their readiness to elementary school, and there are certain demands from elementary school teacher in basic reading and writing skill as well as children's autonomy in order to the child to be success at transition period from kindergarten to elementary school.

Keyword : school readiness, assessment, early childhood educator, first grade teacher

Topic : Education

## **Tinkercad Simulation Tool to Optimize Online Teaching and Learning in Embedded Internet of Things**

*Norhidayuwati Abu Husin, Mastura binti Ramli, Diana binti Mohd Alwi*

Politeknik Muadzam Shah, Politeknik Muadzam Shah, Politeknik Muadzam Shah

### **Abstract**

The epidemic of Covid-19 has had an impact on many industries, including education. Institution of higher learning education closures have brought significant disruptions to education. One of the limitations of emergency remote learning is the lack of personal interaction between teacher and student. Innovation and implementation of alternative educational systems and assessment methodologies are urgently needed. The purpose of this study is to examine students' experiences (people, interaction, and time) during online teaching and learning at Polytechnic Muadzam Shah utilising Tinkercad simulation software for Embedded Internet of Things subject. The study method applied was a qualitative approach based on Miles and Huberman's interactive model. The result of this study, student able to design circuits and implement programming using Tinkercad simulation software. Most student showed positive response and good competencies or skills, well to write programming code when using Tinkercad simulation software. Therefore, the usage of new approach in online teaching and learning can fulfil the expected progress in learning performance in Embedded Internet of Things subject with no obstacles experienced by students. The Covid-19 epidemic has provided an excellent opportunity to pave the way for digital learning.

Keyword : Online learning, simulation  
Topic : Education

**A Survey on Students' Perception on the Effectiveness of Online Learning in Communicative English Classes among PKT students.**

*Hazian Ismail, Aida Fazlin Hisham, Norkatyniy Ismail*

Politeknik Kuala Terengganu, Politeknik Kuala Terengganu, Politeknik Kuala Terengganu

**Abstract**

The pandemic Covid19 has caused conventional system of education which is focusing on physical classroom and face to face interaction between educators and students to alternately change into virtual learning process. The study was conducted to review on the students' perception of the effectiveness of online learning in Communicative English class among Polytechnic Kuala Terengganu students. A set of questionnaires was used as a data collection tool to 61 respondents. The sampling was Electrical and Electronics Engineering students who took Communicative English Courses. The data was analyzed using SPSS version 20.0. The findings revealed that most of the respondents agreed on the effectiveness of online learning in Communicative English Classes, with the mean value 3.2. The mean score for lecturer-student engagement, students' concentration and motivation and online assessments were interpreted at medium high level. It concluded that students were having good perception at the effectiveness of online Communicative English class implementation. These findings are significant as to support the lecturers and institution in designing more applicable online teaching and learning approaches. However, it is recommended for further researches in the same area involving more sample of respondents, including the other English course.

Keyword : Online learning, Communicative English, students' perception  
Topic : Education



## **Augmented Reality Mobile Application for English Vocabulary Learning of Children with Mild Autism: It's Potential and Worth**

*Haida Umiera Hashim, Melor Md Yunus, Helmi Norman, Harwati Hashim*

Academy of Language Studies, Universiti Teknologi Mara (UiTM Shah Alam), Faculty of Education, Universiti Kebangsaan Malaysia, Faculty of Education, Universiti Kebangsaan Malaysia, Faculty of Education, Universiti Kebangsaan Malaysia

### **Abstract**

American Psychiatric Association defined autism spectrum disorder as a neurological disorder in which diagnosed children may face difficulty in social communication or have a repeated or restricted set of behaviours. Learners with autism are mostly visual strategy learners and they tend to learn better through pictures and images. Due to their cognitive disabilities, most learners with autism struggle to acquire new vocabulary and with the existence of the Fourth Industrial Revolution, the use of technology is no longer a stranger to the education field. The use of augmented reality technology has proven to be helpful in providing autism learners with a more meaningful learning session. Therefore, an augmented reality mobile application named 'AReal-Vocab' is designed and developed to help children with mild autism in their English vocabulary learning. The developed mobile augmented reality application then later employed to 6 mild autism children to discover to what extent the designed and developed augmented reality mobile application helps to assist them in their English vocabulary learning. Findings have gathered that AReal-Vocab mobile application has given an impact in children with mild autism's English vocabulary learning. Not only AReal-Vocab has helped mild autism children to learn English vocabulary in a more interesting yet.

Keyword : Augmented Reality, Autism, English Vocabulary, Technology, Vocabulary,  
Topic : Education

## Civil Servants' Well-Being and the Role of the Ecological System Theory

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### Abstract

The quality of life has been debated since the Tenth Malaysia Plan. It continues to be a vital aspect of the Eleventh Malaysia Plan to improve the community's living standards in line with Vision 2020 based on the Malaysian People's Well-Being Index (IKRM), which was first used in 2012. In general, well-being is a psychological (internally) form involving happiness, life satisfaction, self-esteem, self-efficacy, family life, employment, education, and finance. Well-being issues will continue to be discussed, especially in the context of civil servants being associated with success at the professional, personal, and interpersonal levels, with competent individuals showing higher productivity in the workplace, more effective learning, increased creativity, more behavior prosocial, and positive human relationships. Thus, this paper discusses the status of civil servants in Malaysia, the ecological system theory, and related past studies. Well-being is a dynamic process that will add value to human beings on how their lives can evolve positively or otherwise. Well-being is usually assessed from a psychological point of view which covers cognitive and affective aspects. These elements are an accurate measure to the individual to help towards well-being in life. This review can influence well-being by several key factors: physical health, quality of life,

Keyword : ecological system theory; happiness; life; quality; well-being  
Topic : Education

## The Shaping Process of Islamic School Leavers in Learning English via Blended Approach

*Nursyuhada Ab Wahab, Harwati Hashim, Melor Md Yunus*

UKM, USIM, UKM, UKM

### Abstract

A lot of tertiary education institutions have adopted blended learning as a method of teaching and learning including the delivery of English language courses. The transition from the conventional method used in school to the blended learning approach in the university made the learners' learning journey not only interesting, meaningful and enjoyable but worth exploring. Unfortunately, there are still less proficient learners who are hesitant and unmotivated to learn the language besides struggling with the other core courses in the university. Therefore, this study aims to unravel the shaping process of one group of Islamic school leavers who were uninterested in learning and had a negative mindset and attitude toward learning English but they possessed special traits that made them special to be explored. The participants were 12 first-semester students with low proficiency learning an English course in a public university through a blended approach. The qualitative approach has been used to gather data for this study with two main methods; interviews and document analysis. The data collected was analysed thematically and to suit the main objective of this article, which is to focus on the process, it used the narrative analysis of each participant in learning the English language course. The findings revealed that this special group of learners went through the same processes which were, (1) the difficult stage, (2) the implementation stage and (3) the transformation stage. This study also reported a fecund finding to the body of literature that with the right approach, enough guidance and support, as well as the strong will of the learners to learn, they managed to be transformed into better language learners despite the many struggles that they faced. This study sheds light on many parties, like the language educators to plan their lessons and activities in both face-to-face and online contexts, the policymakers who outline the right curriculum and approach to be implemented, and students to choose the right learning strategies.

Keyword : Blended learning, English Language Teaching and Learning, ESL in higher education, Islamic school students, shaping process  
Topic : Education

## Exploring TESL Pre-service Teachers' Active Learning and Participation: A Look into Service-Learning in Teacher Training Program

*Fetylyana Nor Pazilah, Harwati Hashim, Melor Md Yunus*

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### Abstract

As our world has become more digitalized, challenges are occurring left and right, especially in the education field. Educating future teachers is becoming more challenging as the weight and scope of the responsibilities that teachers and educators are expected to grow. In gaining quality teachers, there is a need to train future educators to have the ability to adapt to the ever-changing technology and global changes. Hence, implementing service-learning in the teacher training program is vital as it provides the opportunity to engage and experience 21st-century real classroom lessons. However, there is still a gap in discussing service-learning effectiveness, particularly in active learning and participation. Hence, this study aims to investigate the TESL pre-service teachers' perceptions of service-learning in terms of active learning and participation. A qualitative method was used to investigate the TESL pre-service teachers' perceptions through open-ended questions. A total of 54 TESL pre-service teachers were involved in this study. The results showed that the TESL pre-service teachers were able to achieve active interaction with real-life students, promote independent learning and encourage creativity and technology use among TESL pre-service teachers. It is hoped that teacher education institutions can benefit from this study in understanding the significance of service-learning

Keyword : Active learning, participation, TESL pre-service teachers, service-learning, teacher training.

Topic : Education

**Utilisation of M-Learning in Mastering Spelling**

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**Abstract**

The mastery of spelling is essential to progress in the English Language. This is because spelling forms the basis for developing literacy skills. However, primary school ESL pupils are struggling to learn to spell. There are various factors influencing the pupils' difficulties in spelling. In order to improve their mastery of spelling, a new teaching approach should be employed, parallel to Information and Communication (ICT) in the 21st century teaching and learning. Following, using technological devices and applications such as m-learning becomes useful to transcend knowledge. This review discusses the challenges in the mastery of spelling and measures to overcome the challenges in the mastery of spelling via m-learning. This review is beneficial for primary school ESL teachers to comprehend and apply the various approaches in the utilisation of m-learning to ensure their pupils' mastery of spelling as well as identify the research gaps in the utilisation of m-learning in mastering spelling.

Keyword : 21st Century Teaching and Learning, M-Learning, Mastering Spelling,  
Primary School ESL Pupils, Primary School ESL Teachers  
Topic : Education

## Designing Mobile English for STEM: A Review of Instructional Designs

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### Abstract

The emerging trend of education in embracing mobile learning is irrefutable. Mobile learning has become a panacea to unexpected situations such as the Covid-19 pandemic. Due to that, a lot of educators designed mobile learning instructions to cater to their students' needs. However, the wide variety of instructional design models caused confusion and difficulties for educators, especially English as Second Language (ESL) educators, to design practical instructions via a mobile application. Therefore, this paper aims to review the instructional design models in creating a mobile application, particularly for language learning. Five instructional design models were reviewed, which include 1) Merrill's Principles of Instruction Model, 2) Gagne's Nine Events of Instruction Model, 3) The Kemp Instructional Design Model, 4) The ADDIE model, and 5) The ASSURE model. Each model has its strengths and weaknesses. From the review, each model is also suitable for specific contexts. This paper implied that instructional designs are crucial as they provide step-by-step guidelines for educators or content developers in creating the materials or tools for learning. With the aid of instructional design, a content developer could plan the content creation systematically for a better learning outcome.

Keyword : English as Second Language (ESL), instructional design, language, mobile learning  
Topic : Education

## **Factors Affecting ESL Learners' Participation through the Integration of Padlet**

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Education, Universiti Kebangsaan Malaysia, Selangor, Malaysia

### **Abstract**

Learners' participation is one of the factors supporting teaching and learning sessions in the classroom. Learners' participation, involvement, and interaction are the most vital element in creating a conducive classroom, particularly for tertiary learners. In line with the usage of teaching resources in this digital age, the implementation of technology in a classroom gives a positive impact that can assist with the participation of learners in a classroom. Hence, the purpose of this study is to identify factors affecting learners' participation in using Padlet for learning ESL and their perception of the benefits and challenges of using Padlet in enhancing English language learning. A set of questionnaires was distributed to 100 ESL tertiary learners in one of the private colleges based in Sabah, Malaysia. The data were collected using questionnaires through google form and then analysed using descriptive statistical analysis. According to the findings, it was indicated that the factors of motivation, learning engagement, and usefulness influenced learners to participate in ESL classroom lessons and activities. Similarly, the findings showed a positive view of the perception of using Padlet as a learning tool in the ESL classroom.

Keyword : Learners' Participation, ESL Classroom, Tertiary Learners, Engagement  
Topic : Education

## Virtual Reality in Developing English Communication Skills: A Case Study in a Malaysian Secondary School

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Faculty of Education, National University of Malaysia, Faculty of Education, National University of Malaysia, Faculty of Education, National University of Malaysia

### Abstract

Despite the long years of formal English language learning, many Malaysian students are still weak at using the language and they face issues in their employment due to poor English communication skills. Although language teachers put much effort into improving students' communication skills, inadequate exposure to real-life situations has resulted in poor command of English communication skills. Hence, Virtual Reality (VR) integration in ESL classrooms has a great impact on learners' learning through the opportunities to communicate in authentic situations. Therefore, this qualitative case study aimed at investigating ESL students' perceptions towards the use of VR in their verbal communication skills development. This study further investigated students' engagement in learning verbal communication skills using VR. Semi-structured interviews and classroom observations were carried out at a secondary school in Seremban District, Malaysia on twelve students. The findings revealed that the participants are contented and enthusiastic about the use of VR in their ESL classrooms. Moreover, they felt learning communication skills through VR is similar to learning by heart, it retains forever and they are not afraid of using the language they learnt during VR lessons in real-life situations. Also, they felt highly motivated when using VR in their learning.

Keyword : English verbal communication skills, Virtual Reality, ESL classrooms  
Topic : Education



## Enhancing Students' Understanding On Job Hunting Skills Through Board Game

*Aida Fazlin Hisham, Mohd Hidayat Onos, Hazian Ismail*

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### **Abstract**

For Malaysian, English is not our first language. Some might regard it as second language, while for the rest is their foreign language. Thus students always have difficulties to use the language. For instance, students struggled while doing mock interviews due to lack of understanding and practice, hence cause them to get lower score in the assessment. Besides, students seem to lose interest easily in theoretical classes. In order to attract students' interest and focus on the subject, as well as to help students to acquire at least basic English for interview, various teaching methods should be adhered. This will help students to have a better understanding. A game -based learning approach is suitable to be used because students can master problem-solving skills directly or indirectly during the game session. The Job Hunters is specifically designed to enhance students' understanding of job hunting skills that consist of job advertisement, resume and interview. The play of this board game has been administered to semester 4 students (cohort 1:2021/2022 and 2:2021/2022). Generally, the performance is improving as compared to previous cohort who did not use the board. Referring to above discussion, this study is conducted to observe the use of The Job Hunters on Politeknik Kuala Terengganu students' performance. This study is a descriptive in nature. Therefor the discussion will focus on comparison between students' performance. The output of the discussion is hoped might provide some insight into the development of English teaching method.

Keyword : teaching aids, job hunting, board game  
Topic : Education

**CEFR-aligned Primary Curriculum Framework: Rural National Primary School English Language Teachers' Attitudes and Slants**

*Patrick Duffy Bayuong, Harwati Hashim*

Sekolah Kebangsaan Long Busang, Belaga, Sarawak, Malaysia, Universiti Kebangsaan Malaysia

**Abstract**

This study attempted to explore attitudes and slants of Rural National Primary School English Language Teachers in Sarawak, Malaysia towards CEFR-aligned Primary Curriculum Framework. This study used quantitative analysis to interpret data gathered through the questionnaire. A set of a questionnaire in the form of Google Form was prepared. The link to this questionnaire was shared with English language teachers from rural area national primary schools of 12 divisions in Sarawak, a state in Borneo Malaysia to serve the aim of this study. 749 English language teachers had responded to the questionnaire. Specifically, the analysis and discussion are organised in terms of teachers' attitudes and slants. Besides, the demographic profiles of English language teachers were taken into account in doing the analysis and discussion. The findings have shown that the teachers' attitude and slant toward CEFR-aligned Primary Curriculum Framework for Primary School's English Language Education are positive. The chief findings of this study can be a source of reference to the researchers, teachers, academicians, or others who have intention on a similar focus of study to further improve English language education in Malaysia, especially in teaching and learning, and assessments.

Keyword : CEFR-aligned Primary Curriculum Framework, Attitudes, Slants, English Language Teachers, Sarawak Rural National Primary Schools  
Topic : Education

**Situating Intercultural Competence in ESL Education**

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Malaysia

**Abstract**

Global competence in teaching and learning is fundamental in achieving the standard of global education. It is significant in developing individuals with the knowledge, skills and dispositions to act appropriately and effectively in a diverse community. In current settings comprised of different racial, and language backgrounds, the awareness towards others' cultures is central to maintaining peaceful and meaningful interaction, trade and collaboration. Thus, the inclusion of knowledge and skills of intercultural competence as one of the global competence elements in English as a second language (ESL) learning is timely. This paper identifies the importance of incorporating intercultural competence development and the benefits in ESL lessons. Based on the reviews of previous studies, intercultural competence can enhance 21st-century skills, contribute to quality education of Sustainable Development Goals (SDG 4), improve global competency and English language acquisition. However, there is an intriguing finding whereby intercultural competence is often viewed from western viewpoints. Besides, it is found that ESL teachers lack the necessary training to develop and implement intercultural competence in their teaching. Overall, the benefits and arguments can guide and provide insight for educators and researchers, as it is critical to understand how intercultural competency assists students to excel in their future.

Keyword : ESL, Global Competence, Global Knowledge, Intercultural Competence,  
Teaching and Learning of English  
Topic : Education

**Implementation of an I-Care System based on Google Maps and a Windows Server**

*Sharifah Nurulhuda Bt Tuan Mohd Yasin, Siti Nur Afifah Sheikh Shamsul Annuar Banafex, Nur Alysa Nabilla Muhamad Arif*

Politeknik Kuala Terengganu, Politeknik Kuala Terengganu, Politeknik Kuala Terengganu

**Abstract**

Typically, institutions with urban campuses do not have dormitories. Usually students will live in the area around the educational institution to assist learning. This study aimed to provide an i-Care database web design platform for Kuala Terengganu Polytechnic students to express their views on student welfare issues. In addition, the i-Care system can provide location search capabilities using GPS applications to determine rental properties' whereabouts. PHP is a computer language that is utilised in the development of i-care systems. MySQL is a database system. Connecting Google Maps to a website that provides i-Care web services on Windows servers and utilising Google Maps to locate student accommodation is the networking component of the project.

Keyword : Database, Google Maps

Topic : Innovation

## **Tensile Properties As A Function Of Functionally Graded Magnetorheological Elastomer Layers**

*Cheah Yong Hao, Mohd Fauzi Mohd Yunus, Izwan Ismail*

Universiti Malaysia Pahang, Universiti Malaysia Pahang, Universiti Malaysia Pahang

### **Abstract**

Magnetorheological elastomer (MRE) is a type of composite material which consisting of elastomeric matrix and ferromagnetic reinforcement. The tensile property of this materials can be control by the volume fraction of carbonyl iron particles within the MRE. Therefore, the aim of this study is to obtain a data set of the effect of functionally graded magnetorheological elastomer layers on tensile property. To achieve the aim of this study, there have one objectives is set in this study. Fabricate magnetorheological elastomer sample with 4 different composition of carbonyl iron particles. Besides that, the microstructure of the different composition of magnetorheological elastomers are observed its structure and carbonyl iron particles that distributed within the samples. To achieve those objectives that listed, there have four different of composition of MRE is fabricated for conducting the tensile test by using the Universal Tensile Machine. In this study, MRE with 10%, 30% and 50% volume fraction of CIP including the pure silicone rubber is fabricated for this study. Through the tensile test, it can be observed the relationship between the tensile property of MRE at maximum stress condition and break condition and the volume fraction of carbonyl iron particles

Keyword : Magnetorheological elastomer, Universal Tensile Machine

Topic : Technology

## **Application and Implementation Sign to Speech for Hearing Impairment Students**

*Rhoma Erma Zaini, Izwah Ismail, Sharifah Nurulhuda Tuan Mohd Yassin, Ilya Ismail*

Institut Latihan Perindustrian, Politeknik Ungku Omar, Politeknik Kuala Terengganu, Politeknik Sultan Salahuddin Abdul Aziz Shah

### **Abstract**

Hand gesture recognition serves as a key for overcoming many difficulties and providing convenience for human life. The ability of machines to understand human activities and their meaning can be utilized in a vast array of applications. One specific field of interest is sign language recognition. This project advantages is It can act as a communication aid for the hearing- and speech-impaired persons. This project focused on developing a glove that can translate signal language to speak language. In this project currently, we are using about hundred gestures. Further, this project also discusses the challenges and limitations faced by gesture recognition research in general, as well as those exclusive to sign language recognition. The equipment that we use in this project also are using the Arduino nano module and flex sensor. This project is more cost efficient to develop. Overall, it is hoped that this project may make it easier for normal person to interact with hearing impairment person at the same time can lowered the communication gap between the ordinary and hearing impairment person in the future.

Keyword : Android, Application, Hearing Impairment, Future Education  
Topic : Innovation

The 2nd International Virtual Conference on Education, Science, Technology, and Innovation 2022 is the International Conference held by IICET, Redwhite Press, and other affiliations. This conference will be held on 21st June 2022 at Axana Hotel, Padang - Indonesia. The theme of this conference is "Advancing Education, Science, Technology and Innovation Based through local-global synergy in the industrial era 4.0"

### KEYNOTE SPEAKER



**Dr. Hj Mohd Daud bin Isa**  
Politeknik Kuala Terengganu  
Malaysia

### INVITED SPEAKERS



**Assoc. Prof. Dr. Harwati Hashim**  
Universiti Kebangsaan Malaysia  
Malaysia



**Dr. Ilyasu Hussaini**  
Universal Basic Education Commission  
Nigeria



**Dr. Zadrion ardi, S.Pd, M.Pd**  
Universitas Negeri Padang  
Indonesia

**10 June 2022**  
Abstract Submission Deadline

**12 June 2022**  
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**15 June 2022**  
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## IMPORTANT DATE

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