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Contact Numbers:
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Mobile: +63 916 387 3537
e-mail address: editor@iiari.org ● icmiar@iiari.org

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1st IIARI Research Competitions (IRC) 2021

December 4, 2021 • Virtual Awarding Ceremonies

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The organization is anchored on the following strategic pillars:

Research: The value of academic and industry research is at the forefront. The organization upholds quality research through rigorous peer review process.

Education: The landscape of digital quality education in an alternative means is the model the organization embraces. The production of quality educational resources in video, print and online formats gratifies to the needs of every lifelong learners.

Training: The training for professionals is a continuous practice. The organization provides the venue for continuous training through international collaboration that multiplies research conferences, workshops and symposia and sharing of best industry practices.

Community Service: The concept of 'pay it forward' emulates in the organization. It extends a small share in the community development through various forms of outreach programs.

Mission

A premier industry and academic collaborative organization upholding the power of research and education to a more informed and intellectual community of scholars.

Vision

IIARI aims to be at the forefront of research and education transcending post-millennial boundaries through collaborative and dynamic strategies.

About IRC-2021



The IIARI Research Competition (IRC) is an epitome of the organization's commitment to knowledge and research. True to its mission, IIARI upholds the value of research and education for intellectual growth and development. IRC aims to nurture research culture among the students in various education levels.

IRC-2021 is a national competition open to the Filipino student-researchers across the Philippines. It brings forth a venue for the high school, undergraduate and graduate students to display their research writing prowess.

Objectives

The competition aims to:

- continuously develop strong research culture among students;
- provide platform for the dissemination and publication of student research outputs;
- foster collaboration among student-researchers around the globe; and
- develop camaraderie among fellows in the industry and academic community.

Categories and Levels of the Competition

There are three categories of the competition:

Category 1. High School Students. This competition is open to senior high school students.

Category 2. Undergraduate Students. This competition is open to undergraduate students in any specializations.

Category 3. Graduate Students. This competition is open to graduate students both in Masters and Doctorate levels in any specializations.

IRC-2021 has three levels namely: first, second and final round.

First round. The competitors submit the extended abstract of their paper during the first round of the competition. All submissions are through the online submission form below. The panel of evaluators choose the papers to continue to the second round of the competition.

Second round. The competitors submit the full manuscript of their paper together with the student identification, proof of enrolment or certificate of graduation. The

panel of evaluators choose only ten (10) papers from each category to advance to the final round of the competition.

Final round. The top ten papers are called for an online panel interview. There will be one winner per category.

Scope of the Research Papers

There are four key areas: (1) education; (2) business and finance; (3) social sciences and (4) information technology. The competition accepts any topic within its scope and coverage. The submitted article needs to have strong empirical evidence and make significant contribution to the field. It should have strong theoretical and/or methodological literature. The submission is an original article, not have been nor considered for publishing elsewhere. The author must obtain permission for any used copyrighted materials within the article. The competition only accepts articles in English.

Eligibility

The competition is open to currently enrolled students. Authors need to provide valid identification or proof of their enrolment. In case of a team, all the authors must be currently enrolled during the academic year at the time of the competition.

Competitors can use a previously written thesis or dissertation as part of their academic requirement by providing a written certification from the school allowing its use. The paper should have not been published nor considered for publication. Students can use academic papers written from 2019 to 2021. If in case the author had graduated, certificate of graduation should be provided.

About ILA-2021

The IIARI Luminary Award (ILA) is the organization's recognition and celebration of inspirational success stories in teaching, research, leadership and civic works. It embodies IIARI's commitment to the formulation of community of scholars driven by passion for life-long learning and community service. The ILA aims to honor the contribution of individuals in various fields that would serve as inspiration and influence for other people.

ILA is an annual recognition given to individuals from various parts of the world who have exemplary and inspiring contribution in the organization or the community through their profession, academic works, innovation and inventions, community service and inspired behavior and action. It brings forth a venue for the inspirational success stories to emulate and spread.

Objectives

The ILA aims to:

- honor the inspirational success stories of individuals in teaching, research, leadership and civic works;
- recognize the exemplary contribution of individuals in the organization and community;
- provide platform for the emulation of exemplary and inspiring works of individuals around the world;
- foster leadership and service among professionals, researchers and civic individuals around the globe; and
- form a community of scholars driven by passion for life-long learning and community service.

Award Categories

There are four award categories:

- ILA in Civic Works. This award is given to an individual, group or organization that made great impact in the community through their community engagement, service or programs.
- ILA in Teaching. This award is given to professional teacher in basic, high school, undergraduate or graduate education who exemplified the true values of teaching through innovative methodology, improvement of students' academic performance, or support for students' academic journey.

- ILA in Research. This award is given to a researcher who made a difference in the organization or the community through the benefits derived from the published/unpublished research.
- ILA in Leadership. This award is given to a positional leader who made a huge contribution to an organization or the community through exemplary management or strategy bringing success and development.

Nomination

The immediate supervisor, head, colleague/former colleague, teacher/former teacher, student/former student or member of the community can nominate a candidate for the award. Self-nomination is NOT allowed. Anyone can be nominated for the award category. However, only shortlisted candidates are included in the final selection process.

Nomination Process

The nomination is online. The person writing the nomination must complete all the required information and necessary supporting documents (if any). The first round of the selection process is conducted by the special ILA Selection Committee. Only the shortlisted nominees are eligible for the final round of selection. There are no limits as to the number of shortlisted nominees.

Callback/ Virtual Interview

A callback or virtual interview may be called whenever necessary details or information provided in the nomination need further clarification. The special ILA Selection Committee decides on the date, time and manner of the virtual interview. The person writing the nomination and/or the nominee could be called for the virtual interview.

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M E S S A G E

We are closing this year with our biggest events yet – IIARI Research Competitions (IRC) and IIARI Luminary Awards (ILA). It is indeed our pride and honor to gather outstanding students from the Philippines to showcase their outstanding research outputs. We are highly esteemed that the IRC is now the venue for the battle of research intellectuals. With this, we ensure that more students will ignite their interest in research. Moreover, IIARI takes pride in celebrating and recognizing even the small successes of individuals through the ILA. As the president, I am truly privileged and honored that finally I will be handing an award to a person/s who will be such an inspiration to many. I always dream of an award that is NOT for SALE, NOT politically motivated and definitely NOT based on the culture of 'who you know'. In a world where everyone equates the value of an award with a sum of money, I remain traditional for not measuring the achievement of a person with the amount of profit my organization gets.

The biggest lesson we can share that probably helped us thrive during this trying time can be summed up as "*serving your true purpose*". We always remain grounded on our real mission to provide researchers around the world with high-quality events and low-cost publication platforms. As a not-for-profit organization, we deliver alternative business models that are favorable to our clientele. We equalize mutual benefits to continue to deliver our real purpose.

As the founding president of IIARI, I commit to continuously uphold quality publications, conferences and events. I will remain true to my real purpose of serving the research community with truthfulness and sincerity.

Keep safe and God bless!

Dr. Rodrigo M. Velasco
President

M E S S A G E

The IIARI Research Competition (IRC) 2021 is an epitome of the IIARI's commitment to knowledge and research. The purpose of this competition is to nurture research culture among the contestants from different levels. Specifically, the competition aims to give chance and opportunity to student researchers to showcase their skills in research and to publish and disseminate their research output.

This year, the IRC is a national competition which opened to Filipino students researchers. Next year, it will probably be an international competition that will serve as an avenue for high school students, undergraduate, and graduate students to display their research skills. Winners for this competition are selected from the three categories which were evaluated by the panel of evaluators. In addition to the IRC winners, IIARI also give luminary awards from different aspects of research environ in recognition to their exemplary contribution to the society.

Writing a research is not an easy task. It requires, time, effort, critical thinking, problem solving, and communication skills. It is an ability to find answers to the existing phenomenon or issue and evaluate the implication and usefulness of the results to benefit the specific individual, organization or an institution as basis for future undertakings.

Having a research skills is imperative for students to advance their career in the future. As students, conducting research is extremely a useful life skill that will benefit you beyond your academic life. In behalf of the IIARI on its mandate to develop strong research culture, we are happy to serve you and be part of your research journey.

Congratulations to all the winners of this year's IRC competition for your research output and to the luminary awardees for your greatest contribution to the society.

Dr. Ruel F. Ancheta
IRC-21 & ILA-21 Chair

M E S S A G E

"Heroes are never perfect, but they're brave, they're authentic, they're courageous, determined, discreet, and they've got grit."

-Wade Davis, Canadian Anthrolopologist

It is indeed a great day for us researchers, teachers, civic workers, and organization leaders as we gather together for the culmination of the IIARI Research Competition and the IIARI Luminary Awards 2021.

Today's event is a testament of your passion in that search for the truth, and your selfless dedication to serve the people for the greater good. True to its Vision and Mission, the Institute of Industry and Academic Research, Incorporated (IIARI) have provided a platform for the community of scholars, intellectuals, industry experts, and prime movers towards a collaborative learning space for all life-long learners.

The IIARI Research Competition (IRC) is the first of more research competitions in the future under IIARI that aims to nurture the culture of research in different education levels. For this year, we begin with a national competition open to Filipino student-researchers – high school, undergraduate, and graduate students – across the Philippines. In the succeeding years, we will open the competition to foreign and international students around the globe.

On the other hand, the IIARI Luminary Award (ILA) highlights, celebrates, and recognizes the inspirational success stories in civic works, research, teaching, and leadership towards life-long learning and community service. Our awardees for today's event have truly made a difference in their respective communities.
We hope that this avenue will inspire more individuals and organizations to make a difference and bring about change in the society. As Helen Keller would put it: "Alone we can do so little; together we can do so much."

Prof. Julio Ramillo A. Mercurio
Co-chair – IRC-2021/Journal Managing Editor

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ABSTRACT PROCEEDINGS

Category 1
High School

Levels of Awareness of Technical Vocational Livelihood - Information Communications Technology Students of Lopez National Comprehensive High School in Computer Software Applications

Jorlan C. Indrinal
Lopez National Comprehensive High School

ABSTRACT

The digital revolution has had a significant impact on daily life, as shown by the widespread use of devices and the seamless incorporation of technology into everyday activities. The purpose of this research paper is to find out the weak points of students in the awareness and usage of essential software applications at the same time input some recommendations for Program Enhancement for SHS TVL-ICT students at Lopez National Comprehensive High School. The study is descriptive type of research which aims to input recommendations for Program Enhancement for TVL-ICT students of Lopez National Comprehensive High School. The study was conducted in Brgy. Magsaysay Lopez, Quezon. A purposive sampling method was used in selecting the sample size constituting of thirty-six (36) respondents in different age and year levels. The researchers used the aid of Google forms via internet to collect data in this time of pandemic. The findings of the study showed that there is a significant difference in the computer software application awareness between grade 11 and grade 12 students. In order to improve students' knowledge and literacy in database applications, webpage design, and basic computer programming, an enhancement program may be applied to the specialization or integrated into other ICT subjects.

Keywords: TVL-ICT, LNCHS, Computer Awareness SHS, ICT Literacy

About the author:

Jorlan C. Indrinal is a grade 12 student of Lopez National Comprehensive High School taking up Computer Systems Servicing NC-II as specialization in the ICT Strand and TVL track. He is a native of Brgy. Magsaysay Lopez, Quezon. He is the eldest among the three siblings. He is a consistent honor student since Junior High School in the same institution and believes in continuous improvement in his field. Someday he believes in becoming a computer analyst in an international firm.



Students' Exposure to Social Media and Their Radical Involvement on the Societal Issues in the Philippines

Kenneth B. Ibardeloza, Louigie T. Badillo, Janna Mae H. Macatangay, Kharyl R. Dela Cruz & Myryl T. Malabanan
Tanauan City Integrated High School

ABSTRACT

The digital era has had a significant impact on people's perspectives, thus determining whether the vast reach of social media and its free access impacts Filipino teenager's understanding of the issues in the country and their engagement in politics is crucial. The key aim of this study is to investigate the relationship between exposure to social media to the awareness on various social issues and the complex political involvement of youth. The study employed a correlational design of quantitative research approach use to analyze data gathered based on the conducted online survey of senior high school students from Tanauan City Integrated High School. In addition, this study applied a Pearson correlation to determine if a significant correlation existed. Findings showed that there is no significant connection between the respondents' social media exposure and their level of awareness regarding societal issues in the country. On the other hand, there is a significant relationship between the respondents' social media exposure and their level of radical involvement. This research demonstrates how a broader and more advanced understanding of youth's radical political participation associated with more comprehensive measures of social media use can help better understand the role of digital platforms in influencing political participatory behavior and awareness among the internet generation. It is recommendable that future researchers could focus on a different aspect, highlighting the effects of specific social media platform to bring in-depth information about its implications to the political behaviors and awareness of youth in this particular variable.

Keywords: awareness; politics; radical involvement; social media exposure; youth

About the authors:

Kenneth B. Ibardeloza is an alumnus and salutatorian of Boot Elementary School, school year 2015-2016. He completed junior high school as a consisted honor student in Boot National High School and a senior high school student pursuing Science, Technology, Engineering and Mathematics (STEM) strand in Tanauan City Integrated High School. He received various awards and recognitions in "madulang sabayang bigkas", district science congress, district schools press conference in science and technology writing, regional schools press conference, and essay writing contest. He was a presenter on the Socio-Economic and Political Landscape Category at the 3rd DLSU Senior High School Research Congress.



Louigie T. Badillo graduated as a salutatorian Janopol Occ. Elementary School. He received awards and recognitions in various competitions such as sports writing journalism competition in division level and district and division level in chess. He finished junior high school and currently studies STEM strand at Tanauan City Integrated High School. He was a presenter at the Socio-Economic and Political Landscape Category at the 3rd DLSU Senior High School Research Congress.



Janna Mae H. Macatangay finished elementary in Sta. Cecilia Integrated School. She completed junior high school and awarded 3rd honors in Tanauan Institute Inc. and currently taking her senior high school in Tanauan City Integrated High School in STEM strand. She was awarded SCIS Loyalty award, 1st place in Acapella "The Sound Generation" Contest, and 3rd place in Oratorical Speech contest. She was a presenter at the Socio-Economic and Political Landscape Category at the 3rd DLSU Senior High School Research Congress.



Kharyl R. Dela Cruz is a Senior High school student of Tanauan City Integrated High School, taking Science, Technology, Engineering, and Mathematics (STEM) strand. She completed grade 10 with honors, and was one of the authors who conducted a research on modular distance learning modality and was awarded as an “Outstanding Research Presenter”, “Best Research Abstract” and “Best Research Presentation.”



Myryl P. Malabanan is currently a Grade 12 Senior High School student taking Science, Technology, Engineering, and Mathematics (STEM) strand at Tanauan Integrated High School. She was a former member of the Supreme Student Government at her previous school, Pasacao Academy, a former clarinetist in her prior school band, an active club member, a former volleyball, table tennis, and badminton athlete, and a former interpretative dance and cheer dancer. She competed in Brain Quest Competitions for 6 years, representing her school and joining School debates. She has also competed in Beauty Pageants in the past years. She is an extrovert who loves interacting with new people, knowing about them and their background stories and forming a bond with them.



Category 2
Undergraduate

Looking Through the Lens of Rural Science Teachers in the New Normal Setting

Juliet C. San Luis & [1]Maurice R. Villafranca
Calayan Educational Foundation Inc.

ABSTRACT

Teaching science in distance learning has severely challenged the educators in maintaining a quality learning experience during the pandemic. This also opened to new experiences for science teachers to facilitate learning in a new normal setting, especially in rural schools. This qualitative phenomenological study aimed to describe the lived experiences of rural science teachers during the new normal learning. Ethical standards on trustworthiness and rigor were followed. Five (5) participants were purposively chosen through criterion sampling with the following criteria: should be a junior/senior high school rural teacher 30-55 years old, should be teaching science in the school year 2020-2021 and should be willing to express and share their experiences. Data were collected from unstructured interviews. Narratives were transcribed word for word and reflectively analyzed using Braun and Clarke's (2006) thematic analysis. Analyzed data revealed four (4) dominant themes: (1): 4A's of New Normal: Accept, Arrange, Adjust, and Adapt. (2) Dare to Teach: Agents of Learning, Front liners of Teaching. (3) Facing New Variants of Students. (4) A Dose of Hope: Educators' Response to Learning Emergency. The findings of the study contributed to a deeper understanding of the experiences of rural science teachers as they facilitate learning amidst the pandemic. Implications were derived based on the findings. It is challenging for science teachers to grasp students' attention in learning through a modality away from the instructors. Meaningful learning in science has been facilitated using the teachers' interventions through localized experiments, modified activities, and demystified lessons.

Keywords: education, science teachers, rural schools, lived experience, new normal setting, descriptive- phenomenology

About the author:



Juliet C. San Luis is currently a fourth-year college student at Calayan Educational Foundation Inc. under the Bachelor of Secondary Education program specializing in Science. She is a 23 years old aspiring educator from Lucena City, Quezon, Province. She has been consistently an honor student leading her class academically with humility. She was the batch's Salutatorian of Kanlurang Mayao Elementary School, third honors of Lucena City National High School, and graduated with honors in Senior High School at Calayan Educational Foundation Inc. under the STEM strand. She is currently serving as a leader, being the Vice President for Internal Affairs of Young Educators' Circle in CEFI. She shows great interest in academic writing, particularly in the field of education. She finds joining with research training, seminars, and conferences to hone herself and reach her audience through research writing.

[1]Co-author. Research Adviser, Calayan Educational Foundation, Inc.

Cultural Mapping: Ancestral Houses in Lucena City

Arriane P. Rodriguez, King Elvan A. Abella & Arjun V. Adame
Maryhill College, Lucena City

ABSTRACT

This study traced the surviving ancestral houses in Lucena City through cultural mapping activity. The participants were limited to the houses that were built during the Spanish and American period. The ancestral houses gathered are the Gabatin Ancestral House, Queblar Ancestral House, Aquilino & Laureana Daleon Ancestral House, Zaballero Ancestral House, Mauro Salvacion Ancestral House, Dr. Eufemio Jara Ancestral House, and the Villanueva Ancestral House. By utilizing the historical analysis approach, the study used the historical thinking standards which helped analyze the identifiable similarities among the houses based on the descriptions and short narratives associated with them. Upon interviewing the owners/heirs/representatives of the seven ancestral houses, the study found that most ancestral houses were built during the American occupation and mainly situated in the población areas which are located at the heart of the City of Lucena. Furthermore, most of the ancestral houses are primarily built from woods and have a two-storey design. With this, owners were led to convert the house into commercial use for the financial consideration of the family which also gave a way for the family to sustain the maintenance of the house. A travel magazine was crafted and proposed by the researchers that will not just feature each houses but also to promote these remaining ancestral houses in the City of Lucena to be acknowledged and known by the people especially, the Lucenahins.

Keywords: ancestral houses, cultural heritage, cultural mapping, Lucena City, Lucenahins, promotion

About the authors:



Arriane P. Rodriguez finished elementary education at Lucena East VIII Elementary School, junior high school at Lucena City National Highschool and senior high school at Manuel S. Enverga University Foundation where she graduated with honor in Humanities and Social Sciences. She is in her last year for the course Bachelor of Secondary Education major in Social Studies at Mayhill College, Lucena City. She has been consistent in the Dean's List from first year. She is looking forward to become a licensed professional teacher in the near future.

King Elvan A. Abella attended Child Jesus of Nazareth School Inc. for elementary and junior high school and graduated with honors. He continued senior high school education at STI College Lucena with General Academic Strand. He is currently taking Bachelor of Secondary Education major in Social Studies at Maryhill College. He has been consistent in the Dean's List from first year. He is looking forward to become a licensed professional teacher in the near future.



[1]Co-author/Research Adviser. Assistant Program Head for the College of Teacher Education – Maryhill College

Modern-Day Heroes Amidst the Pandemic: Health Risk, Life Satisfaction and Death Anxiety of Front-liners

Krista Kamil R. Zaracena
Laguna State Polytechnic University

ABSTRACT

COVID-19 pandemic has brought the nation's capital healthcare system into its critical mass, leaving the front-liners at significant risk while sacrificing their lives to fight against the COVID-19. This study aimed to determine the relationship between the respondent's profile, health risk, life satisfaction, and death anxiety. This study utilized a quantitative, descriptive-correlational design and a purposive sampling technique that involved 100 front-line healthcare workers from Tayabas, Quezon. All the research instruments used in conducting the study were researcher-made questionnaires, validated by experts, and underwent pilot testing. The research instruments are the personal information sheet, health risk questionnaire, including two factors: the physical and mental health risk with a good reliability score of 0.889, the life satisfaction questionnaire with a good reliability score of 0.852, and the death anxiety questionnaire with an excellent reliability score of 0.918. To find the relationship between variables, Pearson's correlation coefficient was used. Meanwhile, the relationship between death anxiety and the respondents' profile was found that all factors are not significant except for the years of employment, which has a significant inverse relationship. The relationship between death anxiety and the health risk of the respondents in terms of physical health risk and death anxiety has a significant relationship; in terms of mental health risk and death anxiety, it also has a significant relationship. The relationship between life satisfaction and death anxiety has a significant inverse relationship. Furthermore, this study suggests providing intervention to prevent death anxiety by improving the front-liners' physical, mental health, and life satisfaction.

Keywords: COVID-19, pandemic, health risk, life satisfaction, death anxiety, front-liners

About the author:

Krista Kamil R. Zaracena is currently a 4th year Bachelor of Science in Psychology student at Laguna State Polytechnic University, San Pablo City Campus. She is a member of the Psychological Society in their College Department and also a member of the Honor Society. She took Humanities and Social Sciences for her senior high school year at St. Anne College of Lucena, Inc and graduated with honors. She was a member of AGAMA and a Grade 12 HUMSS Representative in Peer Adviser of the Youth Organization (PAYO) during her senior high school days. Presently, she is a mental health research volunteer at The Masters Psychological Services.



Emotional Abuse and Psychological Well Being of College Students

Catherine S. Homoroc & Maria Erika N. Lauta
Laguna State Polytechnic University

ABSTRACT

Emotional abused is said to be hard to detect because of its covert nature, but it can develop different psychological problems in later life. Due to that, this study aimed to investigate the relationship of emotional abuse to the psychological well-being of the college students, specifically those who are enrolled in one of the universities in Laguna. An online survey was distributed through social media platforms which was completed by a total of 205 respondents (60 males and 145 females). The study revealed the following findings: family shows to be the greatest contributor of emotional abuse, followed by the community. The forms of emotional abuse that got the highest mean score were being compared, silent treatment, forced to be okay, and situations leading to questioning own worth and achievements. However, participants' level of psychological well-being was still at a moderate level. In conclusion, respondent's profile as to emotional abuse and to psychological well-being were rejected in some variables. Meanwhile, this study found out that emotional abuse is significant to the psychological well-being of college students. Further studies are needed to identify the other causes of emotional abuse and its preventative measures, also other factors that affects the psychological well-being of students.

Keywords: emotional abuse, psychological well being, college students, acceptance, family, community

About the authors:



Catherine S. Homoroc is a current student of Laguna State, Polytechnic University, San Pablo City Campus. She is taking up Bachelor of Science in Psychology. She just recently finished her on-the-job training for clinical setting at Revive and Redeem Rehabilitation Center Cavite. She is interested in the field of behavioral psychology, abnormal psychology, and psychological assessment. In addition, understanding and helping other people is one of the characteristics she is known for. She plans to pursue master's degree in one of the known colleges in Manila, through a scholarship. In the future, she plans to put up her own psychological clinic that offers psychological services, specifically for children.



Maria Erika Lauta is a student at the San Pablo City Campus of Laguna State Polytechnic University. She is currently pursuing a bachelor's degree in psychology. At Revive and Redeem Rehabilitation Center, she completed her Clinical Setting On-the-Job Training (OJT). She avoids passing judgment on others, and her desire to understand their feelings and difficulties led her to pursue her degree. Being a good listener has become a benefit in the vocation she desires to pursue. She believes that mental health is just as essential as physical health and that both require equal attention and support for people to live life to the fullest. She also plans to take the Board Exam to become a Registered Psychometrician.

Records Management Strategies and Professional Performance of Administrative Staff at Laguna State Polytechnic University

Raven Ryan B. Glorioso Karen Joy Raviz & Jimuel L. Gesmundo
Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

This study was undertaken to determine the records management strategies and professional performance of administrative staff at Laguna State Polytechnic University. The descriptive research involved the participation of 59 administrative staff at Laguna State Polytechnic University. This study used a quantitative descriptive research design as a method to draw out data. The research tool used in the study was a researcher-made questionnaire in the form of a Google forms survey to gather the needed data. The collected data was tailed, tabulated, and treated statistically to establish the records management strategies and their effects on the professional performance of the administrative staff at Laguna State Polytechnic University. The results of the study proved that there is a significant difference in the records management strategies when grouped according to age, gender, job tenure, and position in the department. It is also shown that there is no significant difference among the professional performance when grouped according to age, gender, job tenure, and position in the department. The study also confirmed that records management strategies have a positive significant relation to professional performance. Furthermore, the results of the study can help to improve the university policies, procedures, and strategies in managing records. It is also recommended to provide ongoing training programs and improving implementation of evaluation and assessment to the administrative staff to expand their professional proficiencies in the institution.

Keywords: records management, strategies, professional performance, administrative staff

About the authors:



Raven Ryan B. Glorioso is a fourth- year student taking Bachelor of Science in Office Administration at Laguna State Polytechnic University-San Pablo City Campus. He is a former Vice-President for 2 consecutive years and former President for 1 academic year at Office Administration Students Integrated Society LSPU-San Pablo City Campus (OASIS-LSPU SPCC). Currently, he is the Executive Council Chairman and Consultant of OASIS-LSPU SPCC and the Executive Vice-President of College of Business Management and Accountancy Students Organization at LSPU-San Pablo City Campus. A student leader engaged in service leadership. As a student, leading fellow colleagues to its highest potential skills in the field of office administration, leadership, service and the research and development is one of his great aims to strengthen and develop the competence of every student in office administration. Serving oneself is good but serving others is the best way to achieve success in life.



Karen Joy Raviz is a fourth-year college student pursuing Bachelor of Science in Office Administration at Laguna State Polytechnic University-San Pablo City Campus. She would say that she is not a perfect student but trying not to be the last either. She is studying so as not to receive a failing grade and pass her life in college. As students, she had all faced difficulties in completing and submitting papers, meeting deadlines, and striving to attend class. She knows that students like her are facing challenges in becoming the person they want to be. While thinking and watching herself, she realized that she is a student with extraordinary ideas in mind, eyes that were full of hope, and hearts that were full of courage to reach success. Despite all the trials during her college life, knowing everything will turn out for the best. Hoping that everyone will filter information and apply it to their lives where it will be beneficial.



Jimuel Lotino Gesmundo is a fourth-year student taking Bachelor of Science in Office Administration at Laguna State Polytechnic University-San Pablo City Campus. In the past 3 years, he worked hard to earn money for his family because he has four other younger siblings who are still studying. When his father found a better job that was enough to support his five siblings in their studies, he grabs the opportunity to continue studying. As of now, he still faces a lot of problems and difficulties mainly during the pandemic, but he always believed in God that everything that happens to us whether good or bad God has a plan, so he gives it. His trust is only in God and giving up is not his cup of tea.

Motivational beliefs and Grade 10 Students' Faces of Identity in Mathematics

Alliah Marie M. Reyes & [1]Delon A. Ching
Laguna State Polytechnic University

ABSTRACT

Characterizing students' capability in dealing with mathematics played an essential role in setting a more productive learning space among learners. Despite the low level of mathematical proficiencies revealed by national and international assessments, mathematics teachers ensure that they can still prepare junior high school students for higher mathematical skills competence. In response to this, mathematics learners should not just focus on developing their numerical ideas and abilities but also try to figure out their identity to become problem solvers in math. This study described the motivational beliefs and faces of identity in mathematics of grade 10 students. The use of descriptive and correlational research designs resulted in the study's objectives being met for 2020-2021, with forty-five (45) grade 10 junior high school students who answered an adapted-modified motivational belief assessment and researcher-made survey questionnaire on faces of identity. The result shows a significant positive relationship between the motivational beliefs on self-efficacy, task-value, and extrinsic goal orientation to engagement, imagination, alignment, and nature, and the intrinsic goal orientation to engagement, imagination, and alignment of the students' faces of identity in mathematics. Furthermore, a model shared in the result suggests that the task-value and extrinsic goal orientation of motivational beliefs significantly predict the faces of identity. The study recommends that students determine their identities, which will significantly fit learning spaces conditions to unfold more excellent opportunities in becoming a mathematically inclined individual.

Keywords: Goal orientations, Mathematical Identity, Motivational beliefs, Self-efficacy, Task-value

About the author:

Alliah Marie M. Reyes joined the 2021 Virtual CTE Research Congress for Students last August 20, 2021. One of her dreams is to fulfill her mother's dream to graduate with flying colors. She is also fond of reading stories that reflects true to life happenings. She believes that passion is powerful than the dreams that's why she is currently pursuing her passion to be a professional teacher while her dream is to be also a civil engineer someday wherein she is planning to study after she fulfill her passion.



[1]Co-author/Research Adviser. Instructor I, Laguna State Polytechnic University- San Pablo City, Campus

Sources of Self-Efficacy and Mathematical Reasoning Ability Of Grade 10 Students

Altrea B. Alfaro & [1]Delon A. Ching
Laguna State Polytechnic University, San Pablo City Campus

ABSTRACT

Reasoning skills assumes a significant part in fostering any remaining numerical abilities. Numerical thinking capacity is one of the numerical capacities that should be developed in school learning. Beside cognitive perspective, one of the affective viewpoints is self-efficacy, which is helpful for learners in mathematics learning. Students must be confident in their ability to solve these difficulties. As a result, the goal of this study was to see if there was a relationship between sources of self-efficacy and mathematical reasoning ability among grade 10 students. The study used descriptive-correlational research design which was conducted during the school year 2020-2021, with forty-one (41) grade 10 junior high school students. The study utilized adapted-modified survey questionnaire and researcher-made examination. The result of the study revealed that there is a significant relationship between sources of self-efficacy in vicarious experience and mathematical reasoning ability in terms of mathematical connection and logical thinking. The next researcher may increase the number of respondents, according to the findings. This may upgrade the precision and legitimacy of gathered information and dependability of the outcomes.

Keywords: students' perception, mastery experience, vicarious experience, social persuasion and physiological and emotional state

About the author:

Altrea B. Alfaro is a student in Laguna State Polytechnic University – San Pablo City Campus. She is in her fourth-year taking up Bachelor of Secondary Education major in Mathematics. She participates in quiz bee and any activities that are related to school. When she was senior high school, she took up Humanities and Social Sciences that engaged her to read a lot of books since then.



[1]Co-author/Research Adviser. Instructor I, Laguna State Polytechnic University- San Pablo City, Campus

Problem-Based Learning (PBL) Approach and Problem-Solving Skills of Students

Jerlyn B. Arbo & [1]Delon A. Ching
Laguna State Polythecnic University

ABSTRACT

Many students perceive mathematics as an abstract and difficult subject. The most prevalent reason that mathematics is perceived difficult to learn involves the problem-solving skills. Everything difficult can be made simple with practice and proper strategies in the teaching and learning process. Problem-based learning, according to several articles, is a teaching method that gives pupils the skills they need to address problems in real-life situations. The study's objectives were achieved due to the adoption of descriptive and correlational research methods. For the school year 2020-2021, 40 Grade 9 students from Calamba City Science High School responded to a validated adapted-modified three-item examination and a researcher-made survey questionnaire. The results show that there is no significant relationship between respondents' perceptions of problem-based learning in terms of authentic problem, collaboration, developing expertise, and authentic assessment, and their problem-solving performance in terms of conceptualizing the problem, devising a strategy, implementing the strategy, and reflecting on the solution The researcher believes that the teacher's expertise in implementing the PBL approach is critical. Furthermore, it implies that the learning abilities and techniques of the students have a significant impact on the teaching-learning process. If further researchers want to do a study on this topic, they should consider the following considerations, in order to produce a favorable correlation result.

Keywords: students' perception, authentic problems, collaboration, developing expertise, authentic assessment, problem-solving skills

About the author:



Jerlyn B. Arbo is an undergraduate student with the course of Bachelor of Secondary Education Major in Mathematics at Laguna State Polytechnic University- San Pablo City Campus. As an experienced tutor, she teaches both elementary and high school students. She conducted this study not only in partial fulfillment of the requirements for the course she is taking but also to fulfill her job as a researcher and it can be a good experience for a future educator like her. This paper gives an opportunity for the author's teaching techniques that may be applicable in her future profession.

[1]Co-author/Research Adviser. Instructor I, Laguna State Polytechnic University- San Pablo City, Campus

Math Anxiety and Mathematical Representations of Grade 7 Students

Yno Ferdinand D. Escarez II & [1]Delon A. Ching
Laguna State Polytechnic University

ABSTRACT

Naturally, students are afraid to learn mathematics that progresses as a fear of getting things wrong. Mathematics connects thousands of students into the real-world that builds connections and appreciate the essence and beauty of numbers, shapes, equations and philosophers that create some of the most beautiful formulas in the history of mathematics. This study utilizes the descriptive-correlational research design to test how the two variables are connected to each other. Correspondingly, to reach the following objectives of the study, forty-two (42) Grade 7 Students participated to this study of the school year 2020-2021. The research instrument used is a self-made survey questionnaire for the math anxiety, and for the mathematical representations, assessing the examination of the grade 7 students through the system of modular learning as one of the learning modalities in this study. The result showed that students have a higher level of anxiety towards mathematics. Also, the results presented that students are at the level of 'developing' in performing mathematical representations. The findings show that there is no significant relationship between the math anxiety in terms of mathematics test anxiety and numerical anxiety and the mathematical representations of grade 7 students with respect to pictures, manipulative models, written symbols, real-world situations and oral language. The study suggests that make an effort to use this study into an online learning or blended learning that would enhance the student's engagement of the students in learning Mathematics and getting a higher result.

Keywords: grade 7 students, math anxiety, mathematical representations, representations

About the author:

Yno Ferdinand D. Escarez II is currently a 4th Year College Student and enrolled at the Laguna State Polytechnic University – San Pablo City Campus (LSPU-SPCC) taking Bachelor of Secondary Education – Major in Mathematics from the College of Teacher Education. His purpose is to be determined and ready on facing the work of a future teacher in the teaching profession and to share his experience from the young students who wants to love mathematics to make their life much easier in the Real World.



[1]Co-author/Research Adviser. Instructor I, Laguna State Polytechnic University- San Pablo City, Campus

Mental Representation and Critical Thinking in Problem Solving

Monica O. Eroles & [1]Delon A. Ching
Laguna State Polytechnic University

ABSTRACT

Problem solving is the act of defining a problem, identifying the cause of the problem, determining, categorizing, and choosing options for a solution, and applying a solution. Word problems tend to be complex in part due to their illustrative language. Students usually do not recognize what exactly they are being asked, mostly when the problem includes abstract ideas. As a response, this investigation aims to seek the relationship between mental representation and critical thinking in problem solving. The study utilized descriptive and correlational design and focused on describing the assessed extent of Grade VIII students in critical thinking and the perceived extent of students in mental representation. In determining the relationship of mental representation to critical thinking skills of 40 grade VIII students of Cristobal S. Conducto Memorial Integrated National High School in solving word problems. The study applied survey questionnaires and examinations as instruments. The ramification of the study shows that there is a significant relationship among text-based mental representation and critical thinking skills in problem solving, surface components and the two components in critical thinking which is evaluation and inference, and lastly only inference has a significant relationship in situation model. Thus, this study recommends to seek on how mental representation affects critical thinking of one's student in solving mathematical word problem.

Keywords: Mental Model, Reading Comprehension, Numerical Word Problems, Grade 8 students

About the author:



Monica O. Eroles, is a fourth year college student at Laguna State Polytechnic University, San Pablo City Campus studying Bachelor of Secondary Education major in Mathematics. Currently, she is preparing for the observation of actual teaching and participation and teaching assistantship on a Junior High School. She hopes to learn and explore things in the actual teaching.

[1]Co-author/Research Adviser. Instructor I, Laguna State Polytechnic University- San Pablo City, Campus

Category 3
Graduate

Recreating Financial Literacy of Private Secondary School Teachers in Selected Municipalities of 4th Congressional District of Quezon

Victorino Paloma Pinawin
Gumaca National High School

ABSTRACT

This study examined the personal financial activities of private secondary school teachers in selected municipalities of the 4th congressional district of Quezon. It understood how they respond and act outside the boundaries of financial literacy. A descriptive research design, quantitative method, cluster sampling, and a self-made survey questionnaire collected online were all used in the study. Data focused on the financial knowledge, financial behavior, and financial attitude of the respondents. It employed both descriptive and inferential statistical methods. The theories of human capital, self-efficacy, goal-setting, and the financial literacy modelled this study. The majority of respondents are female-married, young professionals teaching either English or Social Sciences holding a permanent position as Teacher I with less than five years of service. An increase in saving found an association in the field of specialization. A weak positive association exists between basic good financial practices and the building of financial safety nets. Data from a survey shows that significant number of respondents are vulnerable to financial distress. Moderation of financial practices and literacy is an indication of poor financial management. Data attest the need to take steps and intervene through financial training and education to recreate the existing method of treating resources.

Keywords: financial literacy, financial knowledge, financial behavior, financial attitude, financial safety net

About the author:



Victorino Paloma Pinawin is a licensed professional teacher (LPT) with a master's degree in business administration (MBA). He is now employed by the Department of Education (DepEd) – Division of Quezon as a public-school teacher at Gumaca National High School in Gumaca, Quezon, Philippines. Under the Accountancy, Business, and Management (ABM) strand, he teaches a variety of business-related courses to senior high school students.

He worked for QUEDANCOR, the financing arm of the Department of Agriculture (DA) for more than 10 years as a loans management officer for government various agricultural financial programs before becoming a teacher. He also assisted communities designated by Kapit-Bisig Laban sa Kahirapan- Comprehensive and Integrated Delivery of Social Services - National Community-Driven Development Program (KC-NCDDP) of financial management after a successful career in loans management. He likes learning new things such big data, and he is presently enrolled as a Department of Science and Technology (DOST) scholar in an online Data Analytics learning pathways.

Error Analysis in Spoken English among Grade 12 Students

Fresalyn B. Honrado
College of Teacher Education, Aklan State University

ABSTRACT

This study aimed to identify and categorize the errors in spoken English among Grade 12 students based on the linguistic category taxonomy of classification of errors by Dulay, Burt and Krashen. Mixed sequential explanatory research design was used in the study. Participants were chosen from the two Senior High School strand offered at Aguinaldo T. Repiedad Sr. Integrated School using stratified random sampling. Recorded utterances from the picture-description and interview were analyzed for errors using frequency count, mean rank, percentage and Mann-Whitney U Test to determine the major errors and the significant differences of these errors when participants were grouped according to academic track or strand and exposure to English-related media. Results showed that students committed more errors in syntax, and in the articulation of consonant sounds. Moreover, they have difficulty with noun and verb inflections in terms of its morphological component. Additionally, in terms of its syntactical component, the three highest number of errors recorded were on verb, preposition, and noun usage. On the other hand, the students' Senior High School track/strand or exposure to English-related media have no direct influence on the extent of errors the students committed in their utterances. Based on the results, it is recommended that English instruction should be strengthened especially in teaching grammar and pronunciation and use authentic and relevant assessment tools when teaching to allow students to practice oral fluency of the target language.

Keywords: error analysis, linguistic category taxonomy, phonology, morphology, syntax, English-related media

About the author:

Fresalyn B. Honrado is a Senior High School teacher at Aguinaldo T. Repiedad Sr. Integrated School. She graduated with the degree Master of Arts in Education Major in English from Aklan State University College of Teacher Education last July 2020. She started her teaching career as a Junior High School teacher in a private school and was absorbed in the public-school system in 2012. Since then, she has been handling English and English related subjects as well as training young students through coaching various activities such as sports, journalism, creative writing, public speaking and other related contests. Due to her dedication and passion for teaching, she has been promoted as Teacher III in 2016.



Reinforcing Distance Learning: Utilization of Instructional Videos and Worksheets in Basic Calculus for Grade 11 STEM Students

Jojiemar M. Obligar
Batangas State University

ABSTRACT

The objective of this study is to determine the relationship between the assessed effectiveness of utilization of instructional videos and worksheets in learning basic calculus. This study employed quantitative and qualitative types of correlational descriptive research. The respondents are Grade 11 STEM students of Tanauan City Integrated High School enrolled in the second semester, school year 2020-2021. The respondents were selected using Raosoft sample size calculator. To elicit the information needed, the researcher used a self-constructed validated questionnaire and diagnostic test. From the results and findings of this study, it can be inferred that there is a significant relationship between the respondents' level of performance in general mathematics and pre-calculus and their level of performance in basic calculus. It was also found out that there is a significant difference between the pre-test and post-test results in basic calculus. Also, there is a significant relationship between the respondents' assessed effectiveness of utilization of instructional videos and worksheets and their level of performance in basic calculus. Some challenges and difficulties were experienced by the respondents in learning basic calculus during distance learning. Adjustments were made by the students to address those difficulties. It was recommended to develop programs and intervention activities to have a continuous and consistent support in distance learning.

Keywords: basic calculus, distance learning, instructional videos, new normal education, worksheets

About the author:



Dr. Jojiemar M. Obligar graduated Cum Laude at First Asia Institute of Technology and Humanities (FAITH) with the degree Bachelor of Science in Secondary Education, major in Mathematics and Master of Arts, major in Mathematics Teaching at Laguna State Polytechnic University (LSPU), San Pablo City, Laguna. He earned the degree Doctor of Philosophy major in mathematics education in Batangas State University – Main Campus in Batangas City. He is now a Master Teacher II in Tanauan City Integrated High School – Senior High School. He was a research presenter and awardee for best research presenter and best research paper. He was also a resource speaker and learning resource provider in some Division Training-Workshop and In-Service Training for teachers in the City Schools Division of Tanauan.

Financial Literacy and Decision-Making Skills for an Improved Teacher's Financial Well-Being and Professional Qualities

Ladyline V. Martinez & [1]Edilberto Z. Andal
Laguna State Polytechnic University

ABSTRACT

Amidst the COVID-19 pandemic, it is not only the schools, curriculum and the learners who have experienced the changes in the education. Teachers are also moving forward in order to adopt to the changes. Unfortunately, many teachers are experiencing financial stress because of proper financial management in both budget and loan. This study attempted to determine the impact of financial literacy and decision-making skills in improving the financial well-being and professional qualities of public school teachers. This study is a descriptive -correlational research through a survey conducted last April 2021. There were 177 teacher-respondents from fifteen schools in Candelaria East District, Division of Quezon who are mostly above 31-40 years old, females, married, bachelor's degree holders, Teacher I, with a salary of P15,000 – P 24,000 and rendered 1-10 years in service. Results showed that teachers' financial literacy and the decision-making skills are proven to be practiced. Furthermore, financial well-being and professional qualities were also being practiced. The study recommends that the teachers should be careful in managing their finances and keep themselves aware about the proper ways of spending their money and the importance of savings and investments. They should also remember that despite all the stress that they are experiencing, they should keep in doing their best in their profession.

Keywords: financial literacy, financial well-being, decision-making, professional qualities

About the author:



Ladyline V. Martinez is Teacher I in Mangilag Norte Elementary School in Candelaria, Quezon, currently teaching Grade Six learners. She is currently serving as the District Adopt-A-School and Brigada Eskwela Coordinator, School DRRM coordinator, CIP coordinator, and BAC Chairman Coordinator. She finished her elementary in Mangilag Norte Elementary School and secondary in Manuel S. Enverga University Foundation, Candelaria Inc. She earned her Bachelor's degree in Southern Luzon State University-Tiaong Campus as Cum Laude, and finished her Master's degree in Master of Arts in Education Major in Educational Management in Laguna State Polytechnic University-San Pablo City Campus.

[1]Co-author/Research Adviser. Dean of Graduate Studies and Applied Research in the College of Teacher Education of Laguna State Polytechnic University, San Pablo City Campus

Students' Perception, Mathematics Performance, and Experiences in Learning Mathematics Online Through Teacher-Created Videos

Jahfet N. Nabayra
West Visayas State University

ABSTRACT

This embedded mixed-method research aimed to determine the effect of using videos to the mathematics performance of non-mathematics major first year college students. It also sought to describe their perception of mathematics learning in the new normal and experiences on the use of videos in online mathematics learning. The methods used were researcher-made test on mathematics performance, asynchronous online FGD, observation, and open-ended question. Data analysis tools employed for quantitative data were mean, standard deviation, Shapiro-Wilk test (normality), and Wilcoxon Signed-Rank test all processed through SPSS. In addition, thematic analysis was used to analyze qualitative data. The study revealed that the performance of the students after the use of videos in online mathematics learning is higher than before its implementation. Students perceived mathematics learning online in the new normal as challenging but they are willing to learn; interesting and exciting; and meaningful amidst the crisis. Furthermore, the students' experiences on the use of videos in learning mathematics online exemplified that the videos were easy to understand, flexible, have implied social presence of the teacher, and suited to new normal learning. It is also worthy to note that a significant difference was found out in the performance of the students before and after the use of videos in learning mathematics online in favor of the performance after the intervention. Teacher-created videos are indeed effective in helping the students to reflect on their learning progress through self-assessment as one of the features of the videos, making mathematics learning flexible in terms of time and place, personalizing mathematics learning through the social presence of the teacher, simplifying mathematical concepts through comprehensive discussions, and instigating students' interests that mathematics can be exciting despite the global health crisis.

Keywords: students' mathematics performance, perception of online learning, learning experiences, new normal mathematics learning, videos in mathematics education

About the author:



Jahfet N. Nabayra is currently the chairperson of the Quality Assurance unit of the Aklan State University - College of Teacher Education where he graduated with a Bachelor of Secondary Education major in Mathematics degree as Magna Cum Laude. He is an alumnus of the West Visayas State University Main Campus where he finished his Master of Arts in Education major in Mathematics with High Distinction. Currently, he is pursuing Doctor of Philosophy in Science Education major in Mathematics in the same university. In the field of research, he has ongoing and completed researches in the fields of mathematics education, instructional material development, ethnomathematics, flexible learning, graduates' employability, and LET performance. In addition, he has published and presented some of his completed researches in local and international refereed journals, conferences, and fora. With his ardent zeal to share his knowledge and expertise, he has also served as a resource speaker in seminar-workshops on flexible learning modalities, quality assurance, and SPSS in education. He has been helping thousands of LET takers since 2016 to pass the board examination by serving as a lecturer in Mathematics, Professional Education, and General Education courses. He is also a research and statistics specialist in graduate thesis presentations in ASU and other SUCs.

Evaluating poverty and promoting development through health dynamics of indigenous people in Southern Luzon, the Philippines

Emmanuel A. Onsay, CPA
De La Salle University and Partido State University

ABSTRACT

This paper examines the critical aspect of health dynamics in the context of poverty and development of indigenous people (Agta Isarog & Agta Tabangnon) in Mt. Isarog, Southern Luzon, Philippines. The datasets were gathered from the Community-Based Monitoring System (CBMS) of Goa municipality, complemented by IP Censuses of 2018-2019. To begin, the core poverty indicators were analyzed in aggregated and disaggregated approaches. The poverty of each locality differs yet a large portion of the entire households and population of indigenous people are living below the poverty and food thresholds. In addition, the poverty incidence, gap, and severity using headcount ratios, gap metrics, squared gap statistics, and Watts indices were evaluated. It has been revealed that the poverty of indigenous people is moderate to intense and manageable through intervention programs and policy initiatives. It then subsequently characterized the variables of health dynamics which vary per locality, and have been impacting poverty across all barangays. To confirm whether health dynamics predict poverty occurrences, logistic regression models were estimated in an individual and consolidated manner. Results confirm that health dynamics significantly predict poverty outcomes. Moreover, focus group discussion (FGD) and key informant interviews (KII) were conducted with government officials, indigenous people, and stakeholders to generate information for devising intervention programs and policy efforts. Finally, policy mapping and program targeting were outlined to promote economic and community development for each locality.

Keywords: indigenous people, community-based monitoring system, health dynamics, poverty, economic development

About the author:



Emmanuel A. Onsay is a young Certified Public Accountant, junior instructor, extensionist, and researcher at Partido State University, the Philippines. He is the Advisor of the Junior Philippine Institute of Accountants, the BSA Research & Development Coordinator, the BSA Extension Coordinator, the CBM Procurement Coordinator, and the CBM ISO Coordinator. In 2019, he finished the Teachers Certificate Program (TCP) and served as the CPALE Review Coordinator. He is currently pursuing a Master of Science in Accountancy (MSA) at Ateneo de Naga University (ADNU) and a Master in Applied Economics (MAE) at De La Salle University (DLSU). His research paper titled The Analysis of Green Growth Indicators in Predicting the Economic Development of Southeast Asian Countries won the CHED-CODGE Best Paper Award.

Linking Motivation and Employee Engagement through Gamification in Remote Working

Justine Jude Pura
National Sun Yat-sen University

ABSTRACT

Due to the COVID-19 pandemic, numerous organizations have shifted to remote work, telework, or work from home (WFH) for the employees' safety. However, remote work reduces motivation, especially if employees have no choice on where to work. Apart from the motivation of employees, the levels of engagement are also decreasing. With the emergence of telework, numerous challenges are also identified. This research identifies, enumerates, and establishes the need for gamification, a trending concept that uses game elements (or motivational affordances which include points, leaderboards, badges, etc.) to non-game context (marketing/commerce, education, work, etc.) in remote work, to increase the levels of engagement and motivation, as well as to overcome the challenges employees encounter in the new set-up. With the lack of in-depth literature on gamification together with the emergence of work-from-home in the new normal, the researcher used a qualitative design to explore the concept and interviewed 10 employees from the Philippines who were forced to work remotely. The participants for the interview were chosen using the purposive sampling method and were asked about their perceptions on motivation, employee engagement, and games, as well as their perception towards implementing gamification in their new workplace. The interviews were done through online interviews (conference call). This research shows a positive response and potential effect on leveraging both motivation and employee engagement through gamification. With the perceptions of the participants toward gamification, this paper could help develop concepts or theories for potential quantitative research, as well as encourage organizations to implement gamification in the workplace to avoid potential problems.

Keywords: remote working, gamification, employee engagement, motivation

About the author:



Justine Jude Pura is a Global Human Resource Management MBA graduate of National Sun Yat-sen University – College of Management in Kaohsiung City, Taiwan. His research interests are organizational behavior, project management, gamification, and strategic management. He has also a degree in Computer Science at FEU Institute of Technology in Manila, Philippines. Currently, he is working at the DICT - ICT Literacy and Competency Development Bureau as the Project Development Officer 3. He is also the team leader of the Digital Education Program, where he handles the Digital Teachers and Learners Project & Cybersafe Learning for Education Project.

Task-Based Learning Module in Mathematics in Improving the Computational Skills of Grade V Students

Jeaneth B. Anives & [1]Delon A. Ching
Laguna State Polytechnic University/ Rosendo Algenio Elementary School

ABSTRACT

This study aimed to determine the effectiveness of the task-based learning module in mathematics in improving the computational skills of Grade V Students. The study used descriptive-experimental research design. This focused on how the students perceived the structure of the lesson, and that of the respondents' evaluation of the module, and determining the effectiveness of using the task-based learning module in improving the computational skills of the students. The result of the study revealed that the respondents perceived the structure of the module in terms of pre-task, task, and review as very well structured. Likewise, the findings show that the respondents' perceived module based on the criteria of evaluation in terms of adaptability, clarity, validity, usability, and aesthetic value to a very great extent. Further, the result showed a significant difference in the pre-test and posttest scores of the students in computational skills in terms of problem solving, decision making, sequencing, algorithm formation, and quantitative measurement. Furthermore, no significant relationship was found between the perceived structure of the lesson and the mean scores of the students in computational skills. Moreover, the findings also revealed that there is no significant relationship between the perceived evaluation of the module and the computational skills of the students. Thus, this study recommends the use of task-based learning module in mathematics following the structure of pre-task, task, and review to improve the computational skills of the students.

Keywords: task-based learning module, pre-task, task, review, computational skills

About the author:



Jeaneth B. Anives took up Master of Arts in Education-Major in Mathematics at Laguna State Polytechnic University- San Pablo City Campus. She earned her Bachelor's degree at Southern Luzon State University-Tiaong Campus. She is currently a Teacher II, handling the Grade V class at Rosendo Algenio Elementary School, Dolores District of the Division of Quezon. She is the school's mathematics coordinator, she also serves as the school's action research coordinator and part of the first batch of researchers during the District's Research Plenum where she was able to place her action research as the third best research paper.

[1]Co-author/Research Adviser. Instructor I, Laguna State Polytechnic University- San Pablo City, Campus

Reflective Learning Resource Material and the Mathematics Learning Outcome of Grade 9 Students

Herbert I. Aquino & [1]Delon A. Ching
Laguna State Polytechnic University-San Pablo City Campus

ABSTRACT

Students' high achievement is one of the main concerns of every mathematics teacher. The use of different learning strategies is necessary to help learners address their difficulties in mathematical skills and fully understand the lesson. Meanwhile, the lack of organized actual teaching-learning processes within the classroom affects students' scholastic achievement. To address this, the study aimed to determine the impact of the developed learning resource material in the mathematics learning outcome of the learners in terms of analysis, representation and problem-solving skills. The study used a descriptive research design utilizing the pretest/posttest assessment and survey questionnaire as the main instruments which led to achieving its objectives with 35 Grade 9 students as respondents of the school year 2020-2021. The results of the study revealed that reflective learning resource material is highly effective in improving the mathematics learning outcome of the students. Further, findings resulted in a significant difference and an increase in the mathematics learning outcome assessment on analysis, representation, and problem-solving skills which imply that the use of reflective learning resource material helped the students improve. This indicates that from approaching proficiency in analysis skills, representation from developing and proficiency level, and development in problem-solving skills, the learners were able to reach advanced and proficient levels, indicating mastery of the competencies. In certain ways, this demonstrates that the student's reflection in the use of RLRM has a good significant relationship with their mathematics learning outcome. This result suggests that incorporating reflective learning resource material into students' learning activities improved their mathematics learning outcome.

Keywords: reflective learning resource material, mathematics learning outcome, analysis, representation, and problem-solving skills

About the author:

Herbert I. Aquino is a Secondary School Teacher II at Callejon National High School, Callejon, San Antonio, Quezon. He teaches Grade 9 Mathematics. He earned his Bachelor's Degree in Laguna State Polytechnic University, San Pablo City campus and presently a student of MAED-Mathematics in the same school.



[1]Co-author/Research Adviser. Instructor I, Laguna State Polytechnic University- San Pablo City, Campus

Inquiry- Based Learning Tools in Enhancing the Problem- Solving Skill of Grade 10 Students in Probability and Statistics

Israel M. Castillo & [1]Delon A. Ching
Laguna State Polytechnic University, San Pablo City Campus/
Almond Academy Foundation, Inc.

ABSTRACT

Integrating inquiry-based learning as a pedagogy in online distance learning should improve the problem-solving skills of the students. More so, the use of tools relative to inquiry-based learning during online distance learning is a big help to develop problem- solving skills of the students. To support, this study focused on the use of inquiry-based learning tools in terms of blogs and social networks and various publishing tools that aimed to determine its effectiveness in enhancing the problem-solving skill performance of the students. The study used a quasi-experimental research design in conducting the study in which divided 60 Grade 10 students into two groups answered pretest and posttest instruments during the third grading period of academic year 2020-2021. The result showed a significant difference between the pretest and the posttest scores performances of the students which implies that the use of Inquiry- Based Learning Tools helped improved their problem- solving skills. This indicates a significant increase in the students' performance from "not yet meeting expectations" to "fully meeting expectations" in problem- solving skill aspects as to snapshots, concepts and applications, strategies and approaches, accuracy, and representations and communications. This study also revealed that there is no significant difference on the posttest scores performance of the two groups of respondents exposed to Inquiry- Based Learning Tools. Thus, the findings denoted the importance of the use of the Inquiry- Based Learning Tools in Mathematics not just for Grade 10 students but also in all grade level in high school.

Keywords: problem- solving skill, inquiry- based learning tools, blogs and social networks, various publishing tools, quasi- experimental

About the author:



Israel M. Castillo is a graduate of Master of Arts in Education major in Mathematics at Laguna State Polytechnic University, San Pablo City Campus. He earned his Bachelor's degree in the same university with the degree of Bachelor in Secondary Education, major in Mathematics. He is in the teaching profession for 10 years. Currently, he is teaching Mathematics of Grade 10, Research and Mathematics Subjects of Senior High School such as General Mathematics, Pre- Calculus, Basic Calculus, and Statistics and Probability. And as of today, he is the faculty president, and the Elementary principal of Almond Academy Foundation, Inc. located at San Fernando, Sto. Tomas, City, Batangas.

[1]Co-author/Research Adviser. Instructor I, Laguna State Polytechnic University- San Pablo City, Campus

IIARI LUMINARY AWARDEES 2021


Luminary Award
in
Civic Works



Dr. Arlene B. Dela Cruz

Dr. Arlene is the overall team leader of the TEAM ABTIK- ethyl alcohol production of the School of Arts & Sciences (SAS) at Aklan State University during the height of pandemic in 2020. Her nomination comes in place of Engineer Tomas O. Ortega, the Ethyl Alcohol Production Head and Chemist, who unfortunately succumbed to COVID-19 this year. Her overall guidance and leadership paved the way to the initiative's success, especially when ethyl alcohol availability is scant in the market.

The Ethyl Alcohol production of the School of Arts and Sciences was lauded by the LGUs and the Provincial Government of Aklan. Dr. Dela Cruz exemplifies strong commitment to public service. She risks traveling from her residence to the ASU Chemical Laboratory to spearhead the ethyl alcohol production, being a chemist to help the Provincial Government and the community needing ethyl alcohol supply. The message is precise – public service comes first despite health risks.

Office Administration Students Integrated Society

The Office Administration Students Integrated Society (OASIS) is a student organization of the Laguna State Polytechnic University San Pablo City Campus. The organization is involved in research and extension services through collaborative programs and activities with the faculty members and the institution. The organization is headed by its president, Raven Glorioso.

The organization engages in various community services like technical advising on Steno to Senior High School students, donating goods to Taal victims and many more. Even though the students suffer from various constraints as pandemic restrictions and financial difficulties, helping others was one of their top priorities. With their civic works, they were recently bagged 3rd place award in Seal of Good Youth given by the Province of Laguna.



Sahat Maringan Samosir

Sahat is a volunteer English teacher at Lin Yah Sheng Foundation, a Health and Social Welfare Charity Foundation in Taichung City, Taiwan. He is also a foreign student at Yuan Ze University – Taiwan taking up Master in Foreign Languages and Applied Linguistics.

As a volunteer, he teaches English to the disadvantaged and poor children. He also does social service for Global Culture Initiative (GCI) at Yuan Ze University, Taiwan in visiting schools in the rural are to promote the international education program for Taiwanese students. Social work is not new to him because he started as a local volunteer in International Humanity Foundation (IHF) Indonesia, Thailand and Kenya. With his dedication and hard work, he rose to various ranks as co-director (2015), director (2016) and executive director (2017) of IHF.


Luminary Award
in
Teaching



Dr. Michael Leonard D. Lubiano

Dr. Michael is a Master Teacher I of Buenaventura Alandy National High School in the Philippines. He is a graduate of Doctor of Philosophy in Science Education from Southern Luzon State University. He showed an outstanding contribution in the field of science and research in the school and in the division which greatly improved the delivery of teaching and learning in the new normal.

His empirical observations and interviews with the parents/guardians depicted that most of the learners find it difficult to learn the concepts in the module due to lack of teacher guidance and facilitation for learning. Thus, he created the MathSciKEL team to address the learners' concerns. Working together with the modules received by the learners in Mathematics and Science, the localized and contextualized videos were uploaded in the YouTube channel MathSciKEL in a weekly basis in congruent with the budget of work. However, some of the students do not have gadgets at all. Thus, he and his team collaborated with the respective barangays where the learners reside so that those with limited internet access can still watch the supplementary educational videos while answering their modules.



Dr. Masyitah Md Nujid

Dr. Masyitah is a senior lecturer in the School of Civil Engineering, UiTM Cawangan Pulau Pinang, Kampus Permatang Pauh, Malaysia. She holds a Ph.D. in Advanced Soil Engineering, Master of Engineering in Geotechnique and Bachelor of Civil Engineering. She adopted innovative and creative teaching methodology and assessment by using interactive online platform such as Kahoot, Classpoint and others. She also implements experiential and active learning in class. She is currently finishing Microsoft Innovative Educator Programs.

Aside from her creative teaching style, she is also a competitive and active researcher. She recently won the Silver Award in the International E-Content Development Competition 2021 (e-ConDev 2021) under category Massive Open Online Course (MOOC) for Geotechnics course. She has been actively sharing her knowledge and expertise in the field through speakership in various colleges and universities. Due to her expertise and experience, she has been appointed as an external examiner and jury invention and innovation in competitions.



Jerico M. Cuerdo

Jerico is a teacher II in Malining Elementary School, General Nakar, Philippines. He completed his Master in Education major in Educational Management at Northern Quezon College Incorporated.

Teacher Jerico deserves to be recognized for his utmost dedication and great service to the students of Malining Elementary School. He is an unsung hero in the field of teaching for his selfless contribution to the education of the students in the far-flung school of Malining. Although he has a choice to accept an assignment in a nearby area, he remained committed to Malining Elementary School.

In the GMA 7's i-Witness documentary hosted by Ms. Kara David, he shared his life and struggles as a teacher in General Nakar. He walks for two days and hikes mountains to reach the farthest school in the town of General Nakar, Quezon Province. He sacrificed the comfort of own home, privilege of modern school facilities and ease of public transport for the dreams of the students in Malining Elementary School.



Dr. Trinh Le Tan

Dr. Tan is currently a lecturer at FPT University, Vietnam and a former Vice Dean, PSU Program and International Institute, in Duy Tan University, Vietnam. He has a Doctorate in Business Administration.

He is dedicated in performing his administrative and teaching duties, guiding and helping students to excel and assisting students from poor villages in Vietnam to get full time scholarship from DTU and FPT University. He also performs voluntary services including financial help to students and other people of Danang during the pandemic lockdowns. He demonstrated innovation and creativity in mentoring students in research and competitions such as the BIO MS1 new product and the 2021 National Scientific Research Competition.

He is instrumental to the accreditation of the various programs in the College of Accountancy and Business in his former university. Aside from his administrative tasks, he is also an active researcher and speaker. He serves as visiting lecturer to other universities where he shares his knowledge and expertise. With his dedication, he consistently received excellent evaluations from students.


Luminary Award
in
Research



Prof. Jayantha N. Dewasiri

Prof. Jayantha is a senior lecturer in the Faculty of Management Studies, Sabaragamuwa University of Sri Lanka. He holds a Doctor of Philosophy (Ph.D.) in Finance from University of Colombo, M.Sc. in Applied Finance from University of Sri Jayewardenepura and Postgraduate Diploma in Marketing Management from University of Sri Jayewardenepura.

He is a notable researcher in the South Asian region for his publications in high-ranked journals. He is a pioneer in applying triangulation research approach in the management discipline. He has received several awards and recognition for his research works. He serves as editor-in-chief and managing editor of several notable international journals. With his valuable contribution to the research field, he was bestowed as the Emerald Publishing's Brand Ambassador in the South Asian region.



Dr. Bernardo C. Lunar

Dr. Bernardo is currently the Director of the Office of the Research, Evaluation and Publication as well as Director and Dean of the Graduate School in San Pablo Colleges, Laguna, Philippines. He completed PhD in Educational Management from St. Jude College and currently pursuing PhD in Biology in De La Salle University Manila.

He is an active researcher with numerous awards and recognitions, journal publications, presentations in both national and international conferences, published books and speakerships in workshops and conferences. He utilized his research outputs in order to help organizations and partner communities. In his academic role, he helped improved the institution through his commissioned and externally/institutionally funded research works.

Ts. Dr. Duratul Ain Tholibon



Dr. Duratul is a senior lecturer in the School of Civil Engineering, College of Engineering, Universiti Teknologi Mara Cawangan Pahang, Malaysia. She has a PhD in Civil Engineering- Alternative Water Resource.

Her research expertise is river engineering, erosion and sedimentation. In fact, she had received various research grants and currently one of the principal investigators of active research grant on the model of sediment and solute transport in different rainfall pattern conditions funded by the Ministry of Higher Education Malaysia. In addition, she is involved in another active research grant on mechanical properties of Palm Oil Fly Ash (POFA). She had received a total of 7 grants throughout her 14-year experience as senior lecturer and researcher.

She obtained 11 copyrights of intellectual properties from the Intellectual Property Corporation of Malaysia. She is also involved in invention and innovation competition organized by various universities in Malaysia and also actively participates as jury for invention and innovation competition and scientific committee of various conferences.

Dr. Adrian Lawrence P. Carvajal



Dr. Adrian is currently the Dean and Professor of the Graduate School at San Sebastian College Recoletos Manila and Canlubang Campus. He holds a Doctor of Education (Ed.D.), Major in Management from Pangasinan State University and currently pursuing Doctor of Philosophy in Business Management and Doctor of Philosophy in Public Administration.

He is a multi-awarded researcher and engages in multi-disciplinary researches in multi-method approaches in social sciences, education, business, and management. He is an active speaker/presenter in national and international conferences and has published in national and international refereed journals. He also serves as editorial/ review board of several journals and research organizations. He was a project research consultant of AUSAID and USAID-funded researches on the employment and livelihood of persons with disabilities (PWDs) and sustainable communities.


Luminary Award
in
Leadership



Dr. Diobein C. Flores

Dr. Diobein is the President of the Santo Tomas College of Agriculture Sciences and Technology, Daval del Norte, Philippines. He obtained several degrees including Doctor of Public Administration, Doctor of Education and Doctor of Philosophy in Science Education.

Being the youngest college president in Region XI, he used his charisma and passion to lead the entire institution to growth and development. Under his turf, the college was able to secure institutional recognition including the eligibility for RA 10931 or the Free Education Local College in Region XI. He was also able to provide additional funding for plantilla items and salary increase. He also secured million pesos as a subsidy and hit the annual target income. In his time, construction of administrative and laboratory buildings was realized. He made instructional materials reproduction; resources and a learning management system for instruction are free to faculty and students. His notable efforts were recognized by different entities like Asia Pacific Association of Education Training Institute, Metro Bank Foundation of the Philippines, Boy Scouts of the Philippines, DepEd Region XI, UM Alumni Association and even DepEd Davao del Norte Division. In fact, he received several awards from different organizations and educational divisions.



Professor Masaaki HAYO

Professor Masaaki is a Professor Emeritus at the National University Corporation Tokyo Gakugei University. He was the director of the National Institute for Educational Policy Research from 2008 - 2012.

He is a distinguished researcher of educational leadership and management in Japan. He is well-known as a distinguished leader for the recovery project of education after the great disaster - East Japan Earthquake in 2011. He was then the director of the Ministry of Education, Science and Culture when the changes happened to recover from the great disaster. In addition to his accomplishments as administrator, he published 3 books on the recovery of education, schools and community, 10 academic articles on recovery education, compensatory education and school restructuring which became the basis for other schools, colleges and universities.



Edwin P. De Castro

Edwin is currently the teacher-in-charge of the Behia Elementary School in the Philippines. He is currently pursuing his Doctor of Education. He has been in the Department of Education for 17 years as a teacher and administrator.

With his enthusiasm, he was able to lead his school with strong partnership with internal and external stakeholders. He implemented several projects including the first income-generating project dubbed as School-Based Management corner. With his leadership and guidance, the school was able to reap several awards: one of the best implementer of 2N-AIP for 4 quarters, best SMEPA presentation, best implementer of school-based feeding program, best school promotional video. He was also awarded as silver service awardee of the Boy Scouts of the Philippines and National Demonstration teacher.



Prof. Dr. Anita Rolla

Prof. Anita is the current Dean Academics and Director PG Admission at St. Joseph's Degree and Postgraduate College. She has a PhD in Business Management from Osmania University.

She is instrumental to the preparation of the NAAC self-study reports for two cycles, autonomy report for two cycles, AQAR and survey reports. These led to the accreditation and granting of the autonomous status of the college. She also made improvements in the college by introducing the choice-based credit system, changing the curriculum and introducing new courses. With her leadership and dedication, she received numerous awards and recognitions from the institution and national and international organizations.



Dr. Amado L. Magsino

Dr. Amado Magsino is the current Vice President for Academic Affairs of the International Peace Leadership College in the Philippines. He holds a Doctor of Philosophy in Management degree from Colegio de San Juan de Letran. He assumed several administrative positions in various Higher Education Institutions (HEIs) in the Philippines for more than two decades.

His leadership was not confined within the walls of HEIs. In fact, he is a well-known founder of several notable national and international organizations and associations of HEIs in Southeast Asia. He is a President Emeritus of the Council of Deans and Educators of Business in Region IV-A (CODEB4A), Executive Director of the Philippine Council of Deans and Educators in Business (PCDEB) where he was once president during SY 2011-2012 and now back again as PCDEB president for the second term after ten years, Immediate Past President of the Philippine Association of Collegiate Schools of Business (PACSB), where he used to be the president during SYs 2013-2015 and SYs 2018-2021.

Passage to ASEAN (P2A) Philippines was organized through his initiative with no less than 15 schools as founding members. P2A is an association of colleges and universities ASEAN wide, primarily organized for student mobility across ASEAN member schools. He is one of the five- member P2A Executive Committee running the affairs of the Association, represented by Thailand, Vietnam, Indonesia, Singapore, and Philippines.

Institutional Partners

	Universiti Teknologi Mara is the largest public university in Malaysia with more than 200 thousand students all over the country. It has branches in all 14 the states and each state has multiple city campuses. Programs offered are in all area from Diploma to PhD. The areas are accountancy, administration & law, business & management, architecture, engineering, science & technology, computer science, hotel & catering, geomatic & planning, mathematic & actuarial science, office management and TESL. The latest programs are pharmacy and medical programs.
	The College of ICT & Engineering of Western Leyte College aims to provide quality education and latest developments in computing solutions to meet the demands of the society and industry. The goal is to produce competent professionals in the fields of specialization through programs and trainings responsive to industry; supportive and qualified faculty; appropriate facilities; molding the students with the trinity of virtues, wisdom, leadership and commitment; as well as equally opportunity for all. It offers Bachelor of Science in Computer Engineering, Bachelor of Science in Computer Science, Bachelor of Science in Information Technology and 2 Years Associate in Computer Technology.

Training Partners

	The CPD Certification Service **London, United Kingdom** The CPD Certification Service was established in 1996 as the leading independent CPD accreditation institution operating across industry sectors to complement the Continuing Professional Development policies of professional institutes and academic bodies. The CPD Certification Service provides support, advice and recognised independent CPD accreditation compatible with global CPD principles. Our unique experience and history working with training providers, professional bodies, academic institutions and corporate organisations enables us to support organisations seeking authoritative CPD certification for their further learning activities. Thousands of CPD training courses, events, e-learning programs, conferences, workshops and seminars are formally certified by us every year adding significant value for audiences and providers alike.

	Arabia Experience Institute **Muscat, Oman** At its core, Arabia Experience is about three things: Learn, Live, and Love. After participating in AEI programs and expeditions, we hope that Arabia would not be a mysterious desert kingdom anymore, but rather a land that holds fascinating wonders and many new friends. We provide authentic opportunities for learners to experience language and culture from our trained Omani staff and partners. We believe the best learning experiences are those that take place within a team structure. Our multi-national team of qualified Americans and Omanis are ready to ensure activities and learning in a safe and comfortable environment. Giving people the chance to experience daily life in Oman is essential to understanding the people and the language. Arabia Experience Institute aims to go beyond the classroom into life experience with the people of Muscat.
	Kidsland Learning and Development Center of Manila **Manila, Philippines** Kidsland is a DepEd recognized learning center that caters preschoolers to actively engage in teaching and learning activities and prepare them for the next level of their educational journey. It offers nursery, kinder 1 and 2. Its pre-school program has been recognized by the government in 2009 with recognition n. P-016 S. 2010. It believes the child's attitudinal development of his acquisition of knowledge, skills, and values and his uniqueness to perceive and understand the outside world is different from that of the adult. It is committed to provide students with basic knowledge, skills and competencies to improve their cognitive, affective, and motor skills in a loving, safe and positive learning environment. It aims to develop learner's multiple intelligences using various instructional materials suited for children to prepare them in a complex world of learning in intermediate level.
	R.M. Velasco Research and Analysis Services **Quezon Province, Philippines** **R.M. Velasco Research and Analysis Services** is a DTI-registered business entity that offers professional research consultancy services specialized in strategic management, human resource, marketing, accounting, general business, general educational research, theses and dissertation, editing and proofreading and research coaching. Owned and managed by Dr. Rodrigo M. Velasco, it provides support services to students and scholars pursuing graduate programs.

For partnership and collaborations, you may message editor@iiari.org or president@iiari.org. We can start with the review of the Memorandum of Understanding.

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You may visit us at:
South Spring Village, Bukal Sur
Candelaria, Quezon, Philippines
Postal Code 4323

You may call:
Landline: (042) 785-0694; Mobile: +63 916 387 3537

You may message
editor@iiari.org